



# The *bidi Package*

Source documentation for [version 25.10.28](#)

*to my Master, **Ferdowsi The Great***

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# The *bid*i Package

## Bidirectional typesetting with plain T<sub>E</sub>X and L<sup>A</sup>T<sub>E</sub>X formats in XeT<sub>E</sub>X and LuaT<sub>E</sub>X engines

Source documentation for [version 25.10.28](#)

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## 1 File amsart-xetex-bidi.def

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2025/09/30 v1.2 bidi adaptations for amsart class for X
2 \def\@tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \@ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
13    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17  \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \nointerlineskip
29   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
30   \kern11\p@\kern-\footnotesep}
31 \def\left@footnoterule{\kern-.4\p@
32   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
33
34
35 \long\def\@footnotetext#1{%
36   \insert\footins{%
37     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
38     \reset@font%
39     \bidi@footnotetext@font% \normalfont\footnotesize
40     \interlinepenalty\interfootnotelinepenalty
41     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
42     \floatingpenalty\@MM \hsize\columnwidth
43     \@parboxrestore \parindent\normalparindent \sloppy
44     \protected@edef\@currentlabel{%
45       \csname p@footnote\endcsname\@thefnmark}%
46     \@makefnmark%
47     \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
48
49 \long\def\@RTLfootnotetext#1{%
50   \insert\footins{%
51     \@RTLtrue%
52     \reset@font%
```



```

53 \bidi@RTLfootnotetext@font% \normalfont\footnotesize
54 \interlinepenalty\interfootnotelinepenalty
55 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
56 \floatingpenalty\@MM \hsize\columnwidth
57 \@parboxrestore \parindent\normalparindent \sloppy
58 \protected@edef\@currentlabel{%
59 \csname p@footnote\endcsname\@thefnmark}%
60 \makefnfntext{%
61 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
62
63
64
65 \long\def\@LTRfootnotetext#1{%
66 \insert\footins{%
67 \RTLfalse%
68 \reset@font%
69 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
70 \interlinepenalty\interfootnotelinepenalty
71 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
72 \floatingpenalty\@MM \hsize\columnwidth
73 \@parboxrestore \parindent\normalparindent \sloppy
74 \protected@edef\@currentlabel{%
75 \csname p@footnote\endcsname\@thefnmark}%
76 \makefnfntext{%
77 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
78
79
80 \footdir@temp\footdir@ORG\bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
81 \footdir@temp\footdir@ORG\bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
82 \footdir@temp\footdir@ORG\bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
83
84 \renewenvironment{thebibliography}[1]{%
85 \@bibtitlestyle
86 \normalfont\bibliofont\labelsep .5em\relax
87 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
88 \ifRTL\ifLTR\bibitems\@RTLfalse\else\fi\else\ifRTL\bibitems\@RTLtrue\else\fi\fi
89 \bidi@thebibliography@font@hook%
90 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
91 \leftmargin\labelwidth \advance\leftmargin\labelsep
92 \usecounter{enumiv}}%
93 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
94 \sfcode`\.=\@m
95 }{%
96 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
97 \endlist
98 }
99 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
100 \columnseprule\z@ \columnsep 35\p@
101 \@indextitlestyle
102 \thispagestyle{plain}%
103 \let\item\@idxitem
104 \parindent\z@ \parskip\z@\@plus.3\p@\relax
105 \ifRTL\raggedleft\else\raggedright\fi
106 \hyphenpenalty\@M

```



```

107 \footnotesize}
108 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
109 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
110 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
111 \def\maketitle{\par
112 \@topnum\z@ % this prevents figures from falling at the top of page 1
113 \@setcopyright
114 \thispagestyle{firstpage}% this sets first page specifications
115 \uppercasenonmath\shorttitle
116 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
117 \else \andify\shortauthors
118 \fi
119 \@maketitle@hook
120 \begingroup
121 \@maketitle
122 \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
123 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
124 \edef\@tempa{%
125 \nx\markboth{\the\toks4
126 \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
127 \@tempa
128 \endgroup
129 \c@footnote\z@
130 \clearatopmattertags
131 }

```

## 2 File adjmulticol-xetex-bidi.def

```

132 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
133 \def\adjmulticols#1#2#3{\col@number#1\relax
134 \def\@tempa{#2}%
135 \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
136 \def\@tempa{#3}%
137 \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
138 \ifnum\col@number<\@ne
139 \PackageWarning{adjmulticol}%
140 {Using ``\number\col@number'
141 columns doesn't seem a good idea.^^J
142 I therefore use one columns instead}%
143 \col@number\@ne\fi
144 \ifnum\col@number>10
145 \PackageError{adjmulticol}%
146 {Too many columns}%
147 {Current implementation doesn't
148 support more than 10 columns.%
149 \MessageBreak
150 I therefore use 10 columns instead}%
151 \col@number10 \fi
152 \ifx\@footnotetext\mult@footnotetext\else
153 \let\orig@footnotetext\@footnotetext
154 \let\@footnotetext\mult@footnotetext
155 \fi
156 \ifx\@LTrfootnotetext\mult@LTrfootnotetext\else
157 \let\orig@LTrfootnotetext\@LTrfootnotetext

```





```

158     \let\@LTRfootnotetext\mult@LTRfootnotetext
159     \fi
160     \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
161         \let\orig@RTLfootnotetext\@RTLfootnotetext
162         \let\@RTLfootnotetext\mult@RTLfootnotetext
163     \fi
164     \@ifnextchar[\@adjmult@cols{\@adjmult@cols[]}]{}
165     \let\adjmc@page@sofar@orig=\page@sofar

```

### 3 File algorithm2e-xetex-bidi.def

```

166 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
167 \expandafter\ifx\cscname algocf@within\endcsname\relax% if \algocf@within doesn't exist
168 \else%
169     else
170 \renewcommand\thealgocf{\cscname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
171 \fi
172 \ApplyPatchIfPackageLoadedF{color}{%
173     \bidi@patchcmd{\@algocf@start}{\bgroup}{%
174         \bgroup
175         \if@RTL
176             \beginR
177         \else
178             \beginL
179         \fi
180     }{}{}
181     \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
182         \if@RTL
183             \endR
184         \else
185             \endL
186         \fi
187     \egroup
188     \end{lrbox}}%
189 }{}{}
190 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
191     \if@RTL
192         \hboxR
193     \else
194         \hboxL
195     \fi
196 }{}{}
197
198 \@ifpackagewith{algorithm2e}{algonl}{%
199 \renewcommand{\theAlgoLine}{\expandafter\cscname the\algocf@float\endcsname\@SepMark\arabic{A
200 }}{}
201
202 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
203
204 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
205
206 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```



## 4 File amsbook-xetex-bidi.def

```
207 \ProvidesFile{amsbook-xetex-bidi.def}[2025/09/30 v1.3 bidi adaptations for amsbook class for
208 \def\tocline#1#2#3#4#5#6#7{\relax
209 \ifnum #1>\c@tocdepth % then omit
210 \else
211 \par \addpenalty\@secpenalty\addvspace{#2}%
212 \begingroup \hyphenpenalty\@M
213 \@ifempty{#4}{%
214 \@tempdima\csname r@tocindent\number#1\endcsname\relax
215 }{%
216 \@tempdima#4\relax
217 }%
218 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi
219 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
220 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
221 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
222 \nobreak
223 \endgroup
224 \fi}
225 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
226 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
227 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
228 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
229 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
230 \columnseprule\z@ \columnsep 35\p@
231 \@indextitlestyle
232 \thispagestyle{plain}%
233 \let\item\@idxitem
234 \parindent\z@ \parskip\z@\@plus.3\p@\relax
235 \if@RTL\raggedleft\else\raggedright\fi
236 \hyphenpenalty\@M
237 \footnotesize}
238 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
239 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
240 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
241 \def\right@footnoterule{%
242 \kern-.4\p@
243 \nointerlineskip
244 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
245 \kern11\p@\kern-\footnotesep}
246 \def\left@footnoterule{\kern-.4\p@
247 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
248
249 \long\def\@footnotetext#1{%
250 \insert\footins{%
251 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
252 \reset@font%
253 \bidi@footnotetext@font% \normalfont\footnotesize
254 \interlinepenalty\interfootnotelinepenalty
255 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
256 \floatingpenalty\@MM \hsize\columnwidth
257 \@parboxrestore \parindent\normalparindent \sloppy
258 \protected@edef\@currentlabel{%
```



```

259     \csname p@footnote\endcsname\@thefnmark}%
260     \@makefnhtext{%
261         \rule{z@footnotesep\ignorespaces#1\unskip\strut\par}}
262
263 \long\def\@RTLfootnotetext#1{%
264     \insert\footins{%
265         \@RTLtrue%
266         \reset@font%
267         \bidi@RTLfootnotetext@font% \normalfont\footnotesize
268         \interlinepenalty\interfootnotelinepenalty
269         \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
270         \floatingpenalty\@MM \hsize\columnwidth
271         \@parboxrestore \parindent\normalparindent \sloppy
272         \protected@edef\@currentlabel{%
273             \csname p@footnote\endcsname\@thefnmark}%
274         \@makefnhtext{%
275             \rule{z@footnotesep\ignorespaces#1\unskip\strut\par}}}
276
277
278 \long\def\@LTRfootnotetext#1{%
279     \insert\footins{%
280         \@RTLfalse%
281         \reset@font%
282         \bidi@LTRfootnotetext@font% \normalfont\footnotesize
283         \interlinepenalty\interfootnotelinepenalty
284         \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
285         \floatingpenalty\@MM \hsize\columnwidth
286         \@parboxrestore \parindent\normalparindent \sloppy
287         \protected@edef\@currentlabel{%
288             \csname p@footnote\endcsname\@thefnmark}%
289         \@makefnhtext{%
290             \rule{z@footnotesep\ignorespaces#1\unskip\strut\par}}}
291
292
293
294 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
295 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
296 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
297
298 \renewenvironment{thebibliography}[1]{%
299     \@bibtitlestyle
300     \normalfont\bibliofont\labelsep .5em\relax
301     \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
302     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
303     \bidi@thebibliography@font@hook%
304     \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
305         \leftmargin\labelwidth \advance\leftmargin\labelsep
306         \usecounter{enumiv}}%
307     \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
308     \sfcode`\.=\@m
309 }{%
310     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
311     \endlist
312 }

```



```

313 \def\makechapterhead#1{\global\topskip 7.5pc\relax
314 \begingroup
315 \fontsize{\@xivpt}{18}\bfseries\centering
316 \ifnum\c@secnumdepth>\m@ne
317 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
318 \rlap{\vbox to\z@{\vss
319 \centerline{\normalsize\mdseries
320 \uppercase\@xp{\chaptername}\enspace\thechapter}
321 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
322 #1\par \endgroup
323 \skip@34\p@ \advance\skip@-\normalbaselineskip
324 \vskip\skip@ }
325 \def\maketitle{\par
326 \@topnum\z@ % this prevents figures from falling at the top of page 1
327 \begingroup
328 \@maketitle
329 \endgroup
330 \c@footnote\z@
331 \def\do##1{\let##1\relax}%
332 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
333 \do\author \do\@xauthor \do\address \do\@xaddress
334 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
335 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
336 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
337 }

```

## 5 File amsmath-xetex-bidi.def

```

338 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
339 \let\veqno=\eqno
340 \iftagsleft@ \let\veqno=\leqno \fi
341 \renewcommand{\numberwithin}[3][\arabic]{%
342 \ifundefined{c@#2}{\@nocounterr{#2}}{%
343 \ifundefined{c@#3}{\@nocnterr{#3}}{%
344 \addtoreset{#2}{#3}%
345 \exp\xdef\csname the#2\endcsname{%
346 \exp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
347 }
348 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@@italicco
349
350 \bidi@patchcmd\math@cr@@@align\place@tag{%
351 \place@tag
352 \else
353 \place@tag
354 }{}{}
355

```

## 6 File amstext-xetex-bidi.def

```

356 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
357 \def\textdef@#1#2#3{\hbox{%
358 \everymath{#1}%
359 \let\fontsize#2\selectfont
360 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```



## 7 File amsthm-xetex-bidi.def

```
361 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for X
362 \def\@thmcountersep{\@SepMark}
```

## 8 File array-xetex-bidi.def

```
363 \ProvidesFile{array-xetex-bidi.def}[2025/09/11 v0.7 bidi adaptations for array package for X
364 \def\@testpach{\@chclass
365 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
366 \ifnum \@lastchclass=7 5 \else
367 \ifnum \@lastchclass=8 \tw@ \else
368 \ifnum \@lastchclass=9 \thr@@
369 \else \z@
370 \ifnum \@lastchclass = 10 \else
371 \edef\@nextchar{\expandafter\string\@nextchar}%
372 \@chnum
373 \if \@nextchar c\z@ \else
374 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
375 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
376 \z@ \@chclass
377 \if \@nextchar |\@ne \else
378 \if \@nextchar !6 \else
379 \if \@nextchar @7 \else
380 \if \@nextchar <8 \else
381 \if \@nextchar >9 \else
382 10
383 \@chnum
384 \if \@nextchar m\thr@@ \else
385 \if \@nextchar p4 \else
386 \if \@nextchar b5 \else
387 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
388 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
389 \def\@tabular{%
390 \leavevmode
391 \UseTaggingSocket{tbl/hmode/begin}%
392 \hbox \bgroup\if@RTLtab\beginR \fi
393 \MathCollectFalse$\MathCollectTrue
394 \col@sep\tabcolsep \let\d@llarbegin\beginR
395 \let\d@llarend\endR
396 \@kernel@tabular@init
397 \@tabarray}
398 \def\endtabular{\endarray\m@th $\if@RTLtab\endR\fi\egroup
399 \UseTaggingSocket{tbl/hmode/end}%
400 }
401 \expandafter\let\csname endtabular*\endcsname=\endtabular
402 \ExplSyntaxOn
403 \def\@array[#1]#2{
404 \@tempdima \ht \strutbox
405 \advance \@tempdima by\extrarowheight
406 \setbox \@arstrutbox \hbox{\vrule
407 \@height \arraystretch \@tempdima
408 \@depth \arraystretch \dp \strutbox
409 \@width \z@}%

```



```

410 \tbl_save_outer_table_cols:
411 \begingroup
412 \mkpreamble{#2}%
413 \tbl_count_table_cols:
414 \xdef\@preamble{
415   \noexpand \ar@ialign
416   \@halignto
417   \bgroup \@arstrut
418   \UseTaggingSocket{tbl/row/begin}
419   \tbl_init_cell_data_for_row:
420   \@preamble
421   \tabskip \z@ \cr}
422 \endgroup
423 \@arrayleft
424 \if #1t\vtop \else \if #1b\ vbox \else \vcenter \fi \fi
425 \bgroup
426 \let \@sharp ##\let \protect \relax
427 \lineskip \z@
428 \baselineskip \z@
429 \mathsurround \z@
430 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
431 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
432 \UseTaggingSocket{tbl/init}
433 \@preamble
434 }
435 \let\@@array\@array
436 \def\endarray {
437   \tbl_crcr:n{endarray}
438   \tag_socket_use_expandable:n { math/luamml/array/save }
439   \egroup
440   \tag_socket_use:n { tbl/finalize }
441   \tbl_restore_outer_cell_data:
442   \if@RTLtab\egroup\endR\egroup\fi
443   \egroup
444   \tag_socket_use:n { math/luamml/array/finalize }
445   \@arrayright \gdef\@preamble{}%
446 }
447 \def\array{\col@sep\arraycolsep
448   \def\d@llarbegin{$\tag_socket_use:n { math/luamml/array/initcol }}
449   \def\d@llarend
450   {
451     \tag_socket_use:nn { math/luamml/save/nn }{{}}{mtd}}
452     $
453     \tag_socket_use:nn { math/luamml/array/finalizecol}{\the\@chnum}
454   }
455   \def\@halignto{}%
456   \@RTLtabfalse
457   \@tabarray}
458 \ExplSyntaxOff

```

## 9 File article-xetex-bidi.def

```

459 \ProvidesFile{article-xetex-bidi.def}[2025/09/30 v1.2 bidi adaptations for standard article
460 \IfClassLoadedT{svmult}{\endinput}

```



```

461 \if@titlepage
462 \renewcommand\maketitle{\begin{titlepage}%
463 \let\footnotesize\small
464 \let\right@footnoterule\relax
465 \let\left@footnoterule\relax
466 \let\textwidth@footnoterule\relax
467 \let \footnote \thanks
468 \let \LTRfootnote \LTRthanks
469 \let \RTLfootnote \RTLthanks
470 \null\vfil
471 \vskip 60\p@
472 \begin{center}%
473 {\LARGE \@title \par}%
474 \vskip 3em%
475 {\large
476 \lineskip .75em%
477 \begin{tabular}[t]{c}%
478 \@author
479 \end{tabular}\par}%
480 \vskip 1.5em%
481 {\large \@date \par}% % Set date in \large size.
482 \end{center}\par
483 \@thanks
484 \vfil\null
485 \end{titlepage}%
486 \setcounter{footnote}{0}%
487 \global\let\thanks\relax
488 \global\let\LTRthanks\relax
489 \global\let\RTLthanks\relax
490 \global\let\maketitle\relax
491 \global\let\@thanks\@empty
492 \global\let\@author\@empty
493 \global\let\@date\@empty
494 \global\let\@title\@empty
495 \global\let\title\relax
496 \global\let\author\relax
497 \global\let\date\relax
498 \global\let\and\relax
499 }
500 \else
501 \renewcommand\maketitle{\par
502 \begingroup
503 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
504 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
505 \long\def\@makefntext##1{\parindent 1em\noindent
506 \hb@xt@1.8em{%
507 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
508 \if@twocolumn
509 \ifnum \col@number=\@ne
510 \@maketitle
511 \else
512 \twocolumn[\@maketitle]%
513 \fi
514 \else

```



```

515     \newpage
516     \global\@topnum\z@    % Prevents figures from going at top of page.
517     \@maketitle
518     \fi
519     \thispagestyle{plain}\@thanks
520 \endgroup
521 \setcounter{footnote}{0}%
522 \global\let\thanks\relax
523 \global\let\LTRthanks\relax
524 \global\let\RTLthanks\relax
525 \global\let\maketitle\relax
526 \global\let\@maketitle\relax
527 \global\let\@thanks\@empty
528 \global\let\@author\@empty
529 \global\let\@date\@empty
530 \global\let\@title\@empty
531 \global\let\title\relax
532 \global\let\author\relax
533 \global\let\date\relax
534 \global\let\and\relax
535 }
536 \def\@maketitle{%
537   \newpage
538   \null
539   \vskip 2em%
540   \begin{center}%
541     \let \footnote \thanks
542     \let \LTRfootnote \LTRthanks
543     \let \RTLfootnote \RTLthanks
544     {\LARGE \@title \par}%
545     \vskip 1.5em%
546     {\large
547       \lineskip .5em%
548       \begin{tabular}[t]{c}%
549         \@author
550       \end{tabular}\par}%
551     \vskip 1em%
552     {\large \@date}%
553   \end{center}%
554   \par
555   \vskip 1.5em}
556 \fi
557 \renewcommand*\l@part[2]{%
558   \ifnum \c@tocdepth >-2\relax
559     \addpenalty\@secpenalty
560     \addvspace{2.25em \@plus\p@}%
561     \setlength\@tempdima{3em}%
562     \begin{group}
563       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
564       \parfillskip -\@pnumwidth
565       {\leavevmode
566         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
567       \nobreak
568       \if@compatibility

```





```

569         \global\@nbreaktrue
570         \everypar{\global\@nbreakfalse\everypar{}}%
571     \fi
572 \endgroup
573 \fi}
574 \renewcommand*\l@section[2]{%
575     \ifnum \c@tocdepth >\z@
576         \addpenalty\@secpenalty
577         \addvspace{1.0em \@plus\p@}%
578         \setlength\@tempdima{1.5em}%
579         \begingroup
580             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
581             \parfillskip -\@pnumwidth
582             \leavevmode \bfseries
583             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
584             \hskip -\if@RTL\rightskip\else\leftskip\fi
585             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
586         \endgroup
587     \fi}
588 \renewcommand\left@footnoterule{%
589     \kern-3\p@
590     \hrule\@width.4\columnwidth
591     \kern2.6\p@}
592 \renewcommand\right@footnoterule{%
593     \kern-3\p@
594     \nointerlineskip
595     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
596     \kern2.6\p@}
597 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
598 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
599 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
600 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
601 \ApplyPatchIfPackageLoaded{nameref}{%
602     \bidi@patchcmd\NR@part\raggedright{%
603         \if@RTL\raggedleft\else\raggedright\fi
604     }{\bidi@warningnoline{Oops! patching `\'string\NR@part' failed}}}%
605     \bidi@patchcmd\NR@spart\raggedright{%
606         \if@RTL\raggedleft\else\raggedright\fi
607     }{\bidi@warningnoline{Oops! patching `\'string\NR@spart' failed}}}%
608 }{%
609     \bidi@patchcmd\@part\raggedright{%
610         \if@RTL\raggedleft\else\raggedright\fi
611     }{\bidi@warningnoline{Oops! patching `\'string\@part' failed}}}%
612     \bidi@patchcmd\@spart\raggedright{%
613         \if@RTL\raggedleft\else\raggedright\fi
614     }{\bidi@warningnoline{Oops! patching `\'string\@spart' failed}}}%
615 }
616 \renewenvironment{thebibliography}[1]
617     {\section*{\refname}%
618         \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
619         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
620         \bidi@@thebibliography@font@hook%
621         \list{\@biblabel{\@arabic\c@enumiv}}%
622         {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

623         \leftmargin\labelwidth
624         \advance\leftmargin\labelsep
625         \@openbib@code
626         \usecounter{enumiv}%
627         \let\p@enumiv\@empty
628         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
629     \sloppy
630     \clubpenalty4000
631     \@clubpenalty \clubpenalty
632     \widowpenalty4000%
633     \sfcode`. \@m}
634     {\def\@noitemerr
635      {\@latex@warning{Empty `thebibliography' environment}}}%
636     \endlist}
637 \renewenvironment{theindex}
638     {\if@twocolumn
639      \@restonecolfalse
640      \else
641      \@restonecoltrue
642      \fi
643      \columnseprule \z@
644      \columnsep 35\p@
645      \twocolumn[\section*{\indexname}]}%
646      \@mkboth{\MakeUppercase\indexname}%
647              {\MakeUppercase\indexname}%
648      \thispagestyle{plain}\parindent\z@
649      \parskip\z@ \@plus .3\p@\relax
650      \let\item\@idxitem}
651      {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 10 File artikel1-xetex-bidi.def

```

652 \ProvidesFile{artikel1-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for artikel1 class f
653 \renewenvironment{theindex}{%
654   \if@twocolumn
655     \@restonecolfalse
656   \else
657     \@restonecoltrue
658   \fi
659   \columnseprule \z@
660   \columnsep 35\p@
661   \twocolumn[\section*{\indexname}]}%
662   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
663   \thispagestyle{plain}\parindent\z@
664   \parskip\z@ \@plus .3\p@\relax
665   \let\item\@idxitem
666   }{%
667   \if@restonecol\onecolumn\else\clearpage\fi}
668 \renewcommand*\head@style{%
669   \interlinepenalty \@M
670   \hyphenpenalty=\@M \exhyphenpenalty=\@M
671   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
672 \if@titlepage
673   \renewenvironment{abstract}{%

```



```

674     \titlepage
675     \null\vfil
676     \section*{\SectFont\abstractname}
677     \noindent\ignorespaces
678     {\par\vfil\null\endtitlepage}
679 \else
680   \renewenvironment{abstract}{%
681     \if@twocolumn
682       \section*{\abstractname}%
683     \else
684       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
685       \section*{\small\SectFont\abstractname}%
686       \noindent\ignorespaces
687     \fi}
688     {\if@twocolumn\else\par\egroup\fi}
689 \fi
690 \renewcommand*\@regtocline[3]{%
691   \ifnum #1>\c@tocdepth
692   \else
693     \vskip\z@\@plus.2\p@
694     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
695     \if@RTL\rightskip\else\leftskip\fi\unitindent
696     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
697     \parfillskip\z@
698     \@tempdima\unitindent
699     \parindent\z@
700     \leavevmode
701     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
702     \hskip 1em \nobreak{\slshape #3}\par
703   }%
704   \fi}
705 \if@oldtoc
706 \renewcommand*\l@part[2]{%
707   \ifnum \c@tocdepth >-2\relax
708     \addpenalty\@secpenalty
709     \addvspace{2.25em \@plus\p@}%
710     \begingroup
711       \setlength\@tempdima{3em}%
712       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
713       \parfillskip -\@pnumwidth
714       {\leavevmode
715         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
716         \nobreak
717         \if@compatibility
718           \global\@nobreaktrue
719           \everypar{\global\@nobreakfalse\everypar{}}%
720         \fi
721       \endgroup
722     \fi}
723 \else
724   \renewcommand*\l@part{%
725     \ifnum \c@tocdepth >-2\relax
726       \addpenalty\@secpenalty
727       \addvspace{2.25em \@plus \p@}%

```



```

728 \regtocline{0}%
729 \fi}
730 \fi
731 \if@oldtoc
732 \renewcommand*{\l@section[2]{%
733 \addpenalty\@secpenalty
734 \addvspace{1.0em \@plus\p@}%
735 \setlength\@tempdima{1.5em}%
736 \begingroup
737 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \pnumwidth
738 \parfillskip -\pnumwidth
739 \leavevmode \bfseries
740 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
741 \hskip -\if@RTL\rightskip\else\leftskip\fi
742 #1\nobreak\hfil \nobreak\hb@xt@\pnumwidth{\hss #2}\par
743 \endgroup}
744 \else
745 \renewcommand*{\l@section{\@regtocline{1}}
746 \fi
747 \renewcommand*{\thesubsection{\thesection\@SepMark\@arabic\c@section}
748 \renewcommand*{\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
749 \renewcommand*{\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
750 \renewcommand*{\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
751 \renewenvironment{thebibliography}[1]
752 {\section*{\refname}%
753 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
754 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
755 \bidi@thebibliography@font@hook%
756 \list{\@biblabel{\@arabic\c@enumiv}}%
757 {\settowidth\labelwidth{\@biblabel{#1}}%
758 \leftmargin\labelwidth
759 \advance\leftmargin\labelsep
760 \openbib@code
761 \usecounter{enumiv}%
762 \let\p@enumiv\@empty
763 \renewcommand*{\theenumiv{\@arabic\c@enumiv}}%
764 \sloppy\clubpenalty4000\widowpenalty4000%
765 \sfcode\.\@m}
766 {\def\@noitemerr
767 {\@latex@warning{Empty `thebibliography' environment}}}%
768 \endlist}
769 \renewcommand*{\left@footnoterule{%
770 \kern-3\p@
771 \kern.5\baselineskip
772 \hrule\@width\unitindent
773 \kern.4\baselineskip
774 }
775 \renewcommand*{\right@footnoterule{%
776 \kern-3\p@
777 \kern.5\baselineskip
778 \nointerlineskip
779 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
780 \kern.4\baselineskip}
781 \if@titlepage

```



```

782 \renewcommand*{\TitleFont{\rmfamily}
783 \renewcommand*{\maketitle{%
784   \begin{titlepage}%
785     \let\footnotesize\small
786     \let\right@footnoterule\relax
787     \let\left@footnoterule\relax
788     \let\textwidth@footnoterule\relax
789     \let \footnote \thanks
790     \long\def\@makefntext##1{\parindent\z@
791       \def\labelitemi{\textendash}\@revlabeltrue
792       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
793     \renewcommand*{\thefootnote{\@fnsymbol\c@footnote}%
794     \if@compatibility\setcounter{page}{0}\fi
795     \null\vfil
796     \vskip 60\p@
797     \begin{center}%
798       \TitleFont
799       {\LARGE \def\\{\penalty -\@M}
800         \if@allcaps
801           \expandafter\uc@nothanks\@title\thanks\relax
802         \else
803           \@title
804         \fi\par}%
805     \vskip 3em%
806     {\large
807       \lineskip .75em \parindent\z@
808       \begin{tabular}[t]{c}%
809         \if@allcaps
810           \expandafter\uc@authornothanks\@author\and\relax
811         \else
812           \@author
813         \fi
814       \end{tabular}\par}%
815     \vskip 1.5em%
816     {\large
817       \if@allcaps
818         \uppercase\expandafter{\@date}%
819       \else
820         \@date
821       \fi\par}%
822     \end{center}\par
823     \@thanks
824     \vfil\null
825   \end{titlepage}%
826   \setcounter{footnote}{0}%
827   \global\let\thanks\relax
828   \global\let\maketitle\relax
829   \global\let\@thanks\@empty
830   \global\let\@author\@empty
831   \global\let\@title\@empty
832   \global\let\@date\@empty
833   \global\let\title\relax
834   \global\let\author\relax
835   \global\let\date\relax

```



```

836 \global\let\and\relax
837 }
838 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
839 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
840 \futurelet\@tempa\uc@ax}
841 \def\uc@ax{%
842 \ifx\@tempa\relax
843 \else
844 \\\andname \\\expandafter\uc@authornothanks
845 \fi}
846 \def\uc@tx{\ifx\@tempa\relax
847 \else \expandafter\uc@ty \fi}
848 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
849 \else
850 \renewcommand*\maketitle{\par
851 \begingroup
852 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
853 \def\@makefnmark{\rlap{%
854 \@textsuperscript{\normalfont\@thefnmark}}}%
855 \long\def\@makefntext{\@xmakefntext{%
856 \@textsuperscript{\normalfont\@thefnmark}}}%
857 \if@twocolumn
858 \ifnum \col@number=\@ne
859 \\\@maketitle
860 \else
861 \\\twocolumn[\@maketitle]%
862 \fi
863 \else
864 \\\newpage
865 \\\global\@topnum\z@
866 \\\@maketitle
867 \fi
868 \\\thispagestyle{plain}\@thanks
869 \endgroup
870 \setcounter{footnote}{0}%
871 \global\let\thanks\relax
872 \global\let\maketitle\relax
873 \global\let\@maketitle\relax
874 \global\let\@thanks\@empty
875 \global\let\@author\@empty
876 \global\let\@title\@empty
877 \global\let\@date\@empty
878 \global\let\title\relax
879 \global\let\author\relax
880 \global\let\date\relax
881 \global\let\and\relax
882 }
883 \def\@maketitle{%
884 \\\newpage
885 \\\null
886 \\\vskip 2em%
887 \\\begin{center}%
888 \\\let \footnote \thanks
889 \{\LARGE \TitleFont \@title \par}%

```



```

890 \vskip 1.5em%
891 {\large \TitleFont
892 \lineskip .5em%
893 \begin{tabular}[t]{c}%
894 \@author
895 \end{tabular}\par}%
896 \vskip 1em%
897 {\large \TitleFont \@date}%
898 \end{center}%
899 \par
900 \vskip 1.5em}
901 \fi

```

## 11 File artikel2-xetex-bidi.def

```

902 \ProvidesFile{artikel2-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for artikel2 class f
903 \renewenvironment{theindex}{%
904 \if@twocolumn
905 \@restonecolfalse
906 \else
907 \@restonecoltrue
908 \fi
909 \columnseprule \z@
910 \columnsep 35\p@
911 \twocolumn[{\section*{\indexname}}]%
912 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
913 \thispagestyle{plain}\parindent\z@
914 \parskip\z@ \@plus .3\p@\relax
915 \let\item\@idxitem
916 }{%
917 \if@restonecol\onecolumn\else\clearpage\fi}
918 \renewcommand*\@regtocline[3]{%
919 \ifnum #1>\c@tocdepth
920 \else
921 \vskip\z@ \@plus.2\p@
922 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
923 \if@RTL\righskip\else\leftskip\fi\unitindent
924 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
925 \parfillskip\z@
926 \@tempdima\unitindent
927 \advance\@tempdima by \othermargin
928 \parindent\z@
929 \leavevmode
930 \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
931 \hskip 1em \nobreak{\slshape #3}\par
932 }%
933 \fi}
934 \if@oldtoc
935 \renewcommand*\l@section[2]{%
936 \addpenalty\@secpenalty
937 \addvspace{1.0em \@plus\p@}%
938 \setlength\@tempdima{1.5em}%
939 \begingroup
940 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth

```



```

941 \parfillskip -\@pnumwidth
942 \leavevmode \bfseries
943 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
944 \hskip -\if@RTL\rightskip\else\leftskip\fi
945 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
946 \endgroup}
947 \else
948 \renewcommand*\l@section{\@regtocline{1}}
949 \fi
950 \if@oldtoc
951 \renewcommand*\l@part[2]{%
952 \ifnum \c@tocdepth >-2\relax
953 \addpenalty\@secpenalty
954 \addvspace{2.25em \@plus\p@}%
955 \begingroup
956 \setlength\@tempdima{3em}%
957 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
958 \parfillskip -\@pnumwidth
959 {\leavevmode
960 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
961 \nobreak
962 \if@compatibility
963 \global\@nobreaktrue
964 \everypar{\global\@nobreakfalse\everypar{}}%
965 \fi
966 \endgroup
967 \fi}
968 \else
969 \renewcommand*\l@part{%
970 \ifnum \c@tocdepth >-2\relax
971 \addpenalty\@secpenalty
972 \addvspace{2.25em \@plus \p@}%
973 \@regtocline{0}%
974 \fi}
975 \fi
976 \renewcommand*\head@style{%
977 \interlinepenalty \@M
978 \hyphenpenalty=\@M \exhyphenpenalty=\@M
979 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
980 \if@titlepage
981 \renewenvironment{abstract}{%
982 \titlepage
983 \null\vfil
984 \section*{\SectFont\abstractname}%
985 \noindent\ignorespaces}
986 {\par\vfil\null\endtitlepage}
987 \else
988 \renewenvironment{abstract}{%
989 \if@twocolumn
990 \section*{\abstractname}%
991 \else
992 \section*{\hskip\unitindent\small\SectFont\abstractname}%
993 \list{}{\setlength\listparindent{\unitindent}%
994 \setlength\parindent {\z@}%

```





```

995             \setlength\leftmargin   {\unitindent}%
996             \setlength\rightmargin  {\unitindent}%
997             \setlength\parsep       {\z@}}%
998         \item[]%
999     \fi}
1000 {\if@twocolumn\else\par\endlist\fi}
1001 \fi
1002 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1003 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1004 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1005 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1006 \renewcommand*\left@footnoterule{%
1007     \kern-3\p@
1008     \hrule\@width 3\unitindent
1009     \kern 2.6\p@
1010 }
1011 \renewcommand*\right@footnoterule{%
1012     \kern-3\p@
1013     \nointerlineskip
1014     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1015     \kern 2.6\p@}
1016 \renewenvironment{thebibliography}[1]
1017     {\section*{\refname}%
1018         \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1019         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1020         \bidi@thebibliography@font@hook%
1021         \list{\@biblabel{\@arabic\c@enumiv}}%
1022             {\settowidth\labelwidth{\@biblabel{#1}}%
1023             \leftmargin\labelwidth
1024             \advance\leftmargin\labelsep
1025             \@openbib@code
1026             \usecounter{enumiv}%
1027             \let\p@enumiv\@empty
1028             \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1029         \sloppy\clubpenalty4000\widowpenalty4000%
1030         \sfcode`\.\@m}
1031     {\def\@noitemerr
1032         {\@latex@warning{Empty `thebibliography' environment}}%
1033     \endlist}
1034 \if@titlepage
1035 \renewcommand*\TitleFont{\rmfamily}
1036 \renewcommand*\maketitle{%
1037     \begin{titlepage}%
1038         \let\footnotesize\small
1039         \let\right@footnoterule\relax
1040         \let\left@footnoterule\relax
1041         \let\textwidth\footnoterule\relax
1042         \let\footnote\thanks
1043         \long\def\@makefntext##1{\parindent\z@
1044             \def\labelitemi{\textendash}\@revlabeltrue
1045             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1046         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1047         \if@compatibility\setcounter{page}{0}\fi
1048         \null\vfil

```



```

1049 \vskip 60\p@
1050 \begin{center}%
1051 \TitleFont
1052 {\LARGE \def\\{\penalty -\@M}
1053 \if@allcaps
1054 \expandafter\uc@nothanks\@title\thanks\relax
1055 \else
1056 \@title
1057 \fi\par}%
1058 \vskip 3em%
1059 {\large
1060 \lineskip .75em \parindent\z@
1061 \begin{tabular}[t]{c}%
1062 \if@allcaps
1063 \expandafter\uc@authornothanks\@author\and\relax
1064 \else
1065 \@author
1066 \fi
1067 \end{tabular}\par}%
1068 \vskip 1.5em%
1069 {\large
1070 \if@allcaps
1071 \uppercase\expandafter{\@date}%
1072 \else
1073 \@date
1074 \fi\par}%
1075 \end{center}\par
1076 \@thanks
1077 \vfil\null
1078 \end{titlepage}%
1079 \setcounter{footnote}{0}%
1080 \global\let\thanks\relax
1081 \global\let\maketitle\relax
1082 \global\let\@thanks\@empty
1083 \global\let\@author\@empty
1084 \global\let\@title\@empty
1085 \global\let\@date\@empty
1086 \global\let\title\relax
1087 \global\let\author\relax
1088 \global\let\date\relax
1089 \global\let\and\relax
1090 }
1091 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1092 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1093 \futurelet\@tempa\uc@ax}
1094 \def\uc@ax{%
1095 \ifx\@tempa\relax
1096 \else
1097 \\\andname \\\expandafter\uc@authornothanks
1098 \fi}
1099 \def\uc@tx{\ifx\@tempa\relax
1100 \else \expandafter\uc@ty \fi}
1101 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1102 \else

```



```

1103 \renewcommand*\maketitle{\par
1104   \begin{group}
1105     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1106     \long\def\@makefnmark##1{\parindent\z@
1107       \def\labelitemi{\textendash}%
1108       \leavevmode\hb@xt@.5\unitindent{%
1109         \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1110     \if@twocolumn
1111       \ifnum \col@number=\@one
1112         \@maketitle
1113       \else
1114         \twocolumn[\@maketitle]%
1115       \fi
1116     \else
1117       \newpage
1118       \global\@topnum\z@
1119       \@maketitle
1120     \fi
1121     \thispagestyle{plain}\@thanks
1122   \end{group}
1123   \setcounter{footnote}{0}%
1124   \global\let\thanks\relax
1125   \global\let\maketitle\relax
1126   \global\let\@maketitle\relax
1127   \global\let\@thanks\@empty
1128   \global\let\@author\@empty
1129   \global\let\@title\@empty
1130   \global\let\@date\@empty
1131   \global\let\title\relax
1132   \global\let\author\relax
1133   \global\let\date\relax
1134   \global\let\and\relax
1135 }
1136 \def\@maketitle{%
1137   \newpage
1138   \null
1139   \vskip 2em%
1140   \begin{center}%
1141     \let \footnote \thanks
1142     {\LARGE \TitleFont \@title \par}%
1143     \vskip 1.5em%
1144     {\large \TitleFont
1145       \lineskip .5em%
1146       \begin{tabular}[t]{c}%
1147         \@author
1148       \end{tabular}\par}%
1149     \vskip 1em%
1150     {\large \TitleFont \@date}%
1151   \end{center}%
1152   \par
1153   \vskip 1.5em}
1154 \fi

```



## 12 File artikel3-xetex-bidi.def

```

1155 \ProvidesFile{artikel3-xetex-bidi.def}[2025/09/30 v0.6 bidi adaptations for artikel3 class f
1156 \renewenvironment{theindex}{%
1157   \if@twocolumn
1158     \@restonecolfalse
1159   \else
1160     \@restonecoltrue
1161   \fi
1162   \columnseprule \z@
1163   \columnsep 35\p@
1164   \twocolumn[\section*{\indexname}]{%
1165     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
1166   \thispagestyle{plain}\parindent\z@
1167   \parskip\z@ \@plus .3\p@\relax
1168   \let\item\@idxitem
1169   }{%
1170   \if@restonecol\onecolumn\else\clearpage\fi}
1171 \renewcommand*{\headstyle}{%
1172   \interlinepenalty \@M
1173   \hyphenpenalty=\@M \exhyphenpenalty=\@M
1174   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1175 \renewcommand*{\@regtocline}[3]{%
1176   \ifnum #1>\c@tocdepth
1177   \else
1178     \vskip\z@ \@plus .2\p@
1179     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1180     \if@RTL\rightskip\else\leftskip\fi\unitindent
1181     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1182     \parfillskip\z@
1183     \@tempdima\unitindent
1184     \parindent\z@
1185     \leavevmode
1186     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1187     \hskip 1em \nobreak{\slshape #3}\par
1188   }%
1189   \fi}
1190 \if@oldtoc
1191 \renewcommand*{\l@part}[2]{%
1192   \ifnum \c@tocdepth >-2\relax
1193     \addpenalty\@secpenalty
1194     \addvspace{2.25em \@plus\p@}%
1195     \begingroup
1196       \setlength\@tempdima{3em}%
1197       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1198       \parfillskip -\@pnumwidth
1199       {\leavevmode
1200        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1201        \nobreak
1202        \if@compatibility
1203          \global\@nobreaktrue
1204          \everypar{\global\@nobreakfalse\everypar{}}%
1205        \fi
1206      \endgroup

```



```

1207 \fi}
1208 \else
1209 \renewcommand*\l@part{%
1210 \ifnum \c@tocdepth >-2\relax
1211 \addpenalty\@secpenalty
1212 \addvspace{2.25em \@plus \p@}%
1213 \@regtocline{0}%
1214 \fi}
1215 \fi
1216
1217 \if@oldtoc
1218 \renewcommand*\l@section[2]{%
1219 \addpenalty\@secpenalty
1220 \addvspace{1.0em \@plus \p@}%
1221 \setlength\@tempdima{1.5em}%
1222 \begingroup
1223 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1224 \parfillskip -\@pnumwidth
1225 \leavevmode \bfseries
1226 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1227 \hskip -\if@RTL\rightskip\else\leftskip\fi
1228 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1229 \endgroup}
1230 \else
1231 \renewcommand*\l@section{\@regtocline{1}}
1232 \fi
1233 \if@titlepage
1234 \renewenvironment{abstract}{%
1235 \titlepage
1236 \null\vfil
1237 \section*{\SectFont\abstractname}%
1238 \noindent\ignorespaces}
1239 {\par\vfil\null\endtitlepage}
1240 \else
1241 \renewenvironment{abstract}{%
1242 \if@twocolumn
1243 \section*{\abstractname}%
1244 \else
1245 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1246 \section*{\small\SectFont\abstractname}%
1247 \noindent\ignorespaces
1248 \fi}
1249 {\if@twocolumn\else\par\egroup\fi}
1250 \fi
1251 \renewcommand*\left@footnoterule{%
1252 \kern-3\p@
1253 \kern.5\baselineskip
1254 \hrule\@width\unitindent
1255 \kern.4\baselineskip
1256 }
1257 \renewcommand*\right@footnoterule{%
1258 \kern-3\p@
1259 \kern.5\baselineskip
1260 \nointerlineskip

```



```

1261 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1262 \kern.4\baselineskip}
1263 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
1264 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1265 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1266 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1267 \renewenvironment{thebibliography}[1]
1268     {\section*{\refname}%
1269      \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1270      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1271      \bidi\@thebibliography@font@hook%
1272      \list{\@biblabel{\@arabic\c@enumiv}}%
1273          {\settowidth\labelwidth{\@biblabel{#1}}%
1274           \leftmargin\labelwidth
1275           \advance\leftmargin\labelsep
1276           \@openbib@code
1277           \usecounter{enumiv}%
1278           \let\p@enumiv\@empty
1279           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1280      \sloppy\clubpenalty4000\widowpenalty4000%
1281      \sfcode\.\@m}
1282      {\def\@noitemerr
1283       {\@latex@warning{Empty `thebibliography' environment}}}%
1284      \endlist}
1285 \if@titlepage
1286 \renewcommand*\TitleFont{\rmfamily}
1287 \renewcommand*\maketitle{%
1288 \begin{titlepage}%
1289 \let\footnotesize\small
1290 \let\right@footnoterule\relax
1291 \let\left@footnoterule\relax
1292 \let\textwidth\footnoterule\relax
1293 \let \footnote \thanks
1294 \long\def\@makefntext##1{\parindent\z@
1295 \def\labelitemi{\textendash}\@revlabeltrue
1296 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1297 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1298 \if@compatibility\setcounter{page}{0}\fi
1299 \null\vfil
1300 \vskip 60\p@
1301 \begin{center}%
1302 \TitleFont
1303 {\LARGE \def\\{\penalty -\@M}
1304 \if@allcaps
1305 \expandafter\uc@nothanks\@title\thanks\relax
1306 \else
1307 \@title
1308 \fi\par}%
1309 \vskip 3em%
1310 {\large
1311 \lineskip .75em \parindent\z@
1312 \begin{tabular}[t]{c}%
1313 \if@allcaps
1314 \expandafter\uc@authornothanks\@author\and\relax

```



```

1315         \else
1316             \@author
1317         \fi
1318     \end{tabular}\par}%
1319     \vskip 1.5em%
1320     {\large
1321         \if@allcaps
1322             \uppercase\expandafter{\@date}%
1323         \else
1324             \@date
1325         \fi\par}%
1326     \end{center}\par
1327     \@thanks
1328     \vfil\null
1329 \end{titlepage}%
1330 \setcounter{footnote}{0}%
1331 \global\let\thanks\relax
1332 \global\let\maketitle\relax
1333 \global\let\@thanks\@empty
1334 \global\let\@author\@empty
1335 \global\let\@title\@empty
1336 \global\let\@date\@empty
1337 \global\let\title\relax
1338 \global\let\author\relax
1339 \global\let\date\relax
1340 \global\let\and\relax
1341 }
1342 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1343 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1344     \futurelet\@tempa\uc@ax}
1345 \def\uc@ax{%
1346     \ifx\@tempa\relax
1347     \else
1348         \\\andname \\\expandafter\uc@authornothanks
1349     \fi}
1350 \def\uc@tx{\ifx\@tempa\relax
1351     \else \expandafter\uc@ty \fi}
1352 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1353 \else
1354 \renewcommand*\maketitle{\par
1355     \begingroup
1356     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1357     \def\@makefnmark{\rlap{%
1358         \@textsuperscript{\normalfont\@thefnmark}}}%
1359     \long\def\@makefntext{\@xmakefntext{%
1360         \@textsuperscript{\normalfont\@thefnmark}}}%
1361     \if@twocolumn
1362         \ifnum \col@number=\@one
1363             \@maketitle
1364         \else
1365             \twocolumn[\@maketitle]%
1366         \fi
1367     \else
1368         \newpage

```



```

1369     \global\@topnum\z@
1370     \@maketitle
1371     \fi
1372     \thispagestyle{plain}\@thanks
1373 \endgroup
1374 \setcounter{footnote}{0}%
1375 \global\let\thanks\relax
1376 \global\let\maketitle\relax
1377 \global\let\@maketitle\relax
1378 \global\let\@thanks\@empty
1379 \global\let\@author\@empty
1380 \global\let\@title\@empty
1381 \global\let\@date\@empty
1382 \global\let\title\relax
1383 \global\let\author\relax
1384 \global\let\date\relax
1385 \global\let\and\relax
1386 }
1387 \def\@maketitle{%
1388   \newpage
1389   \null
1390   \vskip 2em%
1391   \if@titlecentered
1392     \begin{center}%
1393       \let \footnote \thanks
1394       {\LARGE \TitleFont \@title \par}%
1395       \vskip 1.5em%
1396       {\large \TitleFont
1397         \lineskip .5em%
1398         \begin{tabular}[t]{c}%
1399           \@author
1400         \end{tabular}\par}%
1401       \vskip 1em%
1402       {\large \TitleFont \@date}%
1403     \end{center}%
1404   \else
1405     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1406     {\large \TitleFont \lineskip .5em \tabcolsep\z@
1407       \def\and{%% \begin{tabular} has already started
1408         \end{tabular}\hskip 1em plus .17fil
1409         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
1410         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\vskip 1em {\large \TitleFont \@date}
1411     }
1412   \fi
1413   \par
1414   \vskip 1.5em}
1415 \fi

```

### 13 File arydshln-xetex-bidi.def

```

1416 \ProvidesFile{arydshln-xetex-bidi.def}[2025/10/28 v0.4 bidi adaptations for arydshln package]
1417 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1418 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1419 \expandafter\let\csname endtabular*\endcsname\endtabular

```





```

1420 \let\adl@array\@array
1421 \def\@array{\adl@everyvbox\everyvbox
1422     \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1423     \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1424     \let\adl@noalign\noalign
1425     \adl@array}
1426 \ifx\@@array\adl@array \let\@@array\@array \fi
1427 \ifadl@usingarypkg
1428 \def\@testpach{\@chclass
1429 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1430 \ifnum \@lastchclass=7 5 \else
1431 \ifnum \@lastchclass=8 \tw@ \else
1432 \ifnum \@lastchclass=9 \thr@@
1433 \else \z@
1434 \ifnum \@lastchclass = 10 \else
1435 \edef\@nextchar{\expandafter\string\@nextchar}%
1436 \@chnum
1437 \if \@nextchar c\z@ \else
1438 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1439 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1440 \z@ \@chclass
1441 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1442 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1443 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1444 \if \@nextchar !6 \else
1445 \if \@nextchar @7 \else
1446 \if \@nextchar <8 \else
1447 \if \@nextchar >9 \else
1448 10
1449 \@chnum
1450 \if \@nextchar m\thr@@\else
1451 \if \@nextchar p4 \else
1452 \if \@nextchar b5 \else
1453 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1454 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1455
1456 \def\@classz{\@classx
1457     \@tempcnta \count@
1458     \prepnext@tok
1459     \@addtopreamble{\ifcase \@chnum
1460         \hfil
1461         \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1462         \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1463         \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1464         \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1465         \adl@endmbox\or
1466         \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1467         \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1468         \fi}\prepnext@tok}
1469 \def\adl@class@start{4}
1470 \def\adl@class@iiiorvii{7}
1471
1472 \else
1473 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else

```



```

1474 \ifnum \@lastchclass=\thr@@ 5\relax \else
1475 \z@ \if #1c\@chnum \z@ \else
1476 \if \if@RTLtab#1r\else#1l\fi\@chnum \@one \else
1477 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1478 \@chclass
1479 \if #1|\@one \let\@arrayrule\adl@arrayrule \else
1480 \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1481 \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1482 \if #1@ \tw@ \else
1483 \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1484 \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1485
1486 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1487 \or \or \@addamp \or
1488 \@acolampacol \or \@firstampfalse \@acol \fi
1489 \edef\@preamble{\@preamble
1490 \ifcase \@chnum
1491 \hfil\adl@putlrc{$\relax\@sharp$}\hfil
1492 \or \adl@putlrc{$\relax\@sharp$}\hfil
1493 \or \hfil\adl@putlrc{$\relax\@sharp$}\fi}}
1494 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1495 \or \or \@addamp \or
1496 \@acolampacol \or \@firstampfalse \@acol \fi
1497 \edef\@preamble{\@preamble
1498 \ifcase \@chnum
1499 \hfil\adl@putlrc{\@sharp\unskip}\hfil
1500 \or \adl@putlrc{\@sharp\unskip}\hfil
1501 \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1502 \def\adl@class@start{6}
1503 \def\adl@class@iiiorvii{3}
1504 \fi
1505 \ApplyPatchCodeToFile{colortbl-xetex-bidi}{%
1506 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1507 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1508 \let\@endpbox\adl@org@endpbox}
1509 \let\adl@CT@setup\CT@setup
1510 \def\CT@setup{\adl@CT@setup
1511 \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1512 \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1513 \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1514 \let\adl@act@CT@setup\CT@setup
1515 \def\@classz{\@classx
1516 \@tempcnta\count@ \prepnext@tok
1517 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1518 \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1519 \expandafter\adl@extract@drsc
1520 \the\toks\@tempcnta\doublerulesepcolor!\@nil
1521 \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1522 \@addtopreamble{\if@RTL\beginL\fi%
1523 \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1524 \ifcase \@chnum
1525 \hskip\stretch{.5}\kern\z@
1526 \dollarbegin
1527 \insert@column

```



```

1528             \d@llarend\hskip\stretch{.5}%
1529         \or \d@llarbegin \insert@column \d@llarend \hfill
1530         \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
1531         \or $\vcenter
1532             \@startpbox{\@nextchar}\insert@column \@endpbox $\%
1533         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1534         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1535         \fi
1536     \if@RTL\endR\fi\egroup\egroup
1537     \beginngroup
1538         \CT@setup
1539         \CT@column@color
1540         \CT@row@color
1541         \CT@cell@color
1542         \CT@do@color
1543     \endgroup
1544     \@tempdima\ht\z@
1545     \advance\@tempdima\minrowclearance
1546     \vrule\@height\@tempdima\@width\z@
1547     \unhbox\z@\if@RTL\endL\fi}%
1548     \prepnext@tok}
1549 \let\adl@act@classz\@classz
1550 \let\adl@org@classz\@classz
1551 }

```

## 14 File beamer-xetex-bidi.def

```

1552 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1553 \AtBeginDocument{%
1554     \if@RTLmain
1555         \raggedleft
1556     \else
1557         \raggedright
1558     \fi
1559 }
1560
1561 \renewcommand*{\bidi@beamer@ragged}{%
1562     \if@RTL
1563         \raggedleft
1564     \else
1565         \raggedright
1566     \fi
1567 }
1568
1569

```

## 15 File beamerbaseauxtemplates-xetex-bidi.def

```

1570 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1571 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1572
1573 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1574
1575 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}

```



```

1576
1577 \bidi@csundef{beamer@@tmpop@subsection in toc@subsections numbered}
1578
1579 \bidi@csundef{beamer@@tmpop@subsubsection in toc@subsections numbered}
1580
1581 \defbeamertemplate{subsection in toc}{sections numbered}
1582 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1583
1584 \defbeamertemplate{subsubsection in toc}{sections numbered}
1585 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3.5em\usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
1586
1587 \defbeamertemplate{section in toc}{subsections numbered}
1588 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsection\par}
1589
1590 \defbeamertemplate{subsection in toc}{subsections numbered}
1591 {\leavevmode\bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubsection in toc}\inserttocsubsection in toc}
1592
1593 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1594 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
1595
1596 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1597
1598 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1599
1600 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1601
1602 \defbeamertemplate{section in toc}{circle}
1603 {\leavevmode\bidi@beamer@leftskip=2ex%
1604 \llap{%
1605 \usebeamerfont*{section number projected}%
1606 \usebeamerfont*{section number projected}%
1607 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1608 \color{bg}
1609 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1610 \pgfusepath{fill}
1611 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1612 \end{pgfpicture}\kern1.25ex%
1613 }%
1614 \inserttocsection\par}
1615
1616 \defbeamertemplate{subsection in toc}{circle}
1617 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1618
1619 \defbeamertemplate{subsubsection in toc}{circle}
1620 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
1621
1622 \bidi@csundef{beamer@@tmpop@section in toc@square}
1623
1624 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1625
1626

```



```

1630
1631 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1632
1633 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1634
1635 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1636
1637 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1638
1639 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1640
1641 \defbeamertemplate{section in toc}{square}
1642 {\leavevmode\bidi@beamer@leftskip=3ex%
1643   \llap{{%
1644     \usebeamerfont*{section number projected}%
1645     \usebeamercolor[bg]{section number projected}%
1646     \if@RTL
1647     \else
1648       \vrule width2.25ex height1.85ex depth.4ex%
1649       \hskip-2.25ex%
1650     \fi
1651     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}}%
1652     \if@RTL
1653       \hskip-2.25ex%
1654       \vrule width2.25ex height1.85ex depth.4ex%
1655     \fi
1656   }}\kern1.25ex}%
1657 \inserttocsection\par}
1658
1659 \defbeamertemplate{subsection in toc}{square}
1660 {\leavevmode\bidi@beamer@leftskip=5ex\llap{{%
1661   \usebeamercolor[bg]{subsection number projected}%
1662   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1663
1664 \defbeamertemplate{subsubsection in toc}{square}
1665 {\leavevmode\normalsize\usebeamerfont{subsection in
1666   toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1667   \llap{{%
1668     \usebeamercolor[bg]{subsubsection number projected}%
1669     \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1670
1671 \defbeamertemplate{enumerate item}{square}
1672 {
1673   \hbox{{%
1674     \usebeamerfont*{item projected}%
1675     \usebeamercolor[bg]{item projected}%
1676     \if@RTL
1677     \else
1678       \vrule width2.25ex height1.85ex depth.4ex%
1679       \hskip-2.25ex%
1680     \fi
1681     \hbox to2.25ex{{%
1682       \hfil%
1683       \color{fg}\insertenumlabel%

```



```

1684     \hfil}}%
1685     \if@RTL
1686         \hskip-2.25ex%
1687         \vrule width2.25ex height1.85ex depth.4ex%
1688     \fi
1689 }}%
1690 }
1691 [action]
1692 {\setbeamerfont{item projected}{size=\scriptsize}}
1693
1694 \defbeamertemplate{enumerate subitem}{square}
1695 {
1696     \hbox{%
1697         \usebeamerfont*{subitem projected}%
1698         \usebeamercolor[bg]{subitem projected}%
1699         \if@RTL
1700         \else
1701             \vrule width2.25ex height1.85ex depth.4ex%
1702             \hskip-2.25ex%
1703         \fi
1704         \hbox to2.25ex{%
1705             \hfil%
1706             \color{fg}\insertsubenumlabel%
1707             \hfil}}%
1708         \if@RTL
1709             \hskip-2.25ex%
1710             \vrule width2.25ex height1.85ex depth.4ex%
1711         \fi
1712     }}%
1713 }
1714
1715 \defbeamertemplate{enumerate subsubitem}{square}
1716 {
1717     \hbox{%
1718         \usebeamerfont*{subitem projected}%
1719         \usebeamercolor[bg]{subsubitem projected}%
1720         \if@RTL
1721         \else
1722             \vrule width2.25ex height1.85ex depth.4ex%
1723             \hskip-2.25ex%
1724         \fi
1725         \hbox to2.25ex{%
1726             \hfil%
1727             \color{fg}\insertsubsubenumlabel%
1728             \hfil}}%
1729         \if@RTL
1730             \hskip-2.25ex%
1731             \vrule width2.25ex height1.85ex depth.4ex%
1732         \fi
1733     }}%
1734 }
1735
1736 \defbeamertemplate{enumerate mini template}{square}
1737 {

```



```

1738 \hbox{%
1739   \usebeamerfont*{\beameritemnestingprefix item projected}%
1740   \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1741   \if@RTL
1742   \else
1743     \vrule width2.25ex height1.85ex depth.4ex%
1744     \hskip-2.25ex%
1745   \fi
1746   \hbox to2.25ex{%
1747     \hfil%
1748     \color{fg}\insertenumlabel%
1749     \hfil}%
1750   \if@RTL
1751     \hskip-2.25ex%
1752     \vrule width2.25ex height1.85ex depth.4ex%
1753   \fi
1754 }}%
1755 }
1756
1757 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1758
1759 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1760
1761 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1762
1763 \defbeamertemplate{section in toc}{ball unnumbered}
1764 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1765   \llap{%
1766     \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1767   \inserttocsection\par}
1768
1769 \defbeamertemplate{subsection in toc}{ball unnumbered}
1770 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1771   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1772
1773 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1774 {\leavevmode\normalsize\usebeamerfont{subsection in
1775   toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1776   \llap{%
1777     \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsubsubsection\par}
1778
1779 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1780
1781 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1782
1783 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1784
1785 \defbeamertemplate{section in toc}{ball}
1786 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1787   \llap{%
1788     \normalsize%
1789     \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1790       \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1791       \pgftext{%

```



```

1792         \usebeamerfont*{section number projected}%
1793         \usebeamerfont*{section number projected}%
1794         \color{fg!90!bg}%
1795         \inserttocsectionnumber}
1796     \end{pgfpicture}%
1797     \kern1.25ex}%
1798 \inserttocsection\par
1799 }
1800 [action]
1801 {\setbeamerfont{section number projected}{size=\scriptsize}}
1802
1803 \defbeamertemplate{subsection in toc}{ball}
1804 {\leavevmode\bidibeamer@leftskip=5ex%
1805   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1806   \inserttocsubsection\par%
1807 }
1808
1809 \defbeamertemplate{subsubsection in toc}{ball}
1810 {\leavevmode\normalsize\usebeamerfont{subsection in
1811   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1812   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1813   \inserttocsubsubsection\par%
1814 }
1815
1816 \bidicsundef{beamer@@tmpop@block begin@rounded}
1817
1818 \bidicsundef{beamer@@tmpop@block alerted begin@rounded}
1819
1820 \bidicsundef{beamer@@tmpop@block example begin@rounded}
1821
1822 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1823 {%
1824   \par\vskip\medskipamount%
1825   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1826     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1827     \bidibeamer@ragged%
1828     \usebeamerfont{block body}%
1829   }
1830
1831 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1832 {%
1833   \par\vskip\medskipamount%
1834   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1835     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1836     \bidibeamer@ragged%
1837     \usebeamerfont{block body alerted}%
1838   }%
1839
1840 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1841 {%
1842   \par\vskip\medskipamount%
1843   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1844     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1845     \bidibeamer@ragged%

```





```

1846 \usebeamerfont{block body example}%
1847 }%
1848
1849 \bidi@csundef{beamer@@tmpop@caption@numbered}
1850
1851 \defbeamertemplate{caption}{numbered}
1852 {%
1853 \leavevmode
1854 \bidi@beamer@ragged
1855 {%
1856 \usebeamercolor[fg]{caption name}%
1857 \usebeamerfont*{caption name}%
1858 \insertcaptionname~\insertcaptionnumber
1859 \usebeamertemplate{caption label separator}%
1860 }%
1861 \insertcaption\par
1862 }
1863
1864 \bidi@csundef{beamer@@tmpop@caption@caption name own line}
1865
1866 \defbeamertemplate{caption}{caption name own line}
1867 {%
1868 \begin{minipage}{\textwidth}
1869 \leavevmode
1870 \bidi@beamer@ragged
1871 {%
1872 \usebeamercolor[fg]{caption name}%
1873 \usebeamerfont*{caption name}%
1874 \insertcaptionname%
1875 }\\
1876 \insertcaption
1877 \end{minipage}
1878 }
1879
1880 \ApplyPatchCodeToPackage{caption}{%
1881 \DeclareCaptionFont{beamer@font}{%
1882 \usebeamerfont*{caption}%
1883 % \usebeamercolor[fg]{caption}%
1884 }
1885 \SetCaptionDefault{font}{beamer@font}
1886 \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1887 \SetCaptionDefault{justification}{bidi@beamer@ragged}
1888 }
1889

```

## 16 File beamerbaseboxes-xetex-bidi.def

```

1890 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1891 \renewcommand\beamerboxesrounded[2] []{%
1892 \global\let\beamer@firstlineitemizeunskip=\relax%
1893 \vbox\bgroup%
1894 \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1895 \setkeys{beamerboxes}{#1}%
1896 {%

```



```

1897 \usebeamercolor{\bmb@lower}%
1898 \globalcolorstrue%
1899 \colorlet{lower.bg}{bg}%
1900 }%
1901 {%
1902 \usebeamercolor{\bmb@upper}%
1903 \globalcolorstrue%
1904 \colorlet{upper.bg}{bg}%
1905 }%
1906 %
1907 % Typeset head
1908 %
1909 \vskip4bp
1910 \setbox\bmb@box=\hbox{%
1911 \begin{minipage}[b]{\bmb@width}%
1912 \usebeamercolor{fg}{\bmb@upper}%
1913 #2%
1914 \end{minipage}}%
1915 \ifdim\wd\bmb@box=0pt%
1916 \setbox\bmb@box=\hbox{}%
1917 \ht\bmb@box=1.5pt%
1918 \bmb@prevheight=-4.5pt%
1919 \else%
1920 \wd\bmb@box=\bmb@width%
1921 \bmb@temp=\dp\bmb@box%
1922 \ifdim\bmb@temp<1.5pt%
1923 \bmb@temp=1.5pt%
1924 \fi%
1925 \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1926 \dp\bmb@box=0pt%
1927 \bmb@prevheight=\ht\bmb@box%
1928 \fi%
1929 \bmb@temp=\bmb@width%
1930 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1931 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1932 \hbox{%
1933 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1934 \ifdim\wd\bmb@box=0pt%
1935 \color{lower.bg}%
1936 \else%
1937 \color{upper.bg}%
1938 \fi%
1939 \pgfpathmoveto{-4bp}{-1bp}
1940 \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1941 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1942 \pgfpathcurveto%
1943 {\pgfpoint{\bmb@dima}{3bp}}%
1944 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1945 {\pgfpoint{\bmb@dimb}{-1bp}}%
1946 \bmb@dima=-\ht\bmb@box%
1947 \advance\bmb@dima by-2pt%
1948 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1949 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1950 \pgfusepath{fill}

```



```

1951 \end{pgfpicture}%
1952 \copy\bmb@box%
1953 }%
1954 \nointerlineskip%
1955 \vskip-1pt%
1956 \ifdim\wd\bmb@box=0pt%
1957 \else%
1958 \hbox{%
1959 \begin{pgfpicture}{Opt}{Opt}{\bmb@width}{6pt}
1960 \bmb@dima=\bmb@width%
1961 \advance\bmb@dima by8bp%
1962 \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1963 \pgfusepath{clip}
1964 {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1965 \end{pgfpicture}%
1966 }%
1967 \nointerlineskip%
1968 \vskip-0.5pt%
1969 \fi%
1970 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1971 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1972 \vskip2pt%
1973 \usebeamercolor{fg}{\bmb@lower}%
1974 \colorlet{beamerstructure}{upper.bg}%
1975 \colorlet{structure}{upper.bg}%
1976 %\color{.}%
1977 \@bidi@list@minipage@parboxfalse
1978 }
1979
1980 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1981 \begingroup
1982 \@RTLfalse
1983 }{}{}
1984
1985

```

## 17 File beamerbasecolor-xetex-bidi.def

```

1986 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1987 \renewenvironment{beamercolorbox}[2][{}]{%
1988 \def\beamer@vmode{\leavevmode}%
1989 \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1990 leftskip=0pt,rightskip=0pt plus1fil,%
1991 sep=0pt,colsep=0pt,colsep*=0pt,%
1992 shadow=false,rounded=false,ignorebg=false}%
1993 \if@RTL
1994 \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1995 \else
1996 \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1997 \fi
1998 \setkeys{beamercolbox}{#1}%
1999 \ifbeamercoloreempty{bg}{#2}{\@tempwafalse}{\@tempwattrue}%
2000 \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
2001 \def\beamer@colbox@color{#2}%

```



```

2002 \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
2003 \ifbeamer@colbox@ignorebg%
2004 \colorlet{beamer@temp@color}{bg}%
2005 \usebeamercolor[fg]{#2}%
2006 \colorlet{bg}{beamer@temp@color}%
2007 \else%
2008 \usebeamercolor[fg]{#2}%
2009 \fi%
2010 \beginL
2011 \vbox\bgroup%
2012 \hsize=\beamer@colbox@wd%
2013 \@arrayparboxrestore%
2014 \leftskip=\beamer@colbox@ls%
2015 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2016 \rightskip=\beamer@colbox@rs%
2017 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2018 \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2019 \advance\leftskip by\beamer@colbox@colsep%
2020 \advance\rightskip by\beamer@colbox@colsep%
2021 \vskip\beamer@colbox@colsep%
2022 \fi%
2023 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2024 \fi%
2025 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2026 \beamer@vmode\ignorespaces}{%
2027 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2028 \if@tempswa
2029 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2030 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2031 \fi%
2032 \egroup\endL\color@endgroup\egroup%
2033 \wd\beamer@tempbox=\beamer@colbox@wd%
2034 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2035 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2036 \ifbeamer@colbox@rounded%
2037 \if@tempswa%
2038 \begin{beamerboxesrounded}[%
2039 shadow=\beamer@colbox@shadow,%
2040 lower=\beamer@colbox@color,%
2041 upper=normal text,%
2042 width=\beamer@colbox@wd]{}%
2043 \box\beamer@tempbox%
2044 \end{beamerboxesrounded}%
2045 \else%
2046 \ifdim\wd\beamer@tempbox>\textwidth%
2047 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2048 \fi%
2049 \box\beamer@tempbox%
2050 \fi%
2051 \else%
2052 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2053 \usebeamercolor{\beamer@colbox@color}%
2054 \hskip-\beamer@colbox@colseps%
2055 \fboxsep=\z@\colorbox{bg}{%

```



```

2056         \hskip\beamer@colbox@colseps%
2057         \box\beamer@tempbox%
2058         \hskip\beamer@colbox@colseps%
2059     }%
2060     \hskip-\beamer@colbox@colseps%
2061     }\fi%
2062     \ifdim\wd\beamer@tempbox>\textwidth%
2063         \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box%
2064     \fi%
2065     \box\beamer@tempbox%
2066     \fi%
2067 }
2068
2069

```

## 18 File beamerbasecompatibility-xetex-bidi.def

```

2070 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2071 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2072
2073

```

## 19 File beamerbaseframecomponents-xetex-bidi.def

```

2074 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2025/09/30 v0.8 bidi adaptations for
2075 \renewcommand{\setbeamersize}[1]{%
2076     \beamer@dogeometryfalse%
2077     \setkeys{beamer@margin}{#1}%
2078     \ifbeamer@dogeometry%
2079         % Reset left margin now
2080         \beamer@tempdim=\beamer@leftmargin%
2081         \advance\beamer@tempdim by\beamer@leftsidebar%
2082         \if@RTLmain
2083             \geometry{right=\the\beamer@tempdim}%
2084         \else
2085             \geometry{left=\the\beamer@tempdim}%
2086         \fi
2087         % Reset right margin now
2088         \beamer@tempdim=\beamer@rightmargin%
2089         \advance\beamer@tempdim by\beamer@rightsidebar%
2090         \if@RTLmain
2091             \geometry{left=\the\beamer@tempdim}%
2092         \else
2093             \geometry{right=\the\beamer@tempdim}%
2094         \fi
2095     \fi%
2096 }
2097
2098 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2099     \if@RTLmain
2100         \Gm@rmargin
2101     \else
2102         \Gm@lmargin
2103     \fi

```



```

2104 }
2105
2106 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2107   \if@RTLmain
2108     \Gm@lmargin
2109   \else
2110     \Gm@rmargin
2111   \fi
2112 }
2113
2114 \def\ps@navigation{
2115   \def\@oddhead{%
2116     \begingroup%
2117     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2118     \beamer@tempdim=\ht\beamer@tempbox%
2119     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2120     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2121     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2122     \beamer@tempdim=\ht\@tempboxa%
2123     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2124     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2125     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2126     \hbox{%
2127       {%
2128         \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2129         \if@RTLmain
2130           {%
2131             \vbox to \sidebarheight{%
2132               \usebeamertemplate***{sidebar left}}%
2133             \vfil%
2134           }}%
2135           \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2136             \hskip-\textwidth
2137           }%
2138         \fi
2139         {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2140           \usebeamercolor*{sidebar left}}%
2141           \usebeamertemplate{sidebar canvas left}}%
2142           \vss%
2143         }}%
2144         \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2145         \box\beamer@tempbox}%
2146         \if@RTLmain
2147         \else
2148         {%
2149           \vbox to \sidebarheight{%
2150             \usebeamertemplate***{sidebar left}}%
2151           \vfil%
2152         }}\fi}%
2153         \beamer@tempdim=\ht\beamer@tempbox%
2154         \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2155         \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2156         \box\beamer@tempbox%
2157       }%

```



```

2158      {% print right sidebar first, since it should be overwritten by headline
2159      \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2160      \if@RTLmain
2161          {%
2162              \vbox to \sidebarheight{%
2163                  \usebeamertemplate***{sidebar right}%
2164                  \vfil%
2165              }}%
2166      \hskip-\textwidth
2167      \fi
2168      {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2169          \usebeamercolor*{sidebar right}%
2170          \usebeamertemplate{sidebar canvas right}%
2171          \vss%
2172          }}%
2173      \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2174      \box\beamer@tempbox}%
2175      \if@RTLmain
2176      \else
2177      {%
2178          \vbox to \sidebarheight{%
2179              \usebeamertemplate***{sidebar right}%
2180              \vfil%
2181          }}\fi}%
2182      \beamer@tempdim=\ht\beamer@tempbox%
2183      \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2184      \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2185      \box\beamer@tempbox%
2186      }%
2187      \beamer@typesetheadorfoot{headline}%
2188      }%
2189      \hfil}%
2190      \endgroup}
2191      \def\@oddfoot{%
2192          \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2193          \hfil}\hbox{}}\hfil
2194      }%
2195      \let\@evenhead\@oddhead
2196      \let\@evenfoot\@oddfoot}
2197
2198      \AtBeginDocument{%
2199          \pagestyle{navigation}%
2200      }
2201
2202      \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2203      {\parskip0pt\offinterlineskip%
2204          \hbox{%
2205              \hskip-\bidi@beamer@Gm@lmargin%
2206              \hbox{%
2207                  \vbox{%
2208                      \@tempdima=\textwidth%
2209                      \textwidth=\paperwidth%
2210                      \hsize=\textwidth%
2211                      \def\{,\}%

```



```

2212         \usebeamertemplate***{#1}%
2213     }}%
2214     \hskip-\bidi@beamer@Gm@rmargin%
2215 } }\hfil%
2216 }
2217
2218 \def\ps@empty{%
2219 \let\@mkboth\@gobbletwo%
2220 \def\@oddhead{\begin{group}%
2221 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition%
2222 \beamer@tempdim=\ht\beamer@tempbox%
2223 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2224 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2225 \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2226 \beamer@tempdim=\ht\@tempboxa%
2227 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2228 \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2229 \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\@tempboxa}%
2230 \end{group}%
2231 }
2232 \def\@oddfoot{\normalcolor\hfil%
2233 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beamer@Gm@rmargin%
2234 \ht\beamer@tempbox=0pt%
2235 \dp\beamer@tempbox=0pt%
2236 \box\beamer@tempbox}}
2237 \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2238
2239 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2240 \beamer@colclose\def\beamer@colclose{}%
2241 \begin{actionenv}#3%
2242 \setkeys{beamer@col}{#1}%
2243 \begin{minipage}[\beamer@colalign]{#2}%
2244 \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2245 {\end{minipage}\hfill\end{actionenv}\@ignoretrue}
2246 \let\endcolumn\endbeamer@columnenv
2247
2248 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2249 \beamer@colclose%
2250 \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2251 \begin{actionenv}#3%
2252 \setkeys{beamer@col}{#1}%
2253 \begin{minipage}[\beamer@colalign]{#2}%
2254 \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2255
2256 \renewenvironment<>{columns}[1][{}]{%
2257 \begin{actionenv}#2%
2258 \ifbeamer@onlytextwidth
2259 \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2260 \def\beamer@colexitcode{\unskip\egroup}
2261 \else%
2262 \def\beamer@colentrycode{%
2263 \hbox to\textwidth\bgroup%
2264 \leavevmode%
2265 \hskip-\beamer@leftmargin%

```





```

2266 \nobreak%
2267 \beamer@tempdim=\textwidth%
2268 \advance\beamer@tempdim by\beamer@leftmargin%
2269 \advance\beamer@tempdim by\beamer@rightmargin%
2270 \hbox to\beamer@tempdim\bgroup%
2271 \hbox{}\hfill\ignorespaces}%
2272 \def\beamer@colexitcode{\egroup%
2273 \nobreak%
2274 \hskip-\beamer@rightmargin\egroup}%
2275 \fi%
2276 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2277 \setkeys{beamer@col}{#1}%
2278 \par%
2279 \leavevmode
2280 \beamer@colentrycode%
2281 \def\beamer@colclose{}\ignorespaces}%
2282 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2283
2284
2285 \def\@makeRTLfntext#1{%
2286 \def\insertfootnotetext{#1}%
2287 \def\insertfootnotemark{\@makefnmark}%
2288 \usebeamertemplate***{RTLfootnote}}
2289
2290 \def\@makeLTRfntext#1{%
2291 \def\insertfootnotetext{#1}%
2292 \def\insertfootnotemark{\@makefnmark}%
2293 \usebeamertemplate***{LTRfootnote}}
2294
2295 \renewcommand<>\beamer@framefootnotetext[1]{%
2296 \global\setbox\beamer@footins\vbox{%
2297 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2298 \hsize\framewidth
2299 \textwidth\hsize
2300 \columnwidth\hsize
2301 \unvbox\beamer@footins
2302 \reset@font
2303 \bidi@@footnotetext@font
2304 \@parboxrestore
2305 \protected@edef\@currentlabel
2306 {\csname p@footnote\endcsname\@thefnmark}%
2307 \color@begingroup
2308 \uncover#2{\@makefntext{%
2309 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2310 \color@endgroup}}
2311
2312 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2313 \global\setbox\beamer@footins\vbox{%
2314 \@RTLtrue
2315 \hsize\framewidth
2316 \textwidth\hsize
2317 \columnwidth\hsize
2318 \unvbox\beamer@footins
2319 \reset@font

```



```

2320 \bidi@RTLfootnotetext@font
2321 \@parboxrestore
2322 \protected@edef\@currentlabel
2323     {\csname p@footnote\endcsname\@thefnmark}%
2324 \color@begingroup
2325     \uncover#2{\@makeRTLfntext{%
2326         \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2327     \color@endgroup}}
2328
2329 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2330     \global\setbox\beamer@footins\vbox{%
2331         \RTLfalse
2332         \hsize\framewidth
2333         \textwidth\hsize
2334         \columnwidth\hsize
2335         \unvbox\beamer@footins
2336         \reset@font
2337         \bidi@LTRfootnotetext@font
2338         \@parboxrestore
2339         \protected@edef\@currentlabel
2340             {\csname p@footnote\endcsname\@thefnmark}%
2341         \color@begingroup
2342             \uncover#2{\@makeLTRfntext{%
2343                 \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2344             \color@endgroup}}
2345
2346 \renewcommand<>\@mpfootnotetext[1]{%
2347     \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnoterule
2348     \global\setbox\@mpfootins\vbox{%
2349         \unvbox\@mpfootins
2350         \ifRTL@footnote\RTLtrue\else\RTLfalse\fi
2351         \reset@font
2352         \bidi@footnotetext@font
2353         \hsize\columnwidth
2354         \@parboxrestore
2355         \protected@edef\@currentlabel
2356             {\csname p@mpfootnote\endcsname\@thefnmark}%
2357         \color@begingroup
2358             \uncover#2{\@makefntext{%
2359                 \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2360             \color@endgroup}}
2361
2362 \renewcommand<>\@mpRTLfootnotetext[1]{%
2363     \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
2364     \global\setbox\@mpfootins\vbox{%
2365         \unvbox\@mpfootins
2366         \RTLtrue
2367         \reset@font
2368         \bidi@RTLfootnotetext@font
2369         \hsize\columnwidth
2370         \@parboxrestore
2371         \protected@edef\@currentlabel
2372             {\csname p@mpfootnote\endcsname\@thefnmark}%
2373         \color@begingroup

```



```

2374     \uncover#2{\@makeRTLfntext{%
2375         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2376     \color@endgroup}}
2377
2378 \renewcommand<>\@mpLTRfootnotetext[1]{%
2379 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
2380 \global\setbox\@mpfootins\vbox{%
2381 \unvbox\@mpfootins
2382 \@RTLfalse
2383 \reset@font
2384 \bidi@@LTRfootnotetext@font
2385 \hsize\columnwidth
2386 \@parboxrestore
2387 \protected@edef\@currentlabel
2388     {\csname p@mpfootnote\endcsname\@thefnmark}%
2389 \color@begingroup
2390     \uncover#2{\@makeLTRfntext{%
2391         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2392     \color@endgroup}}
2393
2394 \let\@footnotetext=\beamer@framefootnotetext
2395 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2396 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2397
2398 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2399 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2400 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2401
2402 \renewcommand<>{\footnote}[1][ ]{%
2403 \let\beamer@footnotetext=\@footnotetext%
2404 \let\beamer@mpfn=\@mpfn%
2405 \let\beamer@thempfn=\thempfn%
2406 \let\beamer@kvorig=\KV@errx%
2407 \let\beamer@xkvorig=\XKV@err
2408 \def\beamer@footarg{}%
2409 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2410 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2411 \setkeys{beamerfootnote}{#1}%
2412 \let\KV@errx=\beamer@kvorig%
2413 \let\XKV@errx=\beamer@xkvorig%
2414 \ifx\beamer@footarg\@empty%
2415     \def\beamer@next{\stepcounter\beamer@mpfn
2416         \protected@xdef\@thefnmark{\beamer@thempfn}%
2417         \@footnotemark\beamer@footnotetext#2}%
2418 \else%
2419     \def\beamer@next{%
2420         \begingroup
2421             \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2422             \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2423         \endgroup
2424         \@footnotemark\beamer@footnotetext#2}%
2425 \fi%
2426 \beamer@next}
2427

```



```

2428 \renewcommand<>{\RTLfootnote}[1] [] {%
2429   \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2430   \let\beamer@mpfn=\@mpfn%
2431   \let\beamer@thempfn=\thempfn%
2432   \let\beamer@kvorig=\KV@errx%
2433   \let\beamer@xkvorig=\XKV@err
2434   \def\beamer@footarg{%
2435     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2436     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2437     \setkeys{beamerfootnote}{#1}%
2438     \let\KV@errx=\beamer@kvorig%
2439     \let\XKV@errx=\beamer@xkvorig
2440     \ifx\beamer@footarg\@empty%
2441       \def\beamer@next{\stepcounter\beamer@mpfn
2442         \protected@xdef\@thefnmark{\beamer@thempfn}%
2443         \@footnotemark\beamer@RTLfootnotetext#2}%
2444     \else%
2445       \def\beamer@next{%
2446         \begingroup
2447           \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2448           \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2449         \endgroup
2450         \@footnotemark\beamer@RTLfootnotetext#2}%
2451     \fi%
2452   \beamer@next}
2453
2454 \renewcommand<>{\LTRfootnote}[1] [] {%
2455   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2456   \let\beamer@mpfn=\@mpfn%
2457   \let\beamer@thempfn=\thempfn%
2458   \let\beamer@kvorig=\KV@errx%
2459   \let\beamer@xkvorig=\XKV@err
2460   \def\beamer@footarg{%
2461     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2462     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2463     \setkeys{beamerfootnote}{#1}%
2464     \let\KV@errx=\beamer@kvorig%
2465     \let\XKV@errx=\beamer@xkvorig
2466     \ifx\beamer@footarg\@empty%
2467       \def\beamer@next{\stepcounter\beamer@mpfn
2468         \protected@xdef\@thefnmark{\beamer@thempfn}%
2469         \@footnotemark\beamer@LTRfootnotetext#2}%
2470     \else%
2471       \def\beamer@next{%
2472         \begingroup
2473           \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2474           \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2475         \endgroup
2476         \@footnotemark\beamer@LTRfootnotetext#2}%
2477     \fi%
2478   \beamer@next}
2479
2480

```



## 20 File beamerbaseframesize-xetex-bidi.def

```

2481 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2482 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2483   \par\nointerlineskip%
2484   \global\beamer@slidehaszoomtrue%
2485   \advance\beamer@zoomcount by1\relax%
2486   \def\beamer@zoomborderwidth{0}%
2487   \edef\beamer@labelzoomed{\beamer@labelzoomed@the\beamer@zoomframecount @the\beamer@zoomcount}%
2488   \setkeys{beamerzoom}{#3}%
2489   \only<#1>{%
2490     {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2491     \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2492       \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2493         \vbox to #7{%
2494           \hbox to#6{\hfil}%
2495           \vfil%
2496         }%
2497       \else%
2498         \begingroup%
2499         \normalsize%
2500         \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2501           \pgfsetfillopacity{0}
2502           \pgftext[x=0cm,y=3pt]{.}
2503           \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2504         \end{pgfpicture}%
2505         \endgroup%
2506       \fi%
2507     }%
2508     \ht\@tempboxa=0pt%
2509     \wd\@tempboxa=0pt%
2510     \dp\@tempboxa=0pt%
2511     \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}}}%
2512     \ht\@tempboxa=0pt%
2513     \wd\@tempboxa=0pt%
2514     \dp\@tempboxa=0pt%
2515     \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2516   }%
2517   \only<#2>{%
2518     \ifundefined{\beamer@labelzoomed}%
2519     {%
2520       \hypertarget{\beamer@labelzoomed}{}%
2521       \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2522     }%
2523     \gdef\beamer@zoomer{%
2524       % compute zoom factor
2525       \@tempdima=\beamer@frametextheight%
2526       \@tempdimb=#7\relax%
2527       \@tempcnta=\@tempdimb%
2528       \divide\@tempcnta by4096\relax%
2529       \multiply\@tempdima by16\relax%
2530       \divide\@tempdima by\@tempcnta%
2531       \@tempdimb=\paperwidth%
2532       \ifbeamer@plainframe%

```



```

2533 \else%
2534 \advance\@tempdimb by-\beamer@leftsidebar%
2535 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2536 \fi%
2537 \@tempdimc=#6\relax%
2538 \@tempcntb=\@tempdimc%
2539 \divide\@tempcntb by4096\relax%
2540 \multiply\@tempdimb by16\relax%
2541 \divide\@tempdimb by\@tempcntb%
2542 \ifdim\@tempdimb<\@tempdima%
2543 \@tempdima=\@tempdimb%
2544 \fi%
2545 \edef\beamer@temp{\strip@pt\@tempdima}%
2546 \@tempdimc=\beamer@frametextheight%
2547 \advance\@tempdimc by4pt%
2548 \@tempdimb=\paperwidth%
2549 \ifbeamer@plainframe%
2550 \else%
2551 \advance\@tempdimb by-\beamer@leftsidebar%
2552 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2553 \fi%
2554 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2555 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2556 \ht\@tempboxa=0pt%
2557 \wd\@tempboxa=0pt%
2558 \dp\@tempboxa=0pt%
2559 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2560 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2561 \ifRTL
2562 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pape
2563 \pgftext[right,top]{\box\@tempboxa}
2564 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2565 \pgfusepath{clip}
2566 \begingroup
2567 \pgftransformscale{\beamer@temp}
2568 \@tempdima=#4\relax%
2569 \@tempdimb=#5\relax%
2570 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2571 \pgftext[right,top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2572 \endgroup
2573 \end{pgfpicture}}%
2574 \else
2575 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargi
2576 \pgftext[left,top]{\box\@tempboxa}
2577 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2578 \pgfusepath{clip}
2579 \begingroup
2580 \pgftransformscale{\beamer@temp}
2581 \@tempdima=#4\relax%
2582 \@tempdimb=#5\relax%
2583 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2584 \pgftext[left,top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2585 \endgroup
2586 \end{pgfpicture}}%

```



```

2587         \fi
2588     } }%
2589     \setbox\beamer@framebox=\vbox{%
2590         \nobreak\vbox{}\nobreak\par\nobreak\beamer@entrycode\nobreak%
2591         \nointerlineskip\unvbox\beamer@frametitlebox%
2592         \nobreak%
2593         \box\beamer@framebox%
2594         \nobreak%
2595         \vss%
2596         \beamer@exitcode%
2597     }%
2598     \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2599 }%
2600 }%
2601 }
2602
2603

```

## 21 File beamerbaselocalstructure-xetex-bidi.def

```

2604 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2605 \def\beamer@enum@{%
2606     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2607     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2608     \bgroup
2609     \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2610     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2611     \egroup
2612     \expandafter
2613     \list
2614         {\usebeamertemplate{\beamer@enumtempl}}
2615         {\usecounter\@enumctr%
2616             \def\makelabel##1{\hss\llap{%
2617                 \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2618                 \usebeamerfont{fg}{enumerate \beameritemnestingprefix item}##1}}}%
2619     \beamer@cramped%
2620     \bidi@beamer@ragged%
2621     \beamer@firstlineitemizeunskip%
2622 }
2623
2624 \renewcommand{\itemize}[1][ ]{%
2625     \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2626     \ifnum \@itemdepth >2\relax\@toodeep\else
2627         \advance\@itemdepth\@ne
2628         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2629         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2630         \bgroup
2631         \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2632         \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2633         \egroup
2634         \list
2635             {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2636             {\def\makelabel##1{%
2637                 {%

```



```

2638         \hss\llap{%
2639             \usebeamerfont*{itemize \beameritemnestingprefix item}%
2640             \usebeamerfont{description body}%
2641             \usebeamerfont{description body}%
2642         }%
2643     }
2644     \fi%
2645     \beamer@cramped%
2646     \bidi@beamer@ragged%
2647     \beamer@firstlineitemizeunskip%
2648 }
2649
2650 \def\@@description{%
2651     \advance\beamer@descdefault by \labelsep%
2652     \usebeamerfont{description body}%
2653     \bgroup
2654     \usebeamerfont{description body}%
2655     \usebeamertemplate{description body begin}%
2656     \egroup
2657     \list
2658     {}
2659     {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2660     \beamer@cramped%
2661     \bidi@beamer@ragged
2662     \beamer@firstlineitemizeunskip%
2663 }
2664
2665 \renewenvironment{thebibliography}[1]
2666 {%\leavevmode\unskip%
2667 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2668 \bidi@thebibliography@font@hook%
2669 \list{\@biblabel{\@arabic\c@enumiv}}%
2670     {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2671     \leftmargin\labelwidth
2672     \advance\leftmargin\labelsep
2673     \itemsep=0pt%
2674     \partopsep=0pt%
2675     \topsep=0pt%
2676     \usecounter{enumiv}%
2677     \let\p@enumiv\@empty
2678     \renewcommand\theenumiv{\@arabic\c@enumiv}
2679     \let\makelabel\beamer@biblabeltemplate}%
2680     \sloppy\bidi@beamer@ragged
2681     \clubpenalty10000
2682     \@clubpenalty \clubpenalty
2683     \widowpenalty10000%
2684     \sfcode`\.\@m}
2685 {\def\@noitemerr
2686     {\@latex@warning{Empty `thebibliography' environment}}%
2687     \ifhmode\unskip\fi\endlist}
2688
2689

```





## 22 File beamerbasemisc-xetex-bidi.def

```
2690 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2691 \define@key{beamerst}{width}{%
2692   \def\beamer@ststart{%
2693     \begin{minipage}[t]{#1}%
2694       \bidi@beamer@ragged
2695       \beamer@stalign
2696       \beamer@stlinebreakrule
2697     }%
2698   \def\beamer@stend{\end{minipage}}
2699
2700
```

## 23 File beamerbasenavigation-xetex-bidi.def

```
2701 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2702 \def\slideentry#1#2#3#4#5#6{%
2703   %section number, subsection number, slide number, first/last frame, page number, part numb
2704   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2705     \ifbeamer@compress%
2706       \advance\beamer@xpos by1\relax%
2707     \else%
2708       \ifnum#2=0%
2709         \beamer@ypos@offset=1\relax%
2710       \fi
2711       \beamer@xpos=#3\relax%
2712       \beamer@ypos=#2\relax%
2713       \advance\beamer@ypos by \beamer@ypos@offset\relax
2714     \fi%
2715   \hbox to 0pt{%
2716     \beamer@tempdim=-\beamer@vboxoffset%
2717     \advance\beamer@tempdim by-\beamer@boxsize%
2718     \multiply\beamer@tempdim by\beamer@ypos%
2719     \advance\beamer@tempdim by -.05cm%
2720     \raise\beamer@tempdim\hbox{%
2721       \beamer@tempdim=\beamer@boxsize%
2722       \multiply\beamer@tempdim by\beamer@xpos%
2723       \advance\beamer@tempdim by -\beamer@boxsize%
2724       \advance\beamer@tempdim by 1pt%
2725       \kern\beamer@tempdim
2726       \global\beamer@section@min@dim\beamer@tempdim
2727       \hbox{\beamer@link(#4){%
2728         \usebeamerfont{mini frame}%
2729         \ifnum\c@section=#1%
2730           \ifnum\c@subsection=#2%
2731             \usebeamercolor[fg]{mini frame}%
2732             \ifnum\c@subsectionslide=#3%
2733               \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2734             \else%
2735               \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhil
2736             \fi%
2737           \else%
2738             \usebeamercolor{mini frame}%

```



```

2739         %\color{fg!50!bg}%
2740         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2741         \fi%
2742     \else%
2743         \usebeamercolor{mini frame}%
2744         %\color{fg!50!bg}%
2745         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2746         \fi%
2747     }}}} \hskip-10cm plus 1fil%
2748 } \fi \fi%
2749 \else%
2750 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2751 \fi \ignorespaces
2752 }
2753
2754 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2755 {
2756     \pgfpathmoveto{3.5bp}{0.5bp}
2757     \pgfpathqlineto{1.5bp}{2bp}
2758     \pgfpathqlineto{3.5bp}{3.5bp}
2759     \pgfusepathqfill
2760 }
2761
2762 \def\insertgotosymbol{%
2763 \if@RTL
2764     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2765         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2766     \end{pgfpicture}%
2767 \else
2768     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2769         \pgfuseobject{beamer@gotosymbol}%
2770     \end{pgfpicture}%
2771 \fi
2772 }
2773
2774 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2775 {
2776     \pgfpathmoveto{5.5bp}{0.5bp}
2777     \pgfpathqlineto{3.5bp}{2bp}
2778     \pgfpathqlineto{5.5bp}{3.5bp}
2779     \pgfpathmoveto{3.5bp}{0.5bp}
2780     \pgfpathqlineto{1.5bp}{2bp}
2781     \pgfpathqlineto{3.5bp}{3.5bp}
2782     \pgfusepathqfill
2783 }
2784
2785 \def\insertskipsymbol{%
2786 \if@RTL
2787     \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2788         \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2789     \end{pgfpicture}%
2790 \else
2791     \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2792         \pgfuseobject{beamer@skipsymbol}%

```



```

2793 \end{pgfpicture}%
2794 \fi
2795 }
2796
2797 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2798 {
2799 \pgfpathmoveto{1.5bp}{0.5bp}
2800 \pgfpathqlineto{3.5bp}{2bp}
2801 \pgfpathqlineto{1.5bp}{3.5bp}
2802 \pgfusepathqfill
2803 }
2804
2805 \def\insertreturnsymbol{%
2806 \if@RTL
2807 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2808 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2809 \end{pgfpicture}%
2810 \else
2811 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2812 \pgfuseobject{beamerreturnsymbol}%
2813 \end{pgfpicture}%
2814 \fi
2815 }
2816
2817

```

## 24 File beamerbaseoverlay-xetex-bidi.def

```

2818 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2819 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2820
2821

```

## 25 File beamerinnerthemedefault-xetex-bidi.def

```

2822 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2823 \newcommand*{\bidi@beamer@leftskip}{%
2824 \if@RTL
2825 \rightskip
2826 \else
2827 \leftskip
2828 \fi
2829 }
2830
2831 \newcommand*{\bidi@beamer@rightskip}{%
2832 \if@RTL
2833 \leftskip
2834 \else
2835 \rightskip
2836 \fi
2837 }
2838
2839 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2840

```



```

2841 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2842
2843 \defbeamertemplate*{subsection in toc}{default}
2844 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2845
2846 \defbeamertemplate*{subsubsection in toc}{default}
2847 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2848 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2849
2850 \newcommand*{\bidi@beamer@blacktriangle}{%
2851 \if@RTL
2852   $\blacktriangleleft$%
2853 \else
2854   $\blacktriangleright$%
2855 \fi
2856 }
2857
2858 \bidi@csundef{beamer@@tmpop@itemize item@default}
2859
2860 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2861
2862 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2863
2864 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2865 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2866 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2867
2868 \bidi@undef\beamer@@tmpop@footnote@default
2869
2870 \defbeamertemplate*{footnote}{default}
2871 {
2872 \parindent 1em\noindent%
2873 \bidi@beamer@ragged
2874 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2875 }
2876
2877 \defbeamertemplate*{RTLfootnote}{default}
2878 {
2879 \parindent 1em\noindent%
2880 \raggedleft
2881 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2882 }
2883
2884 \defbeamertemplate*{LTRfootnote}{default}
2885 {
2886 \parindent 1em\noindent%
2887 \raggedright
2888 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2889 }
2890
2891 \bidi@undef\beamer@@tmpop@caption@default
2892
2893 \defbeamertemplate*{caption}{default}
2894 {%

```



```

2895 \bidi@beamer@ragged
2896 {%
2897   \leavevmode
2898   \usebeamercolor[fg]{caption name}%
2899   \usebeamerfont*{caption name}%
2900   \insertcaptionname
2901   \usebeamertemplate{caption label separator}%
2902 }%
2903 \insertcaption\par
2904 }
2905
2906 \bidi@csundef{beamer@@tmpop@block begin@default}
2907
2908 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2909
2910 \bidi@csundef{beamer@@tmpop@block example begin@default}
2911
2912 \defbeamertemplate*{block begin}{default}
2913 {
2914   \par\vskip\medskipamount%
2915   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2916     \usebeamerfont*{block title}\insertblocktitle%
2917   \end{beamercolorbox}%
2918   {\parskip0pt\par}%
2919   \ifbeamercolorempy[bg]{block title}
2920   {}
2921   {\ifbeamercolorempy[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2922   \usebeamerfont{block body}%
2923   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2924     \ifbeamercolorempy[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\basel
2925   }
2926
2927 \defbeamertemplate*{block alerted begin}{default}
2928 {
2929   \par\vskip\medskipamount%
2930   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2931     \usebeamerfont*{block title alerted}\insertblocktitle%
2932   \end{beamercolorbox}%
2933   {\parskip0pt\par}%
2934   \ifbeamercolorempy[bg]{block title alerted}
2935   {}
2936   {\ifbeamercolorempy[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2937   \usebeamerfont{block body alerted}%
2938   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2939     \ifbeamercolorempy[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e
2940   }
2941
2942 \defbeamertemplate*{block example begin}{default}
2943 {
2944   \par\vskip\medskipamount%
2945   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2946     \usebeamerfont*{block title example}\insertblocktitle%
2947   \end{beamercolorbox}%
2948   {\parskip0pt\par}%

```



```

2949 \ifbeamercolorempy[bg]{block title example}
2950 {}
2951 {\ifbeamercolorempy[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2952 \usebeamerfont{block body example}%
2953 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2954 \ifbeamercolorempy[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex}
2955 }
2956
2957 \bidi@csundef{beamer@@tmpop@abstract begin@default}
2958
2959 \defbeamerteremplate*{abstract begin}{default}
2960 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil}
2961
2962 \bidi@undef\beamer@@tmpop@button@default
2963
2964 \defbeamerteremplate*{button}{default}
2965 {%
2966 \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2967 \ht\beamer@tempbox=6pt%
2968 \dp\beamer@tempbox=0pt%
2969 \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2970 \beamer@tempdim=\wd\beamer@tempbox%
2971 \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2972 \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2973 \if@RTL
2974 \kern4pt%
2975 \box\beamer@tempbox%
2976 \hskip-\beamer@tempdim%
2977 \fi
2978 \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2979 \color{bg}
2980 \pgfsetlinewidth{0.8pt}
2981 \pgfpathmoveto{0pt}{0pt}
2982 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2983 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2984 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2985 \pgfpathcurveto%
2986 {\pgfpoint{\the\beamer@dima}{8pt}}%
2987 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2988 {\pgfpoint{\the\beamer@dimb}{4pt}}
2989 \pgfpathcurveto%
2990 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2991 {\pgfpoint{\the\beamer@dima}{0pt}}%
2992 {\pgfpoint{\the\beamer@tempdim}{0pt}}
2993 \pgfpathclose
2994 \pgfusepathqfill
2995 \colorlet{bg}{parent.bg}
2996 \usebeamercolor[fg]{button border}
2997 \pgfpathmoveto{0pt}{0pt}
2998 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2999 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
3000 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
3001 \pgfpathcurveto%
3002 {\pgfpoint{\the\beamer@dima}{8pt}}%

```



```

3003     {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
3004     {\pgfpoint{\the\beamer@dimb}{4pt}}
3005     \pgfpathcurveto%
3006     {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3007     {\pgfpoint{\the\beamer@dimb}{0pt}}%
3008     {\pgfpoint{\the\beamer@tempdim}{0pt}}
3009     \pgfpathclose
3010     \pgfusepathqstroke
3011 \end{pgfpicture}%
3012 \if@RTL
3013 \else
3014     \hskip-\beamer@tempdim%
3015     \box\beamer@tempbox%
3016     \kern4pt%
3017 \fi
3018 }
3019
3020

```

## 26 File beamerinnerthemecircles-xetex-bidi.def

```

3021 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for bea
3022 \setbeamertemplate{sections/subsections in toc}[circle]
3023

```

## 27 File beamerinnerthemefocus-xetex-bidi.def

```

3024 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3025 \setbeamertemplate{section in toc}[square]
3026 \setbeamertemplate{subsection in toc}[square]
3027
3028 \setbeamertemplate{itemize items}[square]
3029 \setbeamertemplate{itemize subitem}[triangle]
3030
3031 \bidi@csundef{beamer@@tmpop@title page@focus}
3032
3033 \defbeamertemplate*{title page}{focus}{%
3034     {%
3035         \usebeamercolor{frametitle}\colorlet{focus@temp}{bg}%
3036         \begin{tikzpicture}[overlay, remember picture]
3037             \fill[color=focus@temp] (current page.north west) rectangle ([shift = {(0, -0.4
3038         \end{tikzpicture}
3039     }
3040
3041     \vspace{-1.65\baselineskip}
3042     \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3043         \vspace{\baselineskip}
3044         \usebeamerfont{title}
3045         \usebeamercolor[fg]{frametitle}
3046         \inserttitle
3047     \end{minipage}
3048
3049     \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3050         \usebeamerfont{subtitle}

```



```

3051         \usebeamercolor[fg]{frametitle}
3052         \insertsubtitle
3053     \end{minipage}
3054
3055     % Set the title graphic in a zero-height box, so that
3056     % the position of other elements is not affected.
3057     {\vfuzz=9999pt\vbox to 0pt {
3058         \if@RTL
3059             \raggedright
3060         \else
3061             \raggedleft
3062         \fi
3063         \inserttitlegraphic
3064     }}
3065
3066     \begin{minipage}[t]{\textwidth}
3067         \usebeamerfont{author}
3068         \insertauthor
3069     \end{minipage}
3070
3071     \vspace*{\baselineskip}
3072     \begin{minipage}[t]{\textwidth}
3073         \usebeamerfont{institute}
3074         \insertinstitute
3075     \end{minipage}
3076
3077     \vspace*{\baselineskip}
3078     \begin{minipage}[t]{\textwidth}
3079         \usebeamerfont{date}
3080         \insertdate
3081     \end{minipage}
3082
3083     \vspace*{0pt plus 100fill}
3084
3085     \addtocounter{framenum}{-1}
3086     \addtocounter{realframenum}{-1}
3087 }
3088
3089
3090

```

## 28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3091 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3092 \AtBeginDocument{%
3093     \setbeamersize{sidebar width left=.25\paperwidth}%
3094 }
3095
3096 \bidi\csundef{beamer@@tmpop@section in toc@inmargin}
3097
3098 \bidi\csundef{beamer@@tmpop@title page@inmargin}
3099
3100 \bidi\csundef{beamer@@tmpop@block begin@inmargin}
3101

```





```

3102 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3103
3104 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3105
3106 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3107
3108 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3109
3110 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
3111
3112 \defbeamertemplate*{section in toc}{inmargin}
3113 {\leavevmode
3114   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3115
3116 \defbeamertemplate*{title page}{inmargin}
3117 {
3118   \begin{block}{\inserttitleindicator}
3119     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3120     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3121   \end{block}
3122   \vfill
3123   \ifx\insertauthor\@empty
3124   \else
3125     \begin{block}{\insertauthorindicator}
3126       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3127     \end{block}
3128     \fi
3129     \ifx\insertinstitute\@empty
3130     \else
3131       \begin{block}{\insertinstituteindicator}
3132         \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3133       \end{block}
3134       \fi
3135       \ifx\insertdate\@empty
3136       \else
3137         \begin{block}{\insertdateindicator}
3138           \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3139         \end{block}
3140         \fi
3141     }
3142
3143 \defbeamertemplate*{block begin}{inmargin}
3144 {
3145   \par\vskip\medskipamount%
3146   \leavevmode%
3147   \beamer@putleft{\normalfont\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i
3148   \beginL\beamer@putright
3149   %\usebeamercolor[fg]{block body}% to be done!
3150 }
3151
3152 \defbeamertemplate*{block end}{inmargin}
3153 {\endbeamer@putright\endL\vskip\smallskipamount}
3154
3155 \defbeamertemplate*{block alerted begin}{inmargin}

```



```

3156 {
3157   \par\vskip\medskipamount%
3158   \leavevmode%
3159   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}}\usebeamerfont*{block
3160   \beginL\beamer@putright
3161   %\usebeamercolor[fg]{block body alerted}% to be done!
3162 }
3163
3164 \defbeamertemplate*{block alerted end}{inmargin}
3165 {\endbeamer@putright\endL\vskip\smallskipamount}
3166
3167 \defbeamertemplate*{block example begin}{inmargin}
3168 {
3169   \par\vskip\medskipamount%
3170   \leavevmode%
3171   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}}\usebeamerfont*{block
3172   \beginL\beamer@putright
3173   %\usebeamercolor[fg]{block body example}% to be done
3174 }
3175
3176 \defbeamertemplate*{block example end}{inmargin}
3177 {\endbeamer@putright\endL\vskip\smallskipamount}
3178
3179 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3180   \setbeamertemplate{section in toc}[inmargin]%
3181   \setbeamertemplate{subsection in toc}[inmargin]%
3182   \setbeamertemplate{subsubsection in toc}[inmargin]%
3183 }
3184
3185

```

## 29 File beamerinnerthememetropolis-xetex-bidi.def

```

3186 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3187 \setbeamertemplate{title}{
3188   \bidi@beamer@ragged%
3189   \linespread{1.0}%
3190   \inserttitle%
3191   \par%
3192   \vspace*{0.5em}
3193 }
3194
3195 \setbeamertemplate{subtitle}{
3196   \bidi@beamer@ragged%
3197   \insertsubtitle%
3198   \par%
3199   \vspace*{0.5em}
3200 }
3201
3202 \bidi@csundef{beamer@tmpop@section page@progressbar}
3203
3204 \defbeamertemplate{section page}{progressbar}{
3205   \centering
3206   \begin{minipage}{22em}

```



```

3207 \bidi@beamer@ragged
3208 \usebeamercolor[fg]{section title}
3209 \usebeamerfont{section title}
3210 \insertsectionhead\[-1ex]
3211 \usebeamertemplate*{progress bar in section page}
3212 \par
3213 \ifx\insertsubsectionhead\@empty\else%
3214 \usebeamercolor[fg]{subsection title}%
3215 \usebeamerfont{subsection title}%
3216 \insertsubsectionhead
3217 \fi
3218 \end{minipage}
3219 \par
3220 \vspace{\baselineskip}
3221 }
3222
3223 \setbeamertemplate{progress bar in section page}{
3224 \setlength{\metropolis@progressonsectionpage}{%
3225 \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3226 }%
3227 \begin{tikzpicture}
3228 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3229 \if@RTLmain
3230 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3231 \else
3232 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3233 \fi
3234 \end{tikzpicture}%
3235 }
3236
3237 \renewcommand{\metropolis@block}[1]{
3238 \par\vskip\medskipamount%
3239 \setlength{\parskip}{0pt}
3240 \ifbeamercolorempy[bg]{block title#1}{%
3241 \if@RTL
3242 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3243 \else
3244 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3245 \fi
3246 }{%
3247 \ifbeamercolorempy[bg]{block title}{%
3248 \if@RTL
3249 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3250 \else
3251 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3252 \fi
3253 }%
3254 {%
3255 \if@RTL
3256 \begin{beamercolorbox}[
3257 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3258 rightskip=\metropolis@blockadjust,
3259 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3260 ]{block title#1}%

```



```

3261 \else
3262 \begin{beamercolorbox}[
3263     sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3264     leftskip=\metropolis@blockadjust,
3265     rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3266 ]{block title#1}%
3267 \fi
3268 }}%
3269 \usebeamerfont*{block title#1}%
3270 \metropolis@strut%
3271 \insertblocktitle%
3272 \metropolis@strut%
3273 \end{beamercolorbox}%
3274 \nointerlineskip%
3275 \ifbeamercoloreempty[bg]{block body#1}{%
3276     \begin{beamercolorbox}[vmode]{block body#1}{
3277 \ifbeamercoloreempty[bg]{block body}{%
3278     \begin{beamercolorbox}[vmode]{block body#1}%
3279 }{%
3280     \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3281     \vspace{-\metropolis@parskip}
3282 }}%
3283     \usebeamerfont{block body#1}%
3284     \setlength{\parskip}{\metropolis@parskip}%
3285 }
3286
3287
3288 \setbeamertemplate{footnote}{%
3289     \parindent 0em\noindent%
3290     \bidi@beamer@ragged
3291     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3292 }
3293
3294 \setbeamertemplate{RTLfootnote}{%
3295     \parindent 0em\noindent%
3296     \raggedleft
3297     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3298 }
3299
3300 \setbeamertemplate{LTRfootnote}{%
3301     \parindent 0em\noindent%
3302     \raggedright
3303     \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3304 }
3305
3306 \setbeamertemplate{itemize items}{\textbullet}
3307
3308 \setbeamertemplate{section page}[progressbar]
3309
3310

```

## 30 File beamerinnerthemerectangles-xetex-bidi.def

```

3311 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations fo

```



```

3312 \setbeamertemplate{sections/subsections in toc}[square]
3313 \setbeamertemplate{items}[square]
3314

```

### 31 File beamerinnerthemrounded-xetex-bidi.def

```

3315 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3316 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3317 \setbeamertemplate{items}[ball]
3318 \setbeamertemplate{sections/subsections in toc}[ball]
3319

```

### 32 File beamerouterthemedefault-xetex-bidi.def

```

3320 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3321 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.
3322
3323 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip
3324
3325 \AtBeginDocument{%
3326   \if@RTLmain
3327     \setbeamertemplate{frametitle}[default] [right]
3328   \fi
3329 }
3330
3331 \bidi@csundef{beamer@@tmpop@note page@default}
3332
3333 \newcommand*{\bidi@beamer@today}{%
3334 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3335
3336 \defbeamertemplate*{note page}{default}
3337 {%
3338   {%
3339     \scriptsize
3340     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3341     \ifbeamercolorempy[bg]{note title}{\fi}%
3342     \insertvrule{.25\paperheight}{note title.bg}%
3343     \vskip-.25\paperheight%
3344     \nointerlineskip%
3345   }%
3346   \vbox{
3347     \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3348     \vskip-0.25\paperheight%
3349     \nointerlineskip
3350     \if@RTL
3351       \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3352         \begin{pgflowlevelslope}{\pgftransformrotate{-90}}
3353           {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3354           \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3355         \end{pgflowlevelslope}
3356       \end{pgfpicture}%
3357     \else
3358       \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3359         \begin{pgflowlevelslope}{\pgftransformrotate{90}}

```



```

3360         {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3361         \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@B
3362         \end{pgflowlevelslope}
3363         \end{pgfpicture}%
3364         \fi}
3365     \nointerlineskip
3366     \vbox to .25\paperheight{\vskip0.5em
3367     \if@RTL
3368         \moveright0.25\textwidth
3369     \fi
3370         \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3371         \setbox\beamer@tempbox=\hbox{\insertsection}%
3372
3373 \if@RTL
3374     \moveright\dimexpr0.29\textwidth-14pt\relax
3375 \fi
3376 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3377         width0.4pt height7pt\vrule width 9pt
3378         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}%
3379         \if@RTL\endR\fi}}%
3380         \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3381
3382 \if@RTL
3383     \moveright\dimexpr0.29\textwidth-27.4pt\relax
3384 \fi         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3385         width0.4pt height7pt\vrule width 9pt
3386         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}%
3387         \if@RTL\endR\fi}}%
3388         \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3389
3390 \if@RTL
3391     \moveright\dimexpr0.33\textwidth-40.8pt\relax
3392 \fi         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3393         width0.4pt height7pt\vrule width 9pt
3394         height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3395         \if@RTL\endR\fi}}%
3396         \vfil}%
3397     }%
3398     \ifbeamercolorempy[bg]{note page}{\}%
3399     \nointerlineskip%
3400     \insertvrule{.75\paperheight}{note page.bg}%
3401     \vskip-.75\paperheight%
3402     }%
3403     \vskip.25em
3404     \nointerlineskip
3405     \insertnote
3406 }
3407
3408
3409

```

### 33 File beamerouterthemefocus-xetex-bidi.def

```

3410 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea

```



```

3411 \bidi@undef\beamer@@tmpop@footline@progressbar
3412
3413 \defbeamertertemplate*{footline}{progressbar}{%
3414     % If not appendix.
3415     \ifnum\mainend<0% From package appendixnumberbeamer.
3416     %
3417     \settowidth{\focus@pbar@leftoffset}{1}%
3418     \addtolength{\focus@pbar@leftoffset}{1.5em}%
3419     %
3420     \ifx\beamer@focus@totalframenummering\no%
3421         \settowidth{\focus@pbar@rightoffset}{}%
3422         \addtolength{\focus@pbar@rightoffset}{0.5em}%
3423     \else%
3424         \settowidth{\focus@pbar@rightoffset}{\inserttotalframenummer}%
3425         \addtolength{\focus@pbar@rightoffset}{1.5em}%
3426     \fi%
3427     %
3428     % If not title page.
3429     \ifnum\value{realframenummer}>0%
3430         \ifnum\value{framenummer}<\inserttotalframenummer%
3431             \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footli
3432             \pgfmathsetmacro{\focus@pbar@progress}%
3433                 {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inse
3434
3435             \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3436 \if@RTLmain
3437             \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoff
3438             \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle
3439                 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3440 \else
3441             \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\fo
3442             \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pb
3443                 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3444 \fi
3445             \ifx\beamer@focus@totalframenummering\no%
3446             \else%
3447 \if@RTLmain
3448                 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\t
3449                 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=e
3450 \else
3451                 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rig
3452                 ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=w
3453 \fi
3454             \fi%
3455             \end{tikzpicture}%
3456         \else%
3457             \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3458                 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3459                 \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height
3460 \if@RTLmain
3461                 \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\
3462 \else
3463                 \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightof
3464 \fi

```



```

3465             \ifx\beamer@focus@totalframenumbers\no%
3466             \else%
3467 \if@RTLmain
3468             \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\focus@pba
3469             \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0
3470 \else
3471             \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.
3472             \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3473 \fi
3474             \fi%
3475             \end{tikzpicture}%
3476             \fi%
3477             \fi%
3478             \fi%
3479 }
3480
3481

```

## 34 File beamerouterthemeinfoclines-xetex-bidi.def

```

3482 \ProvidesFile{beamerouterthemeinfoclines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3483 \bidi@csundef{beamer@tmpop@footline@infoclines theme}
3484
3485 \defbeamertemplate*{footline}{infoclines theme}
3486 {%
3487   \leavevmode%
3488   \hbox{%
3489     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3490     \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3491     \end{beamercolorbox}%
3492     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3493     \usebeamerfont{title in head/foot}\insertshorttitle
3494     \end{beamercolorbox}%
3495     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3496     \hfill%
3497     \usebeamerfont{date in head/foot}%
3498     \insertshortdate{}%
3499     \hfill%
3500     \bgroup
3501     \usebeamerfont{page number in head/foot}%
3502     \usebeamerfont{page number in head/foot}%
3503     \usebeamertemplate{page number in head/foot}%
3504     \egroup
3505     \end{beamercolorbox}}%
3506     \vskip0pt%
3507 }
3508
3509 \bidi@csundef{beamer@tmpop@headline@infoclines theme}
3510
3511 \defbeamertemplate*{headline}{infoclines theme}
3512 {%
3513   \leavevmode%
3514   \hbox{%
3515     \if@RTL

```





```

3516 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3517 \else
3518 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3519 \fi
3520 \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3521 \end{beamercolorbox}%
3522 \if@RTL
3523 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
3524 \else
3525 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3526 \fi
3527 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3528 \end{beamercolorbox}}%
3529 \vskip0pt%
3530 }
3531
3532 \bidi@AfterFile{beamerouterthememsplit-xetex-bidi.def}{%
3533 \setbeamertemplate{footline}[infolines theme]%
3534 }
3535

```

### 35 File beamerouterthememetropolis-xetex-bidi.def

```

3536 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3537 \setbeamertemplate{progress bar in head/foot}{
3538 \nointerlineskip
3539 \setlength{\metropolis@progressinheadfoot}{%
3540 \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3541 }%
3542 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3543 \begin{tikzpicture}
3544 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3545 \if@RTLmain
3546 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3547 \else
3548 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3549 \fi
3550 \end{tikzpicture}%
3551 \end{beamercolorbox}
3552 }
3553
3554 \AtBeginDocument{%
3555 \setbeamertemplate{frametitle}[plain]%
3556 }
3557
3558

```

### 36 File beamerouterthememiniframes-xetex-bidi.def

```

3559 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3560 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3561
3562 \defbeamertemplate*{headline}{miniframes theme}
3563 {%

```



```

3564 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3565 \end{beamercolorbox}
3566 \begin{beamercolorbox}{section in head/foot}
3567 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3568 \end{beamercolorbox}%
3569 \ifbeamer@theme@subsection%
3570 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3571 \end{beamercolorbox}
3572 \if@RTL
3573 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3574 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3575 \else
3576 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3577 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3578 \fi
3579 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3580 \end{beamercolorbox}%
3581 \fi%
3582 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3583 \end{beamercolorbox}
3584 }
3585
3586

```

### 37 File beamerouterthemesidebar-xetex-bidi.def

```

3587 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3588 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3589
3590 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3591
3592 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3593
3594 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3595
3596 \ifdim\beamer@headheight>0pt
3597
3598 \defbeamertemplate*{frametitle}{sidebar theme}
3599 {%
3600 \nointerlineskip%
3601 \ifbeamer@plainframe%
3602 \hbox{\usebeamercolor[bg]{frametitle}%
3603 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3604 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\beam
3605 \nointerlineskip%
3606 \fi%
3607 \vskip-\beamer@headheight%
3608 \vbox to \beamer@headheight{%
3609 \vfil
3610 \bidi@beamer@leftskip=-\beamer@leftmargin%
3611 \advance\bidi@beamer@leftskip by0.3cm%
3612 \bidi@beamer@rightskip=-\beamer@rightmargin%
3613 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3614 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}

```



```

3615     \ifx\insertframesubtitle\@empty\else%
3616         {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesubtitle}%
3617     \fi%
3618     \vbox{}%
3619     \vskip-1em%
3620     \vfil
3621 }%
3622 }
3623
3624 \AtBeginDocument{%
3625     \setbeamertemplate{frametitle}[sidebar theme]%
3626 }
3627
3628 \defbeamertemplate*{headline}{sidebar theme}
3629 {%
3630     \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3631         \ifx\beamer@sidebarside\beamer@lefttext%
3632         \else%
3633             \hfill%
3634         \fi%
3635         \ifdim\beamer@sidebarwidth>0pt%
3636             \bgroup
3637             \usebeamercolor[bg]{logo}%
3638             \if@RTLmain
3639             \else
3640                 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3641                 \hskip-\beamer@sidebarwidth%
3642             \fi
3643             \hbox to \beamer@sidebarwidth{\hss\vbox to
3644                 \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3645             \if@RTLmain
3646                 \hskip-\beamer@sidebarwidth%
3647                 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3648             \fi
3649             \egroup
3650         \else%
3651             \vrule width0pt height \beamer@headheight%
3652         \fi%
3653     \end{beamercolorbox}
3654 }
3655 \fi
3656
3657 \def\beamer@sidebarformat#1#2#3{%
3658 \if@RTL
3659     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#2}
3660 \else
3661     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#2}
3662 \fi
3663     \vbox{}%
3664     #3\par%
3665     \vbox{}%
3666     \vskip-1.5ex%
3667 \end{beamercolorbox}
3668 }

```



```

3669
3670 \ifdim\beamer@sidebarwidth>0pt
3671
3672 \AtBeginDocument{%
3673   \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3674 }
3675
3676 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
3677 {
3678   \beamer@tempdim=\beamer@sidebarwidth%
3679   \advance\beamer@tempdim by -6pt%
3680   {\usebeamerfont{title in sidebar}%
3681     \vskip1.5em%
3682     \hskip3pt%
3683     \bgroup
3684     \usebeamercolor[fg]{title in sidebar}%
3685     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3686     \vskip1.25em%
3687   }%
3688   {%
3689     \hskip3pt%
3690     \bgroup
3691     \usebeamercolor[fg]{author in sidebar}%
3692     \usebeamerfont{author in sidebar}%
3693     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3694     \vskip1.25em%
3695   }%
3696   \insertverticalnavigation{\beamer@sidebarwidth}%
3697   \vfill
3698   \ifx\beamer@sidebarside\beamer@lefttext%
3699   \else%
3700     \usebeamercolor{normal text}%
3701     \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
3702     \vskip2pt%
3703   \fi%
3704 }%
3705 \fi
3706

```

## 38 File beamerouterthemesplit-xetex-bidi.def

```

3707 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3708 \bidi\csundef{beamer@tmpop@footline@split theme}
3709
3710 \defbeamertemplate*{footline}{split theme}
3711 {%
3712   \leavevmode%
3713   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3714 \else
3715 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3716 \fi
3717   \usebeamerfont{author in head/foot}\insertshortauthor
3718   \end{beamercolorbox}%
3719 \if@RTL

```



```

3720 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3721 \else
3722 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3723 \fi
3724 \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bggroup\usebeamercolor[
3725 \end{beamercolorbox}}}%
3726 \vskip0pt%
3727 }
3728
3729

```

### 39 File beamerouterthemeshadow-xetex-bidi.def

```

3730 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3731 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3732 color(0pt)=(frametitle right.bg);
3733 color(\paperwidth)=(frametitle.bg)
3734 }
3735
3736 \newcommand*{\bidi@beamer@frametitleshade}{%
3737 \if@RTLmain
3738 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3739 \else
3740 \pgfuses shading{beamer@frametitleshade}%
3741 \fi
3742 }
3743
3744 \bidi@csundef{beamer@tmpop@frametitle@shadow theme}
3745
3746 \defbeamer@template*{frametitle}{shadow theme}
3747 {%
3748 \nointerlineskip%
3749 \vskip-2pt%
3750 \hbox{\leavevmode
3751 \advance\beamer@leftmargin by -12bp%
3752 \advance\beamer@rightmargin by -12bp%
3753 \beamer@tempdim=\textwidth%
3754 \advance\beamer@tempdim by \beamer@leftmargin%
3755 \advance\beamer@tempdim by \beamer@rightmargin%
3756 \hskip-\Gm@lmargin\hbox{%
3757 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3758 \vbox{\vskip-.75ex%
3759 \bidi@beamer@leftskip0.3cm%
3760 \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3761 \bggroup\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframe
3762 \ifx\insertframesubtitle\empty\else%
3763 {\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\insertframesu
3764 \fi%
3765 \nointerlineskip
3766 \vbox{}}%
3767 \end{minipage}}}%
3768 \beamer@tempdim=\ht\beamer@tempbox%
3769 \advance\beamer@tempdim by 2pt%
3770 \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}

```



```

3771     \begin{pgfscope}
3772         \pgfsetfillcolor{black}%
3773         \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3774         \pgfsetfading{beamer@topshadowmask}{}%
3775         \pgfusepath{fill}%
3776     \end{pgfscope}
3777     \begin{pgfscope}
3778         \usebeamercolor{frametitle right}%
3779         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3780         \pgfusepath{clip}%
3781         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3782     \end{pgfscope}
3783     \end{pgfpicture}
3784     \hskip-\paperwidth%
3785     \box\beamer@tempbox%
3786 }%
3787 \hskip-\Gm@rmargin%
3788 }%
3789 \vskip-2pt
3790 }
3791
3792 \AtBeginDocument{%
3793     \setbeamertemplate{frametitle}[shadow theme]%
3794 }
3795
3796

```

## 40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3797 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for]
3798 \bidi@csundef{beamer@@tmpop@headline@smoothbars theme}
3799
3800 \bidi@csundef{beamer@@tmpop@frametitle@smoothbars theme}
3801
3802 \defbeamertemplate*{headline}{smoothbars theme}
3803 {%
3804     \pgfuses shading{beamer@barshade}%
3805     \vskip-0.05ex%
3806     \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3807     \begin{pgfpicture}
3808         \begin{pgfscope}%
3809             \ifbeamer@sb@subsection%
3810                 \pgfsetfillcolor{subsection in head/foot.bg}%
3811             \else%
3812                 \pgfsetfillcolor{section in head/foot.bg}%
3813             \fi%
3814             \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3815             \pgfsetfading{beamer@belowframetitlemask}{}%
3816             \pgfusepath{fill}%
3817         \end{pgfscope}%
3818     \end{pgfpicture}%
3819     \end{beamer colorbox}%
3820     \ifbeamer@sb@subsection%
3821         \vskip-9.75ex%

```



```

3822 \else%
3823 \vskip-6.85ex%
3824 \fi%
3825 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/footer}
3826 \insertnavigation{\paperwidth}
3827 \end{beamercolorbox}%
3828 \ifbeamer@sb@subsection%
3829 \if@RTL
3830 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3831 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/footer}
3832 \else
3833 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3834 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/footer}
3835 \fi
3836 \usebeamerfont{subsection in head/footer}\insertsubsectionhead
3837 \end{beamercolorbox}%
3838 \fi%
3839 }%
3840
3841 \defbeamertemplate*{frametitle}{smoothbars theme}
3842 {%
3843 \nointerlineskip%
3844 \vskip-0.19ex%
3845 \usebeamerfont{headline}%
3846 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3847 \pgfuses shading{beamer@aboveframetitle}%
3848 \end{beamercolorbox}%
3849 \vskip-1ex%
3850 \nointerlineskip%
3851 \if@RTL
3852 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3853 \else
3854 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3855 \fi
3856 \vskip0.5ex%
3857 \usebeamerfont*{frametitle}\strut\insertframetitle%
3858 \ifx\insertframesubtitle\@empty%
3859 \strut\par%
3860 \else
3861 \par{\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\strut\insertf
3862 \fi}%
3863 \usebeamerfont{headline}%
3864 \vskip0.05ex%
3865 \end{beamercolorbox}%
3866 \nointerlineskip%
3867 \vskip-0.05ex%
3868 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3869 \begin{pgfpicture}
3870 \begin{pgfscope}%
3871 \pgfsetfillcolor{frametitle.bg}%
3872 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3873 \pgfsetfading{beamer@belowframetitlemask}{}%
3874 \pgfusepath{fill}%
3875 \end{pgfscope}%

```



```

3876 \end{pgfpicture}%
3877 \end{beamercolorbox}%
3878 }
3879
3880 \AtBeginDocument{%
3881 \setbeamertheme{frametitle}[smoothbars theme]%
3882 }
3883
3884

```

## 41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3885 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3886 \bidi\csundef{beamer@tmpop@headline@smoothtree theme}
3887
3888 \bidi\csundef{beamer@tmpop@frametitle@smoothtree theme}
3889
3890 \defbeamertheme*{headline}{smoothtree theme}
3891 {%
3892 \pgfuseshading{beamer@treeshade}%
3893 \vskip-0.05ex%
3894 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3895 \begin{pgfpicture}
3896 \begin{pgfscope}%
3897 \pgfsetfillcolor{subsection in head/foot.bg}%
3898 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3899 \pgfsetfading{beamer@belowframetitlemask}{}%
3900 \pgfusepath{fill}%
3901 \end{pgfscope}%
3902 \end{pgfpicture}%
3903 \end{beamercolorbox}%
3904 \vskip-9.15ex%
3905 \if@RTL
3906 \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3907 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3908 \else
3909 \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3910 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3911 \fi
3912 \usebeamerfont{title in head/foot}\insertshorttitle
3913 \end{beamercolorbox}
3914 \if@RTL
3915 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3916 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3917 \else
3918 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3919 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3920 \fi
3921 \usebeamerfont{section in head/foot}%
3922 \hskip6pt\insertsectionhead
3923 \end{beamercolorbox}
3924 \if@RTL
3925 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3926 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}

```





```

3927 \else
3928 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3929 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3930 \fi
3931 \usebeamerfont{subsection in head/foot}%
3932 \hskip12pt\insertsubsectionhead
3933 \end{beamercolorbox}
3934 \vskip-0.4ex%
3935 }
3936
3937 \defbeamertemplate*{frametitle}{smoothtree theme}
3938 {%
3939 \nointerlineskip%
3940 \vskip-0.05ex%
3941 \usebeamerfont{headline}%
3942 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3943 \pgfuses shading{beamer@aboveframetitle}%
3944 \end{beamercolorbox}
3945 \nointerlineskip%
3946 \if@RTL
3947 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3948 \else
3949 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3950 \fi
3951 \vskip-1.2ex%
3952 \usebeamerfont*{frametitle}\strut\insertframetitle%
3953 \ifx\insertframesubtitle\@empty%
3954 \strut\par%
3955 \else
3956 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3957 \fi%%
3958 \usebeamerfont{headline}%
3959 \end{beamercolorbox}%
3960 \nointerlineskip
3961 \vskip-0.2ex%
3962 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3963 \begin{pgfpicture}
3964 \begin{pgfscope}%
3965 \pgfsetfillcolor{frametitle.bg}%
3966 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3967 \pgfsetfading{beamer@belowframetitlemask}{}%
3968 \pgfusepath{fill}%
3969 \end{pgfscope}%
3970 \end{pgfpicture}%
3971 \end{beamercolorbox}%
3972 }
3973
3974
3975 \AtBeginDocument{%
3976 \setbeamertemplate{frametitle}[smoothtree theme]%
3977 }
3978
3979

```



## 42 File beamerouterthemetree-xetex-bidi.def

```
3980 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
3981 \bidi@csundef{beamer@tmpop@headline@tree theme}
3982
3983 \defbeamer*{template*{headline}{tree theme}
3984 {%
3985   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3986   \end{beamercolorbox}
3987   \if@RTL
3988   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3989     rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3990   \else
3991   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3992     leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3993   \fi
3994   \usebeamerfont{title in head/foot}\insertshorttitle
3995   \end{beamercolorbox}
3996   \if@RTL
3997   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3998     rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3999   \else
4000   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4001     leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
4002   \fi
4003   \usebeamerfont{section in head/foot}%
4004   \ifbeamer@tree@showhooks
4005     \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
4006     \ifdim\wd\beamer@tempbox>1pt%
4007       \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.
4008       \hskip1pt%
4009     \fi%
4010   \else%
4011     \hskip6pt%
4012   \fi%
4013   \insertsectionhead
4014   \end{beamercolorbox}
4015   \if@RTL
4016   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4017     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4018   \else
4019   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4020     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4021   \fi
4022   \usebeamerfont{subsection in head/foot}%
4023   \ifbeamer@tree@showhooks
4024     \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4025     \ifdim\wd\beamer@tempbox>1pt%
4026       \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height
4027       \hskip1pt%
4028     \fi%
4029   \else%
4030     \hskip12pt%
4031   \fi%
```



```

4032     \insertsubsectionhead
4033   \end{beamercolorbox}
4034   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4035   \end{beamercolorbox}
4036 }
4037
4038

```

## 43 File beamerthemeHannover-xetex-bidi.def

```

4039 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4040 \AtBeginDocument{%
4041   \if@RTLmain
4042     \setbeamertemplate{frametitle}[default][left]%
4043   \else
4044     \setbeamertemplate{frametitle}[default][right]%
4045   \fi
4046 }
4047
4048

```

## 44 File beamerthemeSingapore-xetex-bidi.def

```

4049 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4050 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%}
4051
4052 \beamertemplatedotitem
4053
4054 \AtBeginDocument{%
4055   \setbeamertemplate{frametitle}[default][center]%
4056 }
4057
4058

```

## 45 File bidi.sty

```

4059 \NeedsTeXFormat{LaTeX2e}
4060 \def\bididate{2025/10/28}
4061 \def\bidi@version{25.10.28}
4062 \def\bidi@releasename{Iran}
4063 \newcommand*{\bidi@releasename}{\bidi@releasename}
4064 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space]
4065 Bidirectional typesetting in plain TeX and LaTeX]
4066 \newif\if@bidi@banner
4067 \newif\if@bidi@pdfbanner
4068 \newif\iffootdir@debug
4069 \newif\if@extrafootnote@features
4070 \newif\if@nonlatin
4071 \newif\if@bidi@pdfm@mark
4072 \newif\if@bidi@perpage@footnote
4073 \ExplSyntaxOn
4074 \msg_new:nnn {bidi} {cannot-use-engine}
4075 {
4076   Oops!~can~not~use~\c_sys_engine_str.\\\

```



```

4077   The~bidi~package~requires~XeTeX.
4078 }
4079 \sys_if_engine_xetex:F
4080 {
4081   \msg_fatal:nn {bidi} {cannot-use-engine}
4082 }
4083
4084 \keys_define:nn { bidi }
4085 {
4086   banner .choice: ,
4087   banner / on .code:n = \@bidi@bannertrue ,
4088   banner / off .code:n = \@bidi@bannerfalse ,
4089   banner .default:n = on
4090 }
4091 \keys_define:nn { bidi }
4092 {
4093   PDFbanner .choice: ,
4094   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4095   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4096   PDFbanner .default:n = on
4097 }
4098 \keys_define:nn { bidi }
4099 {
4100   RTLdocument .choice: ,
4101   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4102   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4103   RTLdocument .default:n = on
4104 }
4105 \keys_define:nn { bidi }
4106 {
4107   rldocument .choice: ,
4108   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4109   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4110   rldocument .default:n = on
4111 }
4112 \keys_define:nn { bidi }
4113 {
4114   documentdirection .choice: ,
4115   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4116   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4117 }
4118 \keys_define:nn { bidi }
4119 {
4120   tabledirection .choice: ,
4121   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4122   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4123 }
4124 \keys_define:nn { bidi }
4125 {
4126   footnotedirection .choice: ,
4127   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4128   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4129 }
4130 \keys_define:nn { bidi }

```



```

4131 {
4132     debugfootnotedirection .choice: ,
4133     debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4134     debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4135     debugfootnotedirection .default:n = on
4136 }
4137 \keys_define:nn { bidi }
4138 {
4139     footnoterule .choice: ,
4140     footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4141     footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4142     footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4143     footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4144     footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4145 }
4146 \keys_define:nn { bidi }
4147 {
4148     extrafootnotefeatures .choice: ,
4149     extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4150     extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4151     extrafootnotefeatures .default:n = on
4152 }
4153 \keys_define:nn { bidi }
4154 {
4155     script .choice: ,
4156     script / latin .code:n = \@nonlatinfalse ,
4157     script / nonlatin .code:n = \@nonlatintrue ,
4158     script .default:n = latin
4159 }
4160 \keys_define:nn { bidi }
4161 {
4162     DetectColumn .choice: ,
4163     DetectColumn / on .code:n =
4164         \def\bidi@firstcolumn@status@write{%
4165             \protected@write\@auxout{%
4166                 {\string\bidi@column@status
4167                     {1}}}
4168         \def\bidi@lastcolumn@status@write{%
4169             \protected@write\@auxout{%
4170                 {\string\bidi@column@status{2}}} ,
4171     DetectColumn / off .code:n =
4172         \let\bidi@firstcolumn@status@write\relax
4173         \let\bidi@lastcolumn@status@write\relax ,
4174     DetectColumn .default:n = on
4175 }
4176 \keys_define:nn { bidi }
4177 {
4178     logo .choice: ,
4179     logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4180     logo / off .code:n = \AtEndOfPackage{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4181     logo .default:n = on
4182 }
4183 \keys_define:nn { bidi }
4184 {

```



```

4185 pdfinfo .choice: ,
4186 pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4187 pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4188 pdfinfo .default:n = on
4189 }
4190 % The 'perpagefootnote' option is documented in UK TeX FAQ at
4191 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4192 \keys_define:nn { bidi }
4193 {
4194   perpagefootnote .choice: ,
4195   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4196   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4197   perpagefootnote .default:n = on
4198 }
4199 \keys_set:nn { bidi }
4200 {
4201   banner = on ,
4202   PDFbanner = on ,
4203   DetectColumn = off
4204 }
4205 }
4206 \ExplSyntaxOff
4207 \ProcessKeyOptions
4208 \edef\@bidi@info{*****~J%
4209 * ~J%
4210 * bidi package (Bidirectional typesetting with~J%
4211 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4212 * ~J%
4213 * Description: A convenient interface for~J%
4214 * typesetting bidirectional texts in plain TeX~J%
4215 * and LaTeX. The package includes adaptations~J%
4216 * for use with many other commonly-used packages.~J%
4217 * ~J%
4218 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4219 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4220 * ~J%
4221 * v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date~J%
4222 * ~J%
4223 * License: LaTeX Project Public License, version~J%
4224 * 1.3c or higher (your choice)~J%
4225 * ~J%
4226 * Location on CTAN: /macros/unicodetex/generic/bidi~J%
4227 * ~J%
4228 * Primary author of bidi package: Vafa Khalighi.~J%
4229 * ~J%
4230 *****}
4231 \edef\bidi@everyjob{\the\everyjob}
4232 \if@bidi@banner
4233   \typeout{\@bidi@info}
4234   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4235 \fi
4236 \newcommand*{\bidi@version}{\ensuremath\bidi@version}
4237 \RequirePackage{bidiutils}
4238 \RequirePackage{zref-abspage}

```



```

4239 \RequirePackage{auxhook}
4240 \RequirePackage{ltxcmds}
4241 \eqnewif{\if@RTLmain}{\if@rlmain}
4242 \eqnewif{\if@RTL}{\if@rl}
4243 \newcommand*{\setlatin}{\@nonlatinfalse}
4244 \newcommand*{\setnonlatin}{\@nonlatintrue}
4245 \eqnewif{\if@RTLtab}{\if@tab@rl}
4246 \newif\if@hboxRconstruct
4247 \newif\if@bidi@pdfencrypt
4248 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4249 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4250 \newif\if@RTLMarginpar
4251 \newif\if@LTRmarginpar
4252 \newif\if@LTRbibitems
4253 \newif\if@RTLbibitems
4254 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4255 \newif\if@bidi@list@minipage@parbox
4256 \newif\if@bidi@list@minipage@parbox@not@nob
4257 \newcommand*{\@bidi@pdfcreator}{%
4258   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4259 }
4260 \newcommand*{\@bidi@pdfproducer}{%
4261   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4262 }
4263 \newcommand*{\@bidi@pdfcustomproperties}{%
4264   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4265   Released October 28, 2025.
4266 }
4267 \newcommand*{\bidi@beamer@ragged}{%
4268 \@RTLmainfalse
4269 \AtBeginDocument{%
4270   \if@RTLmain\else
4271     \if@RTL\@RTLmaintrue%
4272     \else\@RTLmainfalse%
4273     \fi%
4274   \fi%
4275 }
4276 \let\n@xt=\
4277 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4278 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4279 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4280 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4281 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4282   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4283 \newinsert\@bidi@copyins@
4284 \skip\@bidi@copyins@=12\p@
4285 \dimen\@bidi@copyins@=40pc
4286 \count\@bidi@copyins@=1000
4287 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4288 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4289   \if@RTLmain
4290     \if@twocolumn
4291       \hboxR to \columnwidth
4292     \else

```



```

4293     \hboxR to \textwidth
4294     \fi
4295   \else
4296     \if@twocolumn
4297       \hboxL to \columnwidth
4298     \else
4299       \hboxL to \textwidth
4300     \fi
4301   \fi
4302 }
4303 \newcommand*{\@bidi@logo}[1]{%
4304   \toks@{%
4305     \setbox\z@\hbox{%
4306       \special{%
4307         pdf:image width 50pt height 50pt (#1)%
4308       }
4309     }%
4310     \dp\z@\z@
4311     \ht\z@=50pt
4312     \wd\z@=50pt
4313     \beginL
4314     \lower20pt\box\z@
4315     \endL
4316   }%
4317   \the\toks@
4318 }
4319 \newcount\bidi@typesethour
4320 \newcount\bidi@typesetminute
4321 \bidi@typesethour=\time
4322 \divide\bidi@typesethour 60
4323 \bidi@typesetminute=-\bidi@typesethour
4324 \multiply\bidi@typesetminute 60
4325 \advance\bidi@typesetminute \time
4326 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4327 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4328 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4329 \newcommand*{\@bidi@logo@}{%
4330   \@bidi@logo@hb@xt@columnwidth
4331   {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4332     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4333 \ExplSyntaxOn
4334 \keys_define:nn { bidi / pdfencrypt }
4335 {
4336   userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4337   userpassword .default:n =
4338 }
4339 \keys_define:nn { bidi / pdfencrypt }
4340 {
4341   ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4342   ownerpassword .default:n =
4343 }
4344 \keys_define:nn { bidi / pdfencrypt }
4345 {
4346   keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,

```





```

4347     keylength .default:n = 128
4348 }
4349 \keys_define:nn { bidi / pdfencrypt }
4350 {
4351     permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4352     permissionflags .default:n = 2052
4353 }
4354 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4355 \ExplSyntaxOff
4356 \@onlypreamble\pdfencryptsetup
4357 \input{latex-xetex-bidi.def}
4358
4359 \pdfencryptsetup{%
4360     userpassword,%
4361     ownerpassword,%
4362     keylength,%
4363     permissionflags%
4364 }
4365
4366 \if@extrafootnotefeatures
4367   \input{extrafootnotefeatures-xetex-bidi.def}
4368 \fi
4369 \newcount\bidi@digits
4370 \XeTeXinterchartokenstate=\@ne
4371 \newXeTeXintercharclass\bidi@digits@charclass
4372 \newXeTeXintercharclass\bidi@sepmark@charclass
4373 \XeTeXcharclass \\. \bidi@sepmark@charclass
4374 \XeTeXcharclass \- \bidi@sepmark@charclass
4375 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4376 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4377 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4378 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4379 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4380 \bidi@AtEndPreamble{%
4381   \if@bidi@perpage@footnote
4382     \RequirePackage{bidi-perpage}%
4383     \ResetCounterPerPage{footnote}%
4384   \fi
4385   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4386     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4387       \@bidi@pdfencryptfalse
4388     \else
4389       \@bidi@pdfencrypttrue
4390     \fi
4391   \else
4392     \@bidi@pdfencrypttrue
4393   \fi
4394   \if@bidi@pdfencrypt
4395     \special{pdf:encrypt
4396       userpw (\bidi@pdfencrypt@userpassword)
4397       ownerpw (\bidi@pdfencrypt@ownerpassword)
4398       length \bidi@pdfencrypt@keylength
4399       perm \bidi@pdfencrypt@permissionflags
4400     }%

```



```

4401 \fi
4402 }
4403 \if@bidi@pdfbanner
4404 \if@bidi@pdfm@mark
4405 \AtEndDocument{%
4406 \special{pdf:%
4407 docinfo<<%
4408 /Creator(\@bidi@pdfcreator)%
4409 /Producer(\@bidi@pdfproducer)%
4410 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4411 \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4412 /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4413 }}}%
4414 >>%
4415 }%
4416 }
4417 \else
4418 \AtEndDocument{%
4419 \special{pdf:%
4420 docinfo<<%
4421 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4422 \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4423 /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4424 }}}%
4425 >>%
4426 }%
4427 }
4428 \fi
4429 \else
4430 \if@bidi@pdfm@mark
4431 \AtEndDocument{%
4432 \special{pdf:%
4433 docinfo<<%
4434 /Creator(\@bidi@pdfcreator)%
4435 /Producer(\@bidi@pdfproducer)%
4436 >>%
4437 }%
4438 }
4439 \fi
4440 \fi

```

## 46 File bidi.tex

```

4441 \def\bididate{2025/10/28}
4442 \catcode\@=11
4443 \def\bidi@version{25.10.28}
4444 \def\bidi@releasename{Iran}
4445 \def\bidi@releasename{\bidi@releasename}
4446 \let \protect \relax
4447 \newlinechar`^^J
4448 \edef\@bidi@info{*****~^J%
4449 * ~^J%
4450 * bidi package (Bidirectional typesetting with^^J%
4451 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)^^J%

```



```

4452 * ^^J%
4453 * Description: A convenient interface for^^J%
4454 * typesetting bidirectional texts in plain TeX^^J%
4455 * and LaTeX. The package includes adaptations^^J%
4456 * for use with many other commonly-used packages.^^J%
4457 * ^^J%
4458 * Copyright (c) 2007--2025 Vafa Khalighi^^J%
4459 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4460 * ^^J%
4461 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4462 * ^^J%
4463 * License: LaTeX Project Public License, version^^J%
4464 * 1.3c or higher (your choice)^^J%
4465 * ^^J%
4466 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4467 * ^^J%
4468 * Primary author of bidi package: Vafa Khalighi.^^J%
4469 * ^^J%
4470 *****}
4471 \edef\bidi@everyjob{\the\everyjob}
4472 \message{\@bidi@info}
4473 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4474 \def\bidiversion{%
4475   \relax
4476   \ifmmode
4477     \bidi@version
4478   \else
4479     $\bidi@version$
4480   \fi
4481 }
4482 \input iftex.sty
4483 \RequireXeTeX
4484 \newif\if@bidi@pdfm@mark
4485 \newif\if@RTLmain
4486 \newif\if@RTL
4487 \newif\if@hboxRconstruct
4488 \newif\if@sentedir
4489 \newif\if@RTL@footnote
4490 \@RTLmainfalse
4491 \def\setRTLmain{%
4492   \if@RTLmain\else
4493     \if@RTL\@RTLmaintrue%
4494     \else\@RTLmainfalse%
4495     \fi%
4496   \fi%
4497 }
4498 \let\n@xt=\
4499 \protected\def\LRE{\protect\pLRE}%
4500 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4501 \protected\def\RLE{\protect\pRLE}
4502 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4503 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4504   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4505 \newinsert\@bidi@copyins@

```



```

4506 \skip\@bidi@copyins@=12\p@
4507 \dimen\@bidi@copyins@=40pc
4508 \count\@bidi@copyins@=1000
4509 \def\@bidi@inslogo@{\insert\@bidi@copyins@\@bidi@logo@}}
4510 \def\@bidi@logo@hb@ext@{%
4511   \if@RTLmain
4512     \hboxR to
4513   \else
4514     \hboxL to
4515   \fi
4516 }
4517 \def\@bidi@logo#1{%
4518   \toks@{%
4519     \setbox\z@\hbox{%
4520       \special{%
4521         pdf:image width 50pt height 50pt (#1)%
4522       }
4523     }%
4524     \dp\z@\z@
4525     \ht\z@=50pt
4526     \wd\z@=50pt
4527     \beginL
4528     \lower20pt\box\z@
4529     \endL
4530   }%
4531   \the\toks@
4532 }
4533 \def\today{\ifcase\month\or
4534   January\or February\or March\or April\or May\or June\or
4535   July\or August\or September\or October\or November\or December\fi
4536   \space\number\day, \number\year}
4537 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4538 \newcount\@bidi@typesethour
4539 \newcount\@bidi@typesetminute
4540 \@bidi@typesethour=\time
4541 \divide\@bidi@typesethour 60
4542 \@bidi@typesetminute=-\@bidi@typesethour
4543 \multiply\@bidi@typesetminute 60
4544 \advance\@bidi@typesetminute \time
4545 \def\TypesetHour{\two@digits\@bidi@typesethour}
4546 \def\TypesetMinute{\two@digits\@bidi@typesetminute}
4547 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4548 \def\@bidi@logo@{\@bidi@logo@hb@ext@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4549 \def\bidilogo@\@bidi@inslogo@}
4550 \def\nobidilogo{\let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty}
4551 \def\@bidi@pdfcreator{%
4552   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \bididate
4553 }
4554 \def\@bidi@pdfproducer{%
4555   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \bididate
4556 }
4557 \def\@bidi@pdfcustomproperties{%
4558   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4559   Released October 28, 2025.

```



```

4560 }
4561 \def\bidipdfmark{%
4562   \special{pdf:
4563     docinfo<<%
4564     \if@bidipdfmark
4565       /Creator(\@bidipdfcreator)%
4566       /Producer(\@bidipdfproducer)%
4567     \fi
4568     /BIDI.Fullbanner(\@bidipdfcustomproperties)%
4569     >>%
4570   }%
4571 }
4572 \def\bidipdfinfoon{\@bidipdfmarktrue}
4573 \def\bidipdfinfooff{\@bidipdfmarkfalse}
4574 \input plain-xetex-bidi.def
4575 \outer\def\bye{\bidipdfmark\par\vfill\supereject\end}
4576 \catcode\@=12
4577 \bidipdfinfoon

```

## 47 File bidi2in1.sty

```

4578 \NeedsTeXFormat{LaTeX2e}
4579 \ProvidesPackage{bidi2in1}
4580 \pagestyle{plain}
4581 \newcount\evenpage
4582 \newcount\oddpge
4583 \twocolumn
4584 \def\@oddfoot{\evenpage=\thepage%
4585 \multiply\evenpage by 2%
4586 \oddpge=\the\evenpage%
4587 \advance\oddpge by -1%
4588 \hfil\the\evenpage\hfil\hfil\the\oddpge\hfil}%
4589 \def\@evenfoot{\evenpage=\thepage%
4590 \multiply\evenpage by 2%
4591 \oddpge=\the\evenpage%
4592 \advance\oddpge by -1%
4593 \hfil\the\oddpge\hfil\hfil\the\evenpage\hfil}%
4594 \textwidth 9.49in
4595 \textheight 6.7in
4596 \columnsep 0.9in
4597 \columnseprule 0.125pt
4598 \headheight 0cm
4599 \topmargin 0in
4600 \marginparwidth 0in
4601 \marginparsep 0in
4602 \hoffset 0.05in % Corrected
4603 \voffset -0.5in %top margin space is 1.0in by default
4604 \oddsidemargin 0in
4605 \evensidemargin 0in
4606 \headsep 0cm
4607 \topskip 0cm
4608 \parskip 0.15in %
4609 \headsep 0pt
4610 \special{papersize=11.69in,8.26in}

```



```

4611 \renewcommand\maketitle{\par
4612 \begin{group}
4613 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4614 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4615 \long\def\@makefntext##1{\parindent 1em\noindent
4616 \hb@xt@1.8em{%
4617 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4618 \@maketitle
4619 \@thanks
4620 \end{group}
4621 \setcounter{footnote}{0}%
4622 \global\let\thanks\relax
4623 \global\let\maketitle\relax
4624 \global\let\@maketitle\relax
4625 \global\let\@thanks\@empty
4626 \global\let\@author\@empty
4627 \global\let\@date\@empty
4628 \global\let\@title\@empty
4629 \global\let\title\relax
4630 \global\let\author\relax
4631 \global\let\date\relax
4632 \global\let\and\relax
4633 }

```

## 48 File bidicode.sty

```

4634 \NeedsTeXFormat{LaTeX2e}
4635 \ProvidesPackage{bidicode}
4636 \RequirePackage{xcolor}
4637 \RequirePackage{showexpl}
4638 \definecolor{hellgelb}{rgb}{1,1,0.85}
4639 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4640 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4641 \definecolor{colIdentifier}{rgb}{0,0,0}
4642 \definecolor{colComments}{rgb}{1,0,0}
4643 \definecolor{colString}{rgb}{0,0.5,0}
4644 \lstset{%
4645     language=[LaTeX]TeX,%
4646     float=hbp,%
4647     basicstyle=\ttfamily\small,%
4648     identifierstyle=\color{colIdentifier},%
4649     keywordstyle=\color{colKeys},%
4650     texcsstyle=\color{colCS},%
4651     stringstyle=\color{colString},%
4652     commentstyle=\color{colComments},%
4653     backgroundcolor=\color{hellgelb},%
4654     columns=flexible,%
4655     tabsize=4,%
4656     extendedchars=true,%
4657     showspaces=false,%
4658     showstringspaces=false,%
4659     numbers=left,%
4660     numbersep=0.9em,%
4661     numberstyle=\tiny,%

```



```

4662     frame=single,%
4663     captionpos=b,%
4664     xleftmargin=1em,%
4665     breaklines=true,%
4666     breakautoindent=false,%
4667     breakindent=0pt,%
4668     escapeinside=**,%
4669     pos=r,%
4670     explpreset={%
4671         xleftmargin=1em,%
4672         columns=flexible,%
4673         language=[LaTeX]TeX%
4674     },%
4675     moretexcs={%
4676         bididate,%
4677         bidiversion,%
4678         deflatinfont,%
4679         defpersianfont,%
4680         ding,%
4681         endLTR,%
4682         endRTL,%
4683         false,%
4684         falsesymbol,%
4685         junicode,%
4686         lr,%
4687         LR,%
4688         LRE,%
4689         LTR,%
4690         maketitle,%
4691         Nastaliq,%
4692         newfontfamily,%
4693         Parsifont,%
4694         part,%
4695         RL,%
4696         RLE,%
4697         RTL,%
4698         RTLcases,%
4699         SepMark,%
4700         setLR,%
4701         setLTR,%
4702         setRL,%
4703         setRTL,%
4704         settextfont,%
4705         subsection,%
4706         subsubsection,%
4707         tableofcontents,%
4708         text,%
4709         theequation,%
4710         thesection,%
4711         true,%
4712         truesymbol,%
4713         XePersian,%
4714         xepersiandate,%
4715         xepersianversion%

```



```

4716     }%
4717 }
4718 \newcommand\HLON{%
4719   \gdef\lst@alloverstyle##1{%
4720     \fboxrule=0pt
4721     \fboxsep=0pt
4722     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4723 }}
4724 \newcommand\HLOFF{%
4725   \xdef\lst@alloverstyle##1{##1}%
4726 }
4727 \newcommand\Larg [1]{\{\normalfont\itshape#1\}/}
4728 \newcommand\Larga[1]{\$\langle$\Larg{#1}$\rangle$}
4729 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4730 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4731 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4732 \newcommand\LBEG[1]{\{\normalfont\ttfamily\bs{}\begin\lcb#1\rcb}}
4733 \newcommand\LEND[1]{\{\normalfont\ttfamily\bs{}\end\lcb#1\rcb}}
4734
4735 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4736 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`\{}}
4737 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`\}}
4738 \DeclareRobustCommand\lsb{\normalfont\ttfamily[}
4739 \DeclareRobustCommand\rsb{\normalfont\ttfamily]}
4740 \DeclareRobustCommand\lrb{\normalfont\ttfamily(}
4741 \DeclareRobustCommand\rrb{\normalfont\ttfamily)}
4742
4743 \def\Lcs#1{\nxLcs{#1}}
4744 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4745 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4746
4747 \def\Coordx#1{$x_{#1}$}
4748 \def\Coordy#1{$y_{#1}$}
4749 \def\Coordz#1{$z_{#1}$}
4750 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4751 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4752 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4753 \def\CAny{\Coordx{ },\kern 1pt\Coordy{ }}
4754 \def\CIIIIAny{\Coordx{ },\kern 1pt\Coordy{ },\kern 1pt\Coordz{ }}
4755 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4756 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4757 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4758 \def\coordx#1{($x_{#1}$)}
4759 \def\coordy#1{($y_{#1}$)}
4760 \def\coordz#1{($z_{#1}$)}
4761 \def\cAny{(\Coordx{ },\kern 1pt\Coordy{ })}
4762 \def\ciiiiAny{(\Coordx{ },\kern 1pt\Coordy{ },\kern 1pt\Coordz{ })}
4763
4764 \newsavebox{\boxdef}
4765 \newenvironment{BDef}
4766   {\begin{lrbox}\boxdef
4767     \def\arraystretch{1.0}
4768     \begin{tabular}{@{}l@{}l@{}l@{}}
4769   }

```





```

4770 {\end{tabular}}\end{lrbox}
4771
4772 {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4773 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4774 }
4775
4776 \newenvironment{BDef*}{
4777   {\begin{lrbox}\boxdef
4778     \def\arraystretch{1.0}
4779     \begin{tabular}{@{}l@{}l@{}l@{}}
4780   }
4781   {\end{tabular}}\end{lrbox}
4782   {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
4783   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4784 }
4785 \newenvironment{BCmd*}{
4786   \@beginparpenalty-\@lowpenalty
4787   \topsep\BDefaboveskip
4788   \fbboxsep3pt
4789   \flushleft}
4790 {\@endparpenalty\@M
4791   \topsepadd\BDefbelowskip
4792   \endflushleft}
4793
4794 \newenvironment{BCmd*}{
4795   \@beginparpenalty\@M
4796   \topsep\BDefinlineskip
4797   \fbboxsep3pt
4798   \flushleft}
4799 {\@endparpenalty5000
4800   \endflushleft}
4801
4802 \newskip\BDefaboveskip
4803 \newskip\BDefbelowskip
4804 \newskip\BDefinlineskip
4805 \setlength\BDefaboveskip{10pt plus 4pt}
4806 \setlength\BDefbelowskip{6pt}
4807 \setlength\BDefinlineskip{6pt}
4808
4809 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4810 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
4811 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4812 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 49 File bidiftnxtra.sty

```

4813 \NeedsTeXFormat{LaTeX2e}
4814 \ProvidesPackage{bidiftnxtra}
4815 \newtoks\bidip@ftn
4816 \let\FN@sffootnote\footnote
4817 \let\FN@sffootnote\LTRfootnote
4818 \let\FN@sffootnote\RTLfootnote
4819 \def\footnote{\ifx\protect\@typeset@protect
4820   \expandafter\FN@sffootnote

```



```

4821 \else
4822 \expandafter\FN@sfgobble@opt
4823 \fi
4824 }
4825 \def\LTRfootnote{\ifx\protect\@typeset@protect
4826 \expandafter\FN@sfgobble@LTRfootnote
4827 \else
4828 \expandafter\FN@sfgobble@opt
4829 \fi
4830 }
4831 \def\RTLfootnote{\ifx\protect\@typeset@protect
4832 \expandafter\FN@sfgobble@RTLfootnote
4833 \else
4834 \expandafter\FN@sfgobble@opt
4835 \fi
4836 }
4837 \edef\FN@sfgobble@opt{\noexpand\protect
4838 \expandafter\noexpand\csname FN@sfgobble@opt \endcsname}
4839 \expandafter\def\csname FN@sfgobble@opt \endcsname{%
4840 \ifnextchar[%]
4841 \FN@sfgobble@twobracket
4842 \@gobble
4843 }
4844 \def\FN@sfgobble@twobracket[#1]#2{}
4845 \let\FN@sfgobble@footnotemark\footnotemark
4846 \def\footnotemark{\ifx\protect\@typeset@protect
4847 \expandafter\FN@sfgobble@footnotemark
4848 \else
4849 \expandafter\FN@sfgobble@optonly
4850 \fi
4851 }
4852 \edef\FN@sfgobble@optonly{\noexpand\protect
4853 \expandafter\noexpand\csname FN@sfgobble@optonly \endcsname}
4854 \expandafter\def\csname FN@sfgobble@optonly \endcsname{%
4855 \ifnextchar[%]
4856 \FN@sfgobble@bracket
4857 {}%
4858 }
4859 \def\FN@sfgobble@bracket[#1]{}
4860 \def\@tabular{%
4861 \leavevmode \hbox \bgroup
4862 \let\@footnotetext\@footnotetext
4863 \let\@LTRfootnotetext\@LTRfootnotetext
4864 \let\@RTLfootnotetext\@RTLfootnotetext
4865 \let\@xfootnotenext\@xfootnotenext
4866 \let\@xfootnote\@xfootnote
4867 \let\@xLTRfootnotenext\@xLTRfootnotenext
4868 \let\@xLTRfootnote\@xLTRfootnote
4869 \let\@xRTLfootnotenext\@xRTLfootnotenext
4870 \let\@xRTLfootnote\@xRTLfootnote
4871 \if@RTLtab\beginR \fi
4872 $\let\@acol\@tabacol
4873 \let\@classz\@tabclassz
4874 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}

```



```

4875 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
4876         \egroup $\if@RTLtab\endR\fi\egroup
4877         \ifx\@capttype\undefined
4878         \global\bidip@ftn\expandafter{\expandafter}\the\bidip@ftn\fi}
4879 \long\def\bidip@ftntext#1{%
4880   \edef\@tempy{\the\bidip@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
4881   \global\bidip@ftn\expandafter{\@tempy{#1}}}%
4882 \long\def\bidip@LTRftntext#1{%
4883   \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4884   \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4885 \long\def\bidip@RTLftntext#1{%
4886   \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
4887   \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4888
4889
4890 \long\def\bidip@xftntext[#1]#2{%
4891   \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4892
4893 \long\def\bidip@xLTRftntext[#1]#2{%
4894   \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4895
4896 \long\def\bidip@xRTLftntext[#1]#2{%
4897   \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4898
4899
4900 \def\bidip@xfootnote[#1]{%
4901   \begingroup
4902     \csname c@\@mpfn\endcsname #1\relax
4903     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4904   \endgroup
4905   \@footnotemark\bidip@xftntext[#1]}
4906
4907
4908 \def\bidip@xLTRfootnote[#1]{%
4909   \begingroup
4910     \csname c@\@mpfn\endcsname #1\relax
4911     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4912   \endgroup
4913   \@footnotemark\bidip@xLTRftntext[#1]}
4914
4915
4916 \def\bidip@xRTLfootnote[#1]{%
4917   \begingroup
4918     \csname c@\@mpfn\endcsname #1\relax
4919     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4920   \endgroup
4921   \@footnotemark\bidip@xRTLftntext[#1]}
4922
4923 \def\@xfloat #1[#2]{%
4924   \@nodoocument
4925   \def \@capttype {#1}%
4926   \def \@fps {#2}%
4927   \@onelevel@sanitize \@fps
4928   \def \reserved@b {!}%

```



```

4929 \ifx \reserved@b \@fps
4930 \@fpsadddefault
4931 \else
4932 \ifx \@fps \@empty
4933 \@fpsadddefault
4934 \fi
4935 \fi
4936 \ifhmode
4937 \@bsphack
4938 \@floatpenalty -\@Mii
4939 \else
4940 \@floatpenalty-\@Miii
4941 \fi
4942 \ifinner
4943 \@parmoderr\@floatpenalty\z@
4944 \else
4945 \@next\@currbox\@freelist
4946 {%
4947 \@tempcnta \sixt@@n
4948 \expandafter \@tfor \expandafter \reserved@a
4949 \expandafter :\expandafter =\@fps
4950 \do
4951 {%
4952 \if \reserved@a h%
4953 \ifodd \@tempcnta
4954 \else
4955 \advance \@tempcnta \@ne
4956 \fi
4957 \fi
4958 \if \reserved@a t%
4959 \@setfpsbit \tw@
4960 \fi
4961 \if \reserved@a b%
4962 \@setfpsbit 4%
4963 \fi
4964 \if \reserved@a p%
4965 \@setfpsbit 8%
4966 \fi
4967 \if \reserved@a !%
4968 \ifnum \@tempcnta>15
4969 \advance\@tempcnta -\sixt@@n\relax
4970 \fi
4971 \fi
4972 }%
4973 \@tempcntb \csname ftype@\@capytype \endcsname
4974 \multiply \@tempcntb \xxxiii
4975 \advance \@tempcnta \@tempcntb
4976 \global \count\@currbox \@tempcnta
4977 }%
4978 \@fltovf
4979 \fi
4980 \global \setbox\@currbox
4981 \color@vbox
4982 \normalcolor

```



```

4983 \vbox \bgroup
4984 \let\@footnotetext\@bidi@p@ftntext
4985 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4986 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4987 \let\@xfootnotenext\@bidi@p@xftntext
4988 \let\@xfootnote\@bidi@p@xfootnote
4989 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4990 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4991 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4992 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4993 \hsize\columnwidth
4994 \@parboxrestore
4995 \@floatboxreset
4996 }
4997 \def \@endfloatbox{%
4998 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
4999 \@minipagefalse
5000 \outer@nobreak
5001 \egroup %% end of vbox
5002 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn
5003 \color@endbox
5004 }

```

## 50 File bidimoderncv.cls

```

5005 \NeedsTeXFormat{LaTeX2e}
5006 \ProvidesClass{bidimoderncv}
5007 \newif\if@DEBUG\@DEBUGfalse
5008 \DeclareOption{a4paper}{
5009 \setlength\paperheight{297mm}
5010 \setlength\paperwidth{210mm}}
5011 \DeclareOption{a5paper}{
5012 \setlength\paperheight{210mm}
5013 \setlength\paperwidth{148mm}}
5014 \DeclareOption{b5paper}{
5015 \setlength\paperheight{250mm}
5016 \setlength\paperwidth{176mm}}
5017 \DeclareOption{letterpaper}{
5018 \setlength\paperheight{11in}
5019 \setlength\paperwidth{8.5in}}
5020 \DeclareOption{legalpaper}{
5021 \setlength\paperheight{14in}
5022 \setlength\paperwidth{8.5in}}
5023 \DeclareOption{executivepaper}{
5024 \setlength\paperheight{10.5in}
5025 \setlength\paperwidth{7.25in}}
5026 \DeclareOption{landscape}{
5027 \setlength\@tempdima{\paperheight}
5028 \setlength\paperheight{\paperwidth}
5029 \setlength\paperwidth{\@tempdima}}
5030 \newcommand\@ptsize{}
5031 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5032 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5033 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}

```



```

5034 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5035 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5036 \newif\if@colour\@colourtrue
5037 \DeclareOption{nocolour}{\@colourfalse}
5038 \ExecuteOptions{a4paper,11pt,colour,final}
5039 \ProcessOptions\relax
5040 \input{size1\@ptsize.clo}
5041 \RequirePackage{color}
5042 \RequirePackage{graphicx}
5043 \RequirePackage{ifthen}
5044 \RequirePackage{marvosym}
5045 \addtolength{\oddsidemargin}{-54pt}
5046 \addtolength{\textwidth}{109pt}
5047 \addtolength{\topmargin}{-70pt}
5048 \addtolength{\textheight}{122pt}
5049 \addtolength{\marginparsep}{-5pt}
5050 \addtolength{\marginparwidth}{-10pt}
5051 \RequirePackage{url}
5052 \RequirePackage{hyperref}
5053 \hypersetup{%
5054   breaklinks,
5055   baseurl      = http://,%
5056   pdfborder    = 0 0 0,%
5057   pdfpagemode  = UseNone,%
5058   pdfstartpage = 1}
5059 \AtEndOfClass{%
5060   \AtBeginDocument{%
5061     \hypersetup{%
5062       pdfauthor   = \@firstname~\@familyname,%
5063       pdftitle    = \@title,%
5064       pdfsubject  = \@firstname~\@familyname,%
5065       pdfkeywords = \@resumename~\@firstname~\@familyname}}
5066   \urlstyle{tt}
5067   \RequirePackage{fancyhdr}
5068   \fancypagestyle{plain}{%
5069     \renewcommand{\headrulewidth}{0pt}
5070     \renewcommand{\footrulewidth}{0pt}
5071     \fancyhf{}}
5072   \pagestyle{plain}
5073   \setlength\lineskip{1\p@}
5074   \setlength\normallineskip{1\p@}
5075   \renewcommand\baselinestretch{}
5076   \setlength{\parindent}{0pt}
5077   \setlength{\parskip}{0pt}
5078   \setlength\columnsep{10\p@}
5079   \setlength\columnseprule{0\p@}
5080   \pagestyle{empty}
5081   \pagenumbering{arabic}
5082   \raggedbottom
5083   \onecolumn
5084   \providecommand*\listitemsymbol{\textbullet}
5085   \providecommand*\addresssymbol{}
5086   \providecommand*\mobilesymbol{\Mobilefone}
5087   \providecommand*\phonesymbol{\Telefon}

```



```

5088 \providecommand*{\faxsymbol}{\FAX}
5089 \providecommand*{\emailsymbol}{\Letter}
5090 \definecolor{firstnamecolor}{rgb}{0,0,0}
5091 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5092 \def\familynamcolour#1{\gdef\@familynamcolour{\addfontfeature{Color=#1}}}
5093 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5094 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5095 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5096 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5097 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5098 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5099 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5100 \providecommand*{\firstnamefont}{}
5101 \providecommand*{\familynamefont}{}
5102 \providecommand*{\titlefont}{}
5103 \providecommand*{\addressfont}{}
5104 \providecommand*{\quotefont}{}
5105 \providecommand*{\sectionfont}{}
5106 \providecommand*{\subsectionfont}{}
5107 \providecommand*{\hintfont}{\small}
5108 \providecommand*{\firstnamesstyle}[1]{\{\@firstnamefont\@firstnamecolour#1}}
5109 \providecommand*{\familynamesstyle}[1]{\{\@familynamefont\@familynamecolour#1}}
5110 \providecommand*{\titlesstyle}[1]{\{\@titlefont\@titlecolour#1}}
5111 \providecommand*{\addresstyle}[1]{\{\@addressfont\@addresscolour#1}}
5112 \providecommand*{\quotestyle}[1]{\{\@quotefont\@quotecolour#1}}
5113 \providecommand*{\sectionstyle}[1]{\{\@sectionfont\@sectiontitlecolour#1}}
5114 \providecommand*{\subsectionstyle}[1]{\{\@subsectionfont\@subsectioncolour#1}}
5115 \providecommand*{\hintstyle}[1]{\{\@hintfont\@hintcolour#1}}
5116 \newcommand*{\cvtheme}[2][]{
5117   \def\@cvtheme{#2}
5118   \def\@cvthemeoptions{#1}}
5119 \cvtheme{bidi-casual}
5120 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5121 \newcommand*{\resumename}[1]{\def\@resumename{#1}}
5122 \newcommand*{\firstname}[1]{\def\@firstname{#1}}
5123 \newcommand*{\familyname}[1]{\def\@familyname{#1}}
5124 \renewcommand*{\title}[1]{\def\@title{#1}}
5125 \newcommand*{\address}[1]{\def\@address{#1}}
5126 \newcommand*{\mobile}[1]{\def\@mobile{#1}}
5127 \newcommand*{\phone}[1]{\def\@phone{#1}}
5128 \renewcommand*{\fax}[1]{\def\@fax{#1}}
5129 \newcommand*{\email}[1]{\def\@email{#1}}
5130 \newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
5131 \def\@photowidth{0pt}
5132 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5133 \newcommand*{\quote}[1]{\def\@quote{#1}}
5134 \newlength{\quotewidth}
5135 \newlength{\hintscolumnwidth}
5136 \newlength{\separatorcolumnwidth}
5137 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5138 \newlength{\maincolumnwidth}
5139 \newlength{\doubleitemmaincolumnwidth}
5140 \newlength{\listitemsymbolwidth}
5141 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}~}

```



```

5142 \newlength{\listitemmaincolumnwidth}
5143 \newlength{\listdoubleitemmaincolumnwidth}
5144 \newcommand*{\recomputethemelengths}{%
5145 \newcommand*{\recomputelengths}{%
5146 \setlength{\quotewidth}{0.65\textwidth}%
5147 \setlength{\maincolumnwidth}{\textwidth}%
5148 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5149 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5150 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5151 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5152 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5153 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5154 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5155 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5156 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5157 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5158 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5159 \renewcommand{\headwidth}{\textwidth}%
5160 \recomputethemelengths}
5161 \setlength{\hintscolumnwidth}{0.15\textwidth}
5162 \recomputelengths
5163 \title{}
5164 \renewcommand*{\maketitle}{}
5165 \newcommand*{\section}[1]{%
5166 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5167 \phantomsection}%
5168 \addcontentsline{toc}{part}{#1}%
5169 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5170 \hspace{\separatorcolumnwidth}%
5171 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\}[1ex]}
5172 \newcommand*{\subsection}[1]{%
5173 \cvline[0.45em]{\subsectionstyle{#1}}%
5174 \newcommand*{\cvline}[3][.25em]{%
5175 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5176 \bidi@raggedleft\hintfont{#2} &{#3}%
5177 \end{tabular}}\}[#1]}
5178 \newcommand*{\cvdoubleitem}[4]{%
5179 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5180 \hfill%
5181 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{
5182 \newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
5183 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}%
5184 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
5185 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5186 \hfill%
5187 \ifthenelse{\equal{#3}{}}{
5188 {}%
5189 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}{
5190 \newcommand*{\cventry}[6]{%
5191 \cvline{#1}{%
5192 {\bfseries#2}%
5193 \ifx#3\else{, {\slshape#3}}\fi%
5194 \ifx#4\else{, #4}\fi%
5195 \ifx#5\else{, #5}\fi%

```





```

5196 .%
5197 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5198 }}%
5199 \newcommand*{\cvlanguage}[3]{%
5200 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}\textbf{#3}\end{minipage}}
5201 \newcommand*{\cvcomputer}[4]{%
5202 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5203 \newcommand*{\link}[2][]{%
5204 \ifthenelse{\equal{#1}{}}{%
5205 {\href{#2}{#2}}%
5206 {\href{#2}{#1}}}
5207 \newcommand*{\httplink}[2][]{%
5208 \ifthenelse{\equal{#1}{}}{%
5209 {\href{http://#2}{#2}}%
5210 {\href{http://#2}{#1}}}
5211 \newcommand*{\emailink}[2][]{%
5212 \ifthenelse{\equal{#1}{}}{%
5213 {\href{mailto:#2}{#2}}%
5214 {\href{mailto:#2}{#1}}}
5215 \newif\if@displaypagenumbers\@displaypagenumberstrue
5216 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5217 \AtBeginDocument{%
5218 \if@displaypagenumbers%
5219 \ifundefined{r@lastpage}{\%
5220 \ifthenelse{\pageref{lastpage} > 1}{%
5221 \fancypagestyle{plain}{%
5222 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pagestyle{plain}}}%
5223 \pagestyle{plain}}}%
5224 \AtEndDocument{\label{lastpage}}%
5225 \fi}
5226 \newlength{\bibindent}
5227 \setlength{\bibindent}{1.5em}
5228 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5229 \newenvironment{thebibliography}[1]{%
5230 {%
5231 \section{\refname}%
5232 \small%
5233 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5234 \bidi@thebibliography@font@hook%
5235 \begin{list}{\bibliographyitemlabel}%
5236 {%
5237 \setlength{\topsep}{0pt}%
5238 \setlength{\labelwidth}{\hintscolumnwidth}%
5239 \setlength{\labelsep}{\separatorcolumnwidth}%
5240 \leftmargin\labelwidth%
5241 \advance\leftmargin\labelsep%
5242 \@openbib@code%
5243 \usecounter{enumiv}%
5244 \let\p@enumiv\@empty%
5245 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5246 \sloppy\clubpenalty4000\widowpenalty4000%
5247 }%
5248 {%
5249 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%

```



```

5250 \end{list}%
5251 }
5252 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5253 \let\@openbib@code\@empty

```

## 51 File bidi-perpage.sty

```

5254 \NeedsTeXFormat{LaTeX2e}
5255 \ProvidesPackage{bidi-perpage}[2025/09/15 v0.5 Reset counter(s) on every page]
5256 \newcommand*\bidi@checkvlist{%
5257 \ifcase
5258 \ifvmode
5259 \ifx\lastnodetype\bidi@undefined
5260 \ifdim-\@m\p@=\prevdepth
5261 \ifdim\lastskip=\z@
5262 \ifnum\lastpenalty=\z@
5263 \@ne
5264 \fi
5265 \fi
5266 \fi
5267 \else
5268 \ifnum\lastnodetype=\m@ne
5269 \@ne
5270 \fi
5271 \fi
5272 \fi
5273 \z@
5274 \or
5275 \PackageWarning{bidi-perpage}{%
5276 '\string\stepcounter' is probably at the beginning of vertical
5277 list.
5278 You may need to use '\string\leavevmode' before it to avoid
5279 vertical shifts%
5280 }%
5281 \fi
5282 }
5283 \newcount\bidi@page@count
5284 \bidi@page@count\@ne
5285 \newcommand*\ResetCounterPerPage}[2][\z@]{%
5286 \if@bidi@csundef\bidi@stepcounterhook@@#2}{%
5287 \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{}%
5288 }{}%
5289 \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5290 \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5291 }{}%
5292 \if@bidi@csundef\bidi@#2@count}{%
5293 \expandafter\newcount\csname bidi@#2@count\endcsname
5294 }{}%
5295 \csname bidi@#2@count\endcsname\z@
5296 \if@bidi@csundef\bidi@previous@page@@#2@count}{%
5297 \expandafter\newcount\csname
5298 bidi@previous@page@@#2@count\endcsname
5299 }{}%
5300 \csname bidi@previous@page@@#2@count\endcsname\z@

```



```

5301 \if@bidi@csundef{bidi@reset@#2@perpage}{%
5302   \bidi@AfterEndDocumentCheckLabelsRerun{%
5303     \csname if@bidi@reset@#2@rerun\endcsname
5304       \PackageWarningNoLine{bidi-perpage}{%
5305         Counter `#2' may not have been reset per page.
5306         Rerun to reset counter `#2' per page%
5307       }%
5308     \fi
5309   }%
5310 }{}%
5311 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5312   \global\advance\csname bidi@#2@count\endcsname\@ne
5313   \if@filesw
5314     \edef\@tempa{%
5315       \write\@auxout{%
5316         \string\bidi@counter@page{#2}%
5317         {\number\csname bidi@#2@count\endcsname}%
5318         {\noexpand\number\noexpand\bidi@page@count}%
5319       }%
5320     }%
5321     \bidi@checkvlist
5322     \dimen@=\lastkern
5323     \ifdim\dimen@=\z@
5324       \else
5325         \unkern
5326       \fi
5327     \count@=\lastpenalty
5328     \@tempa
5329     \ifdim\dimen@=\z@
5330       \penalty
5331       \ifnum\count@<\@M
5332         \@M
5333       \else
5334         \count@
5335       \fi
5336     \else
5337       \kern\dimen@
5338     \fi
5339   \fi
5340 \begingroup\expandafter\expandafter\expandafter\endgroup
5341 \expandafter\ifx\csname bidi@#2@@\number\csname
5342   bidi@#2@count\endcsname\endcsname\relax
5343   \global\csname @bidi@reset@#2@reruntrue\endcsname
5344 \else
5345   \global\csname @bidi@reset@#2@rerunfalse\endcsname
5346   \expandafter\@tempcnta\csname bidi@#2@@\number
5347   \csname bidi@#2@count\endcsname\endcsname\relax
5348   \ifnum\@tempcnta=\csname
5349     bidi@previous@page@@#2@count\endcsname
5350   \else
5351     \global\csname
5352       bidi@previous@page@@#2@count\endcsname\@tempcnta
5353     \global\csname c@#2\endcsname#1\relax
5354   \fi

```



```

5355 \fi
5356 }%
5357 \expandafter\bidigappto\csname
5358 bidi@stepcounterhook@#2\endcsname{%
5359 \csname bidi@reset@#2@perpage\endcsname
5360 }%
5361 }
5362 \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@#2-#3}
5363 \bidi@AtEndOutputPage{%
5364 \global\advance\bidi@page@count\@ne
5365 }

```

## 52 File biditools.sty

```

5366 \NeedsTeXFormat{LaTeX2e}
5367 \ProvidesPackage{biditools}[2025/02/02 v2.7 Programming tools for bidi package]
5368 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5369 \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5370 \ifx\@tempa\@tempb \global\let#2#1%
5371 \else
5372 \edef\@tempb{\meaning#2}%
5373 \ifx\@tempa\@tempb
5374 \else
5375 \@latex@error{Unable to properly define \string#2; primitive
5376 \noexpand#1no longer primitive}\@eha
5377 \fi
5378 \fi
5379 \endgroup}
5380 \newtoks\@bidi@envbody
5381 \newtoks\@bidi@emptytoks
5382 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5383 \def\bidi@collect@body#1{%
5384 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5385 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5386 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5387 \begingroup
5388 \expandafter\let\csname\@currentvir\endcsname\bidi@collect@body
5389 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5390 \bidi@process@envbody
5391 }
5392 \def\bidi@push@begins#1\begin#2{%
5393 \ifx\end#2\else b\expandafter\bidi@push@begins\fi
5394 }
5395 \def\bidi@collect@@body#1\end#2{%
5396 \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack
5397 \ifx\@empty\begin@bidi@stack
5398 \endgroup
5399 \@checkend{#2}%
5400 \bidi@addto@envbody{#1}%
5401 \else
5402 \bidi@addto@envbody{#1\end{#2}}%
5403 \fi
5404 \bidi@process@envbody % A little tricky! Note the grouping
5405 }

```



```

5406 \long\def\bidid@addto@long@envbody#1{\global\@bidid@envbody\expandafter{\the\@bidid@envbody#1}}%
5407 \long\def\bidid@collect@long@body#1{%
5408   \@bidid@envbody{\expandafter#1\expandafter{\the\@bidid@envbody}}}%
5409   \edef\bidid@process@envbody{\the\@bidid@envbody\noexpand\end{\@currentvir}}}%
5410   \@bidid@envbody\@bidid@emptytoks \def\begin@bidid@stack{b}%
5411   \begingroup
5412   \expandafter\let\csname\@currentvir\endcsname\bidid@collect@long@@body
5413   \edef\bidid@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5414   \bidid@process@envbody
5415 }
5416 \long\def\bidid@push@long@begins#1\begin#2{%
5417   \ifx\end#2\else b\expandafter\bidid@push@long@begins\fi
5418 }
5419 \long\def\bidid@collect@long@@body#1\end#2{%
5420   \edef\begin@bidid@stack{\bidid@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidid@stack}
5421   \ifx\@empty\begin@bidid@stack
5422     \endgroup
5423     \@checkend{#2}%
5424     \bidid@addto@long@envbody{#1}%
5425   \else
5426     \bidid@addto@long@envbody{#1\end{#2}}%
5427   \fi
5428   \bidid@process@envbody % A little tricky! Note the grouping
5429 }
5430 \long\def\bidid@new@ifnextchar#1#2#3{%
5431   \let\reserved@d= #1%
5432   \def\reserved@a{#2}\def\reserved@b{#3}%
5433   \futurelet\@let@token\bidid@new@ifnch
5434 }
5435 \def\bidid@new@ifnch{%
5436   \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5437   \reserved@b
5438 }
5439 \def\bidid@matrix@check#1{%
5440   \expandafter\ifx\csname\@currentvir\endcsname#1%
5441   \else\bidid@matrix@error#1%
5442     \expandafter\@gobble
5443   \fi
5444 }
5445 \def\bidid@matrix@error#1{%
5446   \PackageError{biditools}{%
5447     Old form '\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5448   }{%
5449     '\string#1{...}' is old bidi package syntax whose use is
5450     ill-advised in the old versions of bidi package.%
5451   }%
5452 }
5453 \def\eqnewif#1#2{%
5454   \count@\escapechar \escapechar\m@ne
5455   \let#1\iffalse
5456   \let#2\iffalse
5457   \eq@if#1#2\iftrue
5458   \eq@if#1#2\iffalse
5459   \escapechar\count@}

```



```

5460 \def\eq@if#1#2#3{%
5461   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5462     \expandafter@gobbletwo\string#3\endcsname
5463     {\let#1#3%
5464      \let#2#3}%
5465   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5466     \expandafter@gobbletwo\string#3\endcsname
5467     {\let#2#3%
5468      \let#1#3}}
5469 \def\noteqnewif#1#2{%
5470   \count@\escapechar \escapechar\m@ne
5471   \let#1\iffalse
5472   \let#2\iffalse
5473   \not@eq@if#1#2\iftrue\iffalse
5474   \escapechar\count@}
5475 \def\not@eq@if#1#2#3#4{%
5476   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5477     \expandafter@gobbletwo\string#3\endcsname
5478     {\let#1#3%
5479      \let#2#4}%
5480   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5481     \expandafter@gobbletwo\string#4\endcsname
5482     {\let#1#4%
5483      \let#2#3}%
5484   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5485     \expandafter@gobbletwo\string#3\endcsname
5486     {\let#2#3%
5487      \let#1#4}%
5488   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5489     \expandafter@gobbletwo\string#4\endcsname
5490     {\let#2#4%
5491      \let#1#3}}
5492 \newcommand*\SetBoolean}[2]{%
5493   \lowercase{\def\@tempa{#2}}%
5494   \@ifundefined{@tempwa\@tempa}%
5495     {\PackageError{biditools}%
5496      {You can only set a boolean to `true' or `false'}\@ehc}%
5497     {\@ifundefined{#1\@tempa}%
5498      {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5499      {\csname#1\@tempa\endcsname}}}
5500 \newcommand*\GlobalSetBoolean}[2]{%
5501   \lowercase{\def\@tempa{#2}}%
5502   \@ifundefined{@tempwa\@tempa}%
5503     {\PackageError{biditools}%
5504      {You can only set a boolean to `true' or `false'}\@ehc}%
5505     {\@ifundefined{#1\@tempa}%
5506      {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5507      {\global\csname#1\@tempa\endcsname}}}
5508 \newcommand*\SetatBoolean}[2]{%
5509   \lowercase{\def\@tempa{#2}}%
5510   \@ifundefined{@tempwa\@tempa}%
5511     {\PackageError{biditools}%
5512      {You can only set a boolean to `true' or `false'}\@ehc}%
5513     {\@ifundefined{@#1\@tempa}%

```



```

5514     {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5515     {\csname @#1\@tempa\endcsname}}
5516 \newcommand*{\GlobalSetatBoolean}[2]{%
5517   \lowercase{\def\@tempa{#2}}%
5518   \@ifundefined{\@tempa\@tempa}%
5519   {\PackageError{biditools}%
5520     {You can only set a boolean to `true' or `false'}\@ehc}%
5521   {\@ifundefined{\@#1\@tempa}%
5522     {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5523     {\global\csname @#1\@tempa\endcsname}}}
5524 \def\@bidi@removefromreset#1#2{%
5525   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5526   \def\@elt##1{%
5527     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5528     \else
5529       \noexpand\@elt{##1}%
5530     \fi}%
5531   \expandafter\xdef\csname cl@#2\endcsname{%
5532     \csname cl@#2\endcsname}}
5533 \newcommand*{\ifRtoL}{%
5534   \if@RTL
5535     \expandafter\@firstoftwo
5536   \else
5537     \expandafter\@secondoftwo
5538   \fi}
5539 \newcommand*{\ifLtoR}{%
5540   \if@RTL
5541     \expandafter\@secondoftwo
5542   \else
5543     \expandafter\@firstoftwo
5544   \fi}
5545 \newcommand*{\ifRtoLtable}{%
5546   \if@RTLtab
5547     \expandafter\@firstoftwo
5548   \else
5549     \expandafter\@secondoftwo
5550   \fi}
5551 \newcommand*{\ifLtoRtable}{%
5552   \if@RTLtab
5553     \expandafter\@secondoftwo
5554   \else
5555     \expandafter\@firstoftwo
5556   \fi}
5557 \newcommand*{\ifRtoLhboxconstruct}{%
5558   \if@hboxRconstruct
5559     \expandafter\@firstoftwo
5560   \else
5561     \expandafter\@secondoftwo
5562   \fi}
5563 \newcommand*{\ifLtoRhboxconstruct}{%
5564   \if@hboxRconstruct
5565     \expandafter\@secondoftwo
5566   \else
5567     \expandafter\@firstoftwo

```



```

5568 \fi}
5569 \newcommand*{\iflatin}{%
5570 \if@nonlatin
5571 \expandafter\@secondoftwo
5572 \else
5573 \expandafter\@firstoftwo
5574 \fi}
5575 \newcommand*{\ifnonlatin}{%
5576 \if@nonlatin
5577 \expandafter\@firstoftwo
5578 \else
5579 \expandafter\@secondoftwo
5580 \fi}
5581
5582 \newcommand*{\bidi@@convert@dimen@t@unit}[2]{%
5583 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5584
5585 \newcommand*{\bidi@@convert@dimen@t@pt}[1]{%
5586 \dimexpr #1*65536/\dimexpr 1pt\relax}
5587
5588 \newcommand*{\IfPackageVersionAtLeastTF}[1]{%
5589 \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5590 }
5591 \newcommand*{\@if@ver@pkg@least}[2]{%
5592 \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5593 \expandafter\@secondoftwo
5594 \else
5595 \expandafter\@firstoftwo
5596 \fi
5597 }
5598 \newcommand*{\bidi@parse@ver@}[1]{\bidi@parse@ver0#1}
5599 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5600 \if\relax#2\relax\else#1\fi#2#3#4
5601 }
5602 \newcommand*{\IfPackageVersionAtMostTF}[1]{%
5603 \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5604 }
5605 \newcommand*{\@if@ver@pkg@most}[2]{%
5606 \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5607 \expandafter\@secondoftwo
5608 \else
5609 \expandafter\@firstoftwo
5610 \fi
5611 }
5612 \newcommand*{\IfPackageVersionTF}[1]{%
5613 \expandafter\@if@ver@pkg@\csname #1@version\endcsname
5614 }
5615 \newcommand*{\@if@ver@pkg@}[2]{%
5616 \ifnum\expandafter\bidi@parse@ver@#100\@nil=\expandafter\bidi@parse@ver@#200\@nil
5617 \expandafter\@firstoftwo
5618 \else
5619 \expandafter\@secondoftwo
5620 \fi
5621 }

```





```

5622
5623 \newcommand*{\if@bidi@csdef}[1]{%
5624   \ifcsname#1\endcsname
5625     \expandafter\@firstoftwo
5626   \else
5627     \expandafter\@secondoftwo
5628   \fi}
5629 \newcommand*{\if@bidi@csundef}[1]{%
5630   \ifcsname#1\endcsname
5631     \expandafter\ifx\csname#1\endcsname\relax
5632       \expandafter\expandafter
5633       \expandafter\@firstoftwo
5634     \else
5635       \expandafter\expandafter
5636       \expandafter\@secondoftwo
5637     \fi
5638   \else
5639     \expandafter\@firstoftwo
5640   \fi}
5641 \newcommand{\if@bidi@def}[1]{%
5642   \ifdefined#1%
5643     \expandafter\@firstoftwo
5644   \else
5645     \expandafter\@secondoftwo
5646   \fi}
5647 \newcommand{\if@bidi@undef}[1]{%
5648   \ifdefined#1%
5649     \ifx#1\relax
5650       \expandafter\expandafter
5651       \expandafter\@firstoftwo
5652     \else
5653       \expandafter\expandafter
5654       \expandafter\@secondoftwo
5655     \fi
5656   \else
5657     \expandafter\@firstoftwo
5658   \fi}
5659 \newcommand{\if@bidi@blank}[1]{% from url.sty
5660   \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5661 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5662 \newcommand{\bidi@notblank}[1]{%
5663   \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5664 \newcommand{\if@bidi@defmacro}{%
5665 \long\edef\if@bidi@defmacro#1{%
5666   \noexpand\expandafter\noexpand\bidi@ifdefmacro
5667   \noexpand\meaning#1\detokenize{macro}:&}
5668 \edef\bidi@ifdefmacro{%
5669   \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&
5670   \bidi@ifdefmacro{\bidi@notblank{#2}}
5671 \newcommand*{\if@bidi@csmacro}[1]{%
5672   \if@bidi@csdef{#1}
5673     {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5674     {\@secondoftwo}}
5675 \newcommand{\if@bidi@defprimitive}[1]{%

```



```

5676 \ifprimitive#1%
5677 \expandafter\@firstoftwo
5678 \else
5679 \expandafter\@secondoftwo
5680 \fi}
5681 \newcommand{\if@bidi@csprimitive}[1]{%
5682 \begingroup\expandafter\expandafter\expandafter\endgroup%
5683 \expandafter\ifprimitive\csname#1\endcsname%
5684 \expandafter\@firstoftwo
5685 \else
5686 \expandafter\@secondoftwo
5687 \fi}
5688 \newcommand*{\bidi@csdefcs}[2]{%
5689 \expandafter\@ifdefinable \csname#1\endcsname{%
5690 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5691 \newcommand*{\bidi@csletcs}[2]{%
5692 \expandafter\@ifdefinable \csname#1\endcsname{%
5693 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}
5694 \newcommand*{\bidi@cslet}[2]{%
5695 \expandafter\@ifdefinable \csname#1\endcsname{%
5696 \expandafter\let\csname#1\endcsname#2}}
5697 \newcommand{\bidi@namelongdef}[1]{%
5698 \long\expandafter\def\csname #1\endcsname}
5699 \newcommand{\bidi@namelonggdef}[1]{%
5700 \long\expandafter\gdef\csname #1\endcsname}
5701 \newcommand{\bidi@namelongedef}[1]{%
5702 \long\expandafter\edef\csname #1\endcsname}
5703 \newcommand{\bidi@namelongxdef}[1]{%
5704 \long\expandafter\xdef\csname #1\endcsname}
5705 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5706 \def\bidi@ensure@new@command#1{%
5707 \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5708 \expandafter\if@bidi@csundef\@gtempa
5709 {\new@command#1}{\relax%
5710 \let\@ifdefinable\@rc@ifdefinable%
5711 \new@command#1}}
5712 \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5713
5714 \protected\def\bidi@error{\PackageError{bidi}}
5715 \protected\def\bidi@warning{\PackageWarning{bidi}}
5716 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5717 \protected\def\bidi@info{\PackageInfo{bidi}}
5718
5719 \def\bidi@pos#1#2#3#4{\bidi@namegdef{bidi@#1pos@#2@#3}{#4}}
5720
5721 \newcount\bidi@poscount
5722
5723 \newcommand*{\WriteStartXPostoaux}{%
5724 \global\advance\bidi@poscount\@ne
5725 \edef\@tempa{%
5726 \write\@auxout{%
5727 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx}
5728 }%
5729 }%

```



```

5730 \ifvmode
5731 \leavevmode
5732 \fi
5733 \if@RTL
5734 \if@filesw
5735 \@tempa
5736 \fi
5737 \pdfsavepos
5738 \else
5739 \pdfsavepos
5740 \if@filesw
5741 \@tempa
5742 \fi
5743 \fi
5744 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5745 \PackageWarningNoLine{biditools}{%
5746 The start x position ` \number\bidi@poscount' is not known yet.
5747 Rerun to get this x position%
5748 }%
5749 }{}%
5750 }
5751
5752 \newcommand*{\WriteEndXPostoaux}{%
5753 \edef\@tempa{%
5754 \write\@auxout{%
5755 \string\bidi@pos{x}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
5756 }%
5757 }%
5758 \if@RTL
5759 \if@filesw
5760 \@tempa
5761 \fi
5762 \pdfsavepos
5763 \else
5764 \pdfsavepos
5765 \if@filesw
5766 \@tempa
5767 \fi
5768 \fi
5769 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5770 \PackageWarningNoLine{biditools}{%
5771 The end x position ` \number\bidi@poscount' is not known yet.
5772 Rerun to get this x position%
5773 }%
5774 }{}%
5775 }
5776
5777 \newcommand*{\WriteStartYPostoaux}{%
5778 \global\advance\bidi@poscount\@ne
5779 \edef\@tempa{%
5780 \write\@auxout{%
5781 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty
5782 }%
5783 }%

```



```

5784 \ifvmode
5785 \leavevmode
5786 \fi
5787 \if@RTL
5788 \if@filesw
5789 \@tempa
5790 \fi
5791 \pdfsavepos
5792 \else
5793 \pdfsavepos
5794 \if@filesw
5795 \@tempa
5796 \fi
5797 \fi
5798 \if@bidi@csundef{bidi@ypos@@start@number\bidi@poscount}{%
5799 \PackageWarningNoLine{biditools}{%
5800 The start y position `number\bidi@poscount' is not known yet.
5801 Rerun to get this y position%
5802 }%
5803 }{}%
5804 }
5805
5806 \newcommand*{\WriteEndYPostoaux}{%
5807 \edef\@tempa{%
5808 \write\@auxout{%
5809 \string\bidi@pos{y}{end}{number\bidi@poscount}{noexpand\number\noexpand\pdflasty
5810 }%
5811 }%
5812 \if@RTL
5813 \if@filesw
5814 \@tempa
5815 \fi
5816 \pdfsavepos
5817 \else
5818 \pdfsavepos
5819 \if@filesw
5820 \@tempa
5821 \fi
5822 \fi
5823 \if@bidi@csundef{bidi@ypos@@end@number\bidi@poscount}{%
5824 \PackageWarningNoLine{biditools}{%
5825 The end y position `number\bidi@poscount' is not known yet.
5826 Rerun to get this y position%
5827 }%
5828 }{}%
5829 }
5830
5831 \newcommand*{\WriteStartXYPostoaux}{%
5832 \global\advance\bidi@poscount\@ne
5833 \edef\@tempa{%
5834 \write\@auxout{%
5835 \string\bidi@pos{x}{start}{number\bidi@poscount}{noexpand\number\noexpand\pdflastx
5836 }%
5837 \write\@auxout{%

```



```

5838     \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5839   }%
5840 }%
5841 \ifvmode
5842   \leavevmode
5843 \fi
5844 \if@RTL
5845   \if@filesw
5846     \@tempa
5847 \fi
5848 \pdfsavepos
5849 \else
5850 \pdfsavepos
5851 \if@filesw
5852   \@tempa
5853 \fi
5854 \fi
5855 \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5856   \PackageWarningNoLine{biditools}{%
5857     The start x position ``\number\bidiposcount' is not known yet.
5858     Rerun to get this x position%
5859   }%
5860 }{}%
5861 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5862   \PackageWarningNoLine{biditools}{%
5863     The start y position ``\number\bidiposcount' is not known yet.
5864     Rerun to get this y position%
5865   }%
5866 }{}%
5867 }
5868
5869 \newcommand*{\WriteEndXYPostoaux}{%
5870   \edef\@tempa{%
5871     \write\@auxout{%
5872       \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5873     }%
5874     \write\@auxout{%
5875       \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty
5876     }%
5877   }%
5878 \if@RTL
5879   \if@filesw
5880     \@tempa
5881 \fi
5882 \pdfsavepos
5883 \else
5884 \pdfsavepos
5885 \if@filesw
5886   \@tempa
5887 \fi
5888 \fi
5889 \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
5890   \PackageWarningNoLine{biditools}{%
5891     The end x position ``\number\bidiposcount' is not known yet.

```



```

5892         Rerun to get this x position%
5893     }%
5894 }{}%
5895 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5896     \PackageWarningNoLine{biditools}{%
5897         The end y position ` \number\bidi@poscount' is not known yet.
5898         Rerun to get this y position%
5899     }%
5900 }{}%
5901 }
5902
5903 \newcommand*{\currentposxwidth}{%
5904     \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{\z@}
5905     {%
5906         \ifnum\csname bidi@xpos@@start@\number\bidi@poscount
5907             \endcsname < \csname bidi@xpos@@end@\number\bidi@poscount
5908             \endcsname
5909             \dimexpr \csname bidi@xpos@@end@\number\bidi@poscount
5910             \endcsname sp - \csname bidi@xpos@@start@\number\bidi@poscount
5911             \endcsname sp\relax
5912         \else
5913             \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5914             \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
5915             \endcsname sp\relax
5916         \fi
5917     }%
5918 }
5919
5920 \newcommand*{\currentposyheight}{%
5921     \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5922     {%
5923         \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5924         \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5925         \endcsname sp\relax
5926     }%
5927 }
5928
5929
5930
5931 \newcommand*{\setbaselineskip}[1]{%
5932     \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5933     \selectfont
5934 }
5935
5936
5937 \newcommand*{\bidi@newrobustcmd}{%
5938     \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5939
5940     \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5941
5942     \def\bidi@newcommand#1[#2]{%
5943         \@ifnextchar[%
5944             {\bidi@xargdef#1[#2]}
5945             {\ifx\longrel@x\relax

```



```

5946     \let\l@ngrel@x\protected
5947     \else
5948         \protected\def\l@ngrel@x{\protected\long}%
5949     \fi
5950     \@argdef#1[#2]}}
5951
5952 \long\def\bidixargdef#1[#2][#3]#4{%
5953     \ifdefinable#1{%
5954         \expandafter\protected
5955         \expandafter\def
5956         \expandafter#1%
5957         \expandafter{%
5958             \expandafter\@testopt
5959             \csname\string#1\endcsname{#3}}%
5960         \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}
5961
5962 \bidinewrobustcmd*{\bidirenewrobustcmd}{\@star@or@long\bidirenew@command}
5963
5964 \def\bidirenew@command#1{%
5965     \if@bidi@undef{#1}
5966         {\biderror{\string#1 undefined}\@ehc}
5967     {}%
5968     \let\@ifdefinable\@rc@ifdefinable
5969     \bidinew@command#1}
5970
5971
5972
5973 \bidinewrobustcmd*{\bidiproviderobustcmd}{\@star@or@long\bidiprovide@command}
5974
5975 \def\bidiprovide@command#1{%
5976     \if@bidi@undef{#1}
5977         {\def\reserved@a{\bidinew@command#1}}
5978         {\def\reserved@a{\bidirenew@command\reserved@a}}%
5979     \reserved@a}
5980
5981 \newcommand*{\bidicsuse}[1]{%
5982     \ifcsname#1\endcsname
5983         \csname#1\expandafter\endcsname
5984     \fi}
5985
5986 \newcommand{\bidixpandonce}[1]{%
5987     \unexpanded\expandafter{#1}}
5988
5989 \def\bidiprotected{%
5990     \let\@protect\protect
5991     \let\protect\@unexpandable@protect
5992     \afterassignment\restore@protect}
5993
5994 \bidinewrobustcmd{\bidiappto}[2]{%
5995     \if@bidi@undef{#1}
5996         {\edef#1{\unexpanded{#2}}}
5997         {\edef#1{\bidixpandonce#1\unexpanded{#2}}}}
5998 \bidinewrobustcmd{\bidiappto}[2]{%
5999     \if@bidi@undef{#1}

```



```

6000     {\edef#1{#2}}
6001     {\edef#1{\bidi@expandonce#1#2}}
6002 \bidi@newrobustcmd{\bidi@gappto}[2]{%
6003   \if@bidi@undef{#1}
6004     {\xdef#1{\unexpanded{#2}}}
6005     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}
6006 \bidi@newrobustcmd{\bidi@xappto}[2]{%
6007   \if@bidi@undef{#1}
6008     {\xdef#1{#2}}
6009     {\xdef#1{\bidi@expandonce#1#2}}
6010
6011 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
6012 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
6013
6014
6015
6016 \bidi@newrobustcmd{\bidi@preto}[2]{%
6017   \if@bidi@undef{#1}
6018     {\edef#1{\unexpanded{#2}}}
6019     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}
6020 \bidi@newrobustcmd{\bidi@epreto}[2]{%
6021   \if@bidi@undef{#1}
6022     {\edef#1{#2}}
6023     {\edef#1{#2\bidi@expandonce#1}}
6024 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
6025   \if@bidi@undef{#1}
6026     {\xdef#1{\unexpanded{#2}}}
6027     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}
6028 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
6029   \if@bidi@undef{#1}
6030     {\xdef#1{#2}}
6031     {\xdef#1{#2\bidi@expandonce#1}}
6032
6033 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
6034 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
6035
6036
6037
6038 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
6039 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
6040 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
6041 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
6042 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
6043 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
6044
6045
6046
6047 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6048 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
6049 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
6050 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6051 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6052 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6053

```





```

6054
6055
6056 \bidi@newrobustcmd{\if@bidi@patchable}{%
6057   \bidi@dbg@trce\if@bidi@patchable
6058   \begingroup
6059   \@makeother\%
6060   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
6061
6062 \long\def\bidi@ifpatchable#1#2{%
6063   \endgroup
6064   \bidi@dbg@init#1%
6065   \if@bidi@undef{#1}
6066     {\bidi@dbg@fail{def}\@secondoftwo}
6067     {\bidi@dbg@info{def}%
6068       \if@bidi@defmacro{#1}
6069         {\bidi@dbg@info{mac}%
6070           \bidi@ifscanable{#1}
6071           {\bidi@ifhashcheck{#2}
6072             {\bidi@dbg@info{tok}%
6073               \bidi@ifpattern#1{#2}
6074               {\bidi@dbg@info{pat}%
6075                 \bidi@dbg@info{pos}\@firstoftwo}
6076                 {\bidi@dbg@fail{pat}\@secondoftwo}}}
6077             {\bidi@dbg@fail{hsh}\@secondoftwo}}
6078             {\bidi@dbg@fail{tok}\@secondoftwo}}
6079             {\bidi@dbg@fail{mac}\@secondoftwo}}}
6080
6081 \long\def\bidi@ifpatchable@i#1{%
6082   \endgroup
6083   \bidi@dbg@init#1%
6084   \if@bidi@undef{#1}
6085     {\bidi@dbg@fail{def}\@secondoftwo}
6086     {\bidi@dbg@info{def}%
6087       \if@bidi@defmacro{#1}
6088         {\bidi@dbg@info{mac}%
6089           \if@bidi@defparam{#1}
6090             {\bidi@dbg@info{prm}%
6091               \bidi@ifscanable{#1}
6092               {\bidi@dbg@info{tok}%
6093                 \bidi@dbg@info{pos}\@firstoftwo}
6094                 {\bidi@dbg@fail{tok}\@secondoftwo}}}
6095             {\bidi@dbg@info{prl}%
6096               \if@bidi@defprotected{#1}
6097                 {\bidi@dbg@info{pro}
6098                  {}}%
6099               \bidi@dbg@info{pos}\@firstoftwo}}
6100             {\bidi@dbg@fail{mac}\@secondoftwo}}}
6101
6102 \bidi@newrobustcmd*{\bidi@patchcmd}{%
6103   \bidi@dbg@trce\bidi@patchcmd
6104   \begingroup
6105   \@makeother\%
6106   \bidi@@patchcmd}
6107

```



```

6108 \newcommand{\bidi@patchcmd}[4][#####1]{%
6109   \bidi@ifpatchable#2{#3}
6110     {\bidi@dbg@succ{ret}}%
6111     \begingroup
6112     \edef\bidi@resrvda{%
6113       \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3{%
6114         #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3}}%
6115       \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2{%
6116         ####1\detokenize{#4}####2}%
6117       \edef\noexpand\bidi@resrvda{%
6118         \noexpand\bidi@resrvda\meaning#2}}%
6119     \bidi@resrvda
6120     \bidi@patchcmd@scantoks\bidi@resrvda
6121     \let#2\bidi@resrvda
6122     \bidi@undef\bidi@resrvda
6123     \@firstoftwo}
6124   {\@secondoftwo}}
6125
6126 \def\bidi@patchcmd@scantoks#1{%
6127   \edef\bidi@resrvda{\endgroup
6128     \unexpanded{\makeatletter\scantokens}{#1}%
6129     \catcode\number`\@=\the\catcode`\@relax}%
6130   \bidi@resrvda}
6131
6132 \protected\def\bidi@ifscanable#1{%
6133   \begingroup
6134   \edef\bidi@resrvda{%
6135     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3{%
6136       ####1\def\string\bidi@resrvda####2{####3}}%
6137     \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6138   \bidi@resrvda
6139   \makeatletter
6140   \scantokens\expandafter{\bidi@resrvda}%
6141   \expandafter\endgroup\ifx#1\bidi@resrvda
6142     \expandafter\@firstoftwo
6143   \else
6144     \expandafter\@secondoftwo
6145   \fi}
6146
6147
6148 \protected\long\def\bidi@ifhashcheck#1{%
6149   \begingroup
6150   \edef\bidi@resrvda{\detokenize{#1}}%
6151   \expandafter\endgroup
6152   \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
6153
6154 \edef\bidi@ifhashcheck@i#1{%
6155   \noexpand\expandafter
6156   \noexpand\bidi@ifhashcheck@ii
6157   \noexpand\strip@prefix#1\string#\string#&}
6158
6159 \edef\bidi@ifhashcheck@ii{%
6160   \def\noexpand\bidi@ifhashcheck@ii##1\string#\string####2%
6161   \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}

```



```

6162
6163
6164 \protected\long\def\bid@ifpattern#1#2{%
6165   \begingroup
6166   \edef\bid@resrvda{%
6167     \def\noexpand\bid@resrvda###1\detokenize{#2}###2&{%
6168       \endgroup\noexpand\noexpand\noexpand\noexpand\if@bid@blank{###2}}}%
6169   \edef\noexpand\bid@resrvda{\noexpand\bid@resrvda
6170     \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6171   \noexpand\bid@resrvda}
6172 \bid@resrvda\@secondoftwo\@firstoftwo}
6173
6174
6175 \newcommand{\if@bid@defparam}{%
6176 \long\edef\if@bid@defparam#1{%
6177   \noexpand\expandafter\noexpand\bid@ifdefparam
6178   \noexpand\meaning#1\detokenize{macro}:->&}
6179 \edef\bid@ifdefparam{%
6180   \def\noexpand\bid@ifdefparam##1\detokenize{macro}:##2->##3&}
6181 \bid@ifdefparam{\bid@notblank{#2}}
6182
6183
6184 \newcommand{\if@bid@defprotected}{%
6185 \long\edef\if@bid@defprotected#1{%
6186   \noexpand\expandafter\noexpand\bid@ifdefprotected
6187   \noexpand\meaning#1\string\protected&}
6188 \edef\bid@ifdefprotected{%
6189   \def\noexpand\bid@ifdefprotected##1\string\protected##2&}
6190 \bid@ifdefprotected{\bid@notblank{#2}}
6191
6192
6193 \bid@newrobustcmd{\bid@undef}[1]{\let#1\bid@undefined}
6194 \bid@newrobustcmd{\bid@csundef}[1]{%
6195   \expandafter\let\csname #1\endcsname\bid@undefined
6196 }
6197
6198 \let\bid@dbg@trce\@gobble
6199 \let\bid@dbg@init\@gobble
6200 \let\bid@dbg@info\@gobble
6201 \let\bid@dbg@succ\@gobble
6202 \let\bid@dbg@fail\@gobble
6203
6204
6205
6206 \bid@newrobustcmd*{\bid@apptocmd}{%
6207   \bid@dbg@trce\bid@apptocmd
6208   \begingroup
6209   \@makeother\#%
6210   \bid@hooktocmd\bid@append}
6211
6212
6213
6214 \bid@newrobustcmd*{\bid@pretocmd}{%
6215   \bid@dbg@trce\bid@pretocmd

```



```

6216 \begingroup
6217 \@makeother\#%
6218 \bidi@hooktocmd\bidi@prepend}
6219
6220 \long\def\bidi@hooktocmd#1#2#3{%
6221 \endgroup
6222 \bidi@dbg@init#2%
6223 \if@bidi@undef{#2}
6224   {\bidi@dbg@fail{def}\@secondoftwo}
6225   {\bidi@dbg@info{def}%
6226     \if@bidi@defmacro{#2}
6227       {\bidi@dbg@info{mac}%
6228         \if@bidi@defparam{#2}
6229           {\bidi@dbg@info{prm}%
6230             \bidi@ifscanable{#2}
6231               {\bidi@ifhashcheck{#3}
6232                 {\bidi@dbg@info{tok}%
6233                   \bidi@dbg@succ{ret}%
6234                   \bidi@hooktocmd@i#1#2{#3}%
6235                   \@firstoftwo}
6236                 {\bidi@dbg@fail{hsh}\@secondoftwo}}
6237               {\bidi@dbg@fail{tok}\@secondoftwo}}
6238             {\bidi@dbg@info{prl}%
6239               \if@bidi@defprotected{#2}
6240                 {\bidi@dbg@info{pro}%
6241                   \bidi@dbg@succ{red}%
6242                   \protected}
6243                 {\bidi@dbg@succ{red}}}%
6244             \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6245             \@firstoftwo}}
6246           {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6247
6248 \long\def\bidi@hooktocmd@i#1#2#3{%
6249 \begingroup
6250 \edef\bidi@resrvda{%
6251   \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6252     ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
6253   \edef\noexpand\bidi@resrvda{%
6254     \noexpand\bidi@resrvda\meaning#2&}}}%
6255 \bidi@resrvda
6256 \bidi@patchcmd@scantoks\bidi@resrvda
6257 \let#2\bidi@resrvda
6258 \bidi@undef\bidi@resrvda}
6259
6260 \long\def\bidi@append#1#2{#1#2}
6261 \long\def\bidi@prepend#1#2{#2#1}
6262
6263 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6264 %\newcommand*{\bidi@endpreamblehook}{ }
6265
6266 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6267
6268 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6269 \newcommand*{\bidi@beforeoutputpageshipout}{ }

```



```

6270
6271 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6272 \newcommand*{\bidi@beforeheaderhook}{}
6273
6274 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput
6275 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
6276
6277 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputpa
6278 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
6279
6280 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6281 \newcommand*{\bidi@beforefooterhook}{}
6282
6283 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6284 \newcommand*{\bidi@afterfooterhook}{}
6285
6286
6287 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipoutho
6288 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6289
6290 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6291 \newcommand*{\bidi@atendoutputpagehook}{}
6292
6293 %\bidi@preto\document{%
6294 % \endgroup
6295 % \let\bidi@AtEndPreamble\@firstofone
6296 % \bidi@endpreamblehook
6297 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6298 % \bidi@undef\bidi@endpreamblehook
6299 % \begingroup}
6300
6301 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6302 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6303
6304 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6305 %\newcommand*{\bidi@afterendpreamblehook}{}
6306
6307 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6308
6309 %\bidi@appto\document{%
6310 % \let\bidi@AfterEndPreamble\@firstofone
6311 % \bidi@afterendpreamblehook
6312 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6313 % \bidi@undef\bidi@afterendpreamblehook
6314 % \ignorespaces}
6315
6316 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocume
6317 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{}
6318
6319 \bidi@patchcmd\enddocument
6320 {\fi}
6321 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6322 \bidi@afterenddocumentchecklabelsrerunhook
6323 \fi}

```



```

6324 {}
6325 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6326
6327 \AtEndDocument{\let\bid@AfterEndPreamble\@gobble}
6328
6329 \bid@newrobustcmd*{\bid@AfterLastShipout}{\bid@gappto\bid@afterlastshipouthook}
6330 \newcommand*{\bid@afterlastshipouthook}{}
6331
6332 \bid@patchcmd\enddocument
6333 {\clearpage}
6334 {\clearpage
6335 \let\bid@AfterLastShipout\@firstofone
6336 \bid@afterlastshipouthook}
6337 {}
6338 {\let\bid@clearpage\clearpage
6339 \def\clearpage{%
6340 \bid@clearpage
6341 \let\bid@AfterLastShipout\@firstofone
6342 \bid@afterlastshipouthook}}
6343
6344 %\bid@newrobustcmd*{\bid@AfterEndDocument}{\bid@gappto\bid@afterenddocumenthook}
6345 %\newcommand*{\bid@afterenddocumenthook}{}
6346
6347 \bid@newrobustcmd*{\bid@AfterEndDocument}{\AddToHook{enddocument/end}}%
6348
6349 %\bid@patchcmd\enddocument
6350 % {\deadcycles}
6351 % {\let\bid@AfterEndDocument\@firstofone
6352 % \bid@afterenddocumenthook
6353 % \deadcycles}
6354 % {}
6355 % {\let\bid@@end\@end
6356 % \def\@end{%
6357 % \let\bid@AfterEndDocument\@firstofone
6358 % \bid@afterenddocumenthook
6359 % \bid@@end}}
6360
6361 \bid@newrobustcmd{\bid@AtBeginEnvironment}[1]{%
6362 \bid@csgappto{\bid@begin@#1@hook}}
6363
6364 % Patch \begin<space> and \end<space> in newer LaTeX releases
6365 % \begin and \end in older ones.
6366 \expandafter\bid@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6367 {\csname #1\endcsname}
6368 {\bid@csuse{\bid@begin@#1@hook}}%
6369 \csname #1\endcsname}
6370 {}
6371 {\bid@warning{%
6372 Patching '\string\begin' failed!\MessageBreak
6373 '\string\bid@AtBeginEnvironment' will not work\@gobble}}
6374
6375
6376
6377 \bid@newrobustcmd{\bid@AtEndEnvironment}[1]{%

```



```

6378 \bidi@csgappto{@bidi@end@#1@hook}}
6379
6380 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6381 {\csname end#1\endcsname}
6382 {\bidi@csuse{@bidi@end@#1@hook}%
6383 \csname end#1\endcsname}
6384 {}
6385 {\bidi@warning{%
6386 Patching '\string\end' failed!\MessageBreak
6387 '\string\bidi@AtEndEnvironment' will not work@gobble}}
6388
6389
6390
6391 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6392 \bidi@csgappto{@bidi@beforebegin@#1@hook}}
6393
6394 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6395 {\bidi@csuse{@bidi@beforebegin@#1@hook}}
6396 {}
6397 {\bidi@warning{%
6398 Patching '\string\begin' failed!\MessageBreak
6399 '\string\bidi@BeforeBeginEnvironment' will not work@gobble}}
6400
6401 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6402 \bidi@csgappto{@bidi@afterend@#1@hook}}
6403
6404 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6405 {\if@ignore}
6406 {\bidi@csuse{@bidi@afterend@#1@hook}%
6407 \if@ignore}
6408 {}
6409 {\bidi@warning{%
6410 Patching '\string\end' failed!\MessageBreak
6411 '\string\bidi@AfterEndEnvironment' will not work@gobble}}
6412
6413 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6414 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6415 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6416 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6417
6418 % From David Carlisle:
6419 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6420 % See also https://github.com/ho-tex/oberdiek/issues/26
6421
6422 \let\bidi@stepcounter\stepcounter
6423 \let\bidi@stpelt\@stpelt
6424
6425 \def\bidi@stpelt#1{%
6426 \ifcsname bidi@reset@#1@perpage\endcsname
6427 \begingroup
6428 \let\stepcounter\bidi@stepcounter
6429 \@bidi@stpelt{#1}%
6430 \endgroup
6431 \expandafter@gobbletwo

```



```

6432 \fi
6433 \@bidi@stpelt{#1}%
6434 }
6435
6436 \bidi@pretocmd\stepcounter
6437 {%
6438   \if@bidi@csundef\bidi@stepcounterhook@@#1}{-}{%
6439     \csname bidi@stepcounterhook@@#1\endcsname
6440   }%
6441 }-}%
6442 {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6443
6444 \chardef\bidi@backslash`\\
6445 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6446
6447 % anonymous control sequences
6448 \newcount\bidi@tempcountb
6449 \newtoks\bidi@temptoksa
6450 \newtoks\bidi@temptoksb
6451
6452 % Catcode (re)storing
6453 %
6454 \def\bidi@storecatcode#1%
6455   {\escapechar\m@ne
6456    \bidi@csarg\edef\bidi@restorecatcode\string#1}%
6457    {\catcode`\string#1=
6458     \the\catcode\expandafter`\string#1}%
6459    \catcode\expandafter`\string#1=12\relax
6460    \escapechar`\\relax}
6461 \def\bidi@restorecatcode#1%
6462   {\escapechar\m@ne
6463    \csname bidi@restorecatcode\string#1\endcsname
6464    \escapechar`\\relax}
6465
6466 % Construct a control sequence inside \edef
6467 %
6468 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6469
6470 % Construct a control sequence out of #2, and give it to #1
6471 %
6472 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6473
6474 % Pick an escapecharacter
6475 % this presumes that its argument is a character.
6476 %
6477 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6478
6479 % Equality of strings.
6480 % the fast approach: does not work in expansion-only environment.
6481 %
6482 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
6483   \ifx\bidi@eqs@a\bidi@eqs@b}
6484
6485 % Test by expansion only

```





```

6486 %
6487 \def\bid@EqualStringX#1#2{00\fi
6488     \csname if\@bid@EqualStringX#1&#2&\endcsname}
6489 \def\@bid@EqualStringX#1#2$#3#4${\ifx#1#3%
6490     \ifx#1&true\else\bid@hop@ES\@bid@EqualStringX#2$#4$\fi
6491     \else false\fi}
6492 \def\bid@hop@ES#1\fi#2\fi{\fi\fi#1}
6493
6494 % Lexicographic ordering
6495 % note the use of \def
6496 % also note the characters 0,127,255 that are used,
6497 % these are not supposed to appear in the strings
6498 %
6499 {\catcode0=12 \catcode255=12 \catcode127=12
6500 \gdef\bid@StringBeforeNC#1#2{00\fi
6501     \bid@CharsBefore#1^^@^^?#2^^ff^^?}
6502 \gdef\bid@CharsBeforeNC#1#2^^?#3#4^^?{%
6503     \ifcat#1\relax\def\bid@next{\bid@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6504     \else\ifcat#3\relax\def\bid@next{\bid@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6505     \else\ifnum\lccode`#1<\lccode`#3
6506         \def\bid@next{\csname iftrue\endcsname}%
6507     \else\ifnum\lccode`#1>\lccode`#3
6508         \def\bid@next{\csname iffalse\endcsname}%
6509     \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6510     \fi \fi \fi \fi
6511     \bid@next}
6512 \gdef\bid@StringBefore#1#2{00\fi
6513     \bid@CharsBefore#1^^@^^?#2^^ff^^?}
6514 \gdef\bid@CharsBefore#1#2^^?#3#4^^?{%
6515     \ifnum`#1<`#3
6516         \def\bid@next{\csname iftrue\endcsname}%
6517     \else\ifnum`#1>`#3
6518         \def\bid@next{\csname iffalse\endcsname}%
6519     \else\def\bid@next{\bid@CharsBefore#2^^?#4^^?}%
6520     \fi\fi
6521     \bid@next}
6522 }
6523
6524 % Null argument test
6525 %
6526 \def\bid@empty{}
6527 \def\bid@ifempty#1{00\fi\expandafter\ifx\csname bid@#1@null\endcsname\bid@null}
6528 \def\bid@ifEmptyX#1{\expandafter\ifx\csname bid@#1@null\endcsname\bid@null}
6529 %\def\bid@ifEmpty#1{\def\bid@cs@a{#1}\ifx\bid@cs@a\bid@empty}
6530 \def\bid@IsEmptyList#1{00\fi\def\bid@cs@a{#1}\ifx\cs@a\bid@empty}
6531
6532 % Next character test
6533 %
6534 \def\bid@NextChar#1#2#3{00\fi
6535     \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%
6536     \futurelet\bid@nxt@c\@bid@ifnxtc}
6537 \def\bid@ifNextChar#1#2#3{%
6538     \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%
6539     \futurelet\bid@nxt@c\@bid@ifnxtc}

```



```

6540 \def\@bidi@ifnxtc{\ifx\bidi@nxt@ch\bidi@nxt@c \expandafter\bidi@nxt@a
6541   \else \expandafter\bidi@nxt@b \fi}
6542
6543 % Test for defined-ness of string as control sequence.
6544 % works inside \edef
6545 %
6546 \def\bidi@undefinedcs#1{00\fi\bidi@csarg\ifx{#1}\relax}
6547
6548 % Define uniquely defined dummy macros,
6549 % usually to serve as bumper blocks at the end of a list
6550 %
6551 \newcount\bidi@dummies
6552 \def\DefNewDummy#1{
6553   \if\bidi@undefinedcs{#1}\bidi@csarg\edef{#1}{\bidi@dum\the\bidi@dummies}
6554     \advance\bidi@dummies\@ne
6555   \else
6556     \bidi@error{Attempt at second definition of `#1'}
6557   \fi}
6558
6559 % string case statement
6560 % use: \bidi@switch \iftest{...} in:
6561 %   item1 action1
6562 %   ...
6563 %   itemn actionn
6564 %   default defaultaction [optional]
6565 %   \endbidi@switch
6566 % inspired by Jonathan Fine: Some Basic Control Macros
6567 % Tugboat 12 #4
6568 %
6569 \let\@bidi@fi\fi \let\endbidi@switch\relax \DefNewDummy{\bidi@default}
6570 \def\bidi@switch@exit #1 \@bidi@fi #2 \endbidi@switch {\fi #1}
6571 \def\bidi@switch #1#2#3{\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6572   #1{#2}\bidi@switch@exit #3 \@bidi@fi
6573   \bidi@switch {#1}
6574 }
6575 % this version puts the test object in {}
6576 \def\bidi@oswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6577   #1{#2}\bidi@switch@exit #3 \@bidi@fi
6578   \bidi@switch #1 in:
6579 }
6580 % this version assumes that the test object is just one character
6581 \def\bidi@cswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6582   #1#2\bidi@switch@exit #3 \@bidi@fi
6583   \bidi@cswitch #1 in:
6584 }
6585 % this version assumes that the test object can have an optional space
6586 \def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6587   #1#2 \bidi@switch@exit #3 \@bidi@fi
6588   \bidi@bswitch #1 in:
6589 }
6590 % this version can cope with significant spaces at the start of #3;
6591 % #2 is macro argument
6592 \def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6593   #1{#2}\bidi@switch@exit #3 \@bidi@fi

```



```

6594 \bidi@mswitch #1 in:
6595 }
6596 % idem; #2 does not have to be enclosed in braces
6597 \def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi
6598 #1#2 \bidi@switch@exit #3 \@bidi@fi
6599 \bidi@fswitch #1 in:
6600 }
6601
6602 % Routines for taking the value of a string:
6603 % if the string is defined as control sequence
6604 % take the value of that, otherwise take the string itself
6605
6606 % String or value of control sequence
6607 %
6608 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6609
6610 % String or control sequence
6611 %
6612 \def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6613
6614 % String or \noexpand-ed control sequence;
6615 % for use in \edef
6616 %
6617 \newif\ifbidi@in@label
6618 \def\@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6619 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6620 \newtoks\bidi@are@these@correct
6621 \def\bidi@t@w@w#1{%
6622 \if\bidi@undefinedcs{#1}#1%
6623 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6624 \else
6625 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6626
6627 % List Manipulation .....
6628 % this assumes that #1 is a list of tokens, #2 is the name of a list
6629 %
6630 % Names of lists (and of items to pop into) are given as strings;
6631 % not as control sequences.
6632 %
6633 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6634 % basic append/prepend macro
6635 \long\def\@bidi@append@to@csl#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6636 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@listb}
6637 \long\def\@bidi@prepend@to@csl#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6638 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@listb}
6639 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@csl}
6640 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@csl}
6641 % variations:
6642 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
6643 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
6644 \def\bidi@append@list@to@list#1#2{%
6645 \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}
6646 \def\bidi@prepend@list@to@list#1#2{%
6647 \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}

```



```

6648 \def\bid@append@csl@to@csl#1#2{%
6649   \@bid@append@to@csl#1\expandafter\the#2}}
6650 \def\bid@prepend@csl@to@csl#1#2{%
6651   \@bid@prepend@to@csl#1\expandafter\the#2}}
6652 \def\bid@append@toks@cs@to@list#1#2{\@bid@append@to@list#1\expandafter\the#2}}
6653 \def\bid@prepend@toks@cs@to@list#1#2{\@bid@prepend@to@list#1\expandafter\the#2}}
6654
6655 \let\bid@willbeunhskip\unhskip
6656
6657 % A few list macros for the user
6658 \def\NewTokenList:#1 {\bid@csarg\newtoks#1\global\csname#1\endcsname{}}
6659 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6660 \long\def\AppendToTokenList:#1=#2 {\@bid@append@to@list#1}{#2}}
6661 \long\def\PrependToTokenList:#1=#2 {\@bid@prepend@to@list#1}{#2}}
6662 \def\TheTokenList:#1 {\let\bid@oldwbuskip\bid@willbeunhskip \let\bid@willbeunhskip\empty
6663   \if\bid@undefinedcs#1\bid@error{Token List <#1> undefined}
6664   \else\bid@csarg\the#1\fi
6665   \let\bid@willbeunhskip\bid@oldwbuskip}
6666
6667 \def\bid@del@tok@from@list#1#2{\begingroup
6668   \long\def\bid@cs@list#1#2##2\bid@tok@SM
6669     {\bid@toks@list#1\bid@toks@listb{##2}%
6670     \edef\bid@cs@listb{\global\bid@csname#1=
6671       {\the\bid@toks@list#1\the\bid@toks@listb}}%
6672     \bid@cs@listb}%
6673   \edef\bid@cs@list#1{\noexpand\bid@cs@list#1\expandafter\the\csname#1\endcsname\noexpand
6674     \bid@cs@listb} \endgroup}
6675 \def\bid@in@front@of@list#1{\bid@csarg{\let\expandafter\bid@cs@list#1}%
6676   \bid@in@front@of@csl\bid@cs@list#1}
6677 \long\def\bid@in@front@of@csl#1#2{\begingroup\bid@toks@list#1={#2}%
6678   \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bid@toks@list#1}
6679   \endgroup}
6680 \long\def\bid@local@in@front@of@list#1#2{\bid@toks@list#1={#2}%
6681   \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6682     {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter\expandafter
6683       \expandafter\the\csname#1\endcsname}%
6684   }
6685 \def\bid@set@list#1{\bid@csarg{\let\expandafter\bid@cs@list#1}%
6686   \bid@set@csl\bid@cs@list#1}
6687 \long\def\bid@set@csl#1#2{\begingroup\bid@toks@list#1={#2}%
6688   \global#1=\expandafter{\the\bid@toks@list#1} \endgroup}
6689
6690 %%%%%%%%%%%%%%% Stack macros
6691 %
6692 % push in terms of prepending of lists
6693 \def\bid@push@cs@onto@csl#1#2{\@bid@prepend@to@csl#1\expandafter{\expandafter\expandafter\bid@push@onto@csl#1}}
6694 \def\bid@push@onto#csl#1#2{\bid@csarg\bid@push@onto@csl#1}}
6695 \def\bid@push@onto@csl#1#2{\@bid@prepend@to@csl#1}{\the#2}}
6696 \def\bid@local@push@onto#csl#1#2{\let\=\relax
6697   \bid@local@in@front@of@list#1}{\the#2}}
6698 % pop via auxiliary macro: #1 is result, #2 is stack
6699 % two cs arguments
6700 \def\bid@pop@cs@into#1#2{\edef\bid@cs@e
6701   {\noexpand\@bid@popinto\noexpand#1\noexpand#2\the#2\noexpand\@bid@pop}\bid@cs@e}

```



```

6702 % two string arguments
6703 \def\bidipop@into#1#2{\edef\bidics@e
6704   {\noexpand\@bidipopinto\bidicsname{#1}\bidicsname{#2}\bidicsarg\the{#2}\noexpand\@bid
6705   \long\def\@bidipopinto#1#2\#3#4\@bidipop{#1{#3}#2{#4}}
6706 \def\bidicopy@stacktop#1#2{%
6707   \edef\bidics@e{\noexpand\@bidicopy@stacktop
6708     {#1}\bidicsarg\the{#2}\noexpand\@bidipop}%
6709   \bidics@e}
6710 \def\@bidicopy@stacktop#1\#2#3\@bidipop{\csname#1\endcsname#2\relax}
6711 \newcount\bidistack@length \newtoks\bidie@empty@stack \bidie@empty@stack{\{\}}
6712 \def\bidilength@of@stack#1{\bidicsarg\bidilength@of@csstack{#1}}
6713 \def\bidilength@of@csstack#1{\def\##1{\advance\bidistack@length\@ne}%
6714   \bidistack@length\@ne \the#1}
6715 % turn a stack upside down
6716 \def\bidinvert@csstack#1{\bidilength@of@csstack{#1}%
6717   \biditempcountb\z@ \biditemptoksa\bidie@empty@stack
6718   \loop\ifnum\biditempcountb<\bidistack@length
6719     \bidipop@cs@into\biditemptoksb#1\advance\bidistack@length\@ne
6720     \bidipush@cs@onto@cs\biditemptoksa\biditemptoksb
6721 %   \bidic@append@cslist@to@cslist\biditemptoksb\biditemptoksa% append a to b
6722 %   \biditemptoksa\biditemptoksb
6723   \repeat% copy b to a
6724   #1\biditemptoksa \biditemptoksa\bidie@empty@toks}
6725 % invert a stack into a list
6726 \def\bidix@stack@to@list#1{\bidilength@of@stack{#1}%
6727   \biditempcountb\z@ \biditemptoksa\bidie@empty@toks
6728   \loop\ifnum\biditempcountb<\bidistack@length
6729     \bidipop@into{\biditemptoksb}{#1}\advance\bidistack@length\@ne
6730     \bidic@append@list@to@list{\biditemptoksb}{\biditemptoksa}\repeat
6731   \csname#1\endcsname\biditemptoksa \biditemptoksa\bidie@empty@toks}
6732
6733
6734 % General loop macro:
6735 % \looprepeat
6736 %   \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<en
6737 %   \untilcondition{<cond>} \whilecondition{<cond>}
6738 %   \doloopbody { <loop body> }
6739 % where all control sequences in between \looprepeat and \doloopbody are optional.
6740 %
6741 % var: characters to form a control sequence;
6742 %   after \forvariable{index} you can access the loop counter as \index.
6743 %   This is a count register; to print it use \number\index.
6744 % start,step,end: integers with obvious relations to the loop counter;
6745 %   start and step have a default value of 1
6746 % cond: (sequence of commands ending in) any TeX \if... test.
6747 %
6748 % Count down instead of up with \downtovalue; the increment given in \bystep
6749 % is always positive, and is added or subtracted accordingly.
6750 %
6751 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6752 % at the beginning of the loop body.
6753 %
6754 % Exit from middle of loop: \breaklooprepeat
6755 % use this at any place in the loop; in case of a conditional use

```



```

6756% \ifsomething ... \expandafter \breaklooprepeat \fi
6757%
6758% Note that the line ends do not cause spaces in the output.
6759%
6760% Technical details:
6761% The loop body is not executed in a group: the braces are those
6762% of a token list.
6763% The 'forvariable' variable is \let to a \count register.
6764
6765
6766
6767% Auxiliary stuff
6768\def\bidilooprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6769\def\bidilooprepeat@csromannumeral#1{\csname #1\romannumeral\bidilooprepeat@depth\endcsname}
6770\def\bidilooprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooprepeat@depth\endcsname}
6771
6772\newcount\bidilooprepeat@depth
6773\let\endlooprepeat\relax \def\bidicsprotect{}
6774% Trace switches may later be defined by PAC_utils
6775\let\bidilooprepeat@traceinit\relax \let\bidilooprepeat@traceexit\relax
6776
6777% Main repeatloop macro
6778% - go to next level and allocate unique counter/toks if this is the
6779% first time we visit this level
6780% - setup: gather bounds and termination conditions
6781% - scoop up body in token list; after the assignment define and
6782% execute body
6783\def\looprepeat#1\doloopbody{\bidilooprepeat@traceinit % exit in \breakrepeatloop
6784 \advance\bidilooprepeat@depth\@ne\relax
6785 \bidilooprepeat@csargromannumeral\ifx\bidilooprepeat@count\relax
6786 \bidilooprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidilooprepeat@count}%
6787 \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@toks}%
6788 \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@toks}%
6789 \bidilooprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooprepeat@toks}%
6790 \fi \bidilooprepeat@zero \def\bidilooprepeat@sign{}\def\bidilooprepeat@comp{>}\bidilooprepeat@comp{>}\bidilooprepeat@tmp
6791 \edef\bidilooprepeat@tmp
6792 {\def\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}{\bidilooprepeat@body}%
6793 \afterassignment\bidilooprepeat@dxbody\bidilooprepeat@csromannumeral{\bidilooprepeat@body}%
6794 }
6795% Define and execute loop body
6796% This is done with an \edef to construct the actual sequence
6797\def\bidilooprepeat@dxbody{\bidilooprepeat@csargromannumeral\edef{\bidilooprepeat@body}{\bidilooprepeat@body}%
6798 \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}%
6799 \noexpand\the\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@toks}%
6800 \bidilooprepeat@csargromannumeral\the{\bidilooprepeat@utest}%
6801 \global\bidilooprepeat@csargromannumeral\advance{\bidilooprepeat@count} by \bidilooprepeat@depth\relax
6802 \noexpand\endlooprepeat
6803 \bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@looprepeat}}%
6804 \bidilooprepeat@csromannumeral{\bidilooprepeat@body}\ignorespaces}
6805
6806% Stop test
6807%% In order to stop, issue a
6808% \breaklooprepeat which scoops up the rest of the body and exits
6809\def\breaklooprepeat#1\endlooprepeat{\bidilooprepeat@zero\bidilooprepeat@csargromannumeral

```



```

6810 \advance\bidil@looprepeat@depth\m@ne \bidil@looprepeat@traceexit
6811 }
6812
6813
6814 % Setup
6815 % gather bounds and termination conditions
6816 \def\bidil@looprepeat@setup#1{%
6817 \begingroup
6818 \def\forvariable##1{%
6819 \edef\bidil@looprepeat@tmp{%
6820 \global\let\bidil@looprepeat@csarg\noexpand{##1}\bidil@looprepeat@csromannumeral{\bidil@
6821 \bidil@looprepeat@tmp}%
6822 \def\fromvalue##1{\bidil@looprepeat@csargromannumeral\global{\bidil@looprepeat@count}##1\ig
6823 \def\tovalue##1{%
6824 \edef\bidil@looprepeat@tmp{\global\bidil@looprepeat@csargromannumeral\noexpand{\bidil@loop
6825 {\bidil@looprepeat@csargromannumeral\the{\bidil@looprepeat@wtest}%
6826 \noexpand\ifnum\bidil@looprepeat@csargromannumeral\noexpand{\bidil@looprepeat@count}\bi
6827 \noexpand\expandafter \noexpand\breaklooprepeat
6828 \noexpand\fi}\ignorespaces}%
6829 \bidil@looprepeat@tmp}%
6830 \def\downtovalue##1{%
6831 \gdef\bidil@looprepeat@sign{-}\gdef\bidil@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6832 \def\bystep##1{\ifnum##1<0 \bidil@error{LOOPREPEAT: increment has to be a positive value}
6833 \bidil@looprepeat@csargromannumeral\gdef{\bidil@looprepeat@inc}{-##1}\else
6834 \bidil@looprepeat@csargromannumeral\gdef{\bidil@looprepeat@inc}{##1}\fi\ignoresp
6835 \def\untilcondition##1{%
6836 \edef\bidil@looprepeat@tmp{\global\bidil@looprepeat@csargromannumeral\noexpand{\bidil@loop
6837 {\noexpand##1\relax
6838 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6839 \bidil@looprepeat@tmp}%
6840 \def\whilecondition##1{%
6841 \edef\bidil@looprepeat@tmp{\global\bidil@looprepeat@csargromannumeral\noexpand{\bidil@loop
6842 {\noexpand##1\relax \noexpand\else
6843 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6844 \bidil@looprepeat@tmp}%
6845 \fromvalue{\@ne}\bystep{\@ne}#1%
6846 \endgroup}
6847 \def\bidil@looprepeat@zero
6848 {\bidil@looprepeat@csromannumeral{\bidil@looprepeat@toks}{-}\bidil@looprepeat@csromannumeral{\b
6849 \bidil@looprepeat@csargromannumeral\def{\bidil@looprepeat@body}{}}
6850
6851 %\tracingmacros2
6852 %\newcount\tmpcount % used in some examples below
6853
6854 %\looprepeat \forvariable{i}
6855 % \bystep{2}
6856 % \doloopbody {%
6857 % \ifnum i=13 \expandafter\breaklooprepeat \fi
6858 % \number i} %
6859 %}%
6860
6861 %\looprepeat \forvariable{iii}
6862 % \tovalue{8}
6863 % \doloopbody {}

```



```

6864 %After loop: \number\iii%
6865
6866 %\looprepeat \forvariable{i}
6867 %      \fromvalue{10}
6868 %      \bystep{2}
6869 %      \downtovalue{0}
6870 %      \doloopbody {\number\i} }
6871
6872 %\looprepeat \forvariable{x} \whilecondition{\ifnum\x<7}
6873 %      \doloopbody {\number\x} }
6874
6875 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6876
6877 %\looprepeat \forvariable{j}
6878 %      \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6879 %      \doloopbody {\number\j} }
6880
6881 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6882 % { \looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6883 %   \doloopbody {(\number\i.\number\j) }
6884 % }
6885
6886 % infinite loop
6887 %\looprepeat \doloopbody {}
6888
6889 \ExplSyntaxOn
6890 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6891 {
6892   \IfBooleanTF { #1 }
6893   {
6894     \@ifclassloaded{ #2 }
6895     { #4 }
6896     {
6897       \hook_gput_code:nnn
6898       { file / #2.\@clsextension / after }
6899       { #3 }
6900       { #4 }
6901     }
6902   }
6903   {
6904     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6905   }
6906 }
6907
6908 \seq_new:N \g__biditools_input_file_seq
6909
6910 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6911 {
6912   \str_set:Nx \l_tmpa_str { #1 }
6913   \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }
6914   { \prg_return_true: }
6915   { \prg_return_false: }
6916 }
6917

```





```

6918 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6919 {
6920   \@ifclassloaded { #1 }
6921   {
6922     \__bidi_if_loading:nTF { #1.\@clsextension }
6923     { \prg_return_false: }
6924     { \prg_return_true: }
6925   }
6926   {
6927     \prg_return_false:
6928   }
6929 }
6930
6931 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6932 {
6933   \@ifpackageloaded { #1 }
6934   {
6935     \__bidi_if_loading:nTF { #1.\@pkgextension }
6936     { \prg_return_false: }
6937     { \prg_return_true: }
6938   }
6939   {
6940     \prg_return_false:
6941   }
6942 }
6943
6944 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6945 {
6946   \IfBooleanTF { #1 }
6947   {
6948     \bidi_if_class_loaded:nTF { #2 }
6949     { #4 }
6950     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6951   }
6952   {
6953     \bidi_if_class_loaded:nF
6954     { #2 }
6955     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6956   }
6957 }
6958
6959 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6960 {
6961   \IfBooleanTF { #1 }
6962   {
6963     \@ifpackageloaded{ #2 }
6964     { #4 }
6965     {
6966       \hook_gput_code:nnn
6967       { file / #2.\@pkgextension / after }
6968       { #3 }
6969       { #4 }
6970     }
6971   }

```



```

6972     {
6973         \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6974     }
6975 }
6976
6977 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6978 {
6979     \IfBooleanTF { #1 }
6980     {
6981         \bidi_if_package_loaded:nTF { #2 }
6982         { #4 }
6983         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6984     }
6985     {
6986         \bidi_if_package_loaded:nF
6987         { #2 }
6988         { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6989     }
6990 }
6991
6992 \clist_new:N \l__biditools_package_clist
6993 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6994 {
6995     Can-not~prevent~package~`#1'~from~being~loaded,~
6996     since~it~has~been~loaded~already~before~line~\msg_line_number:
6997 }
6998 \clist_new:N \g__biditools_prevent_clist
6999
7000 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
7001 {
7002     \clist_set:Nx \l__biditools_package_clist { #3 }
7003     \clist_map_inline:Nn \l__biditools_package_clist
7004     {
7005         \@ifpackageloaded { ##1 }
7006         {
7007             \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
7008             { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
7009         }
7010         {
7011             \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
7012             { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
7013             \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
7014             {
7015                 \tl_new:c { g__biditools_exclude_package_##1_tl }
7016             }
7017             \IfValueT { #2 }
7018             {
7019                 \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
7020             }
7021             \disable@package@load { ##1 }
7022             { \tl_use:c { g__biditools_exclude_package_##1_tl } }
7023         }
7024     }
7025     \clist_clear:N \l__biditools_package_clist

```



```

7026 }
7027
7028 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
7029 {
7030   \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
7031   \clist_gclear:N \g__biditools_prevent_clist
7032 }
7033
7034 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
7035 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
7036
7037 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
7038 {
7039   \clist_set:Nx \l__biditools_package_clist { #2 }
7040   \clist_map_inline:Nn \l__biditools_package_clist
7041   {
7042     \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
7043     {
7044       \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7045       \reenable@package@load { ##1 }
7046       \IfBooleanT { #1 }
7047       { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7048     }
7049   }
7050 }
7051
7052 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7053 {
7054   \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7055   {
7056     \debug_suspend:
7057     \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7058     \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7059     \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7060     #2
7061     \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7062     \debug_resume:
7063   }
7064 }
7065
7066 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7067 {
7068   \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7069   {
7070     \debug_suspend:
7071     \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7072     \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7073     \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7074     #2
7075     \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7076     \debug_resume:
7077   }
7078 }
7079

```



```

7080 \clist_new:N \l__biditools_file_patch_clist
7081
7082 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7083 {
7084   \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7085   \clist_map_inline:Nn \l__biditools_file_patch_clist
7086     {
7087       \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7088     }
7089   \clist_clear:N \l__biditools_file_patch_clist
7090 }
7091
7092 \clist_new:N \l__biditools_package_patch_clist
7093
7094 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7095 {
7096   \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7097   \clist_map_inline:Nn \l__biditools_package_patch_clist
7098     {
7099       \ApplyPatchToPackage { ##1 } [ #2 ]
7100     }
7101   \clist_clear:N \l__biditools_package_patch_clist
7102 }
7103
7104 \clist_new:N \l__biditools_class_patch_clist
7105
7106 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7107 {
7108   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7109   \clist_map_inline:Nn \l__biditools_class_patch_clist
7110     {
7111       \ApplyPatchToClass { ##1 } [ #2 ]
7112     }
7113   \clist_clear:N \l__biditools_class_patch_clist
7114 }
7115
7116 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7117 {
7118   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7119   \clist_map_inline:Nn \l__biditools_class_patch_clist
7120     {
7121       \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7122     }
7123   \clist_clear:N \l__biditools_class_patch_clist
7124 }
7125 \ExplSyntaxOff
7126
7127 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7128 \newcommand*{\bidi@UnReplaceInput}
7129 {\undeclare@file@substitution}
7130 \newcommand*{\bidi@ReplacePackage}[2]{%
7131   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7132 }
7133 \newcommand*{\bidi@UnReplacePackage}[1]{%

```



```

7134 \undecclare@file@substitution{#1.\@pkgextension}%
7135 }
7136 \newcommand*{\bidi@ReplaceClass}[2]{%
7137   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7138 }
7139 \newcommand*{\bidi@UnReplaceClass}[1]{%
7140   \undecclare@file@substitution{#1.\@clsextension}%
7141 }
7142 \newcommand*{\bidi@BeforeFile}[1]{%
7143   \AddToHook{file/#1/before}%
7144 }
7145 \newcommand*{\bidi@AfterFile}[1]{%
7146   \AddToHook{file/#1/after}%
7147 }
7148 \newcommand*{\bidi@BeforeClass}[1]{%
7149   \bidi@BeforeFile{#1.\@clsextension}%
7150 }
7151 \newcommand*{\bidi@BeforePackage}[1]{%
7152   \bidi@BeforeFile{#1.\@pkgextension}%
7153 }
7154
7155 \long\def\bidi@protected@immediate@write#1#2#3{%
7156   \begingroup
7157     #2%
7158     \let\protect\@unexpandable@protect
7159     \edef\reserved@a{\immediate\write#1{#3}}%
7160     \reserved@a
7161   \endgroup
7162   \if@nobeak\ifvmode\nobeak\fi\fi
7163 }
7164
7165 \def\bidi@patch@AfterPackage#1{%
7166   \@ifpackageloaded{#1}{%
7167     \@firstofone
7168   }{%
7169     \AddToHook{package/#1/after}%
7170   }%
7171 }
7172
7173 \def\bidi@patch@AfterFile#1{%
7174   \IfFileLoadedTF{#1}{%
7175     \@firstofone
7176   }{%
7177     \AddToHook{file/#1/after}%
7178   }%
7179 }
7180
7181 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7182 {
7183   \bidi@patch@AfterFile{#1.#2}{%
7184     \ifnum\catcode`\@=11
7185       \input{#1-xetex-#3.def}%
7186     \else
7187       \bidi@storecatcode\@

```



```

7188         \makeatletter
7189         \input{#1-xetex-#3.def}%
7190         \bidi@restorecatcode\@
7191     \fi
7192 }%
7193 }
7194
7195 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7196 {
7197     \bidi@patch@AfterFile{#1.#3}{#2}%
7198 }
7199
7200 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7201 {
7202     \AddToHook{begindocument/before}{%
7203         \IfPackageLoadedF{#1}{%
7204             \ApplyPatchToFiles{#2}[#3][#4]%
7205         }%
7206     }
7207 }
7208
7209 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7210 {
7211     \AddToHook{begindocument/before}{%
7212         \IfPackageLoadedF{#2}{%
7213             \ifnum\catcode`\@=11
7214                 \@ifclassloaded{#1}{%
7215                     \input{#1-xetex-#3.def}%
7216                 }{}%
7217             \else
7218                 \bidi@storecatcode\@
7219                 \makeatletter
7220                 \@ifclassloaded{#1}{%
7221                     \input{#1-xetex-#3.def}%
7222                 }{}%
7223                 \bidi@restorecatcode\@
7224             \fi
7225         }%
7226     }
7227 }
7228
7229 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7230 {
7231     \AddToHook{begindocument/before}{%
7232         \IfPackageLoadedF{#2}{%
7233             \IfPackageLoadedT{#1}{%
7234                 \ifnum\catcode`\@=11
7235                     \input{#1-xetex-#3.def}%
7236                 \else
7237                     \bidi@storecatcode\@
7238                     \makeatletter
7239                     \input{#1-xetex-#3.def}%
7240                     \bidi@restorecatcode\@
7241                 \fi

```



```

7242     }%
7243   }%
7244 }
7245 }
7246
7247 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7248 {
7249   \AddToHook{begindocument/before}{%
7250     \ifnum\catcode`\@=11
7251       \@ifpackageloaded{#1}{#2}{#3}%
7252     \else
7253       \bidi@storecatcode\@
7254       \makeatletter
7255       \@ifpackageloaded{#1}{#2}{#3}%
7256       \bidi@restorecatcode\@
7257     \fi
7258   }
7259 }
7260
7261 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7262 {
7263   \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7264 }
7265
7266 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7267 {
7268   \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7269 }
7270
7271 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7272 {
7273   \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7274 }
7275
7276 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7277 {
7278   \bidi@patch@AfterPackage{#1}{#2}%
7279 }
7280
7281 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7282 {
7283   \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7284 }

```

## 53 File `bidituftefloat.sty`

```

7285 \NeedsTeXFormat{LaTeX2e}
7286 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7287 bidi implementation of tufte float]
7288 \RequirePackage{xifthen}
7289 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7290 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7291 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@bidituftefloat@debug}}{\bid
7292 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}

```



```

7293 \newboolean{@biditytfloat@reversegeometry}
7294 \setboolean{@biditytfloat@reversegeometry}{false}
7295 \DeclareOption{reversegeometry}{\setboolean{@biditytfloat@reversegeometry}{true}}
7296 \newboolean{@biditytfloat@a4paper}
7297 \DeclareOption{a4paper}{\setboolean{@biditytfloat@a4paper}{true}}
7298 \newboolean{@biditytfloat@b5paper}
7299 \DeclareOption{b5paper}{\setboolean{@biditytfloat@b5paper}{true}}
7300 \newboolean{@biditytfloat@symmetric}
7301 \newboolean{@biditytfloat@twoside}
7302 \DeclareOption{twoside}{%
7303 \@twosidetrue \mparswitchtrue%
7304 \setboolean{@biditytfloat@twoside}{true}%
7305 \setboolean{@biditytfloat@symmetric}{true}%
7306 }
7307 \DeclareOption{oneside}{%
7308 \@twosidefalse \mparswitchfalse%
7309 \setboolean{@biditytfloat@twoside}{false}%
7310 \setboolean{@biditytfloat@symmetric}{false}%
7311 }
7312 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7313 \newboolean{@biditytfloat@debug}
7314 \newcommand*{@biditytfloat@caption@justification}{@biditytfloat@justification@autodete
7315 \ProcessOptions
7316 %% Globally sets the length
7317 \newcommand*{\gsetlength}[2]{%
7318 \setlength{#1}{#2}%
7319 \global#1=#1\relax%
7320 }
7321
7322 %% Set the font sizes and baselines to match biditytfloat's books
7323 \renewcommand\normalsize{%
7324 \setfontsize\normalsize\@xpt{14}%
7325 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7326 \abovedisplayshortskip \z@ \@plus3\p@
7327 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7328 \belowdisplayskip \abovedisplayskip
7329 \let\@listi\@listI}
7330 \normalbaselineskip=14pt
7331 \normalsize
7332 \renewcommand\footnotesize{%
7333 \setfontsize\footnotesize\@viipt{10}%
7334 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7335 \abovedisplayshortskip \z@ \@plus\p@
7336 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7337 \def\@listi{\leftmargin\leftmargini
7338 \topsep 3\p@ \@plus\p@ \@minus\p@
7339 \parsep 2\p@ \@plus\p@ \@minus\p@
7340 \itemsep \parsep}%
7341 \belowdisplayskip \abovedisplayskip
7342 }
7343 %% Paragraph indentation and separation for marginal text
7344 \newcommand{@biditytfloat@margin@par}{%
7345 \setlength{\RaggedRightParindent}{0.5pc}%
7346 \setlength{\JustifyingParindent}{0.5pc}%

```





```

7347 \setlength{\parindent}{0.5pc}%
7348 \setlength{\parskip}{0pt}%
7349 }
7350 \RequirePackage{ragged2e}
7351 \ifthenelse{\boolean{@bidituftefloat@reversegeometry}}{%
7352 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7353 \ifthenelse{\boolean{@bidituftefloat@afourpaper}}
7354 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7355 {}
7356 \ifthenelse{\boolean{@bidituftefloat@bfivepaper}}
7357 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7358 {}}%
7359 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7360 \ifthenelse{\boolean{@bidituftefloat@afourpaper}}
7361 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7362 {}
7363 \ifthenelse{\boolean{@bidituftefloat@bfivepaper}}
7364 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7365 {}
7366 \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7367 {}
7368 {\geometry{asymmetric}}% forces internal LaTeX `twoside'
7369 \setlength{\marginparpush}{10pt}
7370 %% Font for margin items
7371 \newcommand{\@bidituftefloat@marginfont}{\normalfont\footnotesize}
7372 \newcommand*{\@bidituftefloat@caption@font}{\@bidituftefloat@marginfont}
7373 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bidituftefloat@caption@font}{#1}}
7374 \newcommand{\@bidituftefloat@justification}{\justifying}%
7375 \setlength{\abovedisplayskip}{6pt plus 2pt minus 4pt}
7376 \setlength{\belowdisplayskip}{6pt plus 2pt minus 4pt}
7377 \newboolean{@bidituftefloat@changepage}
7378 \IfFileExists{changepage.sty}{%
7379 \bidituftefloatDebugInfoNL{Found changepage.sty}
7380 \RequirePackage[strict]{changepage}
7381 \setboolean{@bidituftefloat@changepage}{true}
7382 }{%
7383 \bidituftefloatDebugInfoNL{Found chngpage.sty}
7384 \RequirePackage[strict]{chngpage}
7385 \setboolean{@bidituftefloat@changepage}{false}
7386 }
7387 \newboolean{@bidituftefloat@odd@page}
7388 \setboolean{@bidituftefloat@odd@page}{true}
7389 \newcommand*{\@bidituftefloat@checkoddpage}{%
7390 \checkoddpage%
7391 \ifthenelse{\boolean{@bidituftefloat@changepage}}{%
7392 \ifoddpage%
7393 \setboolean{@bidituftefloat@odd@page}{true}%
7394 \else%
7395 \setboolean{@bidituftefloat@odd@page}{false}%
7396 \fi%
7397 }{%
7398 \ifcpoddpage%
7399 \setboolean{@bidituftefloat@odd@page}{true}%
7400 \else%

```



```

7401     \setboolean{@biditytfloat@odd@page}{false}%
7402     \fi%
7403 }%
7404 }
7405 \newlength{@biditytfloat@overhang}% used by the fullwidth environment and the running head
7406 \newlength{@biditytfloat@fullwidth}
7407 \newlength{@biditytfloat@caption@fill}
7408 \newcommand{@biditytfloatRecalculate}{%
7409   \setlength{@biditytfloat@overhang}{\marginparwidth}
7410   \addtolength{@biditytfloat@overhang}{\marginparsep}
7411
7412   \setlength{@biditytfloat@fullwidth}{\textwidth}
7413   \addtolength{@biditytfloat@fullwidth}{\marginparsep}
7414   \addtolength{@biditytfloat@fullwidth}{\marginparwidth}
7415
7416   \setlength{@biditytfloat@caption@fill}{\textwidth}
7417   \addtolength{@biditytfloat@caption@fill}{\marginparsep}
7418 }
7419 \AtBeginDocument{@biditytfloatRecalculate}
7420 \RequirePackage{optparams}% provides multiple optional arguments for commands
7421 \RequirePackage{placeins}
7422 \newsavebox{@biditytfloat@margin@floatbox}
7423 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
7424   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in order}
7425   \begin{lrbox}{@biditytfloat@margin@floatbox}%
7426   \begin{minipage}{\marginparwidth}%
7427     \@biditytfloat@caption@font%
7428     \def\capttype{#2}%
7429     \hbox{ }\vspace*{#1}%
7430     \@biditytfloat@caption@justification%
7431     \@biditytfloat@margin@par%
7432     \noindent%
7433   }
7434   {\end{minipage}%
7435   \end{lrbox}%
7436   \marginpar{usebox{@biditytfloat@margin@floatbox}}%
7437 }
7438 \newenvironment{marginfigure}[1][-1.2ex]%
7439   {\begin{@biditytfloat@margin@float}[#1]{figure}}
7440   {\end{@biditytfloat@margin@float}}
7441 \newenvironment{margintable}[1][-1.2ex]%
7442   {\begin{@biditytfloat@margin@float}[#1]{table}}
7443   {\end{@biditytfloat@margin@float}}
7444 \newcommand*{@biditytfloat@justification@autodetect}{\justifying}%
7445
7446 \newcommand{@biditytfloat@float@debug@info}{}% contains debug info generated as the float is processed
7447 \newcommand{@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7448   \ifthenelse{equal{@biditytfloat@float@debug@info}{}}%
7449     {\def{@biditytfloat@float@debug@info}{#1}}%
7450     {\g@addto@macro{@biditytfloat@float@debug@info}{\MessageBreak#1}}%
7451 }
7452 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7453 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}@biditytfloat@float@debug@info}%
7454 \newboolean{@biditytfloat@float@recto}

```



```

7455 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@bidituftefloat@float@recto}{true}\@bidituf
7456 \newcommand{\forceversofloat}{\GlobalSetBoolean{@bidituftefloat@float@recto}{false}\@bidituf
7457 \newsavebox{\@bidituftefloat@figure@box}
7458 \newsavebox{\@bidituftefloat@caption@box}
7459 \let\@bidituftefloat@orig@float\@float
7460 \let\@bidituftefloat@orig@endfloat\end@float
7461 \newlength{\@bidituftefloat@caption@vertical@offset}
7462 \setlength{\@bidituftefloat@caption@vertical@offset}{0pt}
7463 \newcommand{\@bidituftefloat@stored@shortcaption}{\@caption}
7464 \newcommand{\@bidituftefloat@stored@caption}{\@caption}
7465 \newcommand{\@bidituftefloat@stored@label}{\@label}
7466 \long\def\@bidituftefloat@caption[#1][#2]#3{%
7467   \ifthenelse{\isempty{#1}}%
7468     {\gdef\@bidituftefloat@stored@shortcaption{#3}}%
7469     {\gdef\@bidituftefloat@stored@shortcaption{#1}}%
7470   \gsetlength{\@bidituftefloat@caption@vertical@offset}{-#2}% we want a positive offset to l
7471   \gdef\@bidituftefloat@stored@caption{#3}%
7472 }
7473 \newcommand{\@bidituftefloat@label}[1]{%
7474   \gdef\@bidituftefloat@stored@label{#1}%
7475 }
7476 \newcommand{\@bidituftefloat@fps}{\@caption}
7477 \newboolean{@bidituftefloat@float@star}
7478 \newlength{\@bidituftefloat@float@contents@width}
7479 \newenvironment{@bidituftefloat@float}[3][htbp]{%
7480   {% begin @bidituftefloat@float
7481     % Should this float be full-width or just text-width?
7482     \ifthenelse{\equal{#3}{star}}%
7483       {\GlobalSetBoolean{@bidituftefloat@float@star}{true}}%
7484       {\GlobalSetBoolean{@bidituftefloat@float@star}{false}}%
7485     % Check page side (recto/verso) and store detected value -- can be overridden in environm
7486     \@bidituftefloat@checkoddpagewide%
7487     \ifthenelse{\boolean{@bidituftefloat@odd@page}}%
7488       {\GlobalSetBoolean{@bidituftefloat@float@recto}{true}\@bidituftefloat@float@debug{Dete
7489       {\GlobalSetBoolean{@bidituftefloat@float@recto}{false}\@bidituftefloat@float@debug{Det
7490     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7491     \renewcommand{\@bidituftefloat@fps}{#1}%
7492     \@bidituftefloat@float@debug{Allowed positions: [1]}%
7493     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7494       {\renewcommand{\floatalignment}{b}\@bidituftefloat@float@debug{Presumed position: [bot
7495       {\renewcommand{\floatalignment}{t}\@bidituftefloat@float@debug{Presumed position: [top
7496     % Capture the contents of the \caption and \label commands to use later
7497     \global\let\@bidituftefloat@orig@caption\caption%
7498     \global\let\@bidituftefloat@orig@label\label%
7499     \renewcommand{\caption}{\@caption[\@caption]{\@caption}[0pt]}%
7500     \renewcommand{\label}[1]{\@bidituftefloat@label{##1}}%
7501     % Handle subfigure package compatibility
7502     \ifthenelse{\boolean{@bidituftefloat@packages@subfigure}}{%
7503       \bidi@patchcmd{\subfigure}{%
7504         \let\subfig@oldlabel=\label
7505       }{%
7506         \let\subfig@oldlabel=\@bidituftefloat@orig@label
7507       }
7508     }

```



```

7509     {}
7510     \let\subtable=\subfigure
7511 }{}% subfigure package is not loaded
7512 \@biditytfloat@orig@float{#2}[#1]%
7513 \ifthenelse{\boolean{@biditytfloat@float@star}}%
7514     {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7515     {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7516 \begin{lrbox}{\@biditytfloat@figure@box}%
7517 \begin{minipage}[floatalignment]{\@biditytfloat@float@contents@width}\hbox{}%
7518 }{% end @biditytfloat@float
7519     \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7520     \end{minipage}%
7521 \end{lrbox}%
7522 % build the caption box
7523 \begin{lrbox}{\@biditytfloat@caption@box}%
7524 \begin{minipage}[floatalignment]{\marginparwidth}\hbox{}%
7525     \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}{}}{\@biditytfloat@orig@cap
7526     \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}{}}{\@biditytfloat@orig@label
7527     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7528     \end{minipage}%
7529 \end{lrbox}%
7530 % now typeset the stored boxes
7531 \begin{fullwidth}%
7532     \begin{minipage}[floatalignment]{\linewidth}%
7533         \ifthenelse{\boolean{@biditytfloat@float@star}}%
7534             {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7535             {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7536         \end{minipage}%
7537 \end{fullwidth}%
7538 \@biditytfloat@orig@endfloat% end original LaTeX float environment
7539 % output debug info
7540 \ifthenelse{\boolean{@biditytfloat@debug}}{%
7541     \typeout{^^J^^J----- biditytfloat package float information -----}%
7542     \ifthenelse{\equal{\@biditytfloat@stored@label}{}}%
7543         {\typeout{Warning: Float unlabeled!}}%
7544         {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7545     \typeout{Page number: [\thepage]}%
7546     \def\MessageBreak{^^J}%
7547     \typeout{\@biditytfloat@float@debug@info}%
7548     \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7549         {\typeout{Symmetric: [true]}}%
7550         {\typeout{Symmetric: [false]}}%
7551     \typeout{-----^^J^^J}%
7552 }{}%
7553 % reset commands and temp boxes and captions
7554 \gdef\@biditytfloat@float@debug@info{}%
7555 \let\caption\@biditytfloat@orig@caption%
7556 \let\label\@biditytfloat@orig@label%
7557 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
7558 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7559 \gdef\@biditytfloat@stored@shortcaption{}%
7560 \gdef\@biditytfloat@stored@caption{}%
7561 \gdef\@biditytfloat@stored@label{}%
7562 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset

```



```

7563 }
7564 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7565 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}
7566 % asymmetric or page is odd, so caption is on the right
7567 \hbox{%
7568 \usebox{#2}%
7569 \hspace{\marginparsep}%
7570 \smash{\raisebox{#1}{\usebox{#3}}}%
7571 }
7572 \@biditytfloat@float@debug{Caption position: [right]}%
7573 }{% symmetric pages and page is even, so caption is on the left
7574 \hbox{%
7575 \smash{\raisebox{#1}{\usebox{#3}}}%
7576 \hspace{\marginparsep}%
7577 \usebox{#2}%
7578 }
7579 \@biditytfloat@float@debug{Caption position: [left]}%
7580 }%
7581 }
7582 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7583 \ifthenelse{\equal{\floatalignment}{b}}%
7584 {% place caption above figure
7585 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}
7586 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug
7587 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug
7588 }{% place caption below figure
7589 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}
7590 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug
7591 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug
7592 }%
7593 }
7594 \renewenvironment{figure}[1][htbp]%
7595 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7596 {\end{@biditytfloat@float}}
7597 \renewenvironment{table}[1][htbp]
7598 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7599 {\end{@biditytfloat@float}}
7600 \renewenvironment{figure*}[1][htbp]%
7601 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7602 {\end{@biditytfloat@float}}
7603 \renewenvironment{table*}[1][htbp]%
7604 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7605 {\end{@biditytfloat@float}}
7606 \newenvironment{fullwidth}
7607 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7608 {\ifthenelse{\boolean{@biditytfloat@change page}}{\begin{adjustwidth*}{-}\@biditytfloat@float@overhang}}%
7609 {\begin{adjustwidth*}{-}\@biditytfloat@overhang}}%
7610 }%
7611 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
7612 {\ifthenelse{\boolean{@biditytfloat@change page}}{\end{adjustwidth*}}{\end{adjustwidth}}%
7613 {\end{adjustwidth}}}%
7614 }
7615 \long\def\@caption#1[#2]#3{%
7616 \par%

```



```

7617 \addcontentsline{\csname ext@#1\endcsname}{#1}%
7618 {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7619 \begingroup%
7620 \parboxrestore%
7621 \if@minipage%
7622 \setminipage%
7623 \fi%
7624 \@bituftefloat@caption@font\@bituftefloat@caption@justification%
7625 \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7626 %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7627 \endgroup}
7628 %%
7629 % Turns newlines into spaces. Based on code from the 'titlesec' package.
7630 \DeclareRobustCommand{\@bituftefloating@newlinetospace}{%
7631 \ifstar{\@bituftefloating@newlinetospace@i}{\@bituftefloating@newlinetospace@i}%
7632 }
7633 \def\@bituftefloating@newlinetospace@i{%
7634 \ifdim\lastskip>z@\else\space\fi
7635 \ignorespaces%
7636 }
7637 \DeclareRobustCommand{\newlinetospace}[1]{%
7638 \let\@bituftefloating@orig@cr\\% save the original meaning of \\
7639 \def\\{\@bituftefloating@newlinetospace}% turn \\ and \\* into \space
7640 \let\newline\\% turn \newline into \space
7641 #1%
7642 \let\\\@bituftefloating@orig@cr% revert to original meaning of \\
7643 }
7644 \RequirePackage{fancyhdr}
7645 \pagestyle{fancy}
7646 \AtBeginDocument{%
7647 \ifthenelse{\boolean{@bituftefloating@symmetric}}
7648 {\fancyhfoffset[LE,RO]{\@bituftefloating@overhang}}
7649 {\fancyhfoffset[RE,RO]{\@bituftefloating@overhang}}
7650 }
7651 % The running heads/feet don't have rules
7652 \renewcommand{\headrulewidth}{0pt}
7653 \renewcommand{\footrulewidth}{0pt}
7654 % The 'fancy' page style is the default style for all pages.
7655 \fancyhf{} % clear header and footer fields
7656 \ifthenelse{\boolean{@bituftefloating@symmetric}}
7657 {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7658 \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}%
7659 \fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7660 % The 'plain' page style is used on chapter opening pages.
7661 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7662 % bottom of pages -- the folios are unexpressed.
7663 \fancypagestyle{plain}{
7664 \fancyhf{} % clear header and footer fields
7665 % Uncomment the following five lines of code if you want the opening page
7666 % of the chapter to express the folio in the lower outside corner.
7667 % \ifthenelse{\boolean{@bituftefloating@symmetric}}
7668 % {\fancyfoot[LE,RO]{\thepage}}
7669 % {\fancyfoot[RE,RO]{\thepage}}
7670 }

```



```

7671 % The 'empty' page style suppresses all headers and footers.
7672 % It's used on title pages and 'intentionally blank' pages.
7673 \fancypagestyle{empty}{
7674   \fancyhf{} % clear header and footer fields
7675 }
7676 \def\morefloats{% provides a total of 52 floats
7677   \ifthenelse{\isundefined{\bx@S}}{%
7678     \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7679     \newinsert\bx@S
7680     \newinsert\bx@T
7681     \newinsert\bx@U
7682     \newinsert\bx@V
7683     \newinsert\bx@W
7684     \newinsert\bx@X
7685     \newinsert\bx@Y
7686     \newinsert\bx@Z
7687     \newinsert\bx@a
7688     \newinsert\bx@b
7689     \newinsert\bx@c
7690     \newinsert\bx@d
7691     \newinsert\bx@e
7692     \newinsert\bx@f
7693     \newinsert\bx@g
7694     \newinsert\bx@h
7695     \newinsert\bx@i
7696     \newinsert\bx@j
7697     \newinsert\bx@k
7698     \newinsert\bx@l
7699     \newinsert\bx@m
7700     \newinsert\bx@n
7701     \newinsert\bx@o
7702     \newinsert\bx@p
7703     \newinsert\bx@q
7704     \newinsert\bx@r
7705     \newinsert\bx@s
7706     \newinsert\bx@t
7707     \newinsert\bx@u
7708     \newinsert\bx@v
7709     \newinsert\bx@w
7710     \newinsert\bx@x
7711     \newinsert\bx@y
7712     \newinsert\bx@z
7713     \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7714       \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7715       \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7716       \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7717       \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7718       \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7719       \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7720       \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7721       \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7722       \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7723       \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7724       \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%

```





```

7725 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7726 \ifthenelse{\isundefined{bx@AA}}{%
7727 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7728 \newinsert\bx@AA
7729 \newinsert\bx@BB
7730 \newinsert\bx@CC
7731 \newinsert\bx@DD
7732 \newinsert\bx@EE
7733 \newinsert\bx@FF
7734 \newinsert\bx@GG
7735 \newinsert\bx@HH
7736 \newinsert\bx@II
7737 \newinsert\bx@JJ
7738 \newinsert\bx@KK
7739 \newinsert\bx@LL
7740 \newinsert\bx@MM
7741 \newinsert\bx@NN
7742 \newinsert\bx@OO
7743 \newinsert\bx@PP
7744 \newinsert\bx@QQ
7745 \newinsert\bx@RR
7746 \newinsert\bx@SS
7747 \newinsert\bx@TT
7748 \newinsert\bx@UU
7749 \newinsert\bx@VV
7750 \newinsert\bx@WW
7751 \newinsert\bx@XX
7752 \newinsert\bx@YY
7753 \newinsert\bx@ZZ
7754 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7755 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7756 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7757 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7758 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7759 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7760 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7761 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7762 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7763 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7764 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7765 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7766 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7767 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7768 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7769 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7770 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7771 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7772 }{%
7773 \bidituftefloatError{You may only call \string\morefloats\space twice. See the\Message
7774 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
7775 }%
7776 }%
7777 }
7778 \newboolean{@bidituftefloat@packages@subfigure}

```





```

7779 \setboolean{@biditytfloat@packages@subfigure}{false}
7780 \AtBeginDocument{%
7781   \ifpackageloaded{subfigure}
7782     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7783     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}}%
7784 }
7785 \AtBeginDocument{%
7786   \ifpackageloaded{float}{%
7787     % Save the redefined float environment (instead of the LaTeX float environment)
7788     \let@biditytfloat@orig@float\float
7789     \let@biditytfloat@orig@endfloat\endfloat
7790
7791     % Define TufTian float styles (with the caption in the margin)
7792     \newcommand{\floatc@biditytfloatplain}[2]{%
7793       \begin{lrbox}{\@biditytfloat@caption@box}%
7794         \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7795           \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7796         }\end{minipage}%
7797       \end{lrbox}%
7798       \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7799   }
7800   \newcommand{\fs@biditytfloatplain}{%
7801     \def\@fs@cfont{\@biditytfloat@caption@font}%
7802     \let\@fs@capt\floatc@biditytfloatplain%
7803     \def\@fs@pre{%
7804       \def\@fs@post{%
7805         \def\@fs@mid{%
7806           \let\@fs@iftopcapt\iftrue%
7807         }
7808         \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7809         \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7810         \newcommand\floatc@biditytfloatruled[2]{%
7811           {\@fs@cfont #1} #2\par%
7812         }
7813         \newcommand\fs@biditytfloatruled{%
7814           \def\@fs@cfont{\@biditytfloat@caption@font}%
7815           \let\@fs@capt\floatc@biditytfloatplain%
7816           \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7817           \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7818           \def\@fs@mid{%
7819             \let\@fs@iftopcapt\iftrue%
7820           }
7821           \newcommand\fs@biditytfloatboxed{%
7822             \def\@fs@cfont{}%
7823             \let\@fs@capt\floatc@biditytfloatplain%
7824             \def\@fs@pre{%
7825               \setbox\@currbox\vbox{\hbadness10000
7826                 \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7827                   \hrule \hbox to\hsize{\vrule\kern3pt
7828                     \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7829             }%
7830             \def\@fs@mid{\kern2pt}%
7831             \def\@fs@post{}%
7832             \let\@fs@iftopcapt\iftrue%

```



```

7833 }
7834 }{%
7835 % Nothing to do
7836 }
7837 }
7838 \AtBeginDocument{%
7839 \ifpackageloaded{algorithm}{%
7840 % Set the float style to the Tufte version
7841 \ifthenelse{\equal{\ALG@floatstyle}{plain}}{OR\equal{\ALG@floatstyle}{ruled}}{OR\equal{\AL
7842 \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBrea
7843 \floatstyle{bidituftefloat\ALG@floatstyle}%
7844 \restylefloat{algorithm}%
7845 }{}%
7846 }{%
7847 % Nothing to do
7848 }
7849 }
7850 \PassOptionsToPackage{caption=false}{subfig}

```

## 54 File `bidituftesidenote.sty`

```

7851 \NeedsTeXFormat{LaTeX2e}
7852 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7853 bidi implementation of tufte sidenote]
7854 \RequirePackage{xifthen}
7855 \RequirePackage{ragged2e}
7856 \RequirePackage{setspace}
7857 \RequirePackage{biditools}
7858 \def\bidituftesidenotemarginpar{%
7859 \ifhmode
7860 \@bsphack
7861 \@floatpenalty -\@Mii
7862 \else
7863 \@floatpenalty -\@Miii
7864 \fi
7865 \ifinner
7866 \@parmoderr
7867 \@floatpenalty\z@
7868 \else
7869 \@next\@currbox\@freelist{}{}%
7870 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7871 {\@floatpenalty\z@
7872 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7873 \fi
7874 \ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
7875 \long\def\@bidituftesidenotexmpar[#1]#2{%
7876 \@bidituftesidenotesavemarbox\@marbox{#1}%
7877 \@bidituftesidenotesavemarbox\@currbox{#2}%
7878 \xympar}
7879 \long\def\@bidituftesidenoteympar#1{%
7880 \@bidituftesidenotesavemarbox\@marbox{#1}%
7881 \global\setbox\@currbox\copy\@marbox
7882 \xympar}
7883 \long\def \@bidituftesidenotesavemarbox #1#2{%

```



```

7884 \global\setbox #1%
7885 \color@vbox
7886 \vtop{%
7887 \hsize\marginparwidth
7888 \@parboxrestore
7889 \@bidityftesidenotemarginparreset
7890 #2%
7891 \@minipagefalse
7892 \outer@nobreak
7893 }%
7894 \color@endbox
7895 }
7896 \def \@bidityftesidenotemarginparreset {%
7897 \reset@font
7898 \normalsize
7899 \@minipagetrue
7900 \everypar{\@minipagefalse\everypar{}\if@RTL@footnote\beginR\else\beginL\fi}%
7901 }
7902 \def\LTRbidityftesidenotemarginpar{%
7903 \ifhmode
7904 \@bsphack
7905 \@floatpenalty -\@Mii
7906 \else
7907 \@floatpenalty-\@Miii
7908 \fi
7909 \ifinner
7910 \@parmoderr
7911 \@floatpenalty\z@
7912 \else
7913 \@next\@currbox\@freelist{}\}%
7914 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7915 {\@floatpenalty\z@
7916 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7917 \fi
7918 \@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7919 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7920 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7921 \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7922 \@xympar}
7923 \long\def\@LTRbidityftesidenoteympar#1{%
7924 \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7925 \global\setbox\@currbox\copy\@marbox
7926 \@xympar}
7927 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7928 \global\setbox #1%
7929 \color@vbox
7930 \vtop{%
7931 \hsize\marginparwidth
7932 \@parboxrestore
7933 \@LTRbidityftesidenotemarginparreset
7934 #2%
7935 \@minipagefalse
7936 \outer@nobreak
7937 }%

```



```

7938 \color@endbox
7939 }
7940 \def \@LTRbidityftesidenotemarginparreset {%
7941     \reset@font
7942     \normalsize
7943     \@minipagetrue
7944     \everypar{\@minipagefalse\everypar{}\beginL}%
7945 }
7946 \def\RTLbidityftesidenotemarginpar{%
7947     \ifhmode
7948         \@bsphack
7949         \@floatpenalty -\@Mii
7950     \else
7951         \@floatpenalty-\@Miii
7952     \fi
7953     \ifinner
7954         \@parmoderr
7955         \@floatpenalty\z@
7956     \else
7957         \@next\@currbox\@freelist{}\{}%
7958         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7959         {\@floatpenalty\z@
7960         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7961     \fi
7962     \ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7963 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7964     \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7965     \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7966     \@xympar}
7967 \long\def\@RTLbidityftesidenoteympar#1{%
7968     \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7969     \global\setbox\@currbox\copy\@marbox
7970     \@xympar}
7971 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7972     \global\setbox #1%
7973         \color@vbox
7974         \vtop{%
7975             \hsize\marginparwidth
7976             \@parboxrestore
7977             \@RTLbidityftesidenotemarginparreset
7978             #2%
7979             \@minipagefalse
7980             \outer@nobreak
7981         }%
7982     \color@endbox
7983 }
7984 \def \@RTLbidityftesidenotemarginparreset {%
7985     \reset@font
7986     \normalsize
7987     \@minipagetrue
7988     \everypar{\@minipagefalse\everypar{}\beginR}%
7989 }
7990 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7991 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}

```



```

7992 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7993 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7994 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7995 \newcommand*{\@bidityftesidenote@RTLsidenote@font}{\@bidityftesidenote@RTLmarginfont}
7996 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
7997 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7998 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
7999 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
8000 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
8001 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
8002 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
8003 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
8004 \newcommand*{\setRTLsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLsidenote@font}{#1}}
8005 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
8006 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
8007 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
8008 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
8009 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
8010 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{#1}}
8011 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@auto}
8012 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@auto}
8013 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@auto}
8014 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
8015 \newcommand{\@bidityftesidenote@margin@par}{%
8016   \setlength{\RaggedRightParindent}{0.5pc}%
8017   \setlength{\JustifyingParindent}{0.5pc}%
8018   \setlength{\parindent}{0.5pc}%
8019   \setlength{\parskip}{0pt}%
8020 }
8021 %%
8022 % Globally sets the length
8023 \@ifundefined{gsetlength}{%
8024 \newcommand*{gsetlength}[2]{%
8025   \setlength{#1}{#2}%
8026   \global#1=#1\relax%
8027 }%
8028 }{}
8029
8030 %%
8031 % A function that removes leading and trailing spaces from the supplied macro.
8032 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
8033 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
8034 % being trimmed of leading and trailing white space.
8035 \catcode`\Q=3
8036 \def\@bidityftesidenote@trim@spaces#1{%
8037   % Use grouping to emulate a multi-token afterassignment queue
8038   \begingroup%
8039   % Put \toks 0 {' into the afterassignment queue
8040   \aftergroup\toks\aftergroup0\aftergroup{%
8041     % Apply \trimb to the replacement text of #1, adding a leading
8042     % \noexpand to prevent brace stripping and to serve another purpose
8043     % later.
8044     \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8045   % Transfer the trimmed text back into #1.

```



```

8046 \edef#1{\the\toks0}%
8047 }
8048 % \trimb removes a trailing space if present, then calls \@bituftesidenote@trim@c to
8049 % clean up any leftover bizarre Qs, and trim a leading space. In
8050 % order for \trimc to work properly we need to put back a Q first.
8051 \def\@bituftesidenote@trim@b#1 Q{\@bituftesidenote@trim@c#1Q}
8052 % Execute \vfuzz assignment to remove leading space; the \noexpand
8053 % will now prevent unwanted expansion of a macro or other expandable
8054 % token at the beginning of the trimmed text. The \endgroup will feed
8055 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8056 \def\@bituftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8057 \catcode`\Q=11
8058 %%
8059 % Citations should go in the margin as sidenotes
8060
8061 \RequirePackage{natbib}
8062 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
8063 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8064 \renewcommand\BR@b@bibitem[2] [] {%
8065   \ifthenelse{\isempty{#1}}{%
8066     {\BR@b@bibitem{#2}}%
8067     {\BR@b@bibitem{#1}{#2}}%
8068   \BR@c@bibitem{#2}%
8069 }
8070 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8071 %%
8072 % Normal \cite behavior
8073 \newcounter{@bituftesidenote@num@bibkeys}%
8074 \newcommand{\@bituftesidenote@normal@cite}[2] [Opt] {%
8075   % Snag the last bibentry in the list for later comparison
8076   \let\@temp@last@bibkey\empty%
8077   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8078   \sidenote[] [#1] {%
8079     % Loop through all the bibentries, separating them with semicolons and spaces
8080     \normalsize\normalfont\@bituftesidenote@citation@font%
8081     \setcounter{@bituftesidenote@num@bibkeys}{0}%
8082     \@for\@temp@bibkeyx:=#2\do{%
8083       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8084         {\ifthenelse{\equal{\value{@bituftesidenote@num@bibkeys}}{0}}{-}{and\ }}%
8085         \@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8086         \bibentry{\@temp@bibkeyx}}%
8087         {\@bituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8088         \bibentry{\@temp@bibkeyx};\ }%
8089       \stepcounter{@bituftesidenote@num@bibkeys}%
8090     }%
8091   }%
8092 }
8093 \newcommand{\@bituftesidenote@LTrsidenote@normal@cite}[2] [Opt] {%
8094   % Snag the last bibentry in the list for later comparison
8095   \let\@temp@last@bibkey\empty%
8096   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8097   \LTrsidenote[] [#1] {%
8098     % Loop through all the bibentries, separating them with semicolons and spaces
8099     \normalsize\normalfont\@bituftesidenote@LTrcitation@font%

```



```

8100 \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8101 \@for\@temp@bibkeyx:=#2\do{%
8102 \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8103 {\ifthenelse{equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{and\ }%
8104 \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8105 \bibentry{\@temp@bibkeyx}}%
8106 {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8107 \bibentry{\@temp@bibkeyx};\ }%
8108 \stepcounter{@bidituftesidenote@num@bibkeys}%
8109 }%
8110 }%
8111 }
8112 \newcommand{\@bidituftesidenote@normal@cite}[2][Opt]{%
8113 % Snag the last bibentry in the list for later comparison
8114 \let\@temp@last@bibkey\empty%
8115 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8116 \RTLsidenote[] [#1]{%
8117 % Loop through all the bibentries, separating them with semicolons and spaces
8118 \normalsize\normalfont\@bidituftesidenote@citation@font%
8119 \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8120 \@for\@temp@bibkeyx:=#2\do{%
8121 \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8122 {\ifthenelse{equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{and\ }%
8123 \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8124 \bibentry{\@temp@bibkeyx}}%
8125 {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8126 \bibentry{\@temp@bibkeyx};\ }%
8127 \stepcounter{@bidituftesidenote@num@bibkeys}%
8128 }%
8129 }%
8130 }
8131 %%
8132 % Macros for holding the list of cite keys until after the \sidenote
8133 \gdef\@bidituftesidenote@citations{}% list of cite keys
8134 \newcommand\@bidituftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
8135 \ifx\@bidituftesidenote@citations\empty\else
8136 \g@addto@macro\@bidituftesidenote@citations{,}% separate by commas
8137 \fi
8138 \g@addto@macro\@bidituftesidenote@citations{#1}
8139 }
8140 \newcommand{\@bidituftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
8141 % Snag the last bibentry in the list for later comparison
8142 \let\@temp@last@bibkey\empty%
8143 \@for\@temp@bibkey:=\@bidituftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8144 \marginpar{%
8145 \hbox{\vspace*{#1}%
8146 \@bidituftesidenote@citation@font%
8147 \@bidituftesidenote@citation@justification%
8148 \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
8149 \vspace*{-1\baselineskip}}%
8150 % Loop through all the bibentries, separating them with semicolons and spaces
8151 \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8152 \@for\@temp@bibkeyx:=\@bidituftesidenote@citations\do{%
8153 \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{

```



```

8154         {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{\and\ }%
8155         \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8156         \bibentry{\@temp@bibkeyx}}}%
8157         {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8158         \bibentry{\@temp@bibkeyx};\ }%
8159     \stepcounter{@bidituftesidenote@num@bibkeys}%
8160 }%
8161 }%
8162 }
8163 %%
8164 % \cite behavior when executed within a sidenote
8165 \newcommand{\@bidituftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8166 \newcommand{\@bidituftesidenote@infootnote@cite}[1]{%
8167     \@bidituftesidenote@add@citation{#1}
8168 }
8169 %%
8170 % Set the default \cite style. This is set and reset by the \sidenote command.
8171 \let\cite\@bidituftesidenote@normal@cite
8172 \let\LTRcite\@bidituftesidenote@normal@cite
8173 \let\RTLcite\@bidituftesidenote@normal@cite
8174 %%
8175 % Transform existing \footnotes into \sidenotes
8176 % Sidenote: ``Where God meant footnotes to go.''' ---bidituftesidenote
8177 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arguments
8178 \providecommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenote@font}%
8179 \renewcommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenote@font}%
8180 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8181 % sidenote's text block.
8182 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bidituftesidenote@sidenote@font}%
8183 % Set the in-text footnote mark in the same typeface as the body text itself.
8184 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote@font}%
8185 \providecommand*\multiplefootnotemarker}{3sp}
8186 \providecommand*\multfootsep}{,}
8187 \bidi@patch@AfterPackage{bidi}{%
8188 \renewcommand{\footnotemark}{%
8189     \leavevmode%
8190     \ifhmode%
8191         \edef\@x@sf{\the\spacefactor}%
8192         \@bidituftesidenote@check@multiple@sidenotes%
8193         \nobreak%
8194     \fi%
8195     \@makefnmark%
8196     \ifhmode\spacefactor\@x@sf\fi%
8197     \relax%
8198 }%
8199 }
8200 \newcommand{\@bidituftesidenote@check@multiple@sidenotes}{%
8201     \ifdim\lastkern=\multiplefootnotemarker\relax%
8202         \edef\@x@sf{\the\spacefactor}%
8203         \unkern%
8204         \textsuperscript{\multfootsep}%
8205         \spacefactor\@x@sf\relax%
8206     \fi
8207 }

```





```

8208 \bidi@patch@AfterPackage{bidi}{%
8209 \renewcommand\@footnotetext[2][Opt]{%
8210   \bidityftesidenotemarginpar{%
8211     \hbox{}}\vspace*{#1}%
8212     \def\baselinestretch {\setspace@singlespace}%
8213     \reset@font%
8214     \bidi@@footnotetext@font% \reset@font\footnotesize%
8215     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8216     \vspace*{-1\baselineskip}\noindent%
8217     \protected@edef\@currentlabel{%
8218       \csname p@footnote\endcsname\@thefnmark%
8219     }%
8220     \color@begingroup%
8221       \makefnintext{%
8222         \ignorespaces#2%
8223       }%
8224     \color@endgroup%
8225   }%
8226 }%
8227 \renewcommand\@LTRfootnotetext[2][Opt]{%
8228   \LTRbidityftesidenotemarginpar{%
8229     \hbox{}}\vspace*{#1}%
8230     \def\baselinestretch {\setspace@singlespace}%
8231     \reset@font%
8232     \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
8233     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8234     \vspace*{-1\baselineskip}\noindent%
8235     \protected@edef\@currentlabel{%
8236       \csname p@footnote\endcsname\@thefnmark%
8237     }%
8238     \color@begingroup%
8239       \makefnintext{%
8240         \ignorespaces#2%
8241       }%
8242     \color@endgroup%
8243   }%
8244 }%
8245 \renewcommand\@RTLfootnotetext[2][Opt]{%
8246   \RTLbidityftesidenotemarginpar{%
8247     \hbox{}}\vspace*{#1}%
8248     \def\baselinestretch {\setspace@singlespace}%
8249     \reset@font%
8250     \bidi@@RTLfootnotetext@font% \reset@font\footnotesize%
8251     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8252     \vspace*{-1\baselineskip}\noindent%
8253     \protected@edef\@currentlabel{%
8254       \csname p@footnote\endcsname\@thefnmark%
8255     }%
8256     \color@begingroup%
8257       \makefnintext{%
8258         \ignorespaces#2%
8259       }%
8260     \color@endgroup%
8261   }%

```



```

8262 }%
8263 }
8264 %
8265 % Define \sidenote command. Can handle \cite.
8266 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8267 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8268 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8269 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8270   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8271   \gdef\@bidityftesidenote@citations{}% clear out any old citations
8272   \ifthenelse{\NOT\isempty{#2}}{%
8273     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8274   }{%
8275     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8276   }%
8277   \ifthenelse{\isempty{#1}}{%
8278     % no specific footnote number provided
8279     \stepcounter\@mpfn%
8280     \protected@xdef\@thefnmark{\thempfn}%
8281     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8282   }{%
8283     % specific footnote number provided
8284     \begingroup%
8285       \csname c@\@mpfn\endcsname #1\relax%
8286       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8287     \endgroup%
8288     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8289   }%
8290   \@bidityftesidenote@print@citations% print any citations
8291   \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
8292   \let\LTRcite\@bidityftesidenote@normal@cite% go back to using normal in-text \LTR
8293   \let\RTLCite\@bidityftesidenote@normal@cite% go back to using normal in-text \RTL
8294   \unskip\ignorespaces% remove extra white space
8295   \kern-\multiplefootnotemark% remove \kern left behind by sidenote
8296   \kern\multiplefootnotemark\relax% add new \kern here to replace the one we yanked
8297 }
8298 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8299   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8300   \gdef\@bidityftesidenote@citations{}% clear out any old citations
8301   \ifthenelse{\NOT\isempty{#2}}{%
8302     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8303   }{%
8304     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8305   }%
8306   \ifthenelse{\isempty{#1}}{%
8307     % no specific footnote number provided
8308     \stepcounter\@mpfn%
8309     \protected@xdef\@thefnmark{\thempfn}%
8310     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8311   }{%
8312     % specific footnote number provided
8313     \begingroup%
8314       \csname c@\@mpfn\endcsname #1\relax%
8315       \unrestored@protected@xdef\@thefnmark{\thempfn}%

```



```

8316 \endgroup%
8317 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8318 }%
8319 \@bidityftesidenote@print@citations%          print any citations
8320 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8321 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8322 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8323 \unskip\ignorespaces%                          remove extra white space
8324 \kern-\multiplefootnotemarker%                remove \kern left behind by sidenote
8325 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8326 }
8327 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8328 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8329 \gdef\@bidityftesidenote@citations{}%         clear out any old citations
8330 \ifthenelse{\NOT\isempty{#2}}{%
8331 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8332 }{%
8333 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8334 }%
8335 \ifthenelse{\isempty{#1}}{%
8336 % no specific footnote number provided
8337 \stepcounter\@mpfn%
8338 \protected@xdef\@thefnmark{\thempfn}%
8339 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8340 }{%
8341 % specific footnote number provided
8342 \begingroup%
8343 \csname c@\@mpfn\endcsname #1\relax%
8344 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8345 \endgroup%
8346 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8347 }%
8348 \@bidityftesidenote@print@citations%          print any citations
8349 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8350 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8351 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8352 \unskip\ignorespaces%                          remove extra white space
8353 \kern-\multiplefootnotemarker%                remove \kern left behind by sidenote
8354 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8355 }
8356 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8357 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8358 \newcommand{\RTLSidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8359 \bidi@patch@AfterPackage{bidi}{%
8360 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8361 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8362 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8363 }
8364 %%
8365 % Sidenote without the footnote mark
8366 \newcommand\marginnote[2] [Opt]{%
8367 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8368 \gdef\@bidityftesidenote@citations{}%         clear out any old citations
8369 \bidityftesidenotemarginpar{\hbox{} \vspace*{#1}\@bidityftesidenote@marginnote@font\@bidity

```



```

8370 \@bidityftesidenote@print@citations%          print any citations
8371 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8372 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8373 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8374 }
8375 \newcommand\LTRmarginnote[2][0pt]{%
8376 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8377 \gdef\@bidityftesidenote@citations{}%         clear out any old citations
8378 \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@
8379 \@bidityftesidenote@print@citations%          print any citations
8380 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8381 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8382 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8383 }
8384 \newcommand\RTLmarginnote[2][0pt]{%
8385 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8386 \gdef\@bidityftesidenote@citations{}%         clear out any old citations
8387 \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@
8388 \@bidityftesidenote@print@citations%          print any citations
8389 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8390 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8391 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8392 }

```

## 55 File bidityftetoc.sty

```

8393 \NeedsTeXFormat{LaTeX2e}
8394 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8395 bidi implementation of tufte toc]
8396 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8397 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8398 \newcommand{\@bidityftetoc@error}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8399 %%
8400 % Turn off section numbering
8401 \setcounter{secnumdepth}{-1}
8402 \newboolean{@bidityftetoc@toc}
8403 \setboolean{@bidityftetoc@toc}{true}
8404 \DeclareOption{notoc}{\setboolean{@bidityftetoc@toc}{false}}
8405 \DeclareOption{toc}{\setboolean{@bidityftetoc@toc}{true}}
8406 \ProcessOptions
8407 %%
8408 % Make Tufte-style section headings and TOC formatting
8409 \bidi@patch@AfterPackage{bidi}{%
8410 \titleformat{\chapter}%
8411 [display]% shape
8412 {\relax\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8413 {\itshape\huge\thechapter}% label
8414 {0pt}% horizontal separation between label and title body
8415 {\huge\rmfamily\itshape}% before the title body
8416 [\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the title
8417 \titleformat{\section}%
8418 [hang]% shape
8419 {\normalfont\Large\itshape}% format applied to label+text
8420 {\thesection}% label

```



```

8421 {1em}% horizontal separation between label and title body
8422 {}% before the title body
8423 []% after the title body
8424 \titleformat{\subsection}%
8425 [hang]% shape
8426 {\normalfont\large\itshape}% format applied to label+text
8427 {\thesubsection}% label
8428 {1em}% horizontal separation between label and title body
8429 {}% before the title body
8430 []% after the title body
8431 \titleformat{\paragraph}%
8432 [runin]% shape
8433 {\normalfont\itshape}% format applied to label+text
8434 {\theparagraph}% label
8435 {1em}% horizontal separation between label and title body
8436 {}% before the title body
8437 []% after the title body
8438 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8439 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8440 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus.2ex}
8441 }
8442 % Subsubsection and following section headings shouldn't be used.
8443 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8444 \renewcommand\subsubsection{%
8445 \bidityftetocError{\noexpand\subsubsection is undefined by this class.%
8446 \MessageBreak See Robert Bringhurst's _The Elements of
8447 \MessageBreak Typographic Style_, section 4.2.2.
8448 \MessageBreak \noexpand\subsubsection was used}
8449 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8450 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8451 \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8452 }
8453 \renewcommand\subparagraph{%
8454 \bidityftetocError{\noexpand\subparagraph is undefined by this class.%
8455 \MessageBreak See Robert Bringhurst's _The Elements of
8456 \MessageBreak Typographic Style_, section 4.2.2.
8457 \MessageBreak \noexpand\subparagraph was used}
8458 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8459 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8460 \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8461 }
8462 % Formatting for main TOC (printed in front matter)
8463 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8464 \ifthenelse{\boolean{@bidityftetoc@toc}}{%
8465 \bidi@patch@AfterPackage{bidi}{%
8466 \titlecontents{part}% FIXME
8467 [0em] % distance from left margin
8468 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8469 {\contentslabel{2em}} % before w/label (label = ``II'')
8470 {} % before w/o label
8471 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8472 [\end{fullwidth}] % after
8473 \titlecontents{chapter}%
8474 [0em] % distance from left margin

```



```

8475 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8476 {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8477 {\hspace*{0em}} % before w/o label
8478 {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8479 [\end{fullwidth}] % after
8480 \titlecontents{section}% FIXME
8481 [0em] % distance from left margin
8482 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8483 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8484 {\hspace*{2em}} % before w/o label
8485 {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8486 [\end{fullwidth}] % after
8487 \titlecontents{subsection}% FIXME
8488 [0em] % distance from left margin
8489 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8490 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8491 {\hspace*{4em}} % before w/o label
8492 {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8493 [\end{fullwidth}] % after
8494 \titlecontents{paragraph}% FIXME
8495 [0em] % distance from left margin
8496 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
8497 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8498 {\hspace*{6em}} % before w/o label
8499 {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8500 [\end{fullwidth}] % after
8501 }%
8502 {}
8503 %%
8504 % Format lists of figures/tables
8505 \renewcommand\listoffigures{%
8506 \ifundefined{chapter}%
8507 {\section*{\listfigurename}}%
8508 {\chapter*{\listfigurename}}%
8509 % \begin{fullwidth}%
8510 % \@starttoc{lof}%
8511 % \end{fullwidth}%
8512 }
8513 \renewcommand\listoftables{%
8514 \ifundefined{chapter}%
8515 {\section*{\listtablename}}%
8516 {\chapter*{\listtablename}}%
8517 % \begin{fullwidth}%
8518 % \@starttoc{lot}%
8519 % \end{fullwidth}%
8520 }
8521 \newcommand{\@biditytetoc@lof@line}[2]{%
8522 % #1 is the figure/table number and its caption text
8523 % #2 is the page number on which the figure/table appears
8524 \leftskip 0.0em
8525 \rightskip 0em
8526 \parfillskip 0em plus 1fil
8527 \parindent 0.0em
8528 \@afterindenttrue

```



```

8529 \interlinepenalty\@M
8530 \leavevmode
8531 \@tempdima 2.0em
8532 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8533 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8534 {#1}\nobreak\quad\nobreak#2%
8535 \par%
8536 }
8537 \renewcommand*\l@figure{\@bittuftetoc@lof@oline}
8538 \let\l@table\l@figure

```

## 56 File bittuftegeneralstructure.sty

```

8539 \NeedsTeXFormat{LaTeX2e}
8540 \ProvidesPackage{bittuftegeneralstructure}[2011/06/18 v0.1
8541 bidi implementation of tufte general structure]
8542 \renewcommand\small{%
8543   \@setfontsize\small\@ixpt{12}%
8544   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8545   \abovedisplayshortskip \z@ \@plus2\p@
8546   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8547   \def\@listi{\leftmargin\leftmargini
8548     \topsep 4\p@ \@plus2\p@ \@minus2\p@
8549     \parsep 2\p@ \@plus\p@ \@minus\p@
8550     \itemsep \parsep}%
8551   \belowdisplayskip \abovedisplayskip
8552 }
8553 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
8554 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vipt}
8555 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8556 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8557 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8558 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8559 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8560 \setlength\leftmargini {1pc}
8561 \setlength\leftmarginii {1pc}
8562 \setlength\leftmarginiii {1pc}
8563 \setlength\leftmarginiv {1pc}
8564 \setlength\leftmarginv {1pc}
8565 \setlength\leftmarginvi {1pc}
8566 \setlength\labelsep {0.5pc}
8567 \setlength\labelwidth {\leftmargini}
8568 \addtolength\labelwidth{-\labelsep}
8569 \setlength{\parindent}{1.0pc}%
8570 \setlength{\parskip}{0pt}%
8571 \RequirePackage{ragged2e}
8572 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8573 % Paragraph indentation and separation for normal text
8574 \newcommand{\@bittuftegeneralstructure@reset@par}{%
8575   \setlength{\RaggedRightParindent}{1.0pc}%
8576   \setlength{\JustifyingParindent}{1.0pc}%
8577   \setlength{\parindent}{1pc}%
8578   \setlength{\parskip}{0pt}%
8579 }

```



```

8580 \@biditytgeneralstructure@reset@par
8581 % Require paralist package for tighter lists
8582 \RequirePackage{paralist}
8583 % Add rightmargin to compactenum
8584 \def\@compactenum{%
8585   \expandafter\list\csname label\@enumctr\endcsname{%
8586     \usecounter{\@enumctr}%
8587     \rightmargin=2em% added this
8588     \parsep\plparsep
8589     \itemsep\plitemsep
8590     \topsep\pltopsep
8591     \partopsep\plpartopsep
8592   \def\makelabel##1{\hss\llap{##1}}}%
8593 %%
8594 % An environment for paragraph-style section
8595 \providecommand\newthought[1]{%
8596   \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8597   \noindent\textbf{#1}%
8598 }
8599 %%
8600 % Redefine the display environments (quote, quotation, etc.)
8601 \renewenvironment{verse}
8602   {\let\\\@centercr
8603    \list{}\{\itemsep \z@
8604             \itemindent -1pc%
8605             \listparindent\itemindent
8606             \rightmargin \leftmargin
8607             \advance\leftmargin 1pc}%
8608    \small%
8609    \item\relax}
8610   {\endlist}
8611 \renewenvironment{quotation}
8612   {\list{}\{\listparindent 1pc%
8613             \itemindent \listparindent
8614             \rightmargin \leftmargin
8615             \parsep \z@ \@plus\p@}%
8616    \small%
8617    \item\relax\noindent\ignorespaces}
8618   {\endlist}
8619 \renewenvironment{quote}
8620   {\list{}\{\rightmargin\leftmargin}%
8621    \small%
8622    \item\relax}
8623   {\endlist}
8624 % Italicize description run-in headings (instead of the default bold)
8625 \renewcommand*{\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8626 %%
8627 % Redefine \bibsection to not mark the running heads.
8628 % (Code modified from natbib.sty.)
8629 \@ifundefined{chapter}%
8630   {\renewcommand\bibsection{\section*{\refname}}}
8631   {\@ifundefined{NAT@sectionbib}%
8632     {\renewcommand\bibsection{\chapter{\bibname}}}
8633     {\renewcommand\bibsection{\section*{\bibname}}}}

```





```

8634 \RequirePackage{multicol}
8635 \renewenvironment{theindex}{%
8636 \@ifundefined{chapter}%
8637     {\section*{\indexname}}%
8638     {\chapter{\indexname}}%
8639 \begin{fullwidth}%
8640 \small%
8641 \parskip0pt%
8642 \parindent0pt%
8643 \let\item\@idxitem%
8644 \begin{multicols}{3}%
8645 }{%
8646 \end{multicols}%
8647 \end{fullwidth}%
8648 }
8649 \AtBeginDocument{%
8650 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8651 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8652 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8653 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8654 \newcommand{\lettergroup}[1]{% swallow the letter heading in the index

```

## 57 File `bidituftehyperref.sty`

```

8655 \NeedsTeXFormat{LaTeX2e}
8656 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8657 bidi implementation of tufte hyperref]
8658 %%
8659 % Color
8660 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8661 \newboolean{@bidituftehyperref@loadhyper}
8662 \setboolean{@bidituftehyperref@loadhyper}{true}
8663 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8664 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8665 \ProcessOptions
8666 %% Loads the hyperref package and sets some default options.
8667 \newcommand{\bidituftehyperrefLoadHyperref}{%
8668 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8669 \hypersetup{%
8670     bookmarksdepth = section,
8671     citecolor = DarkGreen,
8672     linkcolor = DarkBlue,
8673     % pagecolor = DarkBlue,
8674     urlcolor = DarkGreen,
8675 }%
8676 }
8677 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8678 \bidituftehyperrefLoadHyperref%
8679 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8680 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8681 }

```

## 58 File `bidituftetitle.sty`



```

8682 \NeedsTeXFormat{LaTeX2e}
8683 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8684 bidi implementation of tufte title]
8685 \RequirePackage{biditools}
8686 %%
8687 % 'titlepage' option -- creates a full title page with \maketitle
8688 \newboolean{@bidituftetitle@titlepage}
8689 \DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
8690 \DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
8691 % Default 'book' and 'handout' options
8692 \@ifclassloaded{book}{%
8693 \ExecuteOptions{titlepage}}{%
8694 \@ifclassloaded{article}{%
8695 \ExecuteOptions{notitlepage}}%
8696 {}}
8697 \ProcessOptions
8698 %%
8699 % Modified \title, \author, and \date commands. These store the
8700 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8701 \newcommand{\plaintitle}{}% plain-text-only title
8702 \newcommand{\plainauthor}{}% plain-text-only author
8703 \newcommand{\plainpublisher}{}% plain-text-only publisher
8704 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8705 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8706 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8707 \newcommand{\@publisher}{}% full publisher with \thanks{}
8708 \newcommand{\thedata}{\today}
8709 \bidi@patch@AfterPackage{bidi}{%
8710 \renewcommand{\thanks}[1]{\footnote{#1}}
8711 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8712 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8713 }
8714 \renewcommand{\title}[2][]{%
8715 \gdef\@title{#2}%
8716 \begingroup%
8717 % TODO store contents of \thanks command
8718 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8719 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8720 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8721 \protected@xdef\thanklesstitle{#2}%
8722 \endgroup%
8723 \ifthenelse{\isempty{#1}}{%
8724 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8725 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8726 \@ifundefined{hypersetup}%
8727 {}% hyperref is not loaded; do nothing
8728 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8729 }
8730 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8731 \renewcommand{\author}[2][]{%
8732 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8733 \begingroup%
8734 % TODO store contents of \thanks command
8735 \renewcommand{\thanks}[1]{}% swallow \thanks contents

```



```

8736 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8737 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8738 \protected@xdef\thanklessauthor{#2}%
8739 \endgroup%
8740 \ifthenelse{\isempty{#1}}%
8741 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8742 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8743 \@ifundefined{hypersetup}%
8744 {}% hyperref is not loaded; do nothing
8745 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8746 }
8747 \renewcommand{\date}[1]{%
8748 \gdef\@date{#1}%
8749 \begingroup%
8750 % TODO store contents of \thanks command
8751 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8752 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8753 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8754 \protected@xdef\thedata{#1}%
8755 \endgroup%
8756 }
8757 %%
8758 % Provides a \publisher command to set the publisher
8759 \newcommand{\publisher}[2][]{%
8760 \gdef\@publisher{#2}%
8761 \begingroup%
8762 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8763 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8764 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8765 \protected@xdef\thanklesspublisher{#2}%
8766 \endgroup%
8767 \ifthenelse{\isempty{#1}}
8768 {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8769 {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8770 }
8771 %%
8772 % Produces a full title page
8773 \newcommand{\maketitlepage}[0]{%
8774 \cleardoublepage%
8775 {%
8776 \bfseries%
8777 \begin{fullwidth}%
8778 \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8779 \vspace{11.5pc}%
8780 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8781 \vfill%
8782 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8783 \end{fullwidth}%
8784 }
8785 \thispagestyle{empty}%
8786 \clearpage%
8787 }
8788 %%
8789 % Title block

```



```

8790 \bidi@AfterEndPreamble{%
8791 \renewcommand{\maketitle}{%
8792   \newpage%
8793   \global\@topnum\z@% prevent floats from being placed at the top of the page
8794   \begingroup%
8795     \setlength{\parindent}{0pt}%
8796     \setlength{\parskip}{4pt}%
8797     \let\@title\@empty%
8798     \let\@author\@empty%
8799     \let\@date\@empty%
8800     \gdef\@title{\LARGE\itshape\@title\par}%
8801     \gdef\@author{\Large\itshape\@author\par}%
8802     \gdef\@date{\Large\itshape\@date\par}%
8803     \@title%
8804     \@author%
8805     \@date%
8806   \endgroup%
8807   \thispagestyle{plain}% suppress the running head
8808 }%
8809 }
8810 %%
8811 % Title page (if the `titlepage' option was passed to the bidentuftetitle-handout
8812 % class.)
8813 \bidi@AfterEndPreamble{%
8814 \ifthenelse{\boolean{@bidentuftetitle@titlepage}}
8815   {\renewcommand{\maketitle}{\maketitlepage}}
8816   {}
8817 }
8818 %%
8819 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8820 % without headers and footers
8821 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8822   \hbox{}
8823   %\vspace*{\fill}
8824   %\begin{center}
8825   % This page intentionally contains only this sentence.
8826   %\end{center}
8827   %\vspace{\fill}
8828   \thispagestyle{empty}
8829   \newpage
8830   \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

## 59 File bidentufte-handout.cls

```

8831 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8832 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]
8833 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8834 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
8835 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}
8836 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftehyperref}}
8837 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetitle}}
8838 \ProcessOptions\relax
8839 \LoadClass{article}
8840 \RequirePackage{bidentuftefloat}

```



```

8841 \RequirePackage{bidiufte-sidenote}
8842 \RequirePackage{bidiuftetoc}
8843 \RequirePackage{bidiufte-generalstructure}
8844 \RequirePackage{bidiufte-hyperref}
8845 \RequirePackage{bidiuftetitle}
8846 \renewenvironment{abstract}
8847   {\begin{quotation}}
8848   {\end{quotation}}
8849 \AtBeginDocument{%
8850 \IfFileExists{bidiufte-handout.cfg}
8851   {\input{bidiufte-handout.cfg}
8852     \ClassInfo{bidiufte-handout}{Loading bidiufte-handout configuration file \@gobble}}
8853   {}%
8854 }

```

## 60 File bidiufte-book.cls

```

8855 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8856 \ProvidesClass{bidiufte-book}[2011/06/18 v0.1 bidiufte-book class]
8857 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8858 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftefloat}}
8859 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftetoc}}
8860 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftehyperref}}
8861 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftetitle}}
8862 \ProcessOptions\relax
8863 \LoadClass{book}
8864 \RequirePackage{bidiuftefloat}
8865 \RequirePackage{bidiufte-sidenote}
8866 \RequirePackage{bidiuftetoc}
8867 \RequirePackage{bidiufte-generalstructure}
8868 \RequirePackage{bidiufte-hyperref}
8869 \RequirePackage{bidiuftetitle}
8870 %%
8871 % Set up any book-specific stuff now
8872 %%
8873 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8874 % to the opening page of Chapter 1. The running heads, when they appear,
8875 % contain only the (arabic) page number in the outside corner.
8876 %\newif\if@mainmatter \@mainmattertrue
8877 \renewcommand\frontmatter{%
8878   \cleardoublepage%
8879   \@mainmatterfalse%
8880   \pagenumbering{arabic}%
8881   %\pagestyle{plain}%
8882   \fancyhf{}%
8883   \ifthenelse{\boolean{@bidiuftefloat@twoside}}{%
8884     {\fancyhead[LE,RO]{\thepage}}%
8885     {\fancyhead[RE,RO]{\thepage}}%
8886   }
8887 %%
8888 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8889 % numbering---it continues where it left off in the front matter.
8890 \renewcommand\mainmatter{%
8891   \cleardoublepage%

```



```

8892 \@mainmattertrue%
8893 \fancyhf{}%
8894 \ifthenelse{\boolean{@biditytuftefloat@twoside}}%
8895     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8896     \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8897     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8898     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8899 }
8900 %%
8901 % The back matter contains appendices, indices, glossaries, endnotes,
8902 % bibliographies, list of contributors, illustration credits, etc.
8903 \renewcommand\backmatter{%
8904     \if@openright%
8905         \cleardoublepage%
8906     \else%
8907         \clearpage%
8908     \fi%
8909 \@mainmatterfalse%
8910 }
8911 %%
8912 % Only show the chapter titles in the table of contents
8913 \setcounter{tocdepth}{0}
8914 \AtBeginDocument{%
8915     \IfFileExists{biditytufte-book.cfg}
8916     {\input{biditytufte-book.cfg}
8917      \ClassInfo{biditytufte-book}{Loading biditytufte-book configuration file \@gobble}}
8918     {}%
8919 }

```

## 61 File bidipoem.sty

```

8920 \NeedsTeXFormat{LaTeX2e}
8921 \ProvidesPackage{bidipoem}%
8922 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8923
8924 % Usage:
8925 %
8926 % \Setversedim #1#2 % define the layout (within a group):
8927 % #1 = length of both half-verses
8928 % #2 = separation distance = length of a connection, if present
8929 % Variant:
8930 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8931 % #1 = length of first (=right) half-verse
8932 % #2 = length of second (=left) half-verse
8933 % #3 = separation distance = length of a connection, if present
8934 %
8935 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8936 % #1 = text of first (=right) half-verse
8937 % #2 = text of second (=left) half-verse
8938 % Variant:
8939 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8940 % #1 = text of first (=right) half-verse
8941 % #2 = text of connection
8942 % #3 = text of second (=left) half-verse

```



```

8943 %
8944 % Alternative (if preferred):
8945 %
8946 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8947
8948
8949 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8950
8951 % define the layout, verses will be centered
8952
8953 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8954 \newdimen \bidipoem@hvind \newdimen \bidipoem@hvlen
8955
8956 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8957 \bidipoem@hvind \textwidth
8958 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8959 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8960 \bidipoem@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8961
8962 \def \bidipoem@set@verseI [#1]{% optional parameter
8963 \bidipoem@hvlen #1\relax \bidipoem@set@@verse }
8964
8965 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8966 \advance \bidipoem@hvind -\bidipoem@hvlen \bidipoem@hvsep #1\relax
8967 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8968
8969 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8970 \ifdim Opt > \bidipoem@hvind %
8971 \bidipoem@spreadbox \bidipoem@hvlen {#1}\ \hfill % first block
8972 \else
8973 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8974 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8975 \bidipoem@spreadbox \bidipoem@hvlen {#3}% second block
8976 \par }
8977
8978 % macro for two half verses
8979 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8980 \ifx [#2\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}}}%
8981 \else\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}\hfill}{#2}}\fi%
8982 \bidipoem@half@verses@next}
8983
8984 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8985 \traditionalconnverses {#1}{#2}{#3}}
8986
8987
8988 {\catcode\^^M=\active % these lines must end with %
8989 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8990 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8991 {\catcode\^^M=\active % these lines must end with %
8992 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
8993 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8994 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8995 \def\poemmarginskip{1em plus 1fil minus 1em}
8996 \def\poemextrabaselineskip{0\baselineskip}

```



```

8997 \def\poemskip{\medskip}
8998 \newcommand{\bidipoem@openbox}{\leavevmode
8999   \hbox to.77778em{%
9000     \hfil\vrule
9001     \vbox to.675em{\hrule width.6em\vfil\hrule}%
9002     \vrule\hfil}}
9003 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
9004 \newdimen\versewidth
9005 \newtoks\bidipoem@p@ftn
9006 \def\poem@verse#1{%
9007   \ifdim\wd#1>\new@poem@width
9008   \xdef\new@poem@width{\the\wd#1}%
9009   \ifdim\new@poem@width>\poem@width
9010   \xdef\poem@width{\new@poem@width}%
9011   \global\let\poem@needrun\relax
9012   \fi
9013   \fi
9014   \hbox to\poem@width{\unhbox#1}%
9015   \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
9016 }
9017 \def\poem@linebegin{\vadjust{}}\hskip\@flushglue\hskip\poemmargin\relax}
9018 \def\poem@lineend{\nobreak\hskip\poemmargin\hskip\@flushglue\vadjust{}}
9019 \def\poem@lineversesep{%
9020 \nobreak
9021 \hskip\z@ plus 1filll%
9022 \penalty600%
9023 \hskip\poemcolsepskip
9024 \hskip\z@ plus -2filll%
9025 \vadjust{}}%
9026 \nobreak
9027 \hskip\z@ plus 1filll%
9028 }
9029 \def\poem@lineparsebegin{%
9030 \halign\bgroup
9031 \global\setbox\verse@i=\hbox{%
9032 \let\@footnotetext\bidipoem@p@ftntext%
9033 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9034 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9035 \let\@xfootnotenext\bidipoem@p@xftntext%
9036 \let\@xfootnote\bidipoem@p@xfootnote%
9037 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9038 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9039 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9040 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9041 \ignorespaces##\unskip}&&
9042 \global\setbox\verse@ii=\hbox{%
9043 \let\@footnotetext\bidipoem@p@ftntext%
9044 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9045 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9046 \let\@xfootnotenext\bidipoem@p@xftntext%
9047 \let\@xfootnote\bidipoem@p@xfootnote%
9048 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9049 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9050 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%

```





```

9051 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9052 \ignorespaces##\unskip}
9053 \cr
9054 }
9055 \def\poem@lineparseend{%
9056 \crcr\egroup
9057 \vskip-\baselineskip
9058 }
9059 \def\traditionalpoem@cr{%
9060 \cr\poem@line
9061 }
9062 \newbox\verse@i
9063 \newbox\verse@ii
9064 \newif\ifpoem@started
9065
9066 \def\poem@line{%
9067 \poem@lineparseend
9068 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9069 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9070 \ifpoem@started
9071 \ifdim\wd\verse@ii>\z@\else
9072 \nopagebreak[3]
9073 \fi
9074 \leavevmode
9075 \poem@linebegin
9076 \poem@verse\verse@i
9077 \ifdim\wd\verse@ii>\z@
9078 \poem@lineversesep
9079 \poem@verse\verse@ii
9080 \fi
9081 \poem@lineend
9082 % \nopagebreak
9083 \par
9084 \vskip\poemextrabaselineskip
9085 \fi
9086 \poem@lineparsebegin
9087 }
9088 \def\@traditionalpoem{%
9089 \stepcounter{poem@no}
9090 \ifnum\max@poem@no<\number\c@poem@no%
9091 \xdef\poem@width{\z@}%
9092 \else
9093 \xdef\poem@width{\poem@prop{poem@width}}%
9094 \fi
9095 \xdef\new@poem@width{\z@}%
9096 \global\versewidth=\poem@width
9097 \poemskip\par
9098 \beginngroup
9099 \tabskip=\z@
9100 \parskip=\z@
9101 \parindent=\z@
9102 \parfillskip=\z@
9103 \rightskip=\z@
9104 \leftskip=\z@

```



```

9105 \widowpenalty=10000% No break between verses of the same line.
9106 \clubpenalty=10000% Same as above. Not really needed.
9107 \def\newblock{\hfil\poemblocksep\hfil\null}%
9108 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9109 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9110 \global\poem@startedfalse
9111 \csname poem@obeylines\endcsname
9112 \let\poem@obeylines\relax
9113 \poem@lineparsebegin
9114 }
9115 \def\@endtraditionalpoem{%
9116 \cr
9117 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9118 \noalign{%
9119 \skip0=\poemextrabaselineskip
9120 \vskip-\skip0
9121 \vskip-\baselineskip
9122 }%
9123 \fi\fi
9124 \poem@lineparseend
9125 \endgroup
9126 \par
9127 \vskip\baselineskip
9128 \poemskip
9129 \ifdim\new@poem@width<\poem@width
9130 \global\let\poem@needrun\relax
9131 \fi
9132 \poem@write@aux{\poem@width\romannumeral\c@poem@no}\{new@poem@width}%
9133 \ifx\AtEndDocument\undefined\poem@finish\fi
9134 \@endparenv
9135 }
9136
9137
9138 \long\def\bidipoem@p@ftntext#1{%
9139 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
9140 \global\bidipoem@p@ftn\expandafter{\@temp{x#1}}}%
9141 \long\def\bidipoem@p@LTRftntext#1{%
9142 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
9143 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9144 \long\def\bidipoem@p@RTLftntext#1{%
9145 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
9146 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9147
9148 \long\def\bidipoem@p@xftntext[#1]#2{%
9149 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
9150
9151 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9152 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
9153
9154 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9155 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
9156
9157 \def\bidipoem@p@xfootnote[#1] {%
9158 \begingroup

```



```

9159     \csname c@\mpfn\endcsname #1\relax
9160     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9161     \endgroup
9162     \@footnotemark\bidipoem@p@xftntext[#1]}
9163
9164 \def\bidipoem@p@xLTRfootnote[#1]{%
9165     \begingroup
9166     \csname c@\mpfn\endcsname #1\relax
9167     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9168     \endgroup
9169     \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9170
9171 \def\bidipoem@p@xRTLfootnote[#1]{%
9172     \begingroup
9173     \csname c@\mpfn\endcsname #1\relax
9174     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9175     \endgroup
9176     \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9177
9178
9179
9180 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9181 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obeylines}
9182 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9183 \def\poem@finish{%
9184     \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9185     \ifx\poem@needrun\relax
9186     \PackageWarning{bidipoem}{Unjustified poem.  Rerun TeX to get poem right}%
9187     \global\let\poem@needrun\undefined
9188     \fi
9189 }
9190 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9191 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9192 \ifx\max@poem@no\undefined
9193     \def\max@poem@no{0}%
9194 \fi
9195 \newcommand{\poem@prop}[1]{\@nameuse{#1@\romannumeral\c@poem@no}}
9196 \newcommand{\poem@write@aux}[2]{%
9197     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9198     \@x
9199 }
9200 \def\@modernpoem{%
9201     \par
9202     \begingroup
9203     \parskip=\z@
9204     \parindent=\z@
9205     \def\[{ \@settab\@tabplus\ignorespaces}%
9206     \def\]{ \@tabminus\ignorespaces}%
9207     \def\newblock{\poemblocksep}%
9208     \let\newpoem@tabcr\@tabcr
9209     \def\modernpoem@par{% Redefine \par for possible \obeylines
9210         \ifpoem@started\else
9211             \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9212                 \@stopfield

```



```

9213      \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9214      \@contfield
9215      \fi
9216      \fi
9217      \ifpoem@started\newpoem@tabcr\fi}%
9218      \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9219      \global\poem@startedfalse
9220      \csname poem@obeylines\endcsname
9221      \let\poem@obeylines\relax
9222      \begin{tabbing}%
9223      }
9224      \def\@endmodernpoem{%
9225      \global\poem@startedfalse
9226      \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9227      \@stopfield
9228      \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9229      \@contfield
9230      \fi
9231      \ifpoem@started\else\let\@stopline\@stopfield\fi
9232      \end{tabbing}%
9233      \endgroup
9234      \par
9235      \if@noparlist \else
9236      \ifdim\lastskip >\z@
9237      \@tempskipa\lastskip \vskip -\lastskip
9238      \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9239      \vskip\@tempskipa
9240      \fi
9241      \@endparenv
9242      \fi
9243      }
9244      \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9245      \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9246      \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9247      \gdef\@startfield{%
9248      \global\setbox\@curfield\hbox\bgroup%
9249      \let\@footnotetext\bidipoem@p@ftntext%
9250      \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9251      \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9252      \let\@xfootnotenext\bidipoem@p@xftntext%
9253      \let\@xfootnote\bidipoem@p@xfootnote%
9254      \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9255      \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9256      \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9257      \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9258      \color@begingroup}
9259      \gdef\@stopfield{%
9260      \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9261      \gdef\@contfield{%
9262      \global\setbox\@curfield\hbox\bgroup%
9263      \let\@footnotetext\bidipoem@p@ftntext%
9264      \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9265      \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9266      \let\@xfootnotenext\bidipoem@p@xftntext%

```



```

9267 \let\@xfootnote\bidipoem@p@xfootnote%
9268 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9269 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9270 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9271 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9272 \color@begingroup\unhbox\@curfield}

```

## 62 File boek3-xetex-bidi.def

```

9273 \ProvidesFile{boek3-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for boek3 class for XeT
9274 \renewenvironment{theindex}{%
9275   \if@twocolumn
9276     \@restonecolfalse
9277   \else
9278     \@restonecoltrue
9279   \fi
9280   \columnseprule \z@
9281   \columnsep 35\p@
9282   \twocolumn[\@makeschapterhead{\indexname}]%
9283   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9284   \thispagestyle{plain}\parindent\z@
9285   \parskip\z@ \@plus .3\p@\relax
9286   \let\item\@idxitem
9287 }{%
9288   \if@restonecol\onecolumn\else\clearpage\fi}
9289 \renewcommand*\head@style{%
9290   \interlinepenalty \@M
9291   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9292   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9293 \renewcommand*\@regtocline[3]{%
9294   \ifnum #1>\c@tocdepth
9295   \else
9296     \vskip\z@ \@plus .2\p@
9297     {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
9298     \if@RTL\rightskip\else\leftskip\fi\unitindent
9299     \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
9300     \parfillskip\z@
9301     \@tempdima\unitindent
9302     \parindent\z@
9303     \leavevmode
9304     \hbox{\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9305     \hskip 1em \nobreak{\slshape #3}\par
9306     }%
9307   \fi}
9308 \if@oldtoc
9309 \renewcommand*\l@part[2]{%
9310   \ifnum \c@tocdepth >-2\relax
9311     \addpenalty{-\@highpenalty}%
9312     \addvspace{2.25em \@plus\p@}%
9313     \begingroup
9314       \setlength\@tempdima{3em}%
9315       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9316       \parfillskip -\@pnumwidth
9317       {\leavevmode

```



```

9318      \large \bfseries #1\hfil \hb@xt@{\pnumwidth{\hss #2}}\par
9319      \nobreak
9320      \global\@nobreaktrue
9321      \everypar{\global\@nobreakfalse\everypar{}}%
9322  \endgroup
9323 \fi}
9324 \else
9325   \renewcommand*\l@part{%
9326     \ifnum \c@tocdepth >-2\relax
9327       \addpenalty{-\@highpenalty}%
9328       \addvspace{2.25em \@plus \p@}%
9329       \@regtocline{0}%
9330     \fi}
9331 \fi
9332 \if@oldtoc
9333 \renewcommand*\l@chapter[2]{%
9334   \addpenalty{-\@highpenalty}%
9335   \vskip 1.0em \@plus \p@
9336   \setlength\@tempdima{1.5em}%
9337   \begingroup
9338   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9339   \parfillskip -\@pnumwidth
9340   \leavevmode \bfseries
9341   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9342   \hskip -\if@RTL\rightskip\else\leftskip\fi
9343   #1\nobreak\hfil \nobreak\hb@xt@{\pnumwidth{\hss #2}}\par
9344   \penalty\@highpenalty
9345   \endgroup}
9346 \else
9347   \renewcommand*\l@chapter{\@regtocline{0}}
9348 \fi
9349 \renewenvironment{abstract}{%
9350   \titlepage
9351   \null\vfil
9352   \section*{\SectFont \abstractname}
9353   \noindent\ignorespaces}
9354   {\par\vfil\null\endtitlepage}
9355 \renewenvironment{thebibliography}[1]
9356   {\chapter*{\bibname}%
9357    \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9358    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9359    \bidi@thebibliography@font@hook%
9360    \list{\@biblabel{\@arabic\c@enumiv}}%
9361      {\settowidth\labelwidth{\@biblabel{#1}}%
9362       \leftmargin\labelwidth
9363       \advance\leftmargin\labelsep
9364       \openbib@code
9365       \usecounter{enumiv}%
9366       \let\p@enumiv\@empty
9367       \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9368    \sloppy\clubpenalty4000\widowpenalty4000%
9369    \sfcode`\.\@m}
9370 {\def\@noitemerr
9371   {\@latex@warning{Empty `thebibliography' environment}}}%

```



```

9372         \endlist}
9373 \renewcommand*\left@footnoterule{%
9374     \kern-3\p@
9375     \kern.5\baselineskip
9376     \hrule\@width\unitindent
9377     \kern.4\baselineskip
9378 }
9379 \renewcommand*\right@footnoterule{%
9380     \kern-3\p@
9381     \kern.5\baselineskip
9382     \nointerlineskip
9383     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9384     \kern.4\baselineskip}
9385 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9386 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
9387 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
9388 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9389 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9390 \renewcommand*\theequation{%
9391     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9392 \renewcommand*\thefigure{%
9393     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9394 \renewcommand*\thetable{%
9395     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9396 \renewcommand*\maketitle{%
9397     \begin{titlepage}%
9398         \let\footnotesize\small
9399         \let\right@footnoterule\relax
9400         \let\left@footnoterule\relax
9401         \let\textwidth\footnoterule\relax
9402         \let \footnote \thanks
9403         \long\def\@makefntext##1{\parindent\z@
9404             \def\labelitemi{\textendash}\@revlabeltrue
9405             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9406         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9407         \if@compatibility\setcounter{page}{0}\fi
9408         \null\vfil
9409         \vskip 60\p@
9410         \begin{center}%
9411             \TitleFont
9412             {\LARGE \def\\{\penalty -\@M}
9413                 \if@allcaps
9414                     \expandafter\uc@nothanks\@title\thanks\relax
9415                 \else
9416                     \@title
9417                     \fi\par}%
9418             \vskip 3em%
9419             {\large
9420                 \lineskip .75em \parindent\z@
9421                 \begin{tabular}[t]{c}%
9422                     \if@allcaps
9423                         \expandafter\uc@authornothanks\@author\and\relax
9424                     \else
9425                         \@author

```



```

9426         \fi
9427         \end{tabular}\par}%
9428         \vskip 1.5em%
9429         {\large
9430         \if@allcaps
9431         \uppercase\expandafter{\@date}%
9432         \else
9433         \@date
9434         \fi\par}%
9435     \end{center}\par
9436     \@thanks
9437     \vfil\null
9438 \end{titlepage}%
9439 \setcounter{footnote}{0}%
9440 \global\let\thanks\relax
9441 \global\let\maketitle\relax
9442 \global\let\@thanks\@empty
9443 \global\let\@author\@empty
9444 \global\let\@title\@empty
9445 \global\let\@date\@empty
9446 \global\let\title\relax
9447 \global\let\author\relax
9448 \global\let\date\relax
9449 \global\let\and\relax
9450 }

```

## 63 File boek-xetex-bidi.def

```

9451 \ProvidesFile{boek-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for boek class for XeTeX]
9452 \renewenvironment{theindex}{%
9453     \if@twocolumn
9454         \@restonecolfalse
9455     \else
9456         \@restonecoltrue
9457     \fi
9458     \columnseprule \z@
9459     \columnsep 35\p@
9460     \twocolumn[\@makeschapterhead{\indexname}]%
9461     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9462     \thispagestyle{plain}\parindent\z@
9463     \parskip\z@ \@plus .3\p@\relax
9464     \let\item\@idxitem
9465 }{%
9466     \if@restonecol\onecolumn\else\clearpage\fi}
9467 \renewcommand*{head@style}{%
9468     \interlinepenalty \@M
9469     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9470     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9471 \renewcommand*{\@regtocline[3]{%
9472     \ifnum #1>\c@tocdepth
9473     \else
9474         \vskip\z@\@plus.2\p@
9475         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9476         \if@RTL\rightskip\else\leftskip\fi\unitindent

```





```

9477 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9478 \parfillskip\z@
9479 \@tempdima\unitindent
9480 \parindent\z@
9481 \leavevmode
9482 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9483 \hskip 1em \nobreak{\slshape #3}\par
9484 }%
9485 \fi}
9486 \if@oldtoc
9487 \renewcommand*\l@part[2]{%
9488 \ifnum \c@tocdepth >-2\relax
9489 \addpenalty{-\@highpenalty}%
9490 \addvspace{2.25em \@plus\p@}%
9491 \begingroup
9492 \setlength\@tempdima{3em}%
9493 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9494 \parfillskip -\@pnumwidth
9495 {\leavevmode
9496 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9497 \nobreak
9498 \global\@nobreaktrue
9499 \everypar{\global\@nobreakfalse\everypar{}}%
9500 \endgroup
9501 \fi}
9502 \else
9503 \renewcommand*\l@part{%
9504 \ifnum \c@tocdepth >-2\relax
9505 \addpenalty{-\@highpenalty}%
9506 \addvspace{2.25em \@plus \p@}%
9507 \@regtocline{0}%
9508 \fi}
9509 \fi
9510 \if@oldtoc
9511 \renewcommand*\l@chapter[2]{%
9512 \addpenalty{-\@highpenalty}%
9513 \vskip 1.0em \@plus\p@
9514 \setlength\@tempdima{1.5em}%
9515 \begingroup
9516 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9517 \parfillskip -\@pnumwidth
9518 \leavevmode \bfseries
9519 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9520 \hskip -\if@RTL\rightskip\else\leftskip\fi
9521 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9522 \penalty\@highpenalty
9523 \endgroup}
9524 \else
9525 \renewcommand*\l@chapter{\@regtocline{0}}
9526 \fi
9527 \renewcommand*\left@footnoterule{%
9528 \kern-3\p@
9529 \kern.5\baselineskip
9530 \hrule\@width\unitindent

```



```

9531 \kern.4\baselineskip
9532 }
9533 \renewcommand*\right@footnoterule{%
9534 \kern-3\p@
9535 \kern.5\baselineskip
9536 \nointerlineskip
9537 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9538 \kern.4\baselineskip}
9539 \renewenvironment{abstract}{%
9540 \titlepage
9541 \null\vfil
9542 \section*{\SectFont \abstractname}
9543 \noindent\ignorespaces}
9544 {\par\vfil\null\endtitlepage}
9545 \renewenvironment{thebibliography}[1]
9546 {\chapter*{\bibname}%
9547 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9548 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
9549 \bidi@thebibliography@font@hook%
9550 \list{\@biblabel{\@arabic\c@enumiv}}%
9551 {\settowidth\labelwidth{\@biblabel{#1}}%
9552 \leftmargin\labelwidth
9553 \advance\leftmargin\labelsep
9554 \@openbib@code
9555 \usecounter{enumiv}%
9556 \let\p@enumiv\@empty
9557 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9558 \sloppy\clubpenalty4000\widowpenalty4000%
9559 \sfcode\.\@m}
9560 {\def\@noitemerr
9561 {\@latex@warning{Empty `thebibliography' environment}}}%
9562 \endlist}
9563 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9564 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9565 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9566 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9567 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9568 \renewcommand*\theequation{%
9569 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9570 \renewcommand*\thefigure{%
9571 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9572 \renewcommand*\thetable{%
9573 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9574 \renewcommand*\maketitle{%
9575 \begin{titlepage}%
9576 \let\footnotesize\small
9577 \let\right@footnoterule\relax
9578 \let\left@footnoterule\relax
9579 \let\textwidth\footnoterule\relax
9580 \let \footnote \thanks
9581 \long\def\@makefnmark{\parindent\z@
9582 \def\labelitemi{\textendash}\@revlabeltrue
9583 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9584 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%

```



```

9585 \ifcompatibility\setcounter{page}{0}\fi
9586 \null\vfil
9587 \vskip 60\p@
9588 \begin{center}%
9589 \TitleFont
9590 {\LARGE \def\\{\penalty -\@M}
9591 \if@allcaps
9592 \expandafter\uc@nothanks\@title\thanks\relax
9593 \else
9594 \@title
9595 \fi\par}%
9596 \vskip 3em%
9597 {\large
9598 \lineskip .75em \parindent\z@
9599 \begin{tabular}[t]{c}%
9600 \if@allcaps
9601 \expandafter\uc@authornothanks\@author\and\relax
9602 \else
9603 \@author
9604 \fi
9605 \end{tabular}\par}%
9606 \vskip 1.5em%
9607 {\large
9608 \if@allcaps
9609 \uppercase\expandafter{\@date}%
9610 \else
9611 \@date
9612 \fi\par}%
9613 \end{center}\par
9614 \@thanks
9615 \vfil\null
9616 \end{titlepage}%
9617 \setcounter{footnote}{0}%
9618 \global\let\thanks\relax
9619 \global\let\maketitle\relax
9620 \global\let\@thanks\@empty
9621 \global\let\@author\@empty
9622 \global\let\@title\@empty
9623 \global\let\@date\@empty
9624 \global\let\title\relax
9625 \global\let\author\relax
9626 \global\let\date\relax
9627 \global\let\and\relax
9628 }

```

## 64 File bookest-xetex-bidi.def

```

9629 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9630 \def\@makechapterhead#1{%
9631 \vspace*{20\p@}
9632 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9633 \ifnum \c@secnumdepth >\m@ne
9634 \if@mainmatter
9635 {\colorA\huge\scshape \@chapapp\space \thechapter}

```



```

9636         \par\nobreak
9637         \vskip 10\p@
9638     \fi
9639 \fi
9640 \interlinepenalty\@M
9641 {\colorB\hrule}
9642 \vskip 15\p@
9643 \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9644     {\colorA\Huge \bfseries #1}\par\nobreak
9645 \if@RTL\end{flushleft}\else\end{flushright}\fi
9646 \vskip 5\p@
9647 {\colorB\hrule}
9648 \vskip 30\p@
9649 }}
9650 \def\@makeschapterhead#1{%
9651     \vspace*{20\p@}
9652     {\parindent \z@ \raggedright \normalfont
9653     {\colorB\hrule}
9654     \vskip 15\p@
9655     \begin{center}
9656         {\colorA\Huge \bfseries #1}\par\nobreak
9657     \end{center}
9658     \vskip 5\p@
9659     {\colorB\hrule}
9660     \vskip 30\p@
9661     }}

```

## 65 File book-xetex-bidi.def

```

9662 \ProvidesFile{book-xetex-bidi.def}[2025/09/30 v1.4 bidi adaptations for standard book class]
9663 \renewenvironment{theindex}
9664     {\if@twocolumn
9665         \@restonecolfalse
9666     \else
9667         \@restonecoltrue
9668     \fi
9669     \columnseprule \z@
9670     \columnsep 35\p@
9671     \twocolumn[\@makeschapterhead{\indexname}]}%
9672     {\mkboth{\MakeUppercase\indexname}%
9673     {\MakeUppercase\indexname}%
9674     \thispagestyle{plain}\parindent\z@
9675     \parskip\z@ \@plus .3\p@\relax
9676     \let\item\@idxitem}
9677     {\if@restonecol\onecolumn\else\clearpage\fi}
9678 \IfClassLoadedF{bookest}{%
9679     \if@titlepage
9680     \renewcommand\maketitle{\begin{titlepage}%
9681     \let\footnotesize\small
9682     \let\right@footnoterule\relax
9683     \let\left@footnoterule\relax
9684     \let\textwidth\footnoterule\relax
9685     \let \footnote \thanks
9686     \let \LTRfootnote \LTRthanks

```



```

9687 \let \RTLfootnote \RTLthanks
9688 \null\vfil
9689 \vskip 60\p@
9690 \begin{center}%
9691   {\LARGE \@title \par}%
9692   \vskip 3em%
9693   {\large
9694     \lineskip .75em%
9695     \begin{tabular}[t]{c}%
9696       \@author
9697     \end{tabular}\par}%
9698   \vskip 1.5em%
9699   {\large \@date \par}%           % Set date in \large size.
9700 \end{center}\par
9701 \@thanks
9702 \vfil\null
9703 \end{titlepage}%
9704 \setcounter{footnote}{0}%
9705 \global\let\thanks\relax
9706 \global\let\LTRthanks\relax
9707 \global\let\RTLthanks\relax
9708 \global\let\maketitle\relax
9709 \global\let\@thanks\@empty
9710 \global\let\@author\@empty
9711 \global\let\@date\@empty
9712 \global\let\@title\@empty
9713 \global\let\title\relax
9714 \global\let\author\relax
9715 \global\let\date\relax
9716 \global\let\and\relax
9717 }
9718 \else
9719 \renewcommand\maketitle{\par
9720   \begingroup
9721     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9722     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9723     \long\def\@makefntext##1{\parindent 1em\noindent
9724       \hb@xt@1.8em{%
9725         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9726     \if@twocolumn
9727       \ifnum \col@number=\@ne
9728         \@maketitle
9729       \else
9730         \twocolumn[\@maketitle]%
9731       \fi
9732     \else
9733       \newpage
9734       \global\@topnum\z@   % Prevents figures from going at top of page.
9735       \@maketitle
9736     \fi
9737     \thispagestyle{plain}\@thanks
9738   \endgroup
9739   \setcounter{footnote}{0}%
9740   \global\let\thanks\relax

```



```

9741 \global\let\LTRthanks\relax
9742 \global\let\RTLthanks\relax
9743 \global\let\maketitle\relax
9744 \global\let\@maketitle\relax
9745 \global\let\@thanks\@empty
9746 \global\let\@author\@empty
9747 \global\let\@date\@empty
9748 \global\let\@title\@empty
9749 \global\let\title\relax
9750 \global\let\author\relax
9751 \global\let\date\relax
9752 \global\let\and\relax
9753 }
9754 \def\@maketitle{%
9755   \newpage
9756   \null
9757   \vskip 2em%
9758   \begin{center}%
9759     \let \footnote \thanks
9760     \let \LTRfootnote \LTRthanks
9761     \let \RTLfootnote \RTLthanks
9762     {\LARGE \@title \par}%
9763     \vskip 1.5em%
9764     {\large
9765       \lineskip .5em%
9766       \begin{tabular}[t]{c}%
9767         \@author
9768         \end{tabular}\par}%
9769     \vskip 1em%
9770     {\large \@date}%
9771   \end{center}%
9772   \par
9773   \vskip 1.5em}
9774 \fi}
9775 \IfPackageLoadedF{tocloft}{%
9776 \renewcommand*\l@part[2]{%
9777   \ifnum \c@tocdepth >-2\relax
9778     \addpenalty{-\@highpenalty}%
9779     \addvspace{2.25em \@plus\p@}%
9780     \setlength\@tempdima{3em}%
9781     \begingroup
9782       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9783       \parfillskip -\@pnumwidth
9784       {\leavevmode
9785         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9786       \nobreak
9787       \global\@nobreaktrue
9788       \everypar{\global\@nobreakfalse\everypar{}}%
9789     \endgroup
9790   \fi}
9791 \renewcommand*\l@chapter[2]{%
9792   \ifnum \c@tocdepth >\m@ne
9793     \addpenalty{-\@highpenalty}%
9794     \vskip 1.0em \@plus\p@

```



```

9795 \setlength\@tempdima{1.5em}%
9796 \begingroup
9797 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9798 \parfillskip -\@pnumwidth
9799 \leavevmode \bfseries
9800 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9801 \hskip -\if@RTL\rightskip\else\leftskip\fi
9802 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9803 \penalty\@highpenalty
9804 \endgroup
9805 \fi}
9806 }
9807 \renewcommand\left@footnoterule{%
9808 \kern-3\p@
9809 \hrule\@width.4\columnwidth
9810 \kern2.6\p@}
9811 \renewcommand\right@footnoterule{%
9812 \kern-3\p@
9813 \nointerlineskip
9814 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9815 \kern2.6\p@}
9816 \renewcommand\theequation
9817 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9818 \renewcommand \thefigure
9819 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9820 \renewcommand \thetable
9821 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9822 \renewcommand \thechapter {\@arabic\c@chapter}
9823 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9824 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9825 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9826 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9827 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9828 \def\@makechapterhead#1{%
9829 \vspace*{50\p@}%
9830 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9831 \ifnum \c@secnumdepth >\m@ne
9832 \if@mainmatter
9833 \huge\bfseries \@chapapp\space \thechapter
9834 \par\nobreak
9835 \vskip 20\p@
9836 \fi
9837 \fi
9838 \interlinepenalty\@M
9839 \Huge \bfseries #1\par\nobreak
9840 \vskip 40\p@
9841 }}
9842 \def\@makeschapterhead#1{%
9843 \vspace*{50\p@}%
9844 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9845 \normalfont
9846 \interlinepenalty\@M
9847 \Huge \bfseries #1\par\nobreak
9848 \vskip 40\p@

```



```

9849 }}
9850 \renewcommand\backmatter{%
9851   \if@openright
9852     \cleardoublepage
9853   \else
9854     \clearpage
9855   \fi
9856   \@mainmatterfalse}
9857 \IfPackageLoadedF{natbib}{%
9858 \renewenvironment{thebibliography}[1]
9859   {\chapter*{\bibname}%
9860    \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9861    \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
9862    \bidi@thebibliography@font@hook%
9863    \list{\@biblabel{\@arabic\c@enumiv}}%
9864      {\settowidth\labelwidth{\@biblabel{#1}}%
9865       \leftmargin\labelwidth
9866       \advance\leftmargin\labelsep
9867       \@openbib@code
9868       \usecounter{enumiv}%
9869       \let\p@enumiv\@empty
9870       \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9871     \sloppy
9872     \clubpenalty4000
9873     \@clubpenalty \clubpenalty
9874     \widowpenalty4000%
9875     \sfcode\.\@m}
9876   {\def\@noitemerr
9877    {\@latex@warning{Empty `thebibliography' environment}}}%
9878   \endlist}
9879 }

```

## 66 File breqn-xetex-bidi.def

```

9880 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9881 \def\@dmath[#1]{\ifRTL\@RTLfalse\fi%
9882 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9883 \ifnoskipsec \leavevmode \fi
9884 \ifinlabel \leavevmode \global\@inlabelfalse \fi
9885 \if\eq@group\else\eq@prelim\fi
9886 \setkeys{breqn}{#1}%
9887 \the\eqstyle
9888 \eq@setnumber
9889 \begingroup
9890 \eq@setup@a
9891 \eq@startup
9892 }
9893 \def\@dgroup[#1]{\ifRTL\@RTLfalse\fi%
9894 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9895 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9896 \global\let\GRP@label\@empty
9897 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9898 \global\grp@linewidth\z@\global\grp@wdNum\z@
9899 \global\let\grp@eqs@numbered\@False

```





```

9900 \global\let\grp@aligned\@True
9901 \global\let\grp@shiftnumber\@False
9902 \eq@prelim
9903 \setkeys{breqn}{#1}%
9904 \if\grp@hasNumber \grp@setnumber \fi
9905 }
9906 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9907 \let\display@setup\dseries@display@setup
9908 % Question: should this be the default for dseries???
9909 \global\eq@wdCond\z@
9910 \@dmath[layout={M},#1]%
9911 \mathsurround\z@\@math \penalty\@Mi
9912 \let\endmath\ends@math
9913 \def\premath{%
9914 \ifdim\lastskip<.3em \unskip
9915 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9916 }%
9917 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9918 \ignorespaces
9919 }
9920 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9921 \renewenvironment{dsuspend}{%
9922 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9923 \parshape 1 \displayindent \displaywidth\relax
9924 \hsize=\columnwidth \noindent\ignorespaces
9925 }{%
9926 \par\egroup
9927 \global\setbox\GRP@box\vbox{%
9928 \hbox{\copy\EQ@box\top{\unvbox\EQ@box}}%
9929 \unvbox\GRP@box
9930 }%
9931 \global\GRP@queue\@xp{\the\GRP@queue
9932 \@elt{\let\eq@isIntertext\@True}%
9933 }%
9934 }

```

## 67 File cals-xetex-bidi.def

```

9935 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeT
9936 \renewcommand\cals@setup@alignment[1]{%
9937 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9938 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9939 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9940 }
9941 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9942 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9943 \if@RTLtab\cals@activate@rtl\fi
9944 \let\cals@thead@tokens=\relax
9945 \let\cals@tfoot@tokens=\relax
9946 \let\cals@tbody@tokens=\relax
9947 \cals@tfoot@height=0pt \relax
9948 \let\cals@last@context=n%
9949 \let\cals@current@context=b%
9950 \parindent=0pt \relax%

```



```

9951 \cals@setup@alignment{#1}%
9952 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohszsize%
9953 %% Alignment inside is independent on center/flushright outside
9954 \parfillskip=Opt plus1fil\relax
9955 \let\cals@borderL=\relax
9956 \let\cals@borderR=\relax
9957 \let\cals@borderT=\relax
9958 \let\cals@borderB=\relax
9959 \setbox\cals@backup@row=\box\voidb@x\relax
9960 \cals@AtBeginTable
9961 }{% End of the table
9962 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9963 \renewcommand\alignL{%
9964 \if@RTLtab
9965   \cals@vfillAdd\cals@paddingL
9966 \else
9967   \cals@vfillDrop\cals@paddingL
9968 \fi
9969 \cals@vfillDrop\cals@paddingR}
9970 \renewcommand\alignR{%
9971 \if@RTLtab
9972   \cals@vfillDrop\cals@paddingL
9973 \else
9974   \cals@vfillAdd\cals@paddingL
9975 \fi
9976 \cals@vfillDrop\cals@paddingR}

```

## 68 File caption-xetex-bidi.def

```

9977 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package]
9978 \let\@makecaption\caption@makecaption

```

## 69 File caption3-xetex-bidi.def

```

9979 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package]
9980 \renewcommand*\caption@par{%
9981   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 70 File colortbl-xetex-bidi.def

```

9982 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package]
9983 \def\CT@setup{%
9984   \@tempdimb\col@sep
9985   \@tempdimc\col@sep
9986   \def\CT@color{%
9987     \global\let\CT@do@color\CT@@do@color
9988     \bidicolor}}
9989 \def\@classz{\@classx
9990   \@tempcnta \count@
9991   \prepnext@tok
9992 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9993   \@addtopreamble{\if@RTLtab\beginL\fi%
9994     \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9995     \ifcase \@chnum

```



```

9996      \hskip\stretch{.5}\kern\z@
9997      \d@llarbegin
9998      \insert@column
9999      \d@llarend\hskip\stretch{.5}\or
10000     \d@llarbegin \insert@column \d@llarend \hfill \or
10001     \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
10002     $\vcenter
10003     \@startpbox{\@nextchar}\insert@column \@endpbox $\or
10004     \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
10005     \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
10006     \fi
10007     \ifRTLT\endR\fi\egroup\egroup
10008 \begingroup
10009     \CT@setup
10010     \CT@column@color
10011     \CT@row@color
10012     \CT@cell@color
10013     \CT@do@color
10014 \endgroup
10015     \@tempdima\ht\z@
10016     \advance\@tempdima\minrowclearance
10017     \vrule\@height\@tempdima\@width\z@
10018     \unhbox\z@\ifRTLT\endL\fi}%
10019 \prepnext@tok}

```

## 71 File color-xetex-bidi.def

```

10020 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
10021 \long\def\color@b@x#1#2#3{%
10022 \leavevmode\ifmmode\else\ifRTL\beginL\fi\fi
10023 \setbox\z@\hbox{\kern\fbboxsep\set@color\ifRTL\beginR\fi#3\ifRTL\endR\fi}\kern\fbboxsep}%
10024 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
10025 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
10026 \ifx\color@block\wd\z@\ht\z@\dp\z@}%
10027 \box\z@\}\ifmmode\else\ifRTL\endL\fi\fi}
10028 \def\normalcolor{\let\current@color\default@color\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi}
10029 \DeclareRobustCommand\color{%
10030 \ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}
10031 \def\@declaredcolor#1{%
10032 \ifundefined{\string\color @#1}%
10033 {\c@lor@error{`#1'}}}%
10034 {\expandafter\let\expandafter\current@color
10035 \csname\string\color @#1\endcsname
10036 \set@color}%
10037 \ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10038 \def\@undeclaredcolor[#1]#2{%
10039 \ifundefined{color@#1}%
10040 {\c@lor@error{model `#1'}}}%
10041 {\csname color@#1\endcsname\current@color{#2}%
10042 \set@color}%
10043 \ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10044 \DeclareRobustCommand\bicolor{%
10045 \ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
10046 \def\@bidiundeclaredcolor[#1]#2{%

```



```

10047 \@ifundefined{color@#1}%
10048   {\c@lor@error{model `#1'}}%
10049   {\csname color@#1\endcsname\current@color{#2}%
10050    \set@color}%
10051   \ignorespaces}
10052 \def\@bidideclaredcolor#1{%
10053   \@ifundefined{\string\color @#1}%
10054     {\c@lor@error{`#1'}}%
10055     {\expandafter\let\expandafter\current@color
10056      \csname\string\color @#1\endcsname
10057      \set@color}%
10058   \ignorespaces}
10059 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10060 \def\color@fbox#1#2#3{%
10061   \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
10062 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 72 File combine-xetex-bidi.def

```

10063 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
10064 \renewcommand{\c@ll@chapsecii}[2]{%
10065   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10066   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10067   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10068 }
10069 \renewcommand{\c@ll@chapseci}{%
10070   \setlength\@tempdima{0em}%
10071   \begingroup
10072     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10073     \parfillskip -\@pnumwidth
10074     \leavevmode
10075 }
10076 \renewenvironment{tocindent}[1]{%
10077   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 73 File crop-xetex-bidi.def

```

10078 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeT
10079 \IfClassLoadedT{memoir}{\endinput}
10080 \RequirePackage{graphicx}
10081 \renewcommand*\CROP@ulc{%
10082   \if@RTLmain%
10083     \begin{picture}(0,0)
10084       \unitlength\p@\thinline
10085       \put(-40,0){\circle{10}}
10086       \put(-30,-5){\line(0,1){10}}
10087       \put(-35,0){\line(1,0){30}}
10088       \put(-10,30){\circle{10}}
10089       \put(-5,30){\line(1,0){10}}
10090       \put(0,35){\line(0,-1){30}}
10091     \end{picture}%
10092   \else%
10093     \begin{picture}(0,0)
10094       \unitlength\p@\thinline

```



```

10095      \put(-30,0){\circle{10}}
10096      \put(-30,-5){\line(0,1){10}}
10097      \put(-35,0){\line(1,0){30}}
10098      \put(0,30){\circle{10}}
10099      \put(-5,30){\line(1,0){10}}
10100      \put(0,35){\line(0,-1){30}}
10101      \end{picture}%
10102      \fi%
10103  }
10104  \renewcommand*\CROP@urc{%
10105    \if@RTLmain%
10106      \begin{picture}(0,0)
10107        \unitlength\p@\thinline
10108        \put(20,0){\circle{10}}
10109        \put(30,-5){\line(0,1){10}}
10110        \put(35,0){\line(-1,0){30}}
10111        \put(-10,30){\circle{10}}
10112        \put(-5,30){\line(1,0){10}}
10113        \put(0,35){\line(0,-1){30}}
10114      \end{picture}%
10115    \else%
10116      \begin{picture}(0,0)
10117        \unitlength\p@\thinline
10118        \put(30,0){\circle{10}}
10119        \put(30,-5){\line(0,1){10}}
10120        \put(35,0){\line(-1,0){30}}
10121        \put(0,30){\circle{10}}
10122        \put(-5,30){\line(1,0){10}}
10123        \put(0,35){\line(0,-1){30}}
10124      \end{picture}%
10125      \fi%
10126  }
10127  \renewcommand*\CROP@llc{%
10128    \if@RTLmain%
10129      \begin{picture}(0,0)
10130        \unitlength\p@\thinline
10131        \put(-40,0){\circle{10}}
10132        \put(-30,-5){\line(0,1){10}}
10133        \put(-35,0){\line(1,0){30}}
10134        \put(-10,-30){\circle{10}}
10135        \put(-5,-30){\line(1,0){10}}
10136        \put(0,-35){\line(0,1){30}}
10137      \end{picture}%
10138    \else%
10139      \begin{picture}(0,0)
10140        \unitlength\p@\thinline
10141        \put(-30,0){\circle{10}}
10142        \put(-30,-5){\line(0,1){10}}
10143        \put(-35,0){\line(1,0){30}}
10144        \put(0,-30){\circle{10}}
10145        \put(-5,-30){\line(1,0){10}}
10146        \put(0,-35){\line(0,1){30}}
10147      \end{picture}%
10148      \fi%

```



```

10149 }
10150 \renewcommand*{\CROP@lrc{%
10151   \if@RTLmain%
10152     \begin{picture}(0,0)
10153       \unitlength\p@\thinline
10154       \put(20,0){\circle{10}}
10155       \put(30,-5){\line(0,1){10}}
10156       \put(35,0){\line(-1,0){30}}
10157       \put(-10,-30){\circle{10}}
10158       \put(-5,-30){\line(1,0){10}}
10159       \put(0,-35){\line(0,1){30}}
10160     \end{picture}%
10161   \else%
10162     \begin{picture}(0,0)
10163       \unitlength\p@\thinline
10164       \put(30,0){\circle{10}}
10165       \put(30,-5){\line(0,1){10}}
10166       \put(35,0){\line(-1,0){30}}
10167       \put(0,-30){\circle{10}}
10168       \put(-5,-30){\line(1,0){10}}
10169       \put(0,-35){\line(0,1){30}}
10170     \end{picture}%
10171   \fi%
10172 }
10173 \@ifpackagewith{crop}{cam}{%
10174 \CROP@execopt{cam}%
10175 }{}

```

## 74 File cutwin-xetex-bidi.def

```

10176 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10177 \renewcommand*{\c@twcompctr}[2]{%
10178   \def\c@twfirst{1}
10179   \loop\advance\c@twwinlines\m@ne
10180   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10181   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10182   \c@twprune{\c@twslicea}{\c@twlftside}%
10183   \c@twprune{\c@twsliceb}{\c@twrtside}%
10184   \ifnum\c@twfirst=\@ne
10185     \setbox#2=\vbox{\unvbox#2\hbox
10186       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10187     \else
10188       \setbox#2=\vbox{\unvbox#2\hbox
10189       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box
10190     \fi
10191   \def\c@twfirst{2}
10192   \ifnum\c@twwinlines>\z@\repeat
10193 \renewcommand*{\c@twcompodctr}[2]{%
10194   \def\c@twrounds{1}
10195   \def\c@twfirst{1}
10196   \@for\c@twlspec:=\c@twb\do{%
10197     \ifnum\c@twrounds=1
10198       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10199       \c@twprune{\c@twslicea}{\c@twlspec}%

```



```

10200     \def\c@twrounds{2}
10201   \else
10202     \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10203     \c@twprune{\c@twsliceb}{\c@twlspec}%
10204     \ifnum\c@twfirst=1
10205       \setbox#2=\vbox{\unvbox#2\hbox
10206         to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL\
10207         \def\c@twfirst{2}
10208     \else
10209       \setbox#2=\vbox{\unvbox#2\hbox
10210         to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\el
10211     \fi
10212     \def\c@twrounds{1}
10213   \fi}}

```

## 75 File cuted-xetex-bidi.def

```

10214 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10215
10216 \def\RTL@outputdblcol{%
10217   \if@firstcolumn
10218     \global\@firstcolumnfalse
10219     \global\setbox\@leftcolumn\copy\@outputbox
10220     \splitmaxdepth\maxdimen
10221     \vbadness\maxdimen
10222     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10223     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10224     \toks@\expandafter{\topmark}%
10225     \xdef\@firstcoltopmark{\the\toks@}%
10226     \toks@\expandafter{\splitfirstmark}%
10227     \xdef\@firstcolfirstmark{\the\toks@}%
10228     \ifx\@firstcolfirstmark\@empty
10229       \global\let\@setmarks\relax
10230     \else
10231       \gdef\@setmarks{%
10232         \let\firstmark\@firstcolfirstmark
10233         \let\topmark\@firstcoltopmark}%
10234     \fi
10235   \else
10236     \global\@firstcolumntrue
10237     \setbox\@outputbox\vbox{%
10238       \hb@xt@\textwidth{%
10239         \hskip \columnwidth
10240         \hfil
10241         {\normalcolor\vrule \@width\columnseprule}%
10242         \hfil
10243         \hb@xt@\columnwidth{%
10244           \bidi@firstcolumn@status@write%
10245           \box\@leftcolumn \hss}%
10246         \hskip -\textwidth
10247         \hb@xt@\columnwidth{%
10248           \bidi@lastcolumn@status@write%
10249           \box\@outputbox \hss}%
10250         \hskip \columnsep

```



```

10251     \hskip \columnwidth } }%
10252 \ifvoid\hold@viper
10253 \else
10254     \setbox\@outputbox \vbox to\textheight{%
10255         \box\hold@viper
10256         \box\@outputbox
10257         \vss
10258     }%
10259 \fi
10260 \@combinedblfloats
10261 \@setmarks
10262 \@outputpage
10263 \beginingroup
10264     \@dblfloatplacement
10265     \@startdblcolumn
10266     \@whilesw\if@fcolmade \fi{\@outputpage
10267 \@startdblcolumn}%
10268 \ifvoid\@viper
10269 \else
10270     \global\setbox\@viper\vbox{%
10271         \vskip-\stripsep
10272         \unvbox\@viper
10273     }%
10274     \@viperoutput
10275 \fi
10276 \endgroup
10277 \fi}%
10278
10279 \def\LTR@outputdblcol{%
10280 \if@firstcolumn
10281     \global\@firstcolumnfalse
10282     \global\setbox\@leftcolumn\copy\@outputbox
10283     \splitmaxdepth\maxdimen
10284     \vbadness\maxdimen
10285     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10286     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10287     \toks@\expandafter{\topmark}%
10288     \xdef\@firstcoltopmark{\the\toks@}%
10289     \toks@\expandafter{\splitfirstmark}%
10290     \xdef\@firstcolfirstmark{\the\toks@}%
10291     \ifx\@firstcolfirstmark\@empty
10292         \global\let\@setmarks\relax
10293     \else
10294         \gdef\@setmarks{%
10295             \let\firstmark\@firstcolfirstmark
10296             \let\topmark\@firstcoltopmark}%
10297     \fi
10298 \else
10299     \global\@firstcolumntrue
10300     \setbox\@outputbox\vbox{%
10301         \hb@xt@\textwidth{%
10302             \hb@xt@\columnwidth{%
10303                 \bidi@firstcolumn@status@write%
10304                 \box\@leftcolumn \hss}%

```





```

10305      \hfil
10306      {\normalcolor\vrule \@width\columnseprule}%
10307      \hfil
10308      \hb@xt@\columnwidth{%
10309      \bidi@lastcolumn@status@write%
10310      \box\@outputbox \hss}}}%
10311  \ifvoid\hold@viper
10312  \else
10313    \setbox\@outputbox \vbox to\textheight{%
10314                                \box\hold@viper
10315                                \box\@outputbox
10316                                \vss
10317                                }%
10318  \fi
10319  \@combinedblfloats
10320  \@setmarks
10321  \@outputpage
10322  \begingroup
10323    \@dblfloatplacement
10324    \@startdblcolumn
10325    \@whiles\if@colmade \fi{\@outputpage
10326    \@startdblcolumn}%
10327    \ifvoid\@viper
10328    \else
10329      \global\setbox\@viper\vbox{%
10330                          \vskip-\stripsep
10331                          \unvbox\@viper
10332                          }%
10333      \@viperoutput
10334    \fi
10335  \endgroup
10336  \fi}%
10337
10338  \def\@addviper{%
10339    \@insertfalse
10340    \def\var@@thecol@num{2}%
10341    \if@firstcolumn
10342      \def\var@@thecol@num{1}%
10343      \@reqcolroom=.5\@pageht
10344      \ht@viper=\@reqcolroom
10345      \advance\@reqcolroom by\ht@viper
10346      \advance\@reqcolroom by\stripsep
10347    \else
10348      \@reqcolroom=\@colht
10349      \advance\@reqcolroom by\@pageht
10350      \ht@viper.5\@reqcolroom
10351      \@reqcolroom=\ht@viper
10352      \advance\@reqcolroom by\ht@viper
10353      \advance\@reqcolroom by\stripsep
10354      \global\setbox\@holdpg\vbox{%
10355          \setbox\cuted@tempboxa\vbox{%
10356              \aftergroup\unvbox
10357              \unvcopy\@leftcolumn
10358              \unskip\unkern\unpenalty

```



```

10359         \setbox\@tempboxa\lastbox
10360         \ifdim\dimexpr\ht\@tempboxa+\wd\@tempboxa+\dp\@tempboxa>\z@
10361             %% keeps lastbox
10362             \aftergroup\@leftcolumn
10363         \else
10364             %% removes lastbox
10365             \aftergroup\cuted@@tempbox@a
10366         \fi
10367     }%
10368     \unskip\unkern\unpenalty
10369     \on@stripcols@break
10370     \the\At@ViperColsBreak
10371     \unvbox\@holdpg
10372 }%
10373 \global\At@ViperColsBreak{}%
10374 \ht@viper=.5\ht\@holdpg
10375 \ifdim\ht@viper>\@colht
10376     \ht@viper=\@colht
10377 \fi
10378 \fi
10379 %%
10380 %% calculations for breaking
10381 %%
10382 \ifvoid\hold@viper
10383     \ht@hold@viper=\z@
10384 \else
10385     \ht@hold@viper=\ht\hold@viper
10386 \fi
10387 \cuted@@tempdim@b\ht@viper
10388 \set@split@topskip@to\topskip
10389 \loop
10390     \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10391     \setbox\cuted@@varbox@a\copy\@holdpg
10392     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10393     %% set leftcolumn boxes
10394     \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10395     \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10396     \xdef\var@@leftcolumn@badness{\the\badness}%
10397     %% set rightcolumn boxes
10398     \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10399     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10400     \xdef\var@@rightcolumn@badness{\the\badness}%
10401     %% analyzing split goodness
10402     \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10403     \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10404     \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10405     \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10406     \cuted@@wlog@debug{CUTED [-----]}%
10407     ^^JLeft: \the\ht\cuted@@tempbox@c
10408     +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10409     ^^JRight: \the\ht\cuted@@varbox@c
10410     +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10411     ^^JSplit: \the\cuted@@tempdim@b
10412     ^^JExtra height: \the\cuted@@tempdim@spread

```



```

10413         }%
10414         \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10415             \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10416                 \cuted@@tempdim@spread=\z@
10417             \fi
10418         \fi
10419         \ifdim\cuted@@tempdim@spread<\z@
10420             \if@left@column@spread
10421                 \if@right@column@shrink
10422                     \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10423                         \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread+\pageshrink>\z@
10424                     \else
10425                         \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10426                     \fi
10427                     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10428                     \ifnum\badness<\cuted@@column@badness
10429                         \cuted@@tempdim@b=\cuted@@tempdim@a
10430                         \cuted@@tempdim@spread=\z@
10431                     \fi
10432                     \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on \the\hbox{\cuted@@varbox@a}}
10433                     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10434                     \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on \the\hbox{\cuted@@varbox@a}}
10435                 \else
10436                     \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{\unvcopy\cuted@@tempbox@c}
10437                     \cuted@@tempdim@b=\ht\cuted@@varbox@c
10438                     \cuted@@tempdim@spread=\z@
10439                 \fi
10440                 \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\hbox{\cuted@@varbox@a}}
10441                 \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{\unvcopy\cuted@@tempbox@c}
10442                 \cuted@@tempdim@b=\ht\cuted@@varbox@c
10443                 \cuted@@tempdim@spread=\z@
10444             \fi
10445             \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\hbox{\cuted@@varbox@a}}
10446         \fi
10447     \else
10448         \if@right@column@shrink
10449             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10450                 \else
10451                     \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10452                     \cuted@@tempdim@spread=\z@
10453                 \fi
10454             \fi
10455         \fi
10456     \else
10457         \ifdim\cuted@@tempdim@spread>\z@
10458             \ifdim\dimexpr\cuted@@tempdim@spread+\p@relax>\colht
10459                 \cuted@@tempdim@b=\colht
10460                 \cuted@@tempdim@spread=\z@
10461             \fi
10462         \fi
10463     \fi
10464 \fi
10465 \fi
10466 \ifdim\cuted@@tempdim@spread<\z@

```



```

10467         \advance\cuted@@tempdim@b 1\p@
10468     \repeat
10469     \wlog{CUTED [- LAST -]%
10470         ^^JExtra skip:\the\cuted@@tempdim@spread
10471         ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10472         ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10473         ^^JSplit:\saved@tempdimb
10474         ^^JOutput:\the\cuted@@tempdim@b
10475         ^^JPageshrink:\the\pageshrink
10476         ^^JPagestretch:\the\pagestretch
10477         ^^J@colht:\the\@colht
10478     }%
10479     %%
10480     %% final construction of the cuted page above strip
10481     %%
10482     \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10483     \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10484         \cuted@@tempdim@a=\dimexpr
10485             \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10486             \relax
10487         \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10488         \unvbox\cuted@@tempbox@c
10489         \ifdim\cuted@@tempdim@spread>\dp\strutbox
10490         \else
10491             \vskip-\cuted@@tempdim@spread
10492         \fi
10493         \prevdepth\z@
10494         \hrule\@height\cuted@@page@rule width\textwidth
10495         \vskip-\cuted@@page@rule
10496         \ifdim\cuted@@tempdim@a>\z@
10497             \if@left@column@spread
10498             \else
10499                 \vss
10500             \fi
10501         \else
10502             \ifdim\cuted@@tempdim@a<\z@
10503                 \if@left@column@shrink
10504                 \else
10505                     \vss
10506                 \fi
10507             \fi
10508         \fi
10509     }%
10510     \wlog{CUTED [output]: \the\cuted@@tempdim@b
10511         ^^JCUTED [leftcolumn badness]: \number\badness
10512     }%
10513     \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10514         \cuted@@tempdim@a=\dimexpr
10515             \cuted@@tempdim@b-\ht\@holdpg
10516             \relax
10517         \unvbox\@holdpg
10518         \ifdim\cuted@@tempdim@a>\z@
10519             \if@right@column@spread
10520             \else

```



```

10521         \vss
10522     \fi
10523 \else
10524     \ifdim\cuted@@tempdim@a<\z@
10525         \if@right@column@shrink
10526             \else
10527                 \vss
10528             \fi
10529         \fi
10530     \fi
10531 }%
10532 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10533 \setbox\cuted@@tempbox@var\vbox{%
10534     \hb@xt@\textwidth{%
10535         \if@RTLmain
10536             \hskip \columnwidth
10537             \hfil
10538             {\normalcolor\vrule \@width\columnseprule}%
10539             \hfil
10540             \hb@xt@\columnwidth{%
10541                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10542                 \hss
10543             }%
10544             \hskip -\textwidth
10545             \hb@xt@\columnwidth{%
10546                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10547                 \hss
10548             }%
10549             \hskip \columnsep
10550             \hskip \columnwidth
10551         \else
10552             \hb@xt@\columnwidth{%
10553                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10554                 \hss
10555             }%
10556             \hfil
10557             {\normalcolor\vrule \@width\columnseprule}%
10558             \hfil
10559             \hb@xt@\columnwidth{%
10560                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10561                 \hss
10562             }%
10563         \fi
10564     }%
10565 }%
10566 %%
10567 %% finalize cuted page
10568 %%
10569 \ifvoid\hold@viper
10570     \global\setbox\hold@viper\vbox{%
10571         \unvbox\cuted@@tempbox@var
10572         \penalty\interlinepenalty
10573         \vskip\stripsep
10574         \the\preCutedStrip

```



```

10575         \ifnum\outputpenalty<-\@Mii
10576             \vskip -\parskip
10577         \fi
10578         \outputpenalty\z@
10579     }%
10580 \else
10581     \global\setbox\hold@viper\vbox{%
10582         \unvbox\hold@viper
10583         \cuted@@tempbox@var
10584         \penalty\interlinepenalty
10585         \vskip\stripsep
10586         \the\preCutedStrip
10587         \ifnum\outputpenalty<-\@Mii
10588             \vskip -\parskip
10589         \fi
10590         \outputpenalty\z@
10591     }%
10592 \fi
10593 \ifdim\@colht>\@reqcolroom
10594     \global\setbox\hold@viper\vbox{%
10595         \unvbox\hold@viper
10596         \box\@viper
10597         \penalty\interlinepenalty
10598         \the\postCutedStrip
10599         \vskip\stripsep
10600         \ifnum\outputpenalty<-\@Mii
10601             \vskip -\parskip
10602         \fi
10603         \outputpenalty\z@
10604     }%
10605 \@inserttrue
10606 \global\@firstcolumntrue
10607 \advance\ht@hold@viper by-\ht\hold@viper
10608 \global\advance\@colht by\ht\hold@viper
10609 \ifdim\@colht<2.5\baselineskip
10610     \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10611                             too tall on page \thepage (\var@thecol@num column)}}%
10612     \@emptycol
10613     \if@firstcolumn
10614     \else
10615         \@emptycol
10616     \fi
10617     \global\@lastvipertrue
10618 \else
10619     \global\vsizel\@colht
10620     \global\@colroom\@colht
10621     \check@floats\cuted@@tempdim@a
10622     \ifdim\cuted@@tempdim@a>\z@
10623         \global\advance\@colroom by-\cuted@@tempdim@a
10624     \fi
10625     \ifdim\@colroom<\z@
10626         \global\@colroom1\p@
10627         \ifdim\cuted@@tempdim@a>\@colht
10628             \@latex@warning@no@line{TOP and/or BOT FLOAT's

```



```

10629                to large on \thepage (\var@@thecol@num column)}}%
10630                \fi
10631                \@emptycol
10632                \if@firstcolumn
10633                \else
10634                \@emptycol
10635                \fi
10636                \global\@lastvipertrue
10637            \fi
10638        \fi
10639    \fi
10640    \if@insert
10641    \else
10642        \advance\ht@hold@viper by-\ht\hold@viper
10643        \global\advance\@colht by\ht\hold@viper
10644        \global\setbox\hold@viper\vbox{%
10645            \unvbox\hold@viper
10646            \set@split@topskip@to{\z@ plus2\p@}%
10647            \vsplit\@viper to\@colht
10648            \vss
10649        }%
10650        \vbox{%
10651            \global\@firstcolumnfalse
10652            \newpage
10653        }
10654    }

```

## 76 File cvthemebidicasual.sty

```

10655 \NeedsTeXFormat{LaTeX2e}
10656 \ProvidesPackage{cvthemebidicasual}
10657 \DeclareOption{blue}{}
10658 \newif\if@colourorange\@colourorangefalse
10659 \DeclareOption{orange}{\@colourorangetrue}
10660 \newif\if@colourgreen\@colourgreenfalse
10661 \DeclareOption{green}{\@colourgreentrue}
10662 \newif\if@colourred\@colourredfalse
10663 \DeclareOption{red}{\@colourredtrue}
10664 \newif\if@colourgrey\@colourgreyfalse
10665 \DeclareOption{grey}{\@colourgreytrue}
10666 \DeclareOption*{
10667     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10668 \ExecuteOptions{colour}
10669 \ProcessOptions\relax
10670 \renewcommand*{\listitemsymbol}{\textbullet}
10671 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10672 \familynamecolour{808080}
10673 \firstnamecolour{A9A9A9}
10674 \quotecolour{696969}
10675 \addresscolour{696969}
10676 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10677 \sectiontitlecolour{1E90FF}
10678 \subsectioncolour{4682B4}
10679 \definecolor{rulecolour}{gray}{0.6}

```



```

10680 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10681 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10682 \if@colourorange
10683   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10684   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10685   \sectiontitlecolour{FF8C00}
10686   \subsectioncolour{FF8C00}
10687   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10688   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10689 \if@colourgreen
10690   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10691   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10692   \sectiontitlecolour{008000}
10693   \subsectioncolour{008000}
10694   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10695   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10696 \if@coloured
10697   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10698   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10699   \sectiontitlecolour{FF0000}
10700   \subsectioncolour{FF0000}
10701   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10702   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10703 \if@colourgrey
10704   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10705   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10706   \sectiontitlecolour{808080}
10707   \subsectioncolour{808080}
10708   \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10709   \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10710 \renewcommand*{\ttdefault}{pcr}
10711 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10712 \renewcommand*{\familynamefont}{\firstnamefont}
10713 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10714 \renewcommand*{\quoteont}{\large\slshape}
10715 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10716 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10717 \renewcommand*{\maketitle}{%
10718   {%
10719     \ifthenelse{\isundefined{\@photo}}{%
10720       {%
10721         {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10722         \hfill%
10723         \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10724         {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10725       \ifthenelse{\isundefined{\@quote}}{%
10726         {%
10727           {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\}
10728         }%
10729       \newif\if@firstfooterelement\@firstfooterelementtrue
10730       \providecommand*{\footersymbol}{%
10731         \renewcommand*{\footersymbol}{%
10732           \if@firstfooterelement%
10733           \else%

```





```

10734 { ~\color{footersymbolcolor}\textbullet~~}\fi}
10735 \providecommand*\makefooter{}
10736 \renewcommand*\makefooter{%
10737   \fancypagestyle{plain}{%
10738     \fancyfoot[c]{%
10739       \parbox{0.8\textwidth}{%
10740         \centering%
10741         \addressfont\@addresscolour%
10742         \ifthenelse{\isundefined{\@address}}{}{}%
10743         \addresssymbol~\@address\\%
10744         \@firstfooterelementfalse}%
10745         \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10746         \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10747         \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10748         \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\email\@firstfooterelementfalse}%
10749         \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\extrainfo\@firstfooterelementfalse}%
10750       }%
10751     \pagestyle{plain}}
10752 \AtBeginDocument{\makefooter}

```

## 77 File cvthemebidiclassic.sty

```

10753 \NeedsTeXFormat{LaTeX2e}
10754 \ProvidesPackage{cvthemebidiclassic}
10755 \DeclareOption{blue}{}
10756 \newif\if@colourorange\@colourorangefalse
10757 \DeclareOption{orange}{\@colourorange>true}
10758 \newif\if@colourgreen\@colourgreenfalse
10759 \DeclareOption{green}{\@colourgreentrue}
10760 \newif\if@colourred\@colourredfalse
10761 \DeclareOption{red}{\@colourredtrue}
10762 \newif\if@colourgrey\@colourgreyfalse
10763 \DeclareOption{grey}{\@colourgreytrue}
10764 \DeclareOption*{
10765   \PackageWarning{cvthemebidiclassic}{Unknown option '\CurrentOption'}}
10766 \ExecuteOptions{colour}
10767 \ProcessOptions\relax
10768 \renewcommand*\listitemsymbol{\textbullet}
10769 \firstnamecolour{}
10770 \familynamecolour{}
10771 \titlecolour{808080}
10772 \quotecolour{696969}
10773 \addresscolour{696969}
10774 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10775 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10776 \sectiontitlecolour{1E90FF}
10777 \subsectioncolour{4682B4}
10778 \if@colourorange
10779   \addresscolour{FF8C00}
10780   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10781   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10782   \sectiontitlecolour{FF8C00}
10783   \subsectioncolour{FF8C00}\fi
10784 \if@colourgreen

```



```

10785 \addresscolour{008000}
10786 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10787 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10788 \sectiontitlecolour{008000}
10789 \subsectioncolour{008000}\fi
10790 \if@colourred
10791 \addresscolour{FF0000}
10792 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10793 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10794 \sectiontitlecolour{FF0000}
10795 \subsectioncolour{FF0000}\fi
10796 \if@colourgrey
10797 \addresscolour{808080}
10798 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10799 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10800 \sectiontitlecolour{808080}
10801 \subsectioncolour{808080}\fi
10802 \renewcommand*{\ttdefault}{pcr}
10803 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10804 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10805 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10806 \renewcommand*{\familynamefont}{\firstnamefont}
10807 \renewcommand*{\quote font}{\large\slshape}
10808 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10809 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10810 \newlength{\maketitlenamemaxwidth}
10811 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10812 \newlength{\maketitlenamefullwidth}
10813 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10814 \newlength{\maketitlenamewidth}
10815 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}\fi
10816 \newlength{\maketitlepicturewidth}
10817 \setlength{\maketitlepicturewidth}{\@photowidth}
10818 \newlength{\maketitledetailwidth}
10819 \renewcommand*{\recomputethemelengths}{%
10820 \setlength{\maketitledetailwidth}{\textwidth}%
10821 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10822 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10823 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10824 \recomputethemelengths
10825 \newif\if@firstdetailselement\@firstdetailselementtrue
10826 \newcommand*{\maketitledetailnewline}{%
10827 \if@firstdetailselement%
10828 \@firstdetailselementfalse%
10829 \else%
10830 \[\.2em]\fi}
10831 \renewcommand*{\maketitle}{%
10832 % name and title
10833 \begin{minipage}[b]{\maketitlenamewidth}%
10834 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10835 \ifthenelse{\equal{\@title}{}}{\[\1.25em]\titlestyle{\@title}}{}%
10836 \end{minipage}%
10837 % optional data
10838 \begin{minipage}[b]{\maketitledetailwidth}%

```



```

10839 \bidi@raggedleft\addressfont\@addresscolour%
10840 \ifthenelse{\isundefined{\@address}}{}{%
10841 \maketitledetailsnewline%
10842 \addresssymbol~\\\@address}%
10843 \ifthenelse{\isundefined{\@mobile}}{}{\maketitledetailsnewline\mobilesymbol~\@mobile}%
10844 \ifthenelse{\isundefined{\@phone}}{}{\maketitledetailsnewline\phonesymbol~\@phone}%
10845 \ifthenelse{\isundefined{\@fax}}{}{\maketitledetailsnewline\faxsymbol~\@fax}%
10846 \ifthenelse{\isundefined{\@email}}{}{\maketitledetailsnewline\emailsymbol~\emailink{\@e
10847 \ifthenelse{\isundefined{\@extrainfo}}{}{\maketitledetailsnewline\@extrainfo}%
10848 \end{minipage}%
10849 % optional photo
10850 \ifthenelse{\isundefined{\@photo}}{}%
10851 {}%
10852 {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10853 % optional quote
10854 \ifthenelse{\isundefined{\@quote}}{}%
10855 {}%
10856 {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\\
10857 }

```

## 78 File dblfnote-xetex-bidi.def

```

10858 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10859 \let\autofootnoterule\relax
10860 \let\rightfootnoterule\relax
10861 \let\leftfootnoterule\relax
10862 \let\textwidthfootnoterule\relax
10863 \let\LRfootnoterule\relax
10864 \def\footnoterule{\kern-3\p@
10865 \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10866 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10867 \let\@footnotetext\dfn@footnotetext}
10868 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
10869 \let\insert\dfn@gobble
10870 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10871 \def\@makefnmark{\smash{\dfn@makefnmark}}
10872 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10873 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10874 \ifdim\dfn@dima>\z@ \else
10875 \dfn@dima1sp\relax
10876 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10877 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10878 \ifvoid\dfn@ins\else
10879 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10880 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10881 \setbox\dfn@boxa\copy\dfn@ins
10882 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10883 \advance\@tempdima-\@tempdimb \@tempdimb\@tempdima
10884 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10885 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10886 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10887 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10888 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10889 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{

```



```

10890 \let\insert\dfn@gobble
10891 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10892 \def\@makefnmark{\smash{\dfn@makefnmark}}
10893 \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10894 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10895 \ifdim\dfn@dima>z@\else
10896 \dfn@dima1sp\relax
10897 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10898 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10899 \ifvoid\dfn@ins\else
10900 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10901 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10902 \setbox\dfn@boxa\copy\dfn@ins
10903 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10904 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10905 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10906 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10907 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10908 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10909 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10910 \def\dfn@RTLmakecol{\ifvoid\footins\else
10911 \dfn@dima\ht\footins
10912 \@tempcnta\z@ \dfn@countins
10913 \@tempdima\z@ \let\@elt\dfn@elt@getht
10914 \dfn@list\@nil
10915 \ifdim\@tempdima=z@\else
10916 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10917 \global\setbox\dfn@ins\box\dfn@ins
10918 \@tempswatrue
10919 \ifdfn@trysingle
10920 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10921 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10922 \advance\@tempdima-\skip\footins
10923 \advance\@tempdima-\ht\dfn@boxa
10924 \ifdim\@tempdima<z@\else \@tempswafalse
10925 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10926 \footnoterule \unvbox\dfn@boxa}\fi\fi
10927 \if@tempswa
10928 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10929 \global\setbox\footins\vbox{\hbox{%
10930 \hskip \DFNcolumnwidth
10931 \hskip\DFNcolumnsep
10932 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10933 \unvbox\dfn@boxb\vss}\hss}
10934 \hskip -\textwidth
10935 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10936 \vbox to\@tempdima{
10937 \setbox\@tempboxa\vbox{\footnoterule}
10938 \ifdfn@ruleboth \unvbox\@tempboxa
10939 \else \@tempdima\ht\@tempboxa
10940 \advance\@tempdima\dp\@tempboxa
10941 \vskip\@tempdima
10942 \prevdepth\dp\@tempboxa \fi
10943 \unvbox\dfn@boxa\vss}\fi\hss}

```



```

10944                                     \hskip \DFNcolumnsep
10945                                     \hskip \DFNcolumnwidth}}\fi\fi
10946 \global\dfn@fnht\z@
10947 \ifx\dfn@list\@empty\else
10948     \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10949     \dfn@list \global\advance\dfn@fnht\dfn@dimb
10950     \let\@elt\relax
10951     \ifdim\dfn@dimb>\z@
10952         \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10953         \insert\footins{\floatingpenalty\@MM
10954             \vbox to\dfn@dimb{}}\fi
10955     \ifdim\dfn@fnht>\@tempdima
10956         \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10957         \global\dfn@fnht\@tempdima
10958         \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10959         \xdef\dfn@afteroutput{\insert\footins{
10960             \floatingpenalty\@MM
10961             \vbox to\number\@tempdimb sp{}}}%
10962         \global\let\noexpand\dfn@afteroutput\relax}%
10963     \fi\fi
10964 \fi}%
10965 \let\footnoterule\relax \dfn@latex@makecol
10966 \let\footnoterule\dfn@footnoterule}
10967 \def\dfn@LTRmakecol{{\ifvoid\footins\else
10968     \dfn@dima\ht\footins
10969     \@tempcnta\z@ \dfn@countins
10970     \@tempdima\z@ \let\@elt\dfn@elt@getht
10971     \dfn@list\@nil
10972     \ifdim\@tempdima=\z@\else
10973     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10974     \global\setbox\dfn@ins\box\dfn@ins
10975     \@tempswatrue
10976     \ifdfn@trysingle
10977         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10978         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10979         \advance\@tempdima-\skip\footins
10980         \advance\@tempdima-\ht\dfn@boxa
10981         \ifdim\@tempdima<\z@\else \@tempswafalse
10982             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10983                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10984     \if@tempswa
10985     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10986     \global\setbox\footins\vbox{\hbox{%
10987         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10988             \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10989         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10990             \vbox to\@tempdima{
10991                 \setbox\@tempboxa\vbox{\footnoterule}
10992                 \ifdfn@ruleboth \unvbox\@tempboxa
10993                 \else \@tempdima\ht\@tempboxa
10994                     \advance\@tempdima\dp\@tempboxa
10995                     \vskip\@tempdima
10996                     \prevdepth\dp\@tempboxa \fi
10997                 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi

```



```

10998      \global\dfn@fnht\z@
10999      \ifx\dfn@list\@empty\else
11000          \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
11001          \dfn@list \global\advance\dfn@fnht\dfn@dimb
11002          \let\@elt\relax
11003          \ifdim\dfn@dimb>\z@
11004              \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
11005              \insert\footins{\floatingpenalty\@MM
11006                  \vbox to\dfn@dimb{}}\fi
11007          \ifdim\dfn@fnht>\@tempdima
11008              \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
11009              \global\dfn@fnht\@tempdima
11010              \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
11011              \xdef\dfn@afteroutput{\insert\footins{
11012                  \floatingpenalty\@MM
11013                  \vbox to\number\@tempdimb sp{}}}%
11014                  \global\let\noexpand\dfn@afteroutput\relax}%
11015          \fi\fi
11016      \fi}%
11017      \let\footnoterule\relax \dfn@latex@makecol
11018      \let\footnoterule\dfn@footnoterule}
11019 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
11020 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
11021 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
11022 \DFNalwaysdouble

```

## 79 File diagbox-xetex-bidi.def

```

11023 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package]
11024 \bidi@patchcmd{\diagbox@double}{%
11025     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11026 }{\bidi@@diagbox@double@ii}{-}{-}
11027 \bidi@patchcmd{\diagbox@double}{%
11028     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}>{\diagbox@font}l@{}}
11029 }{\bidi@@diagbox@double@iii}{-}{-}
11030 \newcommand*{\bidi@@diagbox@double@ii}{%
11031     \if@RTL
11032         \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}>{\diagbox@font}l@{}}
11033     \else
11034         \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11035     \fi
11036 }
11037 \newcommand*{\bidi@@diagbox@double@iii}{%
11038     \if@RTL
11039         \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11040     \else
11041         \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}>{\diagbox@font}l@{}}
11042     \fi
11043 }
11044 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11045     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11046 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11047 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11048     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}

```



```

11049 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@iii}{-}{-}
11050 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%-
11051     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}%
11052 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11053 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@iii}{%-
11054     \if@RTL
11055         \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}%
11056     \else
11057         \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}%
11058     \fi}
11059 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%-
11060     \if@RTL
11061         \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}%
11062     \else
11063         \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}%
11064     \fi}
11065 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11066 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%-
11067     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11068 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
11069 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%-
11070     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11071 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11072 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%-
11073     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11074 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11075 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%-
11076     \if@RTL
11077         \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}%
11078     \else
11079         \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11080     \fi
11081 }
11082 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%-
11083     \if@RTL
11084         \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}%
11085     \else
11086         \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11087     \fi
11088 }
11089 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11090 \bidi@patchcmd{\diagbox@double@pict@SE}{%-
11091     \diagbox@setlinecolor
11092     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11093 }%-
11094     {\diagbox@setlinecolor
11095     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11096 }{-}{-}
11097 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11098 \bidi@patchcmd{\diagbox@double@pict@NE}{%-
11099     \diagbox@setlinecolor
11100     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11101 }%-
11102     {\diagbox@setlinecolor

```



```

11103 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11104 }{}{}
11105 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11106 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11107 \diagbox@setlinecolor
11108 \Line(0,\yym)(\x,0)
11109 \Line(\xm,\y)(\x,0)}%
11110 }{}%
11111 {\diagbox@setlinecolor
11112 \Line(0,\yym)(\x,0)
11113 \Line(\xm,\y)(\x,0)}%
11114 }{}{}
11115 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11116 \diagbox@setlinecolor
11117 \Line(0,0)(\xxm,\y)
11118 \Line(0,0)(\x,\yym)}%
11119 }{}%
11120 {\diagbox@setlinecolor
11121 \Line(0,0)(\xxm,\y)
11122 \Line(0,0)(\x,\yym)}%
11123 }{}{}
11124 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11125 \diagbox@setlinecolor
11126 \Line(0,\ym)(\x,\y)
11127 \Line(\xm,0)(\x,\y)}%
11128 }{}%
11129 {\diagbox@setlinecolor
11130 \Line(0,\ym)(\x,\y)
11131 \Line(\xm,0)(\x,\y)}%
11132 }{}{}
11133 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11134 \diagbox@setlinecolor
11135 \Line(0,\y)(\xxm,0)
11136 \Line(0,\y)(\x,\ym)}%
11137 }{}%
11138 {\diagbox@setlinecolor
11139 \Line(0,\y)(\xxm,0)
11140 \Line(0,\y)(\x,\ym)}%
11141 }{}{}

```

## 80 File draftwatermark-xetex-bidi.def

```

11142 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11143 \renewcommand\SetWatermarkText[1]{%
11144 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

## 81 File eso-pic-xetex-bidi.def

```

11145 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11146 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11147 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}
11148
11149 \ESO@isMEMOIR{%
11150 \renewcommand\AtTextUpperLeft[1]{%

```





```

11151 \begingroup
11152 \ifodd\c@page
11153 \if@RTLmain
11154 \ESO@tempdima=\paperwidth
11155 \advance\ESO@tempdima-\textwidth
11156 \advance\ESO@tempdima-\spinemargin
11157 \else
11158 \ESO@tempdima=\spinemargin
11159 \fi
11160 \else
11161 \if@RTLmain
11162 \ESO@tempdima=\spinemargin
11163 \else
11164 \ESO@tempdima=\paperwidth
11165 \advance\ESO@tempdima-\textwidth
11166 \advance\ESO@tempdima-\spinemargin
11167 \fi
11168 \fi
11169 \ESO@tempdimb=-\uppermargin
11170 \AtPageUpperLeft{%
11171 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11172 }%
11173 \endgroup
11174 }
11175 }{%
11176 \renewcommand\AtTextUpperLeft[1]{%
11177 \begingroup
11178 \ESO@tempdima=1in\relax
11179 \if@twoside
11180 \ifodd\c@page
11181 \if@RTLmain
11182 \advance\ESO@tempdima\evensidemargin
11183 \else
11184 \advance\ESO@tempdima\oddsidemargin
11185 \fi
11186 \else
11187 \if@RTLmain
11188 \advance\ESO@tempdima\oddsidemargin
11189 \else
11190 \advance\ESO@tempdima\evensidemargin
11191 \fi
11192 \fi
11193 \else
11194 \advance\ESO@tempdima\oddsidemargin
11195 \fi
11196 \ESO@tempdimb=-1in\relax
11197 \advance\ESO@tempdimb-\topmargin
11198 \advance\ESO@tempdimb-\headheight
11199 \advance\ESO@tempdimb-\headsep
11200 \AtPageUpperLeft{%
11201 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11202 }%
11203 \endgroup
11204 }

```



11205 }

## 82 File empheq-xetex-bidi.def

```

11206 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11207 \MHInternalSyntaxOn
11208 \def\EQ_tag_plus_endmark:{%
11209   \iftagsleft@
11210     \gdef\maketag@@@##1{%
11211       \hfuzz\displaywidth
11212       \if@RTL\makebox[\widthof{##1}][r]{%
11213         \hbox to \displaywidth{\m@th\normalfont##1\hss
11214           \raisebox{-\dp\EQ_mathdisplay_box
11215             -\depthof{\EQ_outerbox:}}{
11216               {\PotEndMark{\hss}}}}
11217       \else\makebox[\widthof{##1}][l]{%
11218         \hbox to \displaywidth{\m@th\normalfont##1\hss
11219           \raisebox{-\dp\EQ_mathdisplay_box
11220             -\depthof{\EQ_outerbox:}}{
11221               {\PotEndMark{\hss}}}}\fi}%
11222 \MH_else:
11223   \gdef\maketag@@@##1{%
11224     \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11225       \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11226       \MH_addtolength:dn \@tempdima
11227       {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11228       \setlength{\@tempdimb}
11229       {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11230       +\depthof{\EQ_innerbox:}}}%
11231     \MH_if_dim:w \@tempdima>\@tempdimb
11232     \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11233       -\@tempdima+\g_EQ_bottomrow_depth_dim}
11234     \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11235     \def\EQ_next:{\raisebox{\@tempdima}}}%
11236     \MH_else:
11237       \def\EQ_next:{
11238         \raisebox{-\dp\EQ_mathdisplay_box
11239           -\depthof{\EQ_outerbox:}}}%
11240     \MH_fi:\EQ_next:}}}%
11241 \MH_fi:}
11242 \def\EQ_post_process:{%
11243   \EQ_initialize:
11244   \EQ_begin_equation:
11245   \MH_if_boolean:nT {outer_mult}{
11246     \setkeys{MT_options_name:}{
11247       firstline-afterskip=Opt,
11248       lastline-preskip=Opt,
11249       multlined-width=Opt,
11250     }
11251     \ifodd \l_EQ_alignmentmode_int
11252       \setkeys{MT_options_name:}{multlined-pos=b}
11253     \MH_else:
11254       \setkeys{MT_options_name:}{multlined-pos=t}
11255     \MH_fi:

```



```

11256 \g@addto@macro\EQ_complete_mathdisplay:{
11257 \begin{MTmultlined}\relax}
11258 }
11259 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11260 \MH_if_boolean:nT {outer_mult}{
11261 \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11262 }
11263 \EQ_end_equation:
11264 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11265 \savecounters@
11266 \EQ_typeset_tags:
11267 \edef\l_EQ_equation_fint{\number\c@equation}
11268 \restorecounters@
11269 \Hy@linkcounter=\EQ_hyperref_link_fint
11270 \settowidth\l_EQ_totalwidth_dim{%
11271 $EQ_left_side\EQ_innerbox:{}\EQ_right_side:$}%
11272 \MH_if_boolean:nTF {outer_mult}
11273 { \def\EQ_next:{_mult} }
11274 { \def\EQ_next:{} }
11275 \@nameuse{EQ_modify_linewidth_
11276 \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11277 \EQ_typeset_display:
11278 \@nameuse{EQ_find_displaywidth_
11279 \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11280 \MH_addtolength:dn
11281 \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11282 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11283 $EQ_left_side:
11284 \EQ_innerbox:{%
11285 \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11286 \makebox[\l_EQ_displaywidth_dim][c]
11287 {\usebox{\EQ_mathdisplay_box}}}%
11288 \MH_or:
11289 \makebox[\l_EQ_displaywidth_dim][c]
11290 {\usebox{\EQ_mathdisplay_box}}}%
11291 \MH_or:
11292 \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11293 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11294 \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11295 \kern-\@mathmargin
11296 \MH_fi:
11297 \MH_fi:
11298 \usebox{\EQ_mathdisplay_box}}}%
11299 \else\makebox[\l_EQ_displaywidth_dim][l]{%
11300 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11301 \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11302 \kern-\@mathmargin
11303 \MH_fi:
11304 \MH_fi:
11305 \usebox{\EQ_mathdisplay_box}}\fi%
11306 \MH_or:
11307 \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11308 \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11309 \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:

```



```

11310         \kern-\@mathmargin
11311         \MH_fi:
11312         \MH_fi:
11313         \usebox{\EQ_mathdisplay_box}}
11314     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11315         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11316         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11317         \kern-\@mathmargin
11318         \MH_fi:
11319         \MH_fi:
11320         \usebox{\EQ_mathdisplay_box}}\fi%
11321     \MH_fi:}%
11322     \EQ_right_side:$}%
11323 \begin{AmSequation*}
11324 \@nameuse{EQ_place_display_
11325     \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11326 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11327 \MH_set_boolean_T:n {show_manual_tags}
11328 \MH_if_case:w \l_EQ_alignmentmode_int
11329 \MH_or: \ifRTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11330 \MH_or: \ifRTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11331 \MH_or: \ifRTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11332 \MH_or: \ifRTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11333 \MH_fi:
11334 \MH_fi:
11335 \end{AmSequation*}
11336 \global\c@equation=\l_EQ_equation_fint\relax
11337 }
11338 \AtBeginDocument{%
11339 \@ifpackageloaded{fancybox}{%
11340     \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11341     {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11342     \renewcommand*\shadowbox{%
11343         \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11344             \VerbBox\EQ_shadowbox:n}
11345             {\MH_set_boolean_F:n {shadowbox_star}
11346             \VerbBox\EQ_shadowbox:n}}
11347 \def\EQ_shadowbox:n #1{%
11348     \sbox{\z@}{\fbox{#1}}%
11349     \MH_if_boolean:nTF {shadowbox_star}{
11350         \MH_setlength:dn \@tempdima{\z@}%
11351     }{
11352         \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11353     }
11354     \raisebox{\@tempdima}{%
11355         \ifRTL\makebox[\z@][r]{%
11356             \kern\shadowsize \textcolor{shadowcolor}{%
11357                 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11358             }%
11359         \else\makebox[\z@][l]{%
11360             \kern\shadowsize \textcolor{shadowcolor}{%
11361                 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11362             }\fi%
11363         \usebox\z@\textcolor{shadowcolor}{%

```



```

11364         \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11365     }{}%
11366 }
11367 \MHInternalSyntaxOff

```

### 83 File extarticle-xetex-bidi.def

```

11368 \ProvidesFile{extarticle-xetex-bidi.def}[2025/09/30 v0.8 bidi adaptations for extarticle cla
11369 \renewcommand*\l@section[2]{%
11370   \ifnum \c@tocdepth >\z@
11371     \addpenalty\@secpenalty
11372     \addvspace{1.0em \@plus\p@}%
11373     \setlength\@tempdima{1.5em}%
11374     \begingroup
11375       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11376       \parfillskip -\@pnumwidth
11377       \leavevmode \bfseries
11378       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11379       \hskip -\if@RTL\rightskip\else\leftskip\fi
11380       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11381     \endgroup
11382   \fi}
11383 \renewcommand*\l@part[2]{%
11384   \ifnum \c@tocdepth >-2\relax
11385     \addpenalty\@secpenalty
11386     \addvspace{2.25em \@plus\p@}%
11387     \begingroup
11388       \setlength\@tempdima{3em}%
11389       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11390       \parfillskip -\@pnumwidth
11391       {\leavevmode
11392         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11393       \nobreak
11394     \endgroup
11395   \fi}
11396 \ApplyPatchIfPackageLoaded{nameref}{%
11397   \bidi@patchcmd\NR@part\raggedright{%
11398     \if@RTL\raggedleft\else\raggedright\fi
11399   }{}{\bidi@warningnoline{Oops! patching '\string\NR@part' failed}}%
11400   \bidi@patchcmd\NR@spart\raggedright{%
11401     \if@RTL\raggedleft\else\raggedright\fi
11402   }{}{\bidi@warningnoline{Oops! patching '\string\NR@spart' failed}}%
11403 }{}%
11404 \bidi@patchcmd\@part\raggedright{%
11405   \if@RTL\raggedleft\else\raggedright\fi
11406 }{}{\bidi@warningnoline{Oops! patching '\string\@part' failed}}%
11407 \bidi@patchcmd\@spart\raggedright{%
11408   \if@RTL\raggedleft\else\raggedright\fi
11409 }{}{\bidi@warningnoline{Oops! patching '\string\@spart' failed}}%
11410 }
11411 \renewenvironment{thebibliography}[1]
11412   {\section*{\refname
11413     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11414     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi

```



```

11415         \bidi@@thebibliography@font@hook%
11416         \list{\@biblabel{\@arabic\c@enumiv}}%
11417             {\settowidth\labelwidth{\@biblabel{#1}}%
11418              \leftmargin\labelwidth
11419              \advance\leftmargin\labelsep
11420              \@openbib@code
11421              \usecounter{enumiv}}%
11422         \let\p@enumiv\@empty
11423         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11424     \sloppy\clubpenalty4000\widowpenalty4000%
11425     \sfcode`. \m}
11426     {\def\@noitemerr
11427      {\@latex@warning{Empty `thebibliography' environment}}}%
11428     \endlist}
11429 \renewcommand\left@footnoterule{%
11430     \kern-3\p@
11431     \hrule\@width.4\columnwidth
11432     \kern2.6\p@}
11433 \renewcommand\right@footnoterule{%
11434     \kern-3\p@
11435     \nointerlineskip
11436     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11437     \kern2.6\p@}
11438     \if@titlepage
11439     \renewcommand\maketitle{\begin{titlepage}%
11440     \let\footnotesize\small
11441     \let\right@footnoterule\relax
11442     \let\left@footnoterule\relax
11443     \let\textwidth\footnoterule\relax
11444     \let \footnote \thanks
11445     \null\vfil
11446     \vskip 60\p@
11447     \begin{center}%
11448         {\LARGE \@title \par}%
11449         \vskip 3em%
11450         {\large
11451          \lineskip .75em%
11452          \begin{tabular}[t]{c}%
11453              \@author
11454              \end{tabular}\par}%
11455          \vskip 1.5em%
11456          {\large \@date \par}%           % Set date in \large size.
11457     \end{center}\par
11458     \@thanks
11459     \vfil\null
11460     \end{titlepage}%
11461     \setcounter{footnote}{0}%
11462     \global\let\thanks\relax
11463     \global\let\maketitle\relax
11464     \global\let\@thanks\@empty
11465     \global\let\@author\@empty
11466     \global\let\@date\@empty
11467     \global\let\@title\@empty
11468     \global\let\title\relax

```



```

11469 \global\let\author\relax
11470 \global\let\date\relax
11471 \global\let\and\relax
11472 }
11473 \else
11474 \renewcommand\maketitle{\par
11475 \begin{group}
11476 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11477 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11478 \long\def\@makefntext##1{\parindent 1em\noindent
11479 \hbox{#1}\hspace{1.8em}%
11480 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11481 \if@twocolumn
11482 \ifnum \col@number=\@one
11483 \maketitle
11484 \else
11485 \twocolumn[\maketitle]%
11486 \fi
11487 \else
11488 \newpage
11489 \global\@topnum\z@ % Prevents figures from going at top of page.
11490 \maketitle
11491 \fi
11492 \thispagestyle{plain}\@thanks
11493 \endgroup
11494 \setcounter{footnote}{0}%
11495 \global\let\thanks\relax
11496 \global\let\maketitle\relax
11497 \global\let\@maketitle\relax
11498 \global\let\@thanks\@empty
11499 \global\let\@author\@empty
11500 \global\let\@date\@empty
11501 \global\let\@title\@empty
11502 \global\let\title\relax
11503 \global\let\author\relax
11504 \global\let\date\relax
11505 \global\let\and\relax
11506 }
11507 \def\@maketitle{%
11508 \newpage
11509 \null
11510 \vskip 2em%
11511 \begin{center}%
11512 \let \footnote \thanks
11513 {\LARGE \@title \par}%
11514 \vskip 1.5em%
11515 {\large
11516 \lineskip .5em%
11517 \begin{tabular}[t]{c}%
11518 \@author
11519 \end{tabular}\par}%
11520 \vskip 1em%
11521 {\large \@date}%
11522 \end{center}%

```



```

11523 \par
11524 \vskip 1.5em}
11525 \fi
11526 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
11527 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11528 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11529 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 84 File extbook-xetex-bidi.def

```

11530 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11531 \if@titlepage
11532 \renewcommand\maketitle{\begin{titlepage}%
11533 \let\footnotesize\small
11534 \let\right@footnoterule\relax
11535 \let\left@footnoterule\relax
11536 \let\textwidth\footnoterule\relax
11537 \let \footnote \thanks
11538 \let \LTRfootnote \LTRthanks
11539 \let \RTLfootnote \RTLthanks
11540 \null\vfil
11541 \vskip 60\p@
11542 \begin{center}%
11543 {\LARGE \@title \par}%
11544 \vskip 3em%
11545 {\large
11546 \lineskip .75em%
11547 \begin{tabular}[t]{c}%
11548 \@author
11549 \end{tabular}\par}%
11550 \vskip 1.5em%
11551 {\large \@date \par}% % Set date in \large size.
11552 \end{center}\par
11553 \@thanks
11554 \vfil\null
11555 \end{titlepage}%
11556 \setcounter{footnote}{0}%
11557 \global\let\thanks\relax
11558 \global\let\LTRthanks\relax
11559 \global\let\RTLthanks\relax
11560 \global\let\maketitle\relax
11561 \global\let\@thanks\@empty
11562 \global\let\@author\@empty
11563 \global\let\@date\@empty
11564 \global\let\@title\@empty
11565 \global\let\title\relax
11566 \global\let\author\relax
11567 \global\let\date\relax
11568 \global\let\and\relax
11569 }
11570 \else
11571 \renewcommand\maketitle{\par
11572 \begingroup
11573 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%

```





```

11574 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11575 \long\def\@makefntext##1{\parindent 1em\noindent
11576 \hb@xt@1.8em{%
11577 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11578 \if@twocolumn
11579 \ifnum \col@number=\@ne
11580 \maketitle
11581 \else
11582 \twocolumn[\maketitle]%
11583 \fi
11584 \else
11585 \newpage
11586 \global\@topnum\z@ % Prevents figures from going at top of page.
11587 \maketitle
11588 \fi
11589 \thispagestyle{plain}\@thanks
11590 \endgroup
11591 \setcounter{footnote}{0}%
11592 \global\let\thanks\relax
11593 \global\let\LTRthanks\relax
11594 \global\let\RTLthanks\relax
11595 \global\let\maketitle\relax
11596 \global\let\@maketitle\relax
11597 \global\let\@thanks\@empty
11598 \global\let\@author\@empty
11599 \global\let\@date\@empty
11600 \global\let\@title\@empty
11601 \global\let\title\relax
11602 \global\let\author\relax
11603 \global\let\date\relax
11604 \global\let\and\relax
11605 }
11606 \def\@maketitle{%
11607 \newpage
11608 \null
11609 \vskip 2em%
11610 \begin{center}%
11611 \let \footnote \thanks
11612 \let \LTRfootnote \LTRthanks
11613 \let \RTLfootnote \RTLthanks
11614 {\LARGE \@title \par}%
11615 \vskip 1.5em%
11616 {\large
11617 \lineskip .5em%
11618 \begin{tabular}[t]{c}%
11619 \@author
11620 \end{tabular}\par}%
11621 \vskip 1em%
11622 {\large \@date}%
11623 \end{center}%
11624 \par
11625 \vskip 1.5em}
11626 \fi
11627 \renewcommand*\l@part[2]{%

```



```

11628 \ifnum \c@tocdepth >-2\relax
11629 \addpenalty{-\@highpenalty}%
11630 \addvspace{2.25em \@plus\p@}%
11631 \begingroup
11632 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11633 \parfillskip -\@pnumwidth
11634 {\leavevmode
11635 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11636 \nobreak
11637 \global\@nobreaktrue
11638 \everypar{\global\@nobreakfalse\everypar{}}%
11639 \endgroup
11640 \fi}
11641 \renewcommand\theequation
11642 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11643 \renewcommand\thefigure
11644 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11645 \renewcommand\thetable
11646 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11647 \renewcommand\thechapter {\@arabic\c@chapter}
11648 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
11649 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11650 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11651 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11652 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11653 \def\@makechapterhead#1{%
11654 \vspace*{50\p@}%
11655 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11656 \ifnum \c@secnumdepth >\m@ne
11657 \if@mainmatter
11658 \huge\bfseries \@chapapp\space \thechapter
11659 \par\nobreak
11660 \vskip 20\p@
11661 \fi
11662 \fi
11663 \interlinepenalty\@M
11664 \Huge \bfseries #1\par\nobreak
11665 \vskip 40\p@
11666 }}
11667
11668 \def\@makeschapterhead#1{%
11669 \vspace*{50\p@}%
11670 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11671 \normalfont
11672 \interlinepenalty\@M
11673 \Huge \bfseries #1\par\nobreak
11674 \vskip 40\p@
11675 }}
11676 \renewcommand\backmatter{%
11677 \if@openright
11678 \cleardoublepage
11679 \else
11680 \clearpage
11681 \fi

```



```

11682 \mainmatterfalse}
11683 \renewenvironment{thebibliography}[1]
11684   {\chapter*{\bibname
11685     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11686     \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
11687     \bidi@thebibliography@font@hook%
11688     \list{\@biblabel{\@arabic\c@enumiv}}%
11689       {\settowidth\labelwidth{\@biblabel{#1}}%
11690        \leftmargin\labelwidth
11691        \advance\leftmargin\labelsep
11692        \@openbib@code
11693        \usecounter{enumiv}%
11694        \let\p@enumiv\@empty
11695        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11696     \sloppy
11697     \clubpenalty4000
11698     \@clubpenalty \clubpenalty
11699     \widowpenalty4000%
11700     \sfcode\.\@m}
11701   {\def\@noitemerr
11702     {\@latex@warning{Empty `thebibliography' environment}}}%
11703   \endlist}

```

## 85 File extletter-xetex-bidi.def

```

11704 \ProvidesFile{extletter-xetex-bidi.def}[2025/09/30 v0.3 bidi adaptations for extletter class]
11705 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11706   \thispagestyle{firstpage}%
11707   {\ifRTL\raggedright\else\raggedleft\fi\@date\par}%
11708 \else % home address
11709   \thispagestyle{empty}%
11710   {\ifRTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11711     \fromaddress \*[2\parskip]%
11712     \@date \end{tabular}\par}%
11713 \fi
11714 \vspace{2\parskip}%
11715 {\ifRTL\raggedleft\else\raggedright\fi \toname \[2\parskip] \toaddress \par}%
11716 \vspace{2\parskip}%
11717 #1\par\nobreak}
11718 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11719   \stopbreaks
11720   \noindent
11721   \ifx\@empty\fromaddress\else
11722     \hspace*{\longindentation}\fi
11723   \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
11724     \ignorespaces #1\[[6\medskipamount]]%
11725     \ifx\@empty\fromsig
11726       \fromname
11727     \else \fromsig \fi\strut}%
11728   \par}
11729 \renewcommand\left@footnoterule{%
11730   \kern-\p@
11731   \hrule \@width .4\columnwidth
11732   \kern .6\p@}

```



```

11733 \renewcommand\right@footnoterule{%
11734   \kern-\p@
11735   \nointerlineskip
11736   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11737   \kern .6\p@}

```

## 86 File extrafootnotefeatures-xetex-bidi.def

```

11738 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/09/13 v2.8 bidi extra footnote feat
11739 \newdimen\bidi@columnwidth
11740 \def\bidi@floathook{%
11741   \bidi@columnwidth\columnwidth
11742 }
11743 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11744   \if@bidi@csundef{ifHy@hyperfootnotes}{}%
11745   \if@bidi@csundef{HLTR@@LTRfootnotetext}{}%
11746   \ifHy@hyperfootnotes
11747     \let\@@H@@footnotetext\@footnotetext
11748     \let\@@HLTR@@LTRfootnotetext\@LTRfootnotetext
11749     \let\@@HRTL@@RTLfootnotetext\@RTLfootnotetext
11750     \let\@@H@@mpfootnotetext\@mpfootnotetext
11751     \let\@@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11752     \let\@@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11753   \fi
11754 }%
11755 }%
11756 }
11757 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11758   \if@bidi@csundef{ifHy@hyperfootnotes}{}%
11759   \if@bidi@csundef{HLTR@@LTRfootnotetext}{}%
11760   \ifHy@hyperfootnotes
11761     \let\H@@footnotetext\@footnotetext
11762     \let\@footnotetext\@@H@@footnotetext
11763     \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
11764     \let\@LTRfootnotetext\@@HLTR@@LTRfootnotetext
11765     \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
11766     \let\@RTLfootnotetext\@@HRTL@@RTLfootnotetext
11767     \let\H@@mpfootnotetext\@mpfootnotetext
11768     \let\@mpfootnotetext\@@H@@mpfootnotetext
11769     \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11770     \let\@mpLTRfootnotetext\@@HLTR@@mpLTRfootnotetext
11771     \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11772     \let\@mpRTLfootnotetext\@@HRTL@@mpRTLfootnotetext
11773   \fi
11774 }%
11775 }%
11776 }
11777 \let\autofootnoterule\relax
11778 \let\rightfootnoterule\relax
11779 \let\leftfootnoterule\relax
11780 \let\textwidthfootnoterule\relax
11781 \let\LRfootnoterule\relax
11782 \def\footnoterule{\kern-3\p@
11783   \hrule \@width \columnwidth \kern 2.6\p@}

```



```

11784 \newcommand{\@preamnormalfmt}{%
11785   \parindent 1em%
11786   \noindent
11787 }
11788 \newcommand{\@normalfootfmt}[1]{%
11789   \@preamnormalfmt
11790   \footfootmark
11791   \rule{z@\footnotesep\ignorespaces}{\foottextfont #1}%
11792   \@finalstrut\strutbox
11793 }
11794 \newcommand{\@normalRTLfootfmt}[1]{%
11795   \@preamnormalfmt
11796   \RTLfootfootmark
11797   \rule{z@\footnotesep\ignorespaces}{\RTLfoottextfont #1}%
11798   \@finalstrut\strutbox
11799 }
11800 \newcommand{\@normalLTRfootfmt}[1]{%
11801   \@preamnormalfmt
11802   \LTRfootfootmark
11803   \rule{z@\footnotesep\ignorespaces}{\LTRfoottextfont #1}%
11804   \@finalstrut\strutbox
11805 }
11806 \renewcommand{\@footnotetext}[1]{%
11807   \insert\footins{%
11808     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11809     \def\baselinestretch{\m@m@footnote@spacing}%
11810     \reset@font
11811     \foottextfont
11812     \@preamfntext
11813     \hsize\columnwidth
11814     \protected@edef\@currentlabel{%
11815       \csname p@footnote\endcsname\@thefnmark}%
11816     \color@begingroup
11817       \@normalfootfmt{#1}%
11818     \color@endgroup}%
11819     \m@m@mmf@prepare}
11820 \renewcommand{\@RTLfootnotetext}[1]{%
11821   \insert\footins{%
11822     \@RTLtrue%
11823     \def\baselinestretch{\m@m@footnote@spacing}%
11824     \reset@font
11825     \RTLfoottextfont
11826     \@preamfntext
11827     \hsize\columnwidth
11828     \protected@edef\@currentlabel{%
11829       \csname p@footnote\endcsname\@thefnmark}%
11830     \color@begingroup
11831       \@normalRTLfootfmt{#1}%
11832     \color@endgroup}%
11833     \m@m@mmf@prepare}
11834 \renewcommand{\@LTRfootnotetext}[1]{%
11835   \insert\footins{%
11836     \@RTLfalse%
11837     \def\baselinestretch{\m@m@footnote@spacing}%

```



```

11838 \reset@font
11839 \LTRfoottextfont
11840 \@preamftext
11841 \hsize\columnwidth
11842 \protected@edef\@currentlabel{%
11843 \csname p@footnote\endcsname\@thefnmark}%
11844 \color@begingroup
11845 \@normalLTRfootfmt{#1}%
11846 \color@endgroup}%
11847 \m@m@mmf@prepare}
11848 \renewcommand{\@mpfootnotetext}[1]{%
11849 \global\setbox\@mpfootins\vbox{%
11850 \unvbox\@mpfootins
11851 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11852 \def\baselinestretch{\m@m@footnote@spacing}%
11853 \reset@font%
11854 \foottextfont \hsize\columnwidth \@parboxrestore
11855 \protected@edef\@currentlabel{%
11856 \csname p@mpfootnote\endcsname\@thefnmark}%
11857 \color@begingroup
11858 \@normalfootfmt{#1}%
11859 \color@endgroup}}
11860 \renewcommand{\@mplTRfootnotetext}[1]{%
11861 \global\setbox\@mpfootins\vbox{%
11862 \unvbox\@mpfootins
11863 \@RTLfalse
11864 \def\baselinestretch{\m@m@footnote@spacing}%
11865 \reset@font%
11866 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11867 \protected@edef\@currentlabel{%
11868 \csname p@mpfootnote\endcsname\@thefnmark}%
11869 \color@begingroup
11870 \@normalLTRfootfmt{#1}%
11871 \color@endgroup}}
11872 \renewcommand{\@mpRTLfootnotetext}[1]{%
11873 \global\setbox\@mpfootins\vbox{%
11874 \unvbox\@mpfootins
11875 \@RTLtrue
11876 \def\baselinestretch{\m@m@footnote@spacing}%
11877 \reset@font%
11878 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11879 \protected@edef\@currentlabel{%
11880 \csname p@mpfootnote\endcsname\@thefnmark}%
11881 \color@begingroup
11882 \@normalRTLfootfmt{#1}%
11883 \color@endgroup}}
11884 \let\m@mold@footnotetext\@footnotetext
11885 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11886 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11887 \let\m@mold@mpfootnotetext\@mpfootnotetext
11888 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11889 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11890 \bidi@ensure@newcommand{\normalfootnotes}{%
11891 \@bidi@before@Hy@hyperfootnotes

```



```

11892 \let\@footnotetext\m@mold@footnotetext
11893 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11894 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11895 \let\@mpfootnotetext\m@mold@mpfootnotetext
11896 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11897 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11898 \@bidi@after@Hy@hyperfootnotes
11899 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11900 }
11901 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11902 \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
11903   \def\m@m@singlespace{#1}%
11904   \def\m@m@footnote@spacing{#1}%
11905   \def\m@m@float@spacing{#1} %
11906 }
11907 \setSingleSpace{1}
11908 \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
11909 \bidi@ensure@newcommand*{\m@m@mmf@prepare}{%
11910   \kern-\multiplefootnotemarker
11911   \kern\multiplefootnotemarker\relax}
11912 \bidi@ensure@newlength{\footmarkwidth}
11913 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
11914 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11915 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11916 \bidi@ensure@newcommand{\footfootmark}{%
11917   \ifdim\footmarkwidth < \z@
11918     \llap{\hb@xt@ -\footmarkwidth{%
11919       \hss\normalfont\footscript{\@thefnmark}}}%
11920     \hspace*{-\footmarkwidth}}%
11921   \else
11922     \ifdim\footmarkwidth = \z@
11923       {\normalfont\footscript{\@thefnmark}}%
11924     \else
11925       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11926     \fi
11927   \fi}
11928 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11929   \ifdim\footmarkwidth < \z@
11930     \llap{\hb@xt@ -\footmarkwidth{%
11931       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11932     \hspace*{-\footmarkwidth}}%
11933   \else
11934     \ifdim\footmarkwidth = \z@
11935       {\normalfont\LTRfootscript{\@thefnmark}}%
11936     \else
11937       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11938     \fi
11939   \fi}
11940 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11941   \ifdim\footmarkwidth < \z@
11942     \llap{\hb@xt@ -\footmarkwidth{%
11943       \hss\normalfont\RTLfootscript{\@thefnmark}}}%
11944     \hspace*{-\footmarkwidth}}%
11945   \else

```



```

11946 \ifdim\footmarkwidth = \z@
11947   {\normalfont\RTLfootscript{\@thefnmark}}%
11948 \else
11949   \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11950 \fi
11951 \fi}
11952 \footmarkstyle{\textsuperscript{#1}}
11953 \LTRfootmarkstyle{\textsuperscript{#1}}
11954 \RTLfootmarkstyle{\textsuperscript{#1}}
11955 \newcommand*{\bidi@normal@footmarkwidth}{%
11956   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11957 }
11958 \newcommand*{\bidi@star@footmarkwidth}{%
11959   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11960 }
11961 \bidi@normal@footmarkwidth
11962 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11963 \bidi@ensure@newcommand*{\extrafeetins}{%
11964   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11965   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11966   \bidi@joinfootnotes\@bidi@copyins@}{\unvbox\@bidi@copyins@}%
11967   \extrafeetinshook}
11968 \bidi@ensure@newcommand{\extrafeetinshook}{%
11969   \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11970   \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11971   \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11972   \bidi@ensure@newlength{\footinsdim}
11973   \setlength{\footinsdim}{8in} % standard for \dimen\footins
11974   \bidi@ensure@newcommand{\@preamfntext}{%
11975     \interlinepenalty\interfootnotelinepenalty
11976     \floatingpenalty \@MM
11977     \splittopskip=\footnotesep
11978     \splitmaxdepth=\dp\strutbox
11979     \@parboxrestore}
11980 \def\bidi@ifmulticol#1#2{\@tempswafalse
11981   \ifnum\col@number>\@ne
11982     \ifnum\count\footins>1999 \@tempwattrue \fi
11983   \fi
11984   \if@tempswa #1\else #2\fi
11985 }
11986 \def\bidi@joinfootnotes#1#2#3{%
11987   \ifvoid#1
11988   \else
11989     \@tempskipa\skip#1%
11990     \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
11991     \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11992     \bidi@removexfootskip
11993     \ifvoid\footins
11994       \global\setbox\footins\vbox{#2#3}%
11995     \else
11996       \global\setbox\footins\vbox{%
11997         \unvbox\footins
11998         \bidi@footskip
11999         #2#3%

```





```

12000     }%
12001     \fi
12002 \fi
12003 }
12004 \def\bidijoinmpfootnotes#1#2#3{%
12005     \ifvoid#1
12006     \else
12007         \@tempskipa\skip#1%
12008         \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12009         \edef\bidifootskip{\vskip\the\@tempskipa\relax}%
12010         \bidi@removexfootskip
12011         \ifvoid\@mpfootins
12012             \global\setbox\@mpfootins\vbox{#2#3}%
12013         \else
12014             \global\setbox\@mpfootins\vbox{%
12015                 \unvbox\@mpfootins
12016                 \bidi@footskip
12017                 #2#3%
12018             }%
12019         \fi
12020     \fi
12021 }
12022 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12023     \extrafeetminihook}
12024 \bidi@ensure@newcommand{\extrafeetendmini}{%
12025     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12026     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12027     \extrafeetendminihook}
12028 \bidi@ensure@newcommand{\extrafeetendminihook}{%
12029     \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12030 \def\endminipage{%
12031     \par
12032     \unskip
12033     \m@mdoextrafeetendmini
12034     \ifvoid\@mpfootins
12035     \else
12036         \vskip\skip\@mpfootins
12037         \normalcolor
12038         \footnoterule
12039         \unvbox\@mpfootins
12040     \fi
12041     \@minipagefalse
12042     \color@endgroup
12043     \egroup
12044     \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12045 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12046     \@namedef{\footstart#1}{%
12047         \leftskip=\z@
12048         \rightskip=\z@
12049         \parindent=\z@
12050     }%
12051 }
12052 \newinsert\footinsv@r
12053 \skip\footinsv@r\skip\footins

```



```

12054 \count\footinsv@r=1000 % no magnification
12055 \dimen\footinsv@r=\footinsdim
12056 \m@make@footstart{v@r}
12057 \newinsert\footinsv@l
12058 \skip\footinsv@l\skip\footins
12059 \count\footinsv@l=1000 % no magnification
12060 \dimen\footinsv@l=\footinsdim
12061 \m@make@footstart{v@l}
12062 \bidi@ensure@newcommand{\@footgroupv@r}{\}
12063 \newinsert\@mpfootinsv@r
12064 \skip\@mpfootinsv@r\skip\@mpfootins
12065 \newinsert\@mpfootinsv@l
12066 \skip\@mpfootinsv@l\skip\@mpfootins
12067 \bidi@ensure@newcommand{\mp@footgroupv@r}{\}
12068 \newcount\m@m@k \newdimen\m@m@h
12069 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12070 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12071 \valign{##\vfill\cr\m@m@dosplits}\endR}}
12072 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12073 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12074 \valign{##\vfill\cr\m@m@dosplits}\endL}}
12075 \bidi@ensure@newcommand*{\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
12076 \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
12077 \bidi@ensure@newcommand*{\m@m@splitoff}{\dimen0=\ht0
12078 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12079 \setbox2 \vsplit0 to \dimen0
12080 \unvbox2 }
12081 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12082 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12083 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12084 \@bidi@before@Hy@hyperfootnotes
12085 \let\@footnotetext\@twocolfootnotetext
12086 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12087 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12088 \dimen\footinsv@r=2\footinsdim
12089 \count\footinsv@r=500\relax
12090 \m@make@twocol@footgroup{v@r}%
12091 \let\@footgroupv@r\@twocol@footgroupv@r
12092 \dimen\footinsv@l=2\footinsdim
12093 \count\footinsv@l=500\relax
12094 \bidi@make@twocol@LTRfootgroup{v@l}%
12095 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12096 \let\@mpfootnotetext\@mptwocolfootnotetext
12097 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12098 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12099 \@bidi@after@Hy@hyperfootnotes
12100 \m@make@mptwocol@footgroup{v@r}%
12101 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12102 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12103 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12104 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12105 }
12106 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12107 \if@RTL@footnote

```



```

12108 \footinsv@r
12109 \else
12110 \footinsv@l
12111 \fi
12112 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12113 \def\baselinestretch{\m@{footnote@spacing}%
12114 \reset@font\foottextfont
12115 \@preamfntext
12116 \protected@edef\@currentlabel{%
12117 \csname p@footnote\endcsname\@thefnmark}%
12118 \color@begingroup
12119 \@twocolfootfmt{#1}%
12120 \color@endgroup}%
12121 \m@mmf@prepare}
12122 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12123 \def\baselinestretch{\m@{footnote@spacing}%
12124 \reset@font\LTRfoottextfont
12125 \@preamfntext
12126 \protected@edef\@currentlabel{%
12127 \csname p@footnote\endcsname\@thefnmark}%
12128 \color@begingroup
12129 \@twocolLTRfootfmt{#1}%
12130 \color@endgroup}%
12131 \m@mmf@prepare}
12132 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12133 \def\baselinestretch{\m@{footnote@spacing}%
12134 \reset@font\RTLfoottextfont
12135 \@preamfntext
12136 \protected@edef\@currentlabel{%
12137 \csname p@footnote\endcsname\@thefnmark}%
12138 \color@begingroup
12139 \@twocolRTLfootfmt{#1}%
12140 \color@endgroup}%
12141 \m@mmf@prepare}
12142 \bidi@ensure@newcommand{\@preamtwofmt}{%
12143 \hspace{.45\hsize}
12144 \parindent=\z@
12145 \tolerance=5000\relax
12146 \leavevmode}
12147 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12148 \@preamtwofmt
12149 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12150 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12151 \@preamtwofmt
12152 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12153 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12154 \@preamtwofmt
12155 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12156 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12157 \global\setbox
12158 \if@RTL@footnote
12159 \@mpfootinsv@r
12160 \else
12161 \@mpfootinsv@l

```



```

12162 \fi
12163 \vbox{%
12164   \unvbox
12165   \if@RTL@footnote
12166   \@mpfootinsv@r
12167 \else
12168   \@mpfootinsv@l
12169 \fi
12170 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12171 \def\baselinestretch{\m@m@footnote@spacing}%
12172 \reset@font\foottextfont
12173 \hsize\columnwidth \@parboxrestore
12174 \protected@edef\@currentlabel{%
12175   \csname p@mpfootnote\endcsname\@thefnmark}%
12176 \color@begingroup
12177   \@twocolfootfmt{#1}%
12178 \color@endgroup}%
12179 \m@m@mmf@prepare}
12180 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12181   \global\setbox\@mpfootinsv@l\vbox{%
12182     \unvbox\@mpfootinsv@l
12183     \@RTLfalse
12184     \def\baselinestretch{\m@m@footnote@spacing}%
12185     \reset@font\LTRfoottextfont
12186     \hsize\columnwidth \@parboxrestore
12187     \protected@edef\@currentlabel{%
12188       \csname p@mpfootnote\endcsname\@thefnmark}%
12189     \color@begingroup
12190       \@twocolLTRfootfmt{#1}%
12191     \color@endgroup}%
12192   \m@m@mmf@prepare}
12193 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12194   \global\setbox\@mpfootinsv@r\vbox{%
12195     \unvbox\@mpfootinsv@r
12196     \@RTLtrue
12197     \def\baselinestretch{\m@m@footnote@spacing}%
12198     \reset@font\RTLfoottextfont
12199     \hsize\columnwidth \@parboxrestore
12200     \protected@edef\@currentlabel{%
12201       \csname p@mpfootnote\endcsname\@thefnmark}%
12202     \color@begingroup
12203       \@twocolRTLfootfmt{#1}%
12204     \color@endgroup}%
12205   \m@m@mmf@prepare}
12206 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12207   \@namedef{@twocol@footgroup#1}{%
12208     \def\baselinestretch{\m@m@footnote@spacing}%
12209     \hsize\bidi@columnwidth
12210     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12211     \m@r@rigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12212 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12213   \@namedef{@twocol@LTRfootgroup#1}{%
12214     \def\baselinestretch{\m@m@footnote@spacing}%
12215     \hsize\bidi@columnwidth

```



```

12216 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12217 \bidi@LTRrigidbalance{\nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12218 \bidi@ensure@newcommand{\m@make@mp@twocol@footgroup}[1]{%
12219 \namedef{\m@make@mp@twocol@footgroup#1}{%
12220 \def\baselinestretch{\m@make@mp@footnote@spacing}%
12221 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12222 \m@make@mp@rigidbalance{\nameuse{mp@footins#1}}{\tw@}{\splittopskip}}}}
12223 \newcommand{\bidi@make@mp@twocol@LTRfootgroup}[1]{%
12224 \namedef{\m@make@mp@twocol@LTRfootgroup#1}{%
12225 \def\baselinestretch{\m@make@mp@footnote@spacing}%
12226 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12227 \bidi@LTRrigidbalance{\nameuse{mp@footins#1}}{\tw@}{\splittopskip}}}}
12228 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12229 \namedef{\foottextfontv@r}{\foottextfont}% % [RS]
12230 \namedef{\foottextfontv@l}{\LTRfoottextfont}%
12231 \@bidi@before@Hy@hyperfootnotes
12232 \let\@footnotetext\@threecolfootnotetext
12233 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12234 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12235 \dimen\footinsv@r=3\footinsdim
12236 \count\footinsv@r=333\relax
12237 \m@make@threecol@footgroup{v@r}%
12238 \let\@footgroupv@r\@threecol@footgroupv@r
12239 \dimen\footinsv@l=3\footinsdim
12240 \count\footinsv@l=333\relax
12241 \bidi@make@threecol@LTRfootgroup{v@l}%
12242 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12243 \let\@mpfootnotetext\@mpthreecolfootnotetext
12244 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12245 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12246 \@bidi@after@Hy@hyperfootnotes
12247 \m@make@mpthreecol@footgroup{v@r}%
12248 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12249 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12250 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12251 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12252 }
12253 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12254 \if@RTL@footnote
12255 \footinsv@r
12256 \else
12257 \footinsv@l
12258 \fi
12259 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12260 \def\baselinestretch{\m@make@mp@footnote@spacing}%
12261 \reset@font\foottextfont
12262 \@preamfntext
12263 \protected@edef\@currentlabel{%
12264 \csname p@footnote\endcsname\@thefnmark}%
12265 \color@begingroup
12266 \@threecolfootfmt{#1}%
12267 \color@endgroup}\m@mmf@prepare}
12268 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12269 \def\baselinestretch{\m@make@mp@footnote@spacing}%

```



```

12270 \reset@font\LTRfoottextfont
12271 \@preamfntext
12272 \protected@edef\@currentlabel{%
12273   \csname p@footnote\endcsname\@thefnmark}%
12274 \color@begingroup
12275   \@threecolLTRfootfmt{#1}%
12276 \color@endgroup}\m@mmf@prepare}
12277 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12278   \def\baselinestretch{\m@m@footnote@spacing}%
12279   \reset@font\RTLfoottextfont
12280   \@preamfntext
12281   \protected@edef\@currentlabel{%
12282     \csname p@footnote\endcsname\@thefnmark}%
12283   \color@begingroup
12284     \@threecolRTLfootfmt{#1}%
12285   \color@endgroup}\m@mmf@prepare}
12286 \bidi@ensure@newcommand{\@preamthreefmt}{%
12287   \hsize .3\hsize
12288   \parindent=\z@
12289   \tolerance=5000\relax
12290   \leavevmode}
12291 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12292   \@preamthreefmt
12293   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12294 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12295   \@preamthreefmt
12296   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12297 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12298   \@preamthreefmt
12299   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12300 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12301   \global\setbox
12302     \if@RTL@footnote
12303     \@mpfootinsv@r
12304   \else
12305     \@mpfootinsv@l
12306   \fi
12307   \vbox{%
12308     \unvbox
12309     \if@RTL@footnote
12310     \@mpfootinsv@r
12311   \else
12312     \@mpfootinsv@l
12313   \fi
12314   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12315   \def\baselinestretch{\m@m@footnote@spacing}%
12316   \reset@font\foottextfont
12317   \hsize\columnwidth \@parboxrestore
12318   \protected@edef\@currentlabel{%
12319     \csname p@mpfootnote\endcsname\@thefnmark}%
12320   \color@begingroup
12321     \@threecolfootfmt{#1}%
12322   \color@endgroup}\m@mmf@prepare}
12323 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%

```



```

12324 \global\setbox\@mpfootinsv@l\vbox{%
12325   \unvbox\@mpfootinsv@l
12326   \RTLfalse
12327   \def\baselinestretch{\m@m@footnote@spacing}%
12328   \reset@font\LTRfoottextfont
12329   \hsize\columnwidth \@parboxrestore
12330   \protected@edef\@currentlabel{%
12331     \csname p@mpfootnote\endcsname\@thefnmark}%
12332   \color@begingroup
12333     \@threecolLTRfootfmt{#1}%
12334   \color@endgroup}\m@mmf@prepare}
12335 \bidi@ensure@newcommand{\m@mpthreecolRTLfootnotetext}[1]{%
12336   \global\setbox\@mpfootinsv@r\vbox{%
12337     \unvbox\@mpfootinsv@r
12338     \RTLtrue
12339     \def\baselinestretch{\m@m@footnote@spacing}%
12340     \reset@font\RTLfoottextfont
12341     \hsize\columnwidth \@parboxrestore
12342     \protected@edef\@currentlabel{%
12343       \csname p@mpfootnote\endcsname\@thefnmark}%
12344     \color@begingroup
12345       \@threecolRTLfootfmt{#1}%
12346     \color@endgroup}\m@mmf@prepare}
12347 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12348   \@namedef{\@threecol@footgroup#1}{%
12349     \def\baselinestretch{\m@m@footnote@spacing}%
12350     \hsize\columnwidth
12351     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12352     \m@m@rigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%
12353 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12354   \@namedef{\@threecol@LTRfootgroup#1}{%
12355     \def\baselinestretch{\m@m@footnote@spacing}%
12356     \hsize\columnwidth
12357     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12358     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%
12359 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12360   \@namedef{\@mpthreecol@footgroup#1}{%
12361     \def\baselinestretch{\m@m@footnote@spacing}%
12362     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12363     \m@m@rigidbalance{\@nameuse{\@mpfootins#1}}{\thr@@}{\splittopskip}}}%
12364 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12365   \@namedef{\@mpthreecol@LTRfootgroup#1}{%
12366     \def\baselinestretch{\m@m@footnote@spacing}%
12367     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12368     \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{\thr@@}{\splittopskip}}}%
12369 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12370   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12371   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12372   \@bidi@before@Hy@hyperfootnotes
12373   \let\@footnotetext\@fourcolfootnotetext
12374   \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12375   \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12376   \dimen\footinsv@r=4\footinsdim
12377   \count\footinsv@r=250\relax

```



```

12378 \m@make@fourcol@footgroup{v@r}%
12379 \let\@footgroupv@r\@fourcol@footgroupv@r
12380 \dimen\footinsv@l=4\footinsdim
12381 \count\footinsv@l=250\relax
12382 \bidi@make@fourcol@LTRfootgroup{v@l}%
12383 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12384 \let\@mpfootnotetext\@mpfourcolfootnotetext
12385 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12386 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12387 \@bidi@after@Hy@hyperfootnotes
12388 \m@make@mpfourcol@footgroup{v@r}%
12389 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12390 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12391 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12392 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12393 }
12394 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12395 \ifRTL@footnote
12396 \footinsv@r
12397 \else
12398 \footinsv@l
12399 \fi
12400 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12401 \def\baselinestretch{\m@m@footnote@spacing}%
12402 \reset@font\foottextfont
12403 \@preamfntext
12404 \protected@edef\@currentlabel{%
12405 \csname p@footnote\endcsname\@thefnmark}%
12406 \color@begingroup
12407 \@fourcolfootfmt{#1}%
12408 \color@endgroup}%
12409 \m@mmf@prepare}
12410 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12411 \def\baselinestretch{\m@m@footnote@spacing}%
12412 \reset@font\LTRfoottextfont
12413 \@preamfntext
12414 \protected@edef\@currentlabel{%
12415 \csname p@footnote\endcsname\@thefnmark}%
12416 \color@begingroup
12417 \@fourcolLTRfootfmt{#1}%
12418 \color@endgroup}%
12419 \m@mmf@prepare}
12420 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12421 \def\baselinestretch{\m@m@footnote@spacing}%
12422 \reset@font\RTLfoottextfont
12423 \@preamfntext
12424 \protected@edef\@currentlabel{%
12425 \csname p@footnote\endcsname\@thefnmark}%
12426 \color@begingroup
12427 \@fourcolRTLfootfmt{#1}%
12428 \color@endgroup}%
12429 \m@mmf@prepare}
12430 \bidi@ensure@newcommand{\@preamfourfmt}{%
12431 \hspace .25\hspace

```





```

12432 \parindent=\z@
12433 \tolerance=5000\relax
12434 \leavevmode}
12435 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12436 \@preamfourfmt
12437 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12438 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12439 \@preamfourfmt
12440 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12441 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12442 \@preamfourfmt
12443 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12444 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12445 \global\setbox
12446 \if@RTL@footnote
12447 \@mpfootinsv@r
12448 \else
12449 \@mpfootinsv@l
12450 \fi
12451 \vbox{%
12452 \unvbox
12453 \if@RTL@footnote
12454 \@mpfootinsv@r
12455 \else
12456 \@mpfootinsv@l
12457 \fi
12458 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12459 \def\baselinestretch{\m@m@footnote@spacing}%
12460 \reset@font\foottextfont
12461 \hsize\columnwidth \@parboxrestore
12462 \protected@edef\@currentlabel{%
12463 \csname p@mpfootnote\endcsname\@thefnmark}%
12464 \color@begingroup
12465 \@fourcolfootfmt{#1}%
12466 \color@endgroup}%
12467 \m@m@prepare}
12468 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12469 \global\setbox\@mpfootinsv@l\vbox{%
12470 \unvbox\@mpfootinsv@l
12471 \@RTLfalse
12472 \def\baselinestretch{\m@m@footnote@spacing}%
12473 \reset@font\LTRfoottextfont
12474 \hsize\columnwidth \@parboxrestore
12475 \protected@edef\@currentlabel{%
12476 \csname p@mpfootnote\endcsname\@thefnmark}%
12477 \color@begingroup
12478 \@fourcolLTRfootfmt{#1}%
12479 \color@endgroup}%
12480 \m@m@prepare}
12481 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12482 \global\setbox\@mpfootinsv@r\vbox{%
12483 \unvbox\@mpfootinsv@r
12484 \@RTLtrue
12485 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12486 \reset@font\RTLfoottextfont
12487 \hsize\columnwidth \@parboxrestore
12488 \protected@edef\@currentlabel{%
12489 \csname p@mpfootnote\endcsname\@thefnmark}%
12490 \color@begingroup
12491 \@fourcolRTLfootfmt{#1}%
12492 \color@endgroup}%
12493 \m@mfmf@prepare}
12494 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
12495 \@namedef{\@fourcol@footgroup#1}{%
12496 \def\baselinestretch{\m@m@footnote@spacing}%
12497 \hsize\bidi@columnwidth
12498 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12499 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
12500 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
12501 \@namedef{\@fourcol@LTRfootgroup#1}{%
12502 \def\baselinestretch{\m@m@footnote@spacing}%
12503 \hsize\bidi@columnwidth
12504 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12505 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
12506 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
12507 \@namedef{\@mpfourcol@footgroup#1}{%
12508 \def\baselinestretch{\m@m@footnote@spacing}%
12509 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12510 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
12511 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
12512 \@namedef{\@mpfourcol@LTRfootgroup#1}{%
12513 \def\baselinestretch{\m@m@footnote@spacing}%
12514 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12515 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
12516 \bidi@ensure@newcommand{\@fivecolumnfootnotes}{%
12517 \@namedef{foottextfontv@r}{\foottextfont}% \ % [RS]
12518 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12519 \@bidi@before@Hy@hyperfootnotes
12520 \let\@footnotetext\@fivecolfootnotetext
12521 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
12522 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
12523 \dimen\footinsv@r=5\footinsdim
12524 \count\footinsv@r=200\relax
12525 \m@make@fivecol@footgroup{v@r}%
12526 \let\@footgroupv@r\@fivecol@footgroupv@r
12527 \dimen\footinsv@l=5\footinsdim
12528 \count\footinsv@l=200\relax
12529 \bidi@make@fivecol@LTRfootgroup{v@l}%
12530 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
12531 \let\@mpfootnotetext\@mpfivecolfootnotetext
12532 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
12533 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
12534 \@bidi@after@Hy@hyperfootnotes
12535 \m@make@mpfivecol@footgroup{v@r}%
12536 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
12537 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
12538 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
12539 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

12540 }
12541 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
12542   \if@RTL@footnote
12543     \footinsv@r
12544   \else
12545     \footinsv@l
12546   \fi
12547 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12548   \def\baselinestretch{\m@m@footnote@spacing}%
12549   \reset@font\foottextfont
12550   \@preamfntext
12551   \protected@edef\@currentlabel{%
12552     \csname p@footnote\endcsname\@thefnmark}%
12553   \color@begingroup
12554     \@fivecolfootfmt{#1}%
12555   \color@endgroup}%
12556   \m@mmf@prepare}
12557 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12558   \def\baselinestretch{\m@m@footnote@spacing}%
12559   \reset@font\LTRfoottextfont
12560   \@preamfntext
12561   \protected@edef\@currentlabel{%
12562     \csname p@footnote\endcsname\@thefnmark}%
12563   \color@begingroup
12564     \@fivecolLTRfootfmt{#1}%
12565   \color@endgroup}%
12566   \m@mmf@prepare}
12567 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12568   \def\baselinestretch{\m@m@footnote@spacing}%
12569   \reset@font\RTLfoottextfont
12570   \@preamfntext
12571   \protected@edef\@currentlabel{%
12572     \csname p@footnote\endcsname\@thefnmark}%
12573   \color@begingroup
12574     \@fivecolRTLfootfmt{#1}%
12575   \color@endgroup}%
12576   \m@mmf@prepare}
12577 \bidi@ensure@newcommand{\@preamfivefmt}{%
12578   \hsize .2\hsize
12579   \parindent=\z@
12580   \tolerance=5000\relax
12581   \leavevmode}
12582 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
12583   \@preamfivefmt
12584   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12585 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
12586   \@preamfivefmt
12587   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12588 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
12589   \@preamfivefmt
12590   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12591 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
12592   \global\setbox
12593     \if@RTL@footnote

```



```

12594 \mpfootinsv@r
12595 \else
12596 \mpfootinsv@l
12597 \fi
12598 \vbox{%
12599 \unvbox
12600 \if@RTL@footnote
12601 \mpfootinsv@r
12602 \else
12603 \mpfootinsv@l
12604 \fi
12605 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12606 \def\baselinestretch{\m@m@footnote@spacing}%
12607 \reset@font\foottextfont
12608 \hsize\columnwidth \@parboxrestore
12609 \protected@edef\@currentlabel{%
12610 \csname p@mpfootnote\endcsname\@thefnmark}%
12611 \color@begingroup
12612 \@fivecolfootfmt{#1}%
12613 \color@endgroup}%
12614 \m@m@mmf@prepare}
12615 \bidi@ensure@newcommand{\mpfivecolLTRfootnotetext}[1]{%
12616 \global\setbox\@mpfootinsv@l\vbox{%
12617 \unvbox\@mpfootinsv@l
12618 \@RTLfalse
12619 \def\baselinestretch{\m@m@footnote@spacing}%
12620 \reset@font\LTRfoottextfont
12621 \hsize\columnwidth \@parboxrestore
12622 \protected@edef\@currentlabel{%
12623 \csname p@mpfootnote\endcsname\@thefnmark}%
12624 \color@begingroup
12625 \@fivecolLTRfootfmt{#1}%
12626 \color@endgroup}%
12627 \m@m@mmf@prepare}
12628 \bidi@ensure@newcommand{\mpfivecolRTLfootnotetext}[1]{%
12629 \global\setbox\@mpfootinsv@r\vbox{%
12630 \unvbox\@mpfootinsv@r
12631 \@RTLtrue
12632 \def\baselinestretch{\m@m@footnote@spacing}%
12633 \reset@font\RTLfoottextfont
12634 \hsize\columnwidth \@parboxrestore
12635 \protected@edef\@currentlabel{%
12636 \csname p@mpfootnote\endcsname\@thefnmark}%
12637 \color@begingroup
12638 \@fivecolRTLfootfmt{#1}%
12639 \color@endgroup}%
12640 \m@m@mmf@prepare}
12641 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
12642 \@namedef{\@fivecol@footgroup#1}{%
12643 \def\baselinestretch{\m@m@footnote@spacing}%
12644 \hsize\@bidi@columnwidth
12645 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12646 \m@m@rigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
12647 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%

```



```

12648 \@namedef{@fivecol@LTRfootgroup#1}{%
12649 \def\baselinestretch{\m@m@footnote@spacing}%
12650 \hspace\bidibidi@columnwidth
12651 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12652 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
12653 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
12654 \@namedef{@mpfivecol@footgroup#1}{%
12655 \def\baselinestretch{\m@m@footnote@spacing}%
12656 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12657 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
12658 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
12659 \@namedef{@mpfivecol@LTRfootgroup#1}{%
12660 \def\baselinestretch{\m@m@footnote@spacing}%
12661 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12662 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
12663 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
12664 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12665 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12666 \@bidi@before@Hy@hyperfootnotes
12667 \let\@footnotetext\@sixcolfootnotetext
12668 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
12669 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
12670 \dimen\footinsv@r=6\footinsdim
12671 \count\footinsv@r=166\relax
12672 \m@make@sixcol@footgroup{v@r}%
12673 \let\@footgroupv@r\@sixcol@footgroupv@r
12674 \dimen\footinsv@l=6\footinsdim
12675 \count\footinsv@l=166\relax
12676 \bidi@make@sixcol@LTRfootgroup{v@l}%
12677 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
12678 \let\@mpfootnotetext\@mpsixcolfootnotetext
12679 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
12680 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
12681 \@bidi@after@Hy@hyperfootnotes
12682 \m@make@mpsixcol@footgroup{v@r}%
12683 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
12684 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
12685 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
12686 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12687 }
12688 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
12689 \if@RTL@footnote
12690 \footinsv@r
12691 \else
12692 \footinsv@l
12693 \fi
12694 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12695 \def\baselinestretch{\m@m@footnote@spacing}%
12696 \reset@font\foottextfont
12697 \@preamfntext
12698 \protected@edef\@currentlabel{%
12699 \csname p@footnote\endcsname\@thefnmark}%
12700 \color@begingroup
12701 \@sixcolfootfmt{#1}%

```



```

12702 \color@endgroup}%
12703 \m@mmf@prepare}
12704 \bidi@ensure@newcommand{\@sixcollTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12705 \def\baselinestretch{\m@m@footnote@spacing}%
12706 \reset@font\LTRfoottextfont
12707 \@preamfntext
12708 \protected@edef\@currentlabel{%
12709 \csname p@footnote\endcsname\@thefnmark}%
12710 \color@begingroup
12711 \@sixcollTRfootfmt{#1}%
12712 \color@endgroup}%
12713 \m@mmf@prepare}
12714 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12715 \def\baselinestretch{\m@m@footnote@spacing}%
12716 \reset@font\RTLfoottextfont
12717 \@preamfntext
12718 \protected@edef\@currentlabel{%
12719 \csname p@footnote\endcsname\@thefnmark}%
12720 \color@begingroup
12721 \@sixcolRTLfootfmt{#1}%
12722 \color@endgroup}%
12723 \m@mmf@prepare}
12724 \bidi@ensure@newcommand{\@preamsixfmt}{%
12725 \hspace{.16\hsize
12726 \parindent=\z@
12727 \tolerance=5000\relax
12728 \leavevmode}
12729 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
12730 \@preamsixfmt
12731 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12732 \bidi@ensure@newcommand{\@sixcollTRfootfmt}[1]{%
12733 \@preamsixfmt
12734 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12735 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
12736 \@preamsixfmt
12737 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12738 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
12739 \global\setbox
12740 \if@RTL@footnote
12741 \@mpfootinsv@r
12742 \else
12743 \@mpfootinsv@l
12744 \fi
12745 \vbox{%
12746 \unvbox
12747 \if@RTL@footnote
12748 \@mpfootinsv@r
12749 \else
12750 \@mpfootinsv@l
12751 \fi
12752 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12753 \def\baselinestretch{\m@m@footnote@spacing}%
12754 \reset@font\foottextfont
12755 \hspace\columnwidth \@parboxrestore

```



```

12756 \protected@edef\@currentlabel{%
12757 \csname p@mpfootnote\endcsname\@thefnmark}%
12758 \color@begingroup
12759 \@sixcolfootfmt{#1}%
12760 \color@endgroup}%
12761 \m@mmf@prepare}
12762 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
12763 \global\setbox\@mpfootinsv@l\vbox{%
12764 \unvbox\@mpfootinsv@l
12765 \@RTLfalse
12766 \def\baselinestretch{\m@m@footnote@spacing}%
12767 \reset@font\LTRfoottextfont
12768 \hsize\columnwidth \@parboxrestore
12769 \protected@edef\@currentlabel{%
12770 \csname p@mpfootnote\endcsname\@thefnmark}%
12771 \color@begingroup
12772 \@sixcolLTRfootfmt{#1}%
12773 \color@endgroup}%
12774 \m@mmf@prepare}
12775 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
12776 \global\setbox\@mpfootinsv@r\vbox{%
12777 \unvbox\@mpfootinsv@r
12778 \@RTLtrue
12779 \def\baselinestretch{\m@m@footnote@spacing}%
12780 \reset@font\RTLfoottextfont
12781 \hsize\columnwidth \@parboxrestore
12782 \protected@edef\@currentlabel{%
12783 \csname p@mpfootnote\endcsname\@thefnmark}%
12784 \color@begingroup
12785 \@sixcolRTLfootfmt{#1}%
12786 \color@endgroup}%
12787 \m@mmf@prepare}
12788 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
12789 \@namedef{\@sixcol@footgroup#1}{%
12790 \def\baselinestretch{\m@m@footnote@spacing}%
12791 \hsize\bidi@columnwidth
12792 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12793 \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12794 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
12795 \@namedef{\@sixcol@LTRfootgroup#1}{%
12796 \def\baselinestretch{\m@m@footnote@spacing}%
12797 \hsize\bidi@columnwidth
12798 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12799 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12800 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
12801 \@namedef{\@mpsixcol@footgroup#1}{%
12802 \def\baselinestretch{\m@m@footnote@spacing}%
12803 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12804 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}%
12805 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
12806 \@namedef{\@mpsixcol@LTRfootgroup#1}{%
12807 \def\baselinestretch{\m@m@footnote@spacing}%
12808 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12809 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}%

```



```

12810 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
12811   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12812   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12813   \@bidi@before@Hy@hyperfootnotes
12814   \let\@footnotetext\@sevendcolumnfootnotetext
12815   \let\@LTRfootnotetext\@sevendcolumnLTRfootnotetext
12816   \let\@RTLfootnotetext\@sevendcolumnRTLfootnotetext
12817   \dimen\footinsv@r=7\footinsdim
12818   \count\footinsv@r=142\relax
12819   \m@make@sevendcolumn@footgroup{v@r}%
12820   \let\@footgroupv@r\@sevendcolumn@footgroupv@r
12821   \dimen\footinsv@l=7\footinsdim
12822   \count\footinsv@l=142\relax
12823   \bidi@make@sevendcolumn@LTRfootgroup{v@l}%
12824   \let\@LTRfootgroupv@l\@sevendcolumn@LTRfootgroupv@l
12825   \let\@mpfootnotetext\@mpsevendcolumnfootnotetext
12826   \let\@mpLTRfootnotetext\@mpsevendcolumnLTRfootnotetext
12827   \let\@mpRTLfootnotetext\@mpsevendcolumnRTLfootnotetext
12828   \@bidi@after@Hy@hyperfootnotes
12829   \m@make@mpsevendcolumn@footgroup{v@r}%
12830   \let\mp@footgroupv@r\@mpsevendcolumn@footgroupv@r
12831   \bidi@make@mpsevendcolumn@LTRfootgroup{v@l}%
12832   \let\mp@LTRfootgroupv@l\@mpsevendcolumn@LTRfootgroupv@l
12833   \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12834 }
12835 \bidi@ensure@newcommand{\@sevendcolumnfootnotetext}[1]{\insert
12836   \if@RTL@footnote
12837     \footinsv@r
12838   \else
12839     \footinsv@l
12840   \fi
12841 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12842   \def\baselinestretch{\m@mm@footnote@spacing}%
12843   \reset@font\foottextfont
12844   \@preamfntext
12845   \protected@edef\@currentlabel{%
12846     \csname p@footnote\endcsname\@thefnmark}%
12847   \color@begingroup
12848     \@sevendcolumnfootfmt{#1}%
12849   \color@endgroup}%
12850   \m@mmf@prepare}
12851 \bidi@ensure@newcommand{\@sevendcolumnLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12852   \def\baselinestretch{\m@mm@footnote@spacing}%
12853   \reset@font\LTRfoottextfont
12854   \@preamfntext
12855   \protected@edef\@currentlabel{%
12856     \csname p@footnote\endcsname\@thefnmark}%
12857   \color@begingroup
12858     \@sevendcolumnLTRfootfmt{#1}%
12859   \color@endgroup}%
12860   \m@mmf@prepare}
12861 \bidi@ensure@newcommand{\@sevendcolumnRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12862   \def\baselinestretch{\m@mm@footnote@spacing}%
12863   \reset@font\RTLfoottextfont

```





```

12864 \@preamfntext
12865 \protected@edef\@currentlabel{%
12866   \csname p@footnote\endcsname\@thefnmark}%
12867 \color@begingroup
12868   \@sevencolRTLfootfmt{#1}%
12869 \color@endgroup}%
12870 \m@mmf@prepare}
12871 \bidi@ensure@newcommand{\@preamsevenfmt}{%
12872   \hspace{.142\hspace}
12873   \parindent=\z@
12874   \tolerance=5000\relax
12875   \leavevmode}
12876 \bidi@ensure@newcommand{\@sevencolfootfmt}[1]{%
12877   \@preamsevenfmt
12878   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12879 \bidi@ensure@newcommand{\@sevencolLTRfootfmt}[1]{%
12880   \@preamsevenfmt
12881   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12882 \bidi@ensure@newcommand{\@sevencolRTLfootfmt}[1]{%
12883   \@preamsevenfmt
12884   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12885 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{%
12886   \global\setbox
12887     \if@RTL@footnote
12888     \@mpfootinsv@r
12889   \else
12890     \@mpfootinsv@l
12891   \fi
12892   \vbox{%
12893     \unvbox
12894     \if@RTL@footnote
12895     \@mpfootinsv@r
12896   \else
12897     \@mpfootinsv@l
12898   \fi
12899   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12900   \def\baselinestretch{\m@m@footnote@spacing}%
12901   \reset@font\foottextfont
12902   \hspace\columnwidth \@parboxrestore
12903   \protected@edef\@currentlabel{%
12904     \csname p@mpfootnote\endcsname\@thefnmark}%
12905   \color@begingroup
12906     \@sevencolfootfmt{#1}%
12907   \color@endgroup}%
12908   \m@mmf@prepare}
12909 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{%
12910   \global\setbox\@mpfootinsv@l\vbox{%
12911     \unvbox\@mpfootinsv@l
12912     \@RTLfalse
12913     \def\baselinestretch{\m@m@footnote@spacing}%
12914     \reset@font\LTRfoottextfont
12915     \hspace\columnwidth \@parboxrestore
12916     \protected@edef\@currentlabel{%
12917       \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

12918 \color@begingroup
12919 \sevenscolLTRfootfmt{#1}%
12920 \color@endgroup}%
12921 \m@mmf@prepare}
12922 \bidi@ensure@newcommand{\mpsevenscolRTLfootnotetext}[1]{%
12923 \global\setbox\@mpfootinsv@r\vbox{%
12924 \unvbox\@mpfootinsv@r
12925 \RTLtrue
12926 \def\baselinestretch{\m@m@footnote@spacing}%
12927 \reset@font\RTLfoottextfont
12928 \hsize\columnwidth \parboxrestore
12929 \protected@edef\@currentlabel{%
12930 \csname p@mpfootnote\endcsname\@thefnmark}%
12931 \color@begingroup
12932 \sevenscolRTLfootfmt{#1}%
12933 \color@endgroup}%
12934 \m@mmf@prepare}
12935 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
12936 \@namedef{\sevenscol@footgroup#1}{%
12937 \def\baselinestretch{\m@m@footnote@spacing}%
12938 \hsize\columnwidth
12939 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12940 \m@mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
12941 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
12942 \@namedef{\sevenscol@LTRfootgroup#1}{%
12943 \def\baselinestretch{\m@m@footnote@spacing}%
12944 \hsize\columnwidth
12945 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12946 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
12947 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
12948 \@namedef{\mpsevenscol@footgroup#1}{%
12949 \def\baselinestretch{\m@m@footnote@spacing}%
12950 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12951 \m@mrigidbalance{\@nameuse{\mpfootins#1}}{7}{\splittopskip}}}}
12952 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
12953 \@namedef{\mpsevenscol@LTRfootgroup#1}{%
12954 \def\baselinestretch{\m@m@footnote@spacing}%
12955 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12956 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{7}{\splittopskip}}}}
12957 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
12958 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12959 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12960 \@bidi@before@Hy@hyperfootnotes
12961 \let\@footnotetext\@eightcolfootnotetext
12962 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
12963 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
12964 \dimen\footinsv@r=8\footinsdim
12965 \count\footinsv@r=125\relax
12966 \m@make@eightcol@footgroup{v@r}%
12967 \let\@footgroupv@r\@eightcol@footgroupv@r
12968 \dimen\footinsv@l=8\footinsdim
12969 \count\footinsv@l=125\relax
12970 \bidi@make@eightcol@LTRfootgroup{v@l}%
12971 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l

```



```

12972 \let\@mpfootnotetext\@mpeightcolfootnotetext
12973 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
12974 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
12975 \@bidi@after@Hy@hyperfootnotes
12976 \m@make@mpeightcol@footgroup{v@r}%
12977 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
12978 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
12979 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
12980 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12981 }
12982 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
12983   \if@RTL@footnote
12984     \footinsv@r
12985   \else
12986     \footinsv@l
12987   \fi
12988 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12989   \def\baselinestretch{\m@m@footnote@spacing}%
12990   \reset@font\foottextfont
12991   \@preamfntext
12992   \protected@edef\@currentlabel{%
12993     \csname p@footnote\endcsname\@thefnmark}%
12994   \color@begingroup
12995     \@eightcolfootfmt{#1}%
12996   \color@endgroup}%
12997   \m@m@m@prepare}
12998 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12999   \def\baselinestretch{\m@m@footnote@spacing}%
13000   \reset@font\LTRfoottextfont
13001   \@preamfntext
13002   \protected@edef\@currentlabel{%
13003     \csname p@footnote\endcsname\@thefnmark}%
13004   \color@begingroup
13005     \@eightcolLTRfootfmt{#1}%
13006   \color@endgroup}%
13007   \m@m@m@prepare}
13008 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13009   \def\baselinestretch{\m@m@footnote@spacing}%
13010   \reset@font\RTLfoottextfont
13011   \@preamfntext
13012   \protected@edef\@currentlabel{%
13013     \csname p@footnote\endcsname\@thefnmark}%
13014   \color@begingroup
13015     \@eightcolRTLfootfmt{#1}%
13016   \color@endgroup}%
13017   \m@m@m@prepare}
13018 \bidi@ensure@newcommand{\@preameightfmt}{%
13019   \hspace{.125\hspace}
13020   \parindent=\z@
13021   \tolerance=5000\relax
13022   \leavevmode}
13023 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
13024   \@preameightfmt
13025   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}

```



```

13026 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
13027   \@preameightfmt
13028   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13029 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
13030   \@preameightfmt
13031   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13032 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
13033   \global\setbox
13034     \if@RTL@footnote
13035     \@mpfootinsv@r
13036   \else
13037     \@mpfootinsv@l
13038   \fi
13039   \vbox{%
13040     \unvbox
13041     \if@RTL@footnote
13042     \@mpfootinsv@r
13043   \else
13044     \@mpfootinsv@l
13045   \fi
13046   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13047   \def\baselinestretch{\m@m@footnote@spacing}%
13048   \reset@font\foottextfont
13049   \hsize\columnwidth \@parboxrestore
13050   \protected@edef\@currentlabel{%
13051     \csname p@mpfootnote\endcsname\@thefnmark}%
13052   \color@begingroup
13053     \@eightcolfootfmt{#1}%
13054   \color@endgroup}%
13055   \m@m@mmf@prepare}
13056 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
13057   \global\setbox\@mpfootinsv@l\vbox{%
13058     \unvbox\@mpfootinsv@l
13059     \@RTLfalse
13060     \def\baselinestretch{\m@m@footnote@spacing}%
13061     \reset@font\LTRfoottextfont
13062     \hsize\columnwidth \@parboxrestore
13063     \protected@edef\@currentlabel{%
13064       \csname p@mpfootnote\endcsname\@thefnmark}%
13065     \color@begingroup
13066       \@eightcolLTRfootfmt{#1}%
13067     \color@endgroup}%
13068     \m@m@mmf@prepare}
13069 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
13070   \global\setbox\@mpfootinsv@r\vbox{%
13071     \unvbox\@mpfootinsv@r
13072     \@RTLtrue
13073     \def\baselinestretch{\m@m@footnote@spacing}%
13074     \reset@font\RTLfoottextfont
13075     \hsize\columnwidth \@parboxrestore
13076     \protected@edef\@currentlabel{%
13077       \csname p@mpfootnote\endcsname\@thefnmark}%
13078     \color@begingroup
13079     \@eightcolRTLfootfmt{#1}%

```



```

13080 \color@endgroup}%
13081 \m@mmf@prepare}
13082 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
13083 \namedef{@eightcol@footgroup#1}{%
13084 \def\baselinestretch{\m@m@footnote@spacing}%
13085 \hsize\bidi@columnwidth
13086 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13087 \m@mrigidbalance{\nameuse{footins#1}}{8}{\splittopskip}}}}
13088 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
13089 \namedef{@eightcol@LTRfootgroup#1}{%
13090 \def\baselinestretch{\m@m@footnote@spacing}%
13091 \hsize\bidi@columnwidth
13092 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13093 \bidi@LTRrigidbalance{\nameuse{footins#1}}{8}{\splittopskip}}}}
13094 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
13095 \namedef{@mpeightcol@footgroup#1}{%
13096 \def\baselinestretch{\m@m@footnote@spacing}%
13097 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13098 \m@mrigidbalance{\nameuse{mpfootins#1}}{8}{\splittopskip}}}}
13099 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
13100 \namedef{@mpeightcol@LTRfootgroup#1}{%
13101 \def\baselinestretch{\m@m@footnote@spacing}%
13102 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13103 \bidi@LTRrigidbalance{\nameuse{mpfootins#1}}{8}{\splittopskip}}}}
13104 \bidi@ensure@newcommand{\ninecolumnfootnotes}{%
13105 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13106 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13107 \@bidi@before@Hy@hyperfootnotes
13108 \let\@footnotetext\@ninecolfootnotetext
13109 \let\@LTRfootnotetext\@ninecolLTRfootnotetext
13110 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
13111 \dimen\footinsv@r=9\footinsdim
13112 \count\footinsv@r=111\relax
13113 \m@make@ninecol@footgroup{v@r}%
13114 \let\@footgroupv@r\@ninecol@footgroupv@r
13115 \dimen\footinsv@l=9\footinsdim
13116 \count\footinsv@l=111\relax
13117 \bidi@make@ninecol@LTRfootgroup{v@l}%
13118 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
13119 \let\@mpfootnotetext\@mpninecolfootnotetext
13120 \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
13121 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
13122 \@bidi@after@Hy@hyperfootnotes
13123 \m@make@mpninecol@footgroup{v@r}%
13124 \let\@mp@footgroupv@r\@mpninecol@footgroupv@r
13125 \bidi@make@mpninecol@LTRfootgroup{v@l}%
13126 \let\@mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
13127 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13128 }
13129 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert
13130 \if@RTL@footnote
13131 \footinsv@r
13132 \else
13133 \footinsv@l

```



```

13134 \fi
13135 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13136 \def\baselinestretch{\m@footnote@spacing}%
13137 \reset@font\foottextfont
13138 \@preamfntext
13139 \protected@edef\@currentlabel{%
13140 \csname p@footnote\endcsname\@thefnmark}%
13141 \color@begingroup
13142 \@ninecolfootfmt{#1}%
13143 \color@endgroup}%
13144 \m@mmf@prepare}
13145 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13146 \def\baselinestretch{\m@footnote@spacing}%
13147 \reset@font\LTRfoottextfont
13148 \@preamfntext
13149 \protected@edef\@currentlabel{%
13150 \csname p@footnote\endcsname\@thefnmark}%
13151 \color@begingroup
13152 \@ninecolLTRfootfmt{#1}%
13153 \color@endgroup}%
13154 \m@mmf@prepare}
13155 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13156 \def\baselinestretch{\m@footnote@spacing}%
13157 \reset@font\RTLfoottextfont
13158 \@preamfntext
13159 \protected@edef\@currentlabel{%
13160 \csname p@footnote\endcsname\@thefnmark}%
13161 \color@begingroup
13162 \@ninecolRTLfootfmt{#1}%
13163 \color@endgroup}%
13164 \m@mmf@prepare}
13165 \bidi@ensure@newcommand{\@preamninefmt}{%
13166 \hspace{.1\hspace}
13167 \parindent=\z@
13168 \tolerance=5000\relax
13169 \leavevmode}
13170 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
13171 \@preamninefmt
13172 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13173 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
13174 \@preamninefmt
13175 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13176 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
13177 \@preamninefmt
13178 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13179 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
13180 \global\setbox
13181 \ifRTL@footnote
13182 \@mpfootinsv@r
13183 \else
13184 \@mpfootinsv@l
13185 \fi
13186 \vbox{%
13187 \unvbox

```



```

13188 \if@RTL@footnote
13189 \@mpfootinsv@r
13190 \else
13191 \@mpfootinsv@l
13192 \fi
13193 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13194 \def\baselinestretch{\m@m@footnote@spacing}%
13195 \reset@font\foottextfont
13196 \hsize\columnwidth \@parboxrestore
13197 \protected@edef\@currentlabel{%
13198 \csname p@mpfootnote\endcsname\@thefnmark}%
13199 \color@begingroup
13200 \@ninecolfootfmt{#1}%
13201 \color@endgroup}%
13202 \m@mmf@prepare}
13203 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
13204 \global\setbox\@mpfootinsv@l\vbox{%
13205 \unvbox\@mpfootinsv@l
13206 \@RTLfalse
13207 \def\baselinestretch{\m@m@footnote@spacing}%
13208 \reset@font\LTRfoottextfont
13209 \hsize\columnwidth \@parboxrestore
13210 \protected@edef\@currentlabel{%
13211 \csname p@mpfootnote\endcsname\@thefnmark}%
13212 \color@begingroup
13213 \@ninecolLTRfootfmt{#1}%
13214 \color@endgroup}%
13215 \m@mmf@prepare}
13216 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
13217 \global\setbox\@mpfootinsv@r\vbox{%
13218 \unvbox\@mpfootinsv@r
13219 \@RTLtrue
13220 \def\baselinestretch{\m@m@footnote@spacing}%
13221 \reset@font\RTLfoottextfont
13222 \hsize\columnwidth \@parboxrestore
13223 \protected@edef\@currentlabel{%
13224 \csname p@mpfootnote\endcsname\@thefnmark}%
13225 \color@begingroup
13226 \@ninecolRTLfootfmt{#1}%
13227 \color@endgroup}%
13228 \m@mmf@prepare}
13229 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
13230 \@namedef{\@ninecol@footgroup#1}{%
13231 \def\baselinestretch{\m@m@footnote@spacing}%
13232 \hsize\bidi@columnwidth
13233 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13234 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
13235 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
13236 \@namedef{\@ninecol@LTRfootgroup#1}{%
13237 \def\baselinestretch{\m@m@footnote@spacing}%
13238 \hsize\bidi@columnwidth
13239 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13240 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
13241 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%

```



```

13242 \@namedef{@mpninecol@footgroup#1}{%
13243   \def\baselinestretch{\m@m@footnote@spacing}%
13244   \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13245   \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}%
13246 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
13247 \@namedef{@mpninecol@LTRfootgroup#1}{%
13248   \def\baselinestretch{\m@m@footnote@spacing}%
13249   \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13250   \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}%
13251 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
13252   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13253   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13254   \@bidi@before@Hy@hyperfootnotes
13255   \let\@footnotetext\@tencolfootnotetext
13256   \let\@LTRfootnotetext\@tencolLTRfootnotetext
13257   \let\@RTLfootnotetext\@tencolRTLfootnotetext
13258   \dimen\footinsv@r=10\footinsdim
13259   \count\footinsv@r=100\relax
13260   \m@make@tencol@footgroup{v@r}%
13261   \let\@footgroupv@r\@tencol@footgroupv@r
13262   \dimen\footinsv@l=10\footinsdim
13263   \count\footinsv@l=100\relax
13264   \bidi@make@tencol@LTRfootgroup{v@l}%
13265   \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
13266   \let\@mpfootnotetext\@mptencolfootnotetext
13267   \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
13268   \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
13269   \@bidi@after@Hy@hyperfootnotes
13270   \m@make@mptencol@footgroup{v@r}%
13271   \let\mp@footgroupv@r\@mptencol@footgroupv@r
13272   \bidi@make@mptencol@LTRfootgroup{v@l}%
13273   \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
13274   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13275 }
13276 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
13277   \if@RTL@footnote
13278     \footinsv@r
13279   \else
13280     \footinsv@l
13281   \fi
13282 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13283   \def\baselinestretch{\m@m@footnote@spacing}%
13284   \reset@font\foottextfont
13285   \@preamfntext
13286   \protected@edef\@currentlabel{%
13287     \csname p@footnote\endcsname\@thefnmark}%
13288   \color@begingroup
13289     \@tencolfootfmt{#1}%
13290   \color@endgroup}%
13291   \m@mmf@prepare}
13292 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13293   \def\baselinestretch{\m@m@footnote@spacing}%
13294   \reset@font\LTRfoottextfont
13295   \@preamfntext

```





```

13296 \protected@edef\@currentlabel{%
13297   \csname p@footnote\endcsname\@thefnmark}%
13298 \color@begingroup
13299   \@tencolLTRfootfmt{#1}%
13300 \color@endgroup}%
13301 \m@mmf@prepare}
13302 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13303   \def\baselinestretch{\m@m@footnote@spacing}%
13304   \reset@font\RTLfoottextfont
13305   \@preamfntext
13306   \protected@edef\@currentlabel{%
13307     \csname p@footnote\endcsname\@thefnmark}%
13308   \color@begingroup
13309     \@tencolRTLfootfmt{#1}%
13310   \color@endgroup}%
13311   \m@mmf@prepare}
13312 \bidi@ensure@newcommand{\@preamtenfmt}{%
13313   \hsize .1\hsize
13314   \parindent=\z@
13315   \tolerance=5000\relax
13316   \leavevmode}
13317 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
13318   \@preamtenfmt
13319   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13320 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
13321   \@preamtenfmt
13322   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13323 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
13324   \@preamtenfmt
13325   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13326 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
13327   \global\setbox
13328     \if@RTL@footnote
13329     \@mpfootinsv@r
13330   \else
13331     \@mpfootinsv@l
13332   \fi
13333   \vbox{%
13334     \unvbox
13335     \if@RTL@footnote
13336     \@mpfootinsv@r
13337   \else
13338     \@mpfootinsv@l
13339   \fi
13340   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13341   \def\baselinestretch{\m@m@footnote@spacing}%
13342   \reset@font\foottextfont
13343   \hsize\columnwidth \@parboxrestore
13344   \protected@edef\@currentlabel{%
13345     \csname p@mpfootnote\endcsname\@thefnmark}%
13346   \color@begingroup
13347     \@tencolfootfmt{#1}%
13348   \color@endgroup}%
13349   \m@mmf@prepare}

```



```

13350 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
13351   \global\setbox\@mpfootinsv@l\vbox{%
13352     \unvbox\@mpfootinsv@l
13353     \RTLfalse
13354     \def\baselinestretch{\m@m@footnote@spacing}%
13355     \reset@font\LTRfoottextfont
13356     \hsize\columnwidth \@parboxrestore
13357     \protected@edef\@currentlabel{%
13358       \csname p@mpfootnote\endcsname\@thefnmark}%
13359     \color@begingroup
13360       \@tencolLTRfootfmt{#1}%
13361     \color@endgroup}%
13362   \m@m@mmf@prepare}
13363 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
13364   \global\setbox\@mpfootinsv@r\vbox{%
13365     \unvbox\@mpfootinsv@r
13366     \RTLtrue
13367     \def\baselinestretch{\m@m@footnote@spacing}%
13368     \reset@font\RTLfoottextfont
13369     \hsize\columnwidth \@parboxrestore
13370     \protected@edef\@currentlabel{%
13371       \csname p@mpfootnote\endcsname\@thefnmark}%
13372     \color@begingroup
13373       \@tencolRTLfootfmt{#1}%
13374     \color@endgroup}%
13375   \m@m@mmf@prepare}
13376 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
13377   \@namedef{\@tencol@footgroup#1}{%
13378     \def\baselinestretch{\m@m@footnote@spacing}%
13379     \hsize\bidi@columnwidth
13380     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13381     \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}
13382 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
13383   \@namedef{\@tencol@LTRfootgroup#1}{%
13384     \def\baselinestretch{\m@m@footnote@spacing}%
13385     \hsize\bidi@columnwidth
13386     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13387     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}
13388 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
13389   \@namedef{\@mptencol@footgroup#1}{%
13390     \def\baselinestretch{\m@m@footnote@spacing}%
13391     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13392     \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{10}{\splittopskip}}
13393 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
13394   \@namedef{\@mptencol@LTRfootgroup#1}{%
13395     \def\baselinestretch{\m@m@footnote@spacing}%
13396     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13397     \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{10}{\splittopskip}}
13398 \bidi@ensure@newcommand{\m@m@unvboxh}[1]{%
13399   \setbox0=\vbox{\unvbox#1}
13400   \global\setbox1=\lastbox}%
13401 \unhbox1
13402 \unskip
13403 \unskip

```



```

13404 \unpenalty
13405 \hskip\m@mipn@skip}
13406 \bidi@ensure@newcommand{\m@mungebox}{%
13407 \setbox0=\hbox{\m@munvxh0}%
13408 \dp0=\z@
13409 \ht0=\footfudgefactor\wd0
13410 \box0
13411 \penalty0}
13412 \newskip\m@mipn@skip
13413 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
13414 {\foottextfont\global\m@mipn@skip=#1\relax}}
13415 \m@minterparanoteglue{1em plus.3em minus.3em}
13416 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
13417 \setbox0=\hbox{}}%
13418 \loop
13419 \unpenalty
13420 \setbox2=\lastbox
13421 \ifhbox2
13422 \setbox0=\hbox{\box2\unhbox0}
13423 \repeat}
13424 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
13425 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
13426 \newcommand*{\AddExtraParaSkip}[1]{%
13427 \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
13428 }
13429 \let\bidi@xparaskip\relax
13430 \@onlypreamble\AddExtraParaSkip
13431 \@onlypreamble\bidi@xparaskip
13432 \def\bidi@startparafootskip#1{%
13433 \global\advance\skip#1\bidi@paraskip
13434 }
13435 \@onlypreamble\bidi@startparafootskip
13436 \bidi@ensure@newcommand{\paragraphfootnotes}{%
13437 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13438 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13439 \@bidi@before@Hy@hyperfootnotes
13440 \let\@footnotetext\@parafootnotetext
13441 \let\@LTRfootnotetext\@paraLTRfootnotetext
13442 \let\@RTLfootnotetext\@paraRTLfootnotetext
13443 \dimen\footinsv@r=\footinsdim
13444 \count\footinsv@r=1000\relax
13445 \let\bidi@removexfootskip\bidi@removexparafootskip
13446 \m@make@para@footgroup{v@r}%
13447 \m@make@para@footstart{v@r}%
13448 \let\@footgroupv@r\@para@footgroupv@r
13449 \let\@footstartv@r\@para@footstartv@r
13450 \dimen\footinsv@l=\footinsdim
13451 \count\footinsv@l=1000\relax
13452 \bidi@make@para@LTRfootgroup{v@l}%
13453 \m@make@para@footstart{v@l}%
13454 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13455 \let\@footstartv@l\@para@footstartv@l
13456 \let\@mpfootnotetext\@mpparafootnotetext
13457 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext

```



```

13458 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
13459 \@bidi@after@Hy@hyperfootnotes
13460 \m@make@mppara@footgroup{v@r}%
13461 \bidi@make@mppara@LTRfootgroup{v@l}%
13462 \let\mp@footgroupv@r\@mppara@footgroupv@r
13463 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
13464 \g@addto@macro\bidi@floathook{%
13465   \begingroup
13466     \foottextfont \@tempdima\normalbaselineskip
13467     \multiply \@tempdima \ccclvi
13468     \@tempdimb \columnwidth
13469     \divide \@tempdimb \ccclvi
13470     \divide \@tempdima \@tempdimb
13471     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13472   \endgroup
13473 }
13474 \AtBeginDocument{%
13475   \begingroup
13476     \foottextfont
13477     \@tempdima\footnotesep
13478     \advance\@tempdima -\ht\strutbox
13479     \ifdim\@tempdima<z@ \@tempdima z@ \fi
13480     \advance\@tempdima.5\normalbaselineskip
13481     \bidi@xparaskip
13482     \xdef\bidi@paraskip{\the\@tempdima\relax}%
13483   \endgroup
13484   \bidi@startparafootskip\footinsv@r
13485   \bidi@startparafootskip\footinsv@l
13486 }
13487 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13488 }
13489 \newcommand{\normalRTLparaLTRfootnotes}{%
13490   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13491   \@bidi@before@Hy@hyperfootnotes
13492   \if@RTL@footnote
13493     \let\@footnotetext\m@mold@footnotetext
13494   \else
13495     \let\@footnotetext\@parafootnotetext
13496   \fi
13497   \let\@LTRfootnotetext\@paraLTRfootnotetext
13498   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
13499   \dimen\footinsv@l=\footinsdim
13500   \count\footinsv@l=1000\relax
13501   \let\bidi@removexfootskip\bidi@removexparafootskip
13502   \bidi@make@para@LTRfootgroup{v@l}%
13503   \m@make@para@footstart{v@l}%
13504   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13505   \let\@footstartv@l\@para@footstartv@l
13506   \if@RTL@footnote
13507     \let\@mpfootnotetext\m@mold@mpfootnotetext
13508   \else
13509     \let\@mpfootnotetext\@mpparafootnotetext
13510   \fi
13511   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext

```



```

13512 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
13513 \@bidi@after@Hy@hyperfootnotes
13514 \bidi@make@mppara@LTRfootgroup{v@1}%
13515 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
13516 \g@addto@macro\bidi@floathook{%
13517   \begingroup
13518     \LTRfoottextfont \@tempdima\normalbaselineskip
13519     \multiply \@tempdima \@cclvi
13520     \@tempdimb \columnwidth
13521     \divide \@tempdimb \@cclvi
13522     \divide \@tempdima \@tempdimb
13523     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13524   \endgroup
13525 }
13526 \AtBeginDocument{%
13527   \begingroup
13528     \LTRfoottextfont
13529     \@tempdima\footnotesep
13530     \advance\@tempdima -\ht\strutbox
13531     \ifdim\@tempdima<z@ \@tempdima z@ \fi
13532     \advance\@tempdima.5\normalbaselineskip
13533     \bidi@xparaskip
13534     \xdef\bidi@paraskip{\the\@tempdima\relax}%
13535   \endgroup
13536   \bidi@startparafootskip\footinsv@1
13537 }
13538 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13539 }
13540 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
13541   \if@RTL@footnote
13542     \footinsv@r
13543   \else
13544     \footinsv@l
13545   \fi
13546   {%
13547     \let\bidi@RTL@everypar\@empty%
13548     \def\baselinestretch{\m@m@footnote@spacing}%
13549     \reset@font\foottextfont
13550     \@preamfntext
13551     \protected@edef\@currentlabel{%
13552       \csname p@footnote\endcsname\@thefnmark}%
13553     \setbox0=\vbox{\hsize=\maxdimen
13554       \color@begingroup
13555       \noindent \@parafootfmt{#1}%
13556       \color@endgroup}%
13557     \m@mungebox\m@mmf@prepare}
13558 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
13559   \let\bidi@RTL@everypar\@empty%
13560   \def\baselinestretch{\m@m@footnote@spacing}%
13561   \reset@font\LTRfoottextfont
13562   \@preamfntext
13563   \protected@edef\@currentlabel{%
13564     \csname p@footnote\endcsname\@thefnmark}%
13565   \setbox0=\vbox{\hsize=\maxdimen

```



```

13566 \color@begingroup
13567 \noindent \@paraLTRfootfmt{#1}%
13568 \color@endgroup}%
13569 \m@mungebox}\m@mmf@prepare}
13570 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
13571 \let\bidi@RTL@everypar\@empty%
13572 \def\baselinestretch{\m@m@footnote@spacing}%
13573 \reset@font\RTLfoottextfont
13574 \@preamfntext
13575 \protected@edef\@currentlabel{%
13576 \csname p@footnote\endcsname\@thefnmark}%
13577 \setbox0=\vbox{\hsize=\maxdimen
13578 \color@begingroup
13579 \noindent \@paraRTLfootfmt{#1}%
13580 \color@endgroup}%
13581 \m@mungebox}\m@mmf@prepare}
13582 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
13583 \parindent=\z@
13584 \parfillskip=0pt \@plus 1fil
13585 {\footfootmark\strut {\foottextfont #1}\penalty-10}}
13586 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
13587 \parindent=\z@
13588 \parfillskip=0pt \@plus 1fil
13589 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
13590 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
13591 \parindent=\z@
13592 \parfillskip=0pt \@plus 1fil
13593 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
13594 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
13595 \global\setbox
13596 \if@RTL@footnote
13597 \@mpfootinsv@r
13598 \else
13599 \@mpfootinsv@l
13600 \fi
13601 \vbox{%
13602 \unvbox
13603 \if@RTL@footnote
13604 \@mpfootinsv@r
13605 \else
13606 \@mpfootinsv@l
13607 \fi
13608 \let\bidi@RTL@everypar\@empty
13609 \def\baselinestretch{\m@m@footnote@spacing}%
13610 \reset@font\foottextfont
13611 \hsize\columnwidth \@parboxrestore
13612 \protected@edef\@currentlabel{%
13613 \csname p@mpfootnote\endcsname\@thefnmark}%
13614 \setbox0=\vbox{\hsize=\maxdimen
13615 \color@begingroup
13616 \noindent \@parafootfmt{#1}%
13617 \color@endgroup}%
13618 \m@mungebox}\m@mmf@prepare}
13619 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%

```



```

13620 \global\setbox\@mpfootinsv@l\vbox{%
13621   \unvbox\@mpfootinsv@l
13622   \let\@bidi@RTL@everypar\@empty
13623   \def\baselinestretch{\m@m@footnote@spacing}%
13624   \reset@font\LTRfoottextfont
13625   \hsize\columnwidth \@parboxrestore
13626   \protected@edef\@currentlabel{%
13627     \csname p@mpfootnote\endcsname\@thefnmark}%
13628   \setbox0=\vbox{\hsize=\maxdimen
13629     \color@begingroup
13630     \noindent \@paraLTRfootfmt{#1}%
13631     \color@endgroup}%
13632   \m@mungebox}\m@m@mmf@prepare}
13633 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
13634   \global\setbox\@mpfootinsv@r\vbox{%
13635     \unvbox\@mpfootinsv@r
13636     \let\@bidi@RTL@everypar\@empty
13637     \def\baselinestretch{\m@m@footnote@spacing}%
13638     \reset@font\RTLfoottextfont
13639     \hsize\columnwidth \@parboxrestore
13640     \protected@edef\@currentlabel{%
13641       \csname p@mpfootnote\endcsname\@thefnmark}%
13642     \setbox0=\vbox{\hsize=\maxdimen
13643       \color@begingroup
13644       \noindent \@paraRTLfootfmt{#1}%
13645       \color@endgroup}%
13646     \m@mungebox}\m@m@mmf@prepare}
13647 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
13648   \@namedef{@para@footgroup#1}{%
13649     \unvbox\@nameuse{footins#1}
13650     \@RTLtrue
13651     \m@mmakehboxofhboxes
13652     \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13653     \hsize\@bidi@columnwidth
13654     \@parboxrestore
13655     \def\baselinestretch{\m@m@footnote@spacing}%
13656     \@nameuse{foottextfont#1}%
13657     \noindent\unhbox0\par}}
13658 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
13659   \@namedef{@para@LTRfootgroup#1}{%
13660     \unvbox\@nameuse{footins#1}
13661     \@RTLfalse
13662     \m@mmakehboxofhboxes
13663     \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13664     \hsize\@bidi@columnwidth
13665     \@parboxrestore
13666     \def\baselinestretch{\m@m@footnote@spacing}%
13667     \@nameuse{foottextfont#1}%
13668     \noindent\unhbox0\par}}
13669 \newcommand{\bidi@removexparafootskip}{%
13670   \advance\@tempskipa -\bidi@paraskip
13671   \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
13672 }
13673 \let\bidi@removexfootskip\relax

```



```

13674 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
13675 \@namedef{@mppara@footgroup#1}{%
13676 \unvbox\@nameuse{@mpfootins#1}
13677 \@RTLtrue
13678 \m@mmakehboxofhboxes
13679 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13680 \def\baselinestretch{\m@m@footnote@spacing}%
13681 \@nameuse{foottextfont#1}%
13682 \noindent\unhbox0\par}}
13683 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
13684 \@namedef{@mppara@LTRfootgroup#1}{%
13685 \unvbox\@nameuse{@mpfootins#1}
13686 \@RTLfalse
13687 \m@mmakehboxofhboxes
13688 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13689 \def\baselinestretch{\m@m@footnote@spacing}%
13690 \@nameuse{foottextfont#1}%
13691 \noindent\unhbox0\par}}
13692 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
13693 \@namedef{@para@footstart#1}{%
13694 \leftskip=\z@
13695 \rightskip=\z@
13696 \parindent=\z@
13697 }%
13698 }
13699 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
13700 \xdef\@freelist{\@freelist\@midlist}%
13701 \global\let\@midlist\@empty
13702 \@combinefloats}
13703 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
13704 \ifvbox\@kludgeins
13705 \@makespecialcolbox
13706 \else
13707 \setbox\@outputbox \vbox to\@colht{%
13708 \@texttop
13709 \dimen@ \dp\@outputbox
13710 \unvbox \@outputbox
13711 \vskip -\dimen@
13712 \@textbottom}%
13713 \fi}
13714 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
13715 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
13716 \boxmaxdepth\@maxdepth
13717 \@tempdima\dp\@cclv
13718 \unvbox\@cclv
13719 \vskip-\@tempdima
13720 \bidi@mopfn@bottom
13721 \vskip \skip\footins
13722 \color@begingroup
13723 \normalcolor
13724 \footnoterule
13725 \unvbox \footins
13726 \color@endgroup
13727 }%

```





```

13728 }
13729 \newcommand*{\bidi@mopfootnotebf}{%
13730   \setbox\@outputbox \vbox{%
13731     \boxmaxdepth\@maxdepth
13732     \unvbox\@outputbox
13733     \bidi@mopfn@bottom
13734     \vskip\skip\footins
13735     \color@begingroup
13736       \normalcolor
13737       \footnoterule
13738       \unvbox \footins
13739     \color@endgroup
13740   }%
13741 }
13742 \gdef\mem@makecol{%
13743   \m@m@makecolintro
13744   \m@m@doextrafeet
13745   \ifvoid\footins
13746     \setbox\@outputbox \box\@cclv
13747   \else
13748     \m@mopfootnote
13749   \fi
13750   \m@m@makecolfloats
13751   \m@m@makecoltext
13752   \global \maxdepth \@maxdepth}
13753 \gdef\bidi@makecolbf{%
13754   \m@m@makecolintro
13755   \m@m@doextrafeet
13756   \setbox\@outputbox \box\@cclv
13757   \m@m@makecolfloats
13758   \ifvoid\footins
13759   \else
13760     \bidi@mopfootnotebf
13761   \fi
13762   \m@m@makecoltext
13763   \global \maxdepth \@maxdepth}
13764 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
13765 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
13766 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
13767 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
13768 \FeetAboveFloat
13769 \FeetBelowRagged
13770 \def\bidi@reinserts#1{\ifvoid#1\else
13771   \ifnum\count\@currbox>\z@
13772     \advance\@pageht \ht#1%
13773     \advance\@pageht \skip#1%
13774     \advance\@pageht \dp#1%
13775   \fi
13776   \insert#1{\unvbox#1}%
13777 \fi
13778 }
13779 \def\bidi@init@multi@footins#1{%
13780   \multiply\count#1\col@number
13781   \multiply\skip#1\col@number

```



```

13782 }
13783 \def\bidireinsert@footnotes#1{\ifvoid#1\else
13784     \insert#1{}\fi}
13785 \AtBeginDocument{%
13786     \bidi@preto\@doclearpage\m@mdoextrafeet
13787     \g@addto@macro\@reinserts{%
13788         \bidi@reinserts\footinsv@r
13789         \bidi@reinserts\footinsv@l
13790     }
13791     \bidi@floathook
13792     \g@addto@macro\@floatplacement{%
13793         \bidi@ifmulticol{}\{\bidi@floathook}\}%
13794     }%
13795     \if@bidi@csundef{multi@column@out}{%
13796         \onlypreamble\bidi@init@multi@footins
13797         \let\bidi@ifmulticol\@secondoftwo
13798     }{%
13799         \bidi@preto\multi@column@out\m@mdoextrafeet
13800         \g@addto@macro\init@mult@footins{%
13801             \bidi@init@multi@footins\footinsv@r
13802             \bidi@init@multi@footins\footinsv@l
13803         }%
13804         \g@addto@macro\reinsert@footnotes{%
13805             \bidi@reinsert@footnotes\footinsv@r
13806             \bidi@reinsert@footnotes\footinsv@l
13807         }%
13808     }%
13809 }

```

## 87 File extreport-xetex-bidi.def

```

13810 \ProvidesFile{extreport-xetex-bidi.def}[2025/09/30 v0.4 bidi adaptations for extreport class]
13811 \renewcommand*\l@part[2]{%
13812     \ifnum \c@tocdepth >-2\relax
13813         \addpenalty{-\@highpenalty}%
13814         \addvspace{2.25em \@plus\p}%
13815         \begingroup
13816             \setlength\@tempdima{3em}%
13817             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13818             \parfillskip -\@pnumwidth
13819             {\leavevmode
13820                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
13821             \nobreak
13822             \global\@nobreaktrue
13823             \everypar{\global\@nobreakfalse\everypar{}}%
13824         \endgroup
13825     \fi}
13826 \renewcommand*\l@chapter[2]{%
13827     \ifnum \c@tocdepth >\m@ne
13828         \addpenalty{-\@highpenalty}%
13829         \vskip 1.0em \@plus\p@
13830         \setlength\@tempdima{1.5em}%
13831         \begingroup
13832         \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```



```

13833     \parfillskip -\@pnumwidth
13834     \leavevmode \bfseries
13835     \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
13836     \hskip -\if@RTL\righskip\else\leftskip\fi
13837     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
13838     \penalty\@highpenalty
13839   \endgroup
13840 \fi}
13841 \def\@makechapterhead#1{%
13842   \vspace*{50\p@}%
13843   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
13844     \ifnum \c@secnumdepth >\m@ne
13845       \huge\bfseries \@chapapp\space \thechapter
13846       \par\nobreak
13847       \vskip 20\p@
13848     \fi
13849     \interlinepenalty\@M
13850     \Huge \bfseries #1\par\nobreak
13851     \vskip 40\p@
13852   }}
13853 \def\@makeschapterhead#1{%
13854   \vspace*{50\p@}%
13855   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
13856     \normalfont
13857     \interlinepenalty\@M
13858     \Huge \bfseries #1\par\nobreak
13859     \vskip 40\p@
13860   }}
13861 \renewcommand\left@footnoterule{%
13862   \kern-3\p@
13863   \hrule\@width.4\columnwidth
13864   \kern2.6\p@}
13865 \renewcommand\right@footnoterule{%
13866   \kern-3\p@
13867   \nointerlineskip
13868   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13869   \kern2.6\p@}
13870 \renewenvironment{thebibliography}[1]
13871   {\chapter*{\bibname
13872     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
13873     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
13874     \bidi@thebibliography@font@hook%
13875     \list{\@biblabel{\@arabic\c@enumiv}}%
13876       {\settowidth\labelwidth{\@biblabel{#1}}%
13877         \leftmargin\labelwidth
13878         \advance\leftmargin\labelsep
13879         \@openbib@code
13880         \usecounter{enumiv}%
13881         \let\p@enumiv\@empty
13882         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
13883     \sloppy\clubpenalty4000\widowpenalty4000%
13884     \sfcode`\.\@m}
13885 {\def\@noitemerr
13886   {\@latex@warning{Empty `thebibliography' environment}}}%

```



```

13887     \endlist}
13888 \if@titlepage
13889 \renewcommand\maketitle{\begin{titlepage}%
13890 \let\footnotesize\small
13891 \let\right@footnoterule\relax
13892 \let\left@footnoterule\relax
13893 \let\textwidth@footnoterule\relax
13894 \let \footnote \thanks
13895 \null\vfil
13896 \vskip 60\p@
13897 \begin{center}%
13898   {\LARGE \@title \par}%
13899   \vskip 3em%
13900   {\large
13901     \lineskip .75em%
13902     \begin{tabular}[t]{c}%
13903       \@author
13904     \end{tabular}\par}%
13905     \vskip 1.5em%
13906     {\large \@date \par}%           % Set date in \large size.
13907 \end{center}\par
13908 \@thanks
13909 \vfil\null
13910 \end{titlepage}%
13911 \setcounter{footnote}{0}%
13912 \global\let\thanks\relax
13913 \global\let\maketitle\relax
13914 \global\let\@thanks\@empty
13915 \global\let\@author\@empty
13916 \global\let\@date\@empty
13917 \global\let\@title\@empty
13918 \global\let\title\relax
13919 \global\let\author\relax
13920 \global\let\date\relax
13921 \global\let\and\relax
13922 }
13923 \else
13924 \renewcommand\maketitle{\par
13925   \begingroup
13926     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
13927     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
13928     \long\def\@makefntext##1{\parindent 1em\noindent
13929       \hb@xt@1.8em{%
13930         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
13931     \if@twocolumn
13932       \ifnum \col@number=\@ne
13933         \@maketitle
13934       \else
13935         \twocolumn[\@maketitle]%
13936       \fi
13937     \else
13938       \newpage
13939       \global\@topnum\z@ % Prevents figures from going at top of page.
13940       \@maketitle

```



```

13941 \fi
13942 \thispagestyle{plain}\@thanks
13943 \endgroup
13944 \setcounter{footnote}{0}%
13945 \global\let\thanks\relax
13946 \global\let\maketitle\relax
13947 \global\let\@maketitle\relax
13948 \global\let\@thanks\@empty
13949 \global\let\@author\@empty
13950 \global\let\@date\@empty
13951 \global\let\@title\@empty
13952 \global\let\title\relax
13953 \global\let\author\relax
13954 \global\let\date\relax
13955 \global\let\and\relax
13956 }
13957 \def\@maketitle{%
13958 \newpage
13959 \null
13960 \vskip 2em%
13961 \begin{center}%
13962 \let \footnote \thanks
13963 {\LARGE \@title \par}%
13964 \vskip 1.5em%
13965 {\large
13966 \lineskip .5em%
13967 \begin{tabular}[t]{c}%
13968 \@author
13969 \end{tabular}\par}%
13970 \vskip 1em%
13971 {\large \@date}%
13972 \end{center}%
13973 \par
13974 \vskip 1.5em}
13975 \fi
13976 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
13977 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
13978 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
13979 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
13980 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
13981 \renewcommand\theequation{%
13982 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
13983 \renewcommand\thefigure{%
13984 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
13985 \renewcommand\thetable{%
13986 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

## 88 File fancybox-xetex-bidi.def

```

13987 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
13988 \def\fancy@oval#1#2#3{%
13989 \boxmaxdepth \maxdimen
13990 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
13991 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%

```



```

13992 \@ovxx#1\relax
13993 \advance\@ovxx-\@wholewidth
13994 \@ovyy#2\relax
13995 \advance\@ovyy-\@wholewidth
13996 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
13997 \advance\@tempdimb-2\p@
13998 \ifdim\@tempdimb>\the@cornersize\relax
13999 \@tempdimb=\the@cornersize
14000 \fi
14001 \getcirc\@tempdimb
14002 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
14003 \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
14004 \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
14005 \@circlefnt
14006 \setbox\@tempboxa\hbox{\beginL%
14007 \if@ovr \@ovvert32\kern -\@tempdima \fi
14008 \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
14009 \if@ovt \@ovhorz \kern -\@ovxx \fi
14010 \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
14011 \advance\@ovdx\@ovro
14012 \advance\@ovdy\@ovro
14013 \advance\@ovxx\@wholewidth
14014 \wd\@tempboxa=\@ovxx
14015 \dp\@tempboxa=\z@}

```

## 89 File fancyhdr-xetex-bidi.def

```

14016 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
14017
14018 \let\f@nch@everypar\everypar
14019
14020 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
14021 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
14022

```

## 90 File fix2col-xetex-bidi.def

```

14023 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
14024 \def\RTL@outputdblcol{%
14025 \if@firstcolumn
14026 \global\@firstcolumnfalse
14027 \global\setbox\@leftcolumn\copy\@outputbox
14028 \splitmaxdepth\maxdimen
14029 \vbadness\maxdimen
14030 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14031 \toks@\expandafter{\topmark}%
14032 \xdef\@firstcoltopmark{\the\toks@}%
14033 \toks@\expandafter{\splitfirstmark}%
14034 \xdef\@firstcolfirstmark{\the\toks@}%
14035 \ifx\@firstcolfirstmark\@empty
14036 \global\let\@setmarks\relax
14037 \else
14038 \gdef\@setmarks{%
14039 \let\firstmark\@firstcolfirstmark

```



```

14040         \let\topmark\@firstcoltopmark}%
14041     \fi
14042 \else \global\@firstcolumntrue
14043 \setbox\@outputbox \vbox {\hbox to\textwidth {%
14044 \hskip \columnwidth
14045 \hfil \vrule width\columnseprule \hfil
14046 \hbox to\columnwidth {%
14047 \bidi@firstcolumn@status@write%
14048 \box\@leftcolumn \hss}%
14049 \hskip -\textwidth
14050 \hbox to\columnwidth{%
14051 \bidi@lastcolumn@status@write%
14052 \box\@outputbox \hss}%
14053 \hskip \columnsep
14054 \hskip \columnwidth }}%
14055 \@combinedblfloats \@setmarks \@outputpage
14056 \begingroup \@dblfloatplacement \@startdblcolumn
14057 \@whilesw\if@fcolmade \fi
14058 {\@outputpage \@startdblcolumn }\endgroup
14059 \fi}
14060 \def\LTR@outputdblcol{%
14061     \if@firstcolumn
14062         \global\@firstcolumnfalse
14063         \global\setbox\@leftcolumn\copy\@outputbox
14064         \splitmaxdepth\maxdimen
14065         \vbadness\maxdimen
14066         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14067         \toks@\expandafter{\topmark}%
14068         \xdef\@firstcoltopmark{\the\toks@}%
14069         \toks@\expandafter{\splitfirstmark}%
14070         \xdef\@firstcolfirstmark{\the\toks@}%
14071         \ifx\@firstcolfirstmark\@empty
14072             \global\let\@setmarks\relax
14073         \else
14074             \gdef\@setmarks{%
14075                 \let\firstmark\@firstcolfirstmark
14076                 \let\topmark\@firstcoltopmark}%
14077         \fi
14078     \else
14079         \global\@firstcolumntrue
14080         \setbox\@outputbox\vbox{%
14081             \hb@xt@\textwidth{%
14082                 \hb@xt@\columnwidth{%
14083                     \bidi@firstcolumn@status@write%
14084                     \box\@leftcolumn \hss}%
14085                 \hfil
14086                 \vrule \@width\columnseprule
14087                 \hfil
14088                 \hb@xt@\columnwidth{%
14089                     \bidi@lastcolumn@status@write%
14090                     \box\@outputbox \hss}}}%
14091     \@combinedblfloats
14092     \@setmarks
14093     \@outputpage

```



```

14094 \begingroup
14095 \@dblfloatplacement
14096 \@startdblcolumn
14097 \@whiles\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
14098 \endgroup
14099 \fi}

```

## 91 File fleqn-xetex-bidi.def

```

14100 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]
14101 \DeclareRobustCommand\{\relax
14102 \ifmmode\@badmath
14103 \else
14104 \begin{trivlist}%
14105 \@beginparpenalty\predisplaypenalty
14106 \@endparpenalty\postdisplaypenalty
14107 \item[]\leavevmode
14108 \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
14109 \hskip\mathindent\bgroup
14110 \fi}
14111 \DeclareRobustCommand\}{\relax
14112 \ifmmode
14113 \egroup $\hfil$ $
14114 \endL\egroup
14115 \end{trivlist}%
14116 \else \@badmath
14117 \fi}
14118 \renewenvironment{equation}%
14119 {\@beginparpenalty\predisplaypenalty
14120 \@endparpenalty\postdisplaypenalty
14121 \refstepcounter{equation}%
14122 \trivlist \item[]\leavevmode
14123 \hb@xt@\linewidth\bgroup\beginL $\m@th$ $
14124 \displaystyle
14125 \hskip\mathindent}%
14126 {$\hfil$ $
14127 \displaywidth\linewidth\hbox{\@eqnnum}%
14128 \endL\egroup
14129 \endtrivlist}

```

## 92 File float-xetex-bidi.def

```

14130 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for XeTeX]
14131 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
14132 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
14133 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
14134 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]}%
14135 \expandafter\edef\csname the#1\endcsname{%
14136 \expandafter\noexpand\csname
14137 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
14138 {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

## 93 File floatrow-xetex-bidi.def





```

14139 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package]
14140 \RequirePackage{color}
14141 \renewcommand\flnew@within[1]{\@addtoreset{\FB@capttype}{#1}%
14142   \expandafter\edef\csname the\FB@capttype\endcsname{%
14143     \expandafter\noexpand\csname
14144       the#1\endcsname\@SepMark\noexpand\arabic{\FB@capttype}}}}

```

## 94 File flowfram-xetex-bidi.def

```

14145 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package]
14146 \def\@outputdblcol{%
14147   \@nxtcol=\c@thisframe
14148   \c@curpg=\c@page
14149   \@g@tnextcol{\@nxtcol}%
14150   \if@ff@nwpg % next flow frame starts on new page
14151     \global\@firstcolumntrue
14152     \@setcolbox\c@thisframe
14153     \if@specialpage
14154       \global\@specialpagefalse
14155       \@nameuse{ps@\@specialstyle}\relax
14156     \fi
14157     \if@twoside
14158       \ifodd\count\z@
14159         \let\@thehead\@oddhead
14160         \let\@thefoot\@oddfoot
14161       \else
14162         \let\@thehead\@evenhead
14163         \let\@thefoot\@evenfoot
14164       \fi
14165     \else
14166       \let\@thehead\@oddhead
14167       \let\@thefoot\@oddfoot
14168     \fi
14169     \@beginndvi
14170     \@dodynamicthehead\@dodynamicthefoot
14171     \vbadness=\@M
14172     \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14173     \@combinedblfloats
14174     \@outputpage
14175     \advance\c@curpg by -\c@page\relax
14176     \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
14177       \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14178     \@outputpage}
14179     \beginngroup
14180       \@dblfloatplacement
14181       \@startdblcolumn
14182       \@whilesw \if@fcolmade \fi
14183         {\@outputpage \@startdblcolumn }\endgroup
14184     \@resetst@tics
14185     \@resetdyn@mics
14186   \else % still on same page, save contents of box255
14187     \global\@firstcolumnfalse
14188     \@setcolbox\c@thisframe
14189   \fi

```



```

14190 \global\c@thisframe=\@nxtcol
14191 \@setcol{\c@thisframe}\relax
14192 \global\@colht\vsizel
14193 }
14194 \def\@outputpage{%
14195 \begingroup
14196 \let\protect\noexpand
14197 \@resetactivechars
14198 \global\let\@ifnewlist@ifnewlist
14199 \global\@newlistfalse\@parboxrestore
14200 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
14201 \bidi@beforeoutputpageshipouthook
14202 \shipout\vbox{\set@typeset@protect
14203 \aftergroup
14204 \endgroup
14205 \aftergroup
14206 \set@typeset@protect
14207 \reset@font\normalsize
14208 \bidi@font\@outputpage
14209 \normalsfcodes
14210 \let\label\@gobble
14211 \let\index\@gobble
14212 \let\glossary\@gobble
14213 \baselineskip\z@skip
14214 \lineskip\z@skip
14215 \lineskiplimit\z@
14216 \vskip\topmargin\moveright\@themargin
14217 \vbox{%
14218 \global\let\@bidi@BeforeHeader\@firstofone
14219 \bidi@beforeheaderhook
14220 \vskip\headheight
14221 \vskip\headsep
14222 \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
14223 \bidi@beforeoutputboxoutputpagehook
14224 \box\@outputbox
14225 \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
14226 \bidi@afteroutputboxoutputpagehook
14227 }}%
14228 \global\let\@bidi@AfterOutputPageShipOut\@firstofone
14229 \bidi@afteroutputpageshipouthook
14230 \global\let\ifnewlist\@ifnewlist
14231 \stepcounter{page}%
14232 \setcounter{displayedframe}{0}%
14233 \let\firstmark\botmark
14234 \global\let\@bidi@AtEndOutputPage\@firstofone
14235 \bidi@atendoutputpagehook
14236 }
14237
14238
14239 \newcommand*\bidi@s@tffftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}%
14240 \expandafter\bidi@color\ff@txtcol}}
14241
14242 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
14243 {\hb@xt@ #1{\hss{\bidi@s@tffftextcol #3}\hss}\vss\kern\z@}}}}

```



```

14244
14245
14246 \renewcommand*{\@docolbox}[1]{%
14247 \edef\ff@frametype{%
14248 \csname @ff@frametype@romannumeral#1\endcsname}%
14249 \edef\ff@col{\csname @ff@col@romannumeral#1\endcsname}%
14250 \edef\ff@txtcol{\csname @ff@txtcol@romannumeral#1\endcsname}%
14251 \edef\ff@backcol{\csname @ff@backcol@romannumeral#1\endcsname}%
14252 \@ff@setoffset{#1}%
14253 \rotateframe{\csname @ff@angle@romannumeral#1\endcsname}{%
14254 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
14255 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
14256 {\csname colheight\romannumeral#1\endcsname}{%
14257 \expandafter\box\csname column\romannumeral#1\endcsname}{%
14258 \csname\ff@frametype\endcsname}%
14259 }{%
14260 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
14261 {\csname colheight\romannumeral#1\endcsname}{%
14262 \expandafter\box\csname column\romannumeral#1\endcsname}%
14263 }}}
14264 \IfClassLoadedT{book}{%
14265 \renewcommand\theequation
14266 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14267 \renewcommand \thefigure
14268 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14269 \renewcommand \thetable
14270 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14271 \renewcommand \thechapter {\@arabic\c@chapter}
14272 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14273 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14274 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
14275 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
14276 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
14277 \IfClassLoadedT{report}{%
14278 \renewcommand\theequation
14279 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14280 \renewcommand \thefigure
14281 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14282 \renewcommand \thetable
14283 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14284 \renewcommand \thechapter {\@arabic\c@chapter}
14285 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14286 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14287 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
14288 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
14289 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
14290 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
14291 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
14292 \else
14293 #2\relax
14294 \fi}

```

## 95 File fnpct-xetex-bidi.def



```

14295 \ProvidesFile{fnpct-xetex-bidi.def}[2025/09/12 v0.2 bidi adaptations for fnpct package for X
14296 \ExplSyntaxOn
14297   \@ifclassloaded{beamer}
14298   {
14299     \AdaptNote \footnote{d<>o+m} [\beamer@mpfn]
14300     {
14301       \IfNoValueTF{#1}
14302       { \IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[2]{#3}}}
14303       { \IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[2]{#3}}}
14304     }
14305     \AdaptNote \RTLfootnote{d<>o+m} [\beamer@mpfn]
14306     {
14307       \IfNoValueTF{#1}
14308       { \IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[2]{#3}}}
14309       { \IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[2]{#3}}}
14310     }
14311     \AdaptNote \LTRfootnote{d<>o+m} [\beamer@mpfn]
14312     {
14313       \IfNoValueTF{#1}
14314       { \IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[2]{#3}}}
14315       { \IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[2]{#3}}}
14316     }
14317   }
14318   {
14319     \AdaptNote \RTLfootnote {o+m} [\@mpfn]
14320     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[1]{#2}} }
14321     \AdaptNote \LTRfootnote {o+m} [\@mpfn]
14322     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[1]{#2}} }
14323   }
14324 \ExplSyntaxOff

```

## 96 File footnote-xetex-bidi.def

```

14325 \ProvidesFile{footnote-xetex-bidi.def}[2025/09/30 v1.6 bidi footnote macros for XeTeX engine
14326 \if@RTLMain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
14327 \newif\ifbidi@autofooterule
14328 \def\bidi@mpfootnoterule{\footnoterule}
14329 \newcounter{footdir@label}
14330 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
14331 \newcommand*{\footdir@write}{%
14332   \stepcounter{footdir@label}%
14333   \zref@labelbyprops{\thefootdir@label}{abspage}%
14334 }
14335 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
14336 \newtoks\footdir@toks
14337 \newcommand*{\footdir@debug}[1]{%
14338   \iffootdir@debug
14339     \typeout{[footdir] #1}%
14340   \fi
14341 }
14342 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
14343 %  \newcommand*{\footdir@LeftRightElse}{%
14344 %    \ltx@ifundefined{footdir@the\value{zabspage}}{%
14345 %      \footdir@debug{abspage \the\value{zabspage}: else}%

```



```

14346%      \ltx@thirdofthree
14347%    }{%
14348%      \if\csname footdir@\the\value{zabspage}\endcsname L%
14349%        \footdir@debug{abspage \the\value{zabspage}: left}%
14350%        \expandafter\ltx@firstofthree
14351%      \else
14352%        \footdir@debug{abspage \the\value{zabspage}: right}%
14353%        \expandafter\ltx@secondofthree
14354%      \fi
14355%    }%
14356%  }%
14357%}%
14358% \providecommand*{\c@zabspage}{\c@abspage}%
14359% \newcommand*{\footdir@LeftRightElse}{%
14360%   \footdir@write
14361%   \zifrefundefined{\thefootdir@label}{%
14362%     \footdir@debug{abspage ??: else}%
14363%     \ltx@thirdofthree
14364%   }{%
14365%     \edef\footdir@abspage{%
14366%       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
14367%     }%
14368%     \ltx@ifundefined{footdir@\footdir@abspage}{%
14369%       \footdir@debug{\footdir@abspage: else}%
14370%       \ltx@thirdofthree
14371%     }{%
14372%       \if\csname footdir@\footdir@abspage\endcsname L%
14373%         \footdir@debug{\footdir@abspage: left}%
14374%         \expandafter\ltx@firstofthree
14375%       \else
14376%         \footdir@debug{\footdir@abspage: right}%
14377%         \expandafter\ltx@secondofthree
14378%       \fi
14379%     }%
14380%   }%
14381% }%
14382%}
14383% \newcommand*{\footdir@fntext}[1]{%
14384%   \zifrefundefined{\thefootdir@label}{%
14385%     }{%
14386%       \edef\footdir@name{%
14387%         footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
14388%       }%
14389%       \@ifundefined{\footdir@name}{%
14390%         \expandafter\gdef\csname\footdir@name\endcsname{#1}%
14391%       }{%
14392%       }%
14393%     }
14394%
14395% \newcommand*{\footdir@temp}[3]{%
14396%   \@ifdefinable{#1}{%
14397%     \let#1#2%
14398%     \renewcommand{#2}[1]{%
14399%       \footdir@write

```



```

14400 \footdir@fntext{#3}%
14401 \stepcounter{footdir@label}%
14402 \footdir@fntext{#3}%
14403 \footdir@toks{##1}%
14404 \footdir@toks\expandafter{%
14405 \the\expandafter\footdir@toks
14406 \expandafter
14407 \zref@labelbyprops\expandafter{\the\footdir@label}{abspage}%
14408 }%
14409 \expandafter#1\expandafter{\the\footdir@toks}%
14410 }%
14411 }%
14412 }
14413
14414 \def\right@footnoterule{%
14415 \kern-3\p@
14416 \nointerlineskip
14417 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14418 \kern2.6\p@}
14419 \def\left@footnoterule{\kern-3\p@
14420 \hrule \@width .4\columnwidth \kern 2.6\p@}
14421 \def\textwidth@footnoterule{\kern-3\p@
14422 \hrule \@width \columnwidth \kern 2.6\p@}
14423 \def\leftfootnoterule{%
14424 \bidi@autofootnoterulefalse
14425 \def\footnoterule{\left@footnoterule}}
14426 \let\LRfootnoterule=\leftfootnoterule
14427 \def\rightfootnoterule{%
14428 \bidi@autofootnoterulefalse
14429 \def\footnoterule{\right@footnoterule}}
14430 \def\textwidthfootnoterule{%
14431 \bidi@autofootnoterulefalse
14432 \def\footnoterule{\textwidth@footnoterule}}
14433
14434
14435
14436 \def\auto@footnoterule{%
14437 \footdir@LeftRightElse%
14438 \left@footnoterule%
14439 \right@footnoterule%
14440 \left@footnoterule%
14441 }
14442
14443
14444
14445 \def\autofootnoterule{%
14446 \bidi@autofootnoteruletrue%
14447 \def\footnoterule{\auto@footnoterule}%
14448 }
14449
14450 \newcommand*\SplitFootnoteRule{%
14451 \gdef\split@prev{0}
14452 \let\pagefootnoterule\footnoterule
14453 \let\mpfootnoterule\footnoterule

```



```

14454 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
14455 \def\footnoterule{\relax
14456   \ifx \@listdepth\@mplistdepth
14457     \mpfootnoterule
14458   \else
14459     \ifnum\split@prev=\z@
14460       \pagefootnoterule
14461     \else
14462       \splitfootnoterule
14463     \fi
14464   \xdef\split@prev{\the\insertpenalties}%
14465 \fi
14466 }%
14467 }
14468
14469
14470
14471
14472 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
14473   \protected@xdef\@thefnmark{\thempfn}%
14474   \@footnotemark\@RTLfootnotetext}}
14475 \def\@xRTLfootnote[#1]{%
14476   \begingroup
14477     \csname c@\@mpfn\endcsname #1\relax
14478     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14479   \endgroup
14480   \@footnotemark\@RTLfootnotetext}
14481 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
14482   \protected@xdef\@thefnmark{\thempfn}%
14483   \@footnotemark\@LTRfootnotetext}}
14484 \def\@xLTRfootnote[#1]{%
14485   \begingroup
14486     \csname c@\@mpfn\endcsname #1\relax
14487     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14488   \endgroup
14489   \@footnotemark\@LTRfootnotetext}
14490
14491
14492 \def\setfootnoteRL{\@RTL@footnotetrue}
14493 \def\unsetfootnoteRL{\@RTL@footnotefalse}
14494 \def\setfootnoteLR{\unsetfootnoteRL}
14495
14496 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
14497 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
14498 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
14499
14500 \long\def\@footnotetext#1{\insert\footins{%
14501   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14502   \reset@font%
14503   \bidi@footnotetext@font% \reset@font\footnotesize
14504   \interlinepenalty\interfootnotelinepenalty
14505   \splittopskip\footnotesep
14506   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14507   \hsize\columnwidth \@parboxrestore

```



```

14508 \protected@edef\@currentlabel{%
14509 \csname p@footnote\endcsname\@thefnmark
14510 }%
14511 \color@begingroup
14512 \makefnmark
14513 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14514 \color@endgroup}}%
14515
14516
14517 \long\def\@RTLfootnotetext#1{\insert\footins{%
14518 \RTLtrue%
14519 \reset@font%
14520 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14521 \interlinepenalty\interfootnotelinepenalty
14522 \splittopskip\footnotesep
14523 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14524 \hsize\columnwidth \@parboxrestore
14525 \protected@edef\@currentlabel{%
14526 \csname p@footnote\endcsname\@thefnmark
14527 }%
14528 \color@begingroup
14529 \makefnmark
14530 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14531 \color@endgroup}}%
14532
14533 \long\def\@LTRfootnotetext#1{\insert\footins{%
14534 \RTLfalse%
14535 \reset@font%
14536 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14537 \interlinepenalty\interfootnotelinepenalty
14538 \splittopskip\footnotesep
14539 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14540 \hsize\columnwidth \@parboxrestore
14541 \protected@edef\@currentlabel{%
14542 \csname p@footnote\endcsname\@thefnmark
14543 }%
14544 \color@begingroup
14545 \makefnmark
14546 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14547 \color@endgroup}}%
14548
14549 \AtBeginDocument{%
14550 \if@RTL@footnote
14551 \newcommand*{\bidi@footdir@footnote}{R}
14552 \else
14553 \newcommand*{\bidi@footdir@footnote}{L}
14554 \fi%
14555 }
14556
14557 \footdir@temp\footdir@ORG\bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
14558 \footdir@temp\footdir@ORG\bidi@RTLfootnotetext\@RTLfootnotetext{R}%
14559 \footdir@temp\footdir@ORG\bidi@LTRfootnotetext\@LTRfootnotetext{L}%
14560
14561 \long\def\@mpRTLfootnotetext#1{%

```





```

14562 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@foot
14563 \global\setbox\@mpfootins\vbox{%
14564   \unvbox\@mpfootins
14565   \@RTLtrue
14566   \reset@font%
14567   \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14568   \hsize\columnwidth
14569   \@parboxrestore
14570   \protected@edef\@currentlabel
14571     {\csname p@mpfootnote\endcsname\@thefnmark}%
14572   \color@begingroup
14573     \makefntext{%
14574       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14575   \color@endgroup}}
14576 \long\def\@mpLTRfootnotetext#1{%
14577 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footno
14578 \global\setbox\@mpfootins\vbox{%
14579   \unvbox\@mpfootins
14580   \@RTLfalse
14581   \reset@font%
14582   \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14583   \hsize\columnwidth
14584   \@parboxrestore
14585   \protected@edef\@currentlabel
14586     {\csname p@mpfootnote\endcsname\@thefnmark}%
14587   \color@begingroup
14588     \makefntext{%
14589       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14590   \color@endgroup}}
14591 \long\def\@mpfootnotetext#1{%
14592 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnote
14593 \global\setbox\@mpfootins\vbox{%
14594   \unvbox\@mpfootins
14595   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14596   \reset@font%
14597   \bidi@footnotetext@font% \reset@font\footnotesize
14598   \hsize\columnwidth
14599   \@parboxrestore
14600   \protected@edef\@currentlabel
14601     {\csname p@mpfootnote\endcsname\@thefnmark}%
14602   \color@begingroup
14603     \makefntext{%
14604       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14605   \color@endgroup}}
14606 \def\@iiiminipage#1#2[#3]#4{%
14607   \leavevmode
14608   \@pboxswfalse
14609   \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
14610   \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
14611   \setlength\@tempdima{#4}%
14612   \def\@mpargs{{#1}{#2}[#3]{#4}}%
14613   \setbox\@tempboxa\vbox\bgroup
14614     \color@begingroup
14615       \hsize\@tempdima

```



```

14616      \textwidth\hsize \columnwidth\hsize
14617      \@parboxrestore
14618      \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
14619      \let\@footnotetext\@mpfootnotetext
14620      \let\@LTRfootnotetext\@mpLTRfootnotetext
14621      \let\@RTLfootnotetext\@mpRTLfootnotetext
14622      \let\@listdepth\@mplistdepth \@mplistdepth\z@
14623      \@minipagerestore
14624      \@setminipage}
14625 \def\endminipage{%
14626   \par
14627   \unskip
14628   \ifvoid\@mpfootins\else
14629     \vskip\skip\@mpfootins
14630     \normalcolor
14631     \bidi@mpfootnoterule
14632     \unvbox\@mpfootins
14633   \fi
14634   \@minipagefalse   %% added 24 May 89
14635   \color@endgroup
14636   \egroup
14637   \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
14638 \def\LTRthanks#1{\footnotemark
14639   \protected@xdef\@thanks{\@thanks
14640     \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
14641 }
14642 \def\LTRfootnotetext{%
14643   \@ifnextchar [\@xLTRfootnotenext
14644     {\protected@xdef\@thefnmark{\thempfn}%
14645     \@LTRfootnotetext}}
14646 \def\@xLTRfootnotenext[#1]{%
14647   \begingroup
14648     \csname c@\@mpfn\endcsname #1\relax
14649     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14650   \endgroup
14651   \@LTRfootnotetext}
14652 \def\RTLthanks#1{\footnotemark
14653   \protected@xdef\@thanks{\@thanks
14654     \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
14655 }
14656 \let\@thanks\@empty
14657 \def\RTLfootnotetext{%
14658   \@ifnextchar [\@xRTLfootnotenext
14659     {\protected@xdef\@thefnmark{\thempfn}%
14660     \@RTLfootnotetext}}
14661 \def\@xRTLfootnotenext[#1]{%
14662   \begingroup
14663     \csname c@\@mpfn\endcsname #1\relax
14664     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14665   \endgroup
14666   \@RTLfootnotetext}
14667 \leftfootnoterule

```



## 97 File footnotebackref-xetex-bidi.def

```

14668 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
14669 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
14670 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
14671
14672 \renewcommand*\LTRfootnote{%
14673   \refstepcounter{BackrefHyperFootnoteCounter}%
14674   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14675   \label{\BackrefFootnoteTag}%
14676   \@ifnextchar[\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
14677
14678 \renewcommand*\RTLfootnote{%
14679   \refstepcounter{BackrefHyperFootnoteCounter}%
14680   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14681   \label{\BackrefFootnoteTag}%
14682   \@ifnextchar[\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
14683 \newcommand\Backref@HyperLTRFootnote[1]{%
14684   \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
14685
14686 \newcommand\Backref@HyperRTLFootnote[1]{%
14687   \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
14688
14689 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
14690   \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
14691
14692 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
14693   \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
14694
14695 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
14696 \ifFootnoteBackref@numberlinked
14697 \renewcommand{\footfootmark}{%
14698   \ifdim\footmarkwidth < \z@
14699     \llap{\hb@xt@ -\footmarkwidth{%
14700       \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14701       \hspace*{ -\footmarkwidth}}}%
14702   \else
14703     \ifdim\footmarkwidth = \z@
14704       {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14705     \else
14706       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14707     \fi
14708   \fi}
14709 \renewcommand{\LTRfootfootmark}{%
14710   \ifdim\footmarkwidth < \z@
14711     \llap{\hb@xt@ -\footmarkwidth{%
14712       \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14713       \hspace*{ -\footmarkwidth}}}%
14714   \else
14715     \ifdim\footmarkwidth = \z@
14716       {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14717     \else
14718       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14719     \fi

```



```

14720 \fi}
14721 \renewcommand{\RTLfootfootmark}{%
14722 \ifdim\footmarkwidth < \z@
14723 \llap{\hb@xt@ -\footmarkwidth{%
14724 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14725 \hspace*{-\footmarkwidth}}}%
14726 \else
14727 \ifdim\footmarkwidth = \z@
14728 {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14729 \else
14730 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14731 \fi
14732 \fi}
14733 \fi
14734 }

```

## 98 File framed-xetex-bidi.def

```

14735 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for xetex]
14736 \renewcommand\TitleBarFrame[3][\begingroup
14737 \ifx\delimiter#1\delimiter
14738 \let\TF@conlab\@empty
14739 \else
14740 \def\TF@conlab{% continuation label
14741 \nointerlineskip
14742 \smash{\rlap{\kern\wd\@tempboxa\kern\fboxrule\kern\fboxsep #1}}}%
14743 \fi
14744 %\let\TF@savecolor\current@color
14745 \textcolor{TFFrameColor}{%
14746 \CustomFBox
14747 {\TF@Title{#2}}{\TF@conlab}%
14748 \fboxrule\fboxrule\fboxrule\fboxrule
14749 %{\let\current@color\TF@savecolor\set@color #3}%
14750 {\normalcolor #3}%
14751 }\endgroup
14752 }
14753 \renewenvironment{titled-frame}[1]{%
14754 \def\FrameCommand{\fboxsep8pt\fboxrule2pt
14755 \TitleBarFrame{\textbf{#1}}}%
14756 \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
14757 \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1}}}%
14758 \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
14759 \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1}\ (cont)}}%
14760 \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
14761 \TitleBarFrame{\textbf{#1}\ (cont)}}}%
14762 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
14763 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
14764 % could interfere with the width measurement.
14765 {\endMakeFramed}
14766 \chardef\FrameRestore=\catcode`\| % for debug
14767 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
14768 \def\fb@put@frame#1#2{\relax
14769 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
14770 | \message{===== Entering putframe =====}~J

```



```

14771 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal. }%
14772 | \ifinner
14773 | \fb@putboxa#1%
14774 | \fb@afterframe
14775 | \else
14776 | \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
14777 | \ifdim\dimen@<2\baselineskip % Too little room on page
14778 | \message{Page has only \the\dimen@\space room left; eject. }%
14779 | \eject \fb@adjheight \fb@put@frame#1#2%
14780 | \else % there's appreciable room left on the page
14781 | \fb@sizeofframe#1%
14782 | \message{\string\pagetotal=\the\pagetotal,
14783 | \string\pagegoal=\the\pagegoal,
14784 | \string\pagestretch=\the\pagestretch,
14785 | \string\pageshrink=\the\pageshrink,
14786 | \string\fb@frh=\the\fb@frh. \space}
14787 | \message{^^JBox of size \the\ht\@tempboxa\space}%
14788 | \begingroup % temporarily set \dimen@ to be...
14789 | \advance\dimen@.8\pageshrink % maximum space available on page
14790 | \advance\dimen@-\fb@frh\relax % max space available for frame's contents
14791 |%%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
14792 | \expandafter\endgroup
14793 | % expand \ifdim, then restore \dimen@ to real room left on page
14794 | \ifdim\dimen@>\ht\@tempboxa % whole box does fit
14795 | \message{fits in \the\dimen@. }%
14796 | % ToDo: Change this to use vsplit anyway to capture the marks
14797 | % MERGE THIS WITH THE else CLAUSE!!!
14798 | \fb@putboxa#1%
14799 | \fb@afterframe
14800 | \else % box must be split
14801 | \message{must be split to fit in \the\dimen@. }%
14802 | % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
14803 | \fb@sizeofframe#2%
14804 | \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
14805 | \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
14806 | \kern137sp\kern-137sp\penalty-30
14807 | \unvbox\@tempboxa}%
14808 | \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
14809 | \splittopskip\the\splittopskip}%
14810 | \boxmaxdepth\z@ \splittopskip\z@
14811 | \message{^^JPadded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
14812 | % Split box here
14813 | \setbox\tw@\vsplit\@tempboxa to\dimen@
14814 | \toks99\expandafter{\splitfirstmark}%
14815 | \toks98\expandafter{\splitbotmark}%
14816 | \message{Marks are: \the\toks99, \the\toks98. }%
14817 | \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
14818 | \message{Natural height of split box is \the\ht\tw@, leaving
14819 | \the\ht\@tempboxa\space remainder. }%
14820 | % If the split-to size > (\vsize-\topskip), then set box to full size.
14821 | \begingroup
14822 | \advance\dimen@\topskip
14823 | \expandafter\endgroup
14824 | \ifdim\dimen@>\pagegoal

```



```

14825 |      \message{Frame is big -- Use up the full column. }%
14826 |      \dimen@ii\pagegoal
14827 |      \advance\dimen@ii -\topskip
14828 |      \advance\dimen@ii \FrameHeightAdjust\relax
14829 |    \else % suspect this is implemented incorrectly:
14830 |      % If the split-to size > feasible room_on_page, rebox it smaller.
14831 |      \advance\dimen@.8\pageshrink
14832 |      \ifdim\ht\tw@>\dimen@
14833 |        \message{Box too tall; rebox it to \the\dimen@. }%
14834 |        \dimen@ii\dimen@
14835 |      \else % use natural size
14836 |        \dimen@ii\ht\tw@
14837 |      \fi
14838 |    \fi
14839 |    % Re-box contents to desired size \dimen@ii
14840 |    \advance\dimen@ii -\fb@frh
14841 |    \setbox\tw@\vbox to\dimen@ii \bgroup
14842 |    % remove simulated frame and page flexibility:
14843 |    \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
14844 |    \unvbox\tw@ \unpenalty\unpenalty
14845 |    \ifdim\lastkern=-137sp % whole box went to next page
14846 |      \message{box split at beginning! }%
14847 |      % need work here???
14848 |      \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
14849 |      \fb@adjheight
14850 |      \fb@put@frame#1#2% INSERTED ???
14851 |    \else % Got material split off at the head
14852 |      \egroup \fb@resto@set
14853 |      \ifvoid\@tempboxa % it all fit after all
14854 |        \message{box split at end! }%
14855 |        \setbox\@tempboxa\box\tw@
14856 |        \fb@putboxa#1%
14857 |        \fb@afterframe
14858 |      \else % it really did split
14859 |        \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
14860 |        \ifdim\wd\tw@>\z@
14861 |          \wd\tw@\wd\@tempboxa
14862 |          \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
14863 |        \else
14864 |          \message{Zero width means likely blank. Don't frame it (guess)}%
14865 |          \box\tw@
14866 |        \fi
14867 |        \hrule \@height\z@ \@width\hsize
14868 |        \eject
14869 |        \fb@adjheight
14870 |        \fb@put@frame\LastFrameCommand\MidFrameCommand
14871 |      \fi\fi\fi\fi\fi
14872 |    }
14873 |    \def\fb@putboxa#1{%
14874 |      \ifvoid\@tempboxa
14875 |        \PackageWarning{framed}{Boxa is void -- discard it. }%
14876 |      \else
14877 |        \message{Frame and place boxa. }%
14878 |        %{\showoutput\showbox\@tempboxa}%

```



```

14879 \centerline{#1{\hboxL{\box\@tempboxa}}}%
14880 \fi
14881 }
14882 \catcode\|= \FrameRestore
14883 \def\FrameRestore{%
14884 \let\if@nobreak\iffalse
14885 \let\if@noskipsec\iffalse
14886 \let\-\@dischph
14887 \let'\@acci\let'\@accii\let\=\@acciii
14888 % \message{FrameRestore:
14889 % \totalleftmargin=\the \totalleftmargin,
14890 % \rightmargin=\the\rightmargin,
14891 % \listdepth=\the\listdepth. }%
14892 % Test if we are in a list (or list-like paragraph)
14893 \ifnum \ifdim\totalleftmargin>\z@ 1\fi
14894 \ifdim\rightmargin>\z@ 1\fi
14895 \ifnum\listdepth>\z@ 1\fi 0>\z@
14896 % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleftmargin,
14897 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
14898 % \labelwidth=\the\labelwidth. }%
14899 \@setminipage % snug fit around the item
14900 % Now try to propagate changes of width from \hsize to list parameters.
14901 % This is deficient, but a more advanced way to indicate modification to text
14902 % dimensions is not (yet) provided; in particular, no separate left/right
14903 % adjustment.
14904 \advance\linewidth-\columnwidth \advance\linewidth\hsize
14905 \parshape\@ne \totalleftmargin \linewidth
14906 \else % Not in list
14907 \linewidth=\hsize
14908 %\message{No list, set \string\linewidth=\the\hsize. }%
14909 \fi
14910 \sloppy
14911 }

```

## 99 File ftnright-xetex-bidi.def

```

14912 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
14913
14914 \def\prepare@bidi@copyins{%
14915 \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
14916 \global\skip\@bidi@copyins@\z@
14917 \global\count\@bidi@copyins@\z@
14918 \global\dimen\@bidi@copyins@\texttheight}
14919
14920 \newskip\bidi@rcol@copyinsskip
14921
14922 \def\LTR@outputdblcol{%
14923 \if@firstcolumn
14924 \global\@firstcolumnfalse
14925 \global\setbox\@leftcolumn\copy\@outputbox
14926 \global\count\footins\@m
14927 \global\skip\footins\rcol@footinsskip
14928 \global\count\@bidi@copyins@\@m
14929 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip

```



```

14930 \splitmaxdepth\maxdimen
14931 \vbadness\maxdimen
14932 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14933 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14934 \toks@\expandafter{\topmark}%
14935 \xdef\@firstcoltopmark{\the\toks@}%
14936 \toks@\expandafter{\splitfirstmark}%
14937 \xdef\@firstcolfirstmark{\the\toks@}%
14938 \ifx\@firstcolfirstmark\@empty
14939 \global\let\@setmarks\relax
14940 \else
14941 \gdef\@setmarks{%
14942 \let\firstmark\@firstcolfirstmark
14943 \let\topmark\@firstcoltopmark}%
14944 \fi
14945 \else
14946 \preparefootins
14947 \prepare@bidi@copyins
14948 \global\@firstcolumntrue
14949 \setbox\@outputbox\vbox{%
14950 \hb@xt@\textwidth{%
14951 \hb@xt@\columnwidth{%
14952 \bidi@firstcolumn@status@write%
14953 \box\@leftcolumn \hss}%
14954 \hfil
14955 {\normalcolor\vrule \@width\columnseprule}%
14956 \hfil
14957 \hb@xt@\columnwidth{%
14958 \bidi@lastcolumn@status@write%
14959 \box\@outputbox \hss}}}%
14960 \@combinedblfloats
14961 \@setmarks
14962 \@outputpage
14963 \begingroup
14964 \@dblfloatplacement
14965 \@startdblcolumn
14966 \@whiles\if@fcolmade \fi{\@outputpage
14967 \@startdblcolumn}%
14968 \endgroup
14969 \fi}%
14970
14971 \def\RTL@outputdblcol{%
14972 \if@firstcolumn
14973 \global\@firstcolumnfalse
14974 \global\setbox\@leftcolumn\copy\@outputbox
14975 \global\count\footins\@m
14976 \global\skip\footins\rcol@footinsskip
14977 \global\count\@bidi@copyins\@m
14978 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
14979 \splitmaxdepth\maxdimen
14980 \vbadness\maxdimen
14981 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14982 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14983 \toks@\expandafter{\topmark}%

```





```

14984 \xdef\@firstcoltopmark{\the\toks@}%
14985 \toks@\expandafter{\splitfirstmark}%
14986 \xdef\@firstcolfirstmark{\the\toks@}%
14987 \ifx\@firstcolfirstmark\@empty
14988 \global\let\@setmarks\relax
14989 \else
14990 \gdef\@setmarks{%
14991 \let\firstmark\@firstcolfirstmark
14992 \let\topmark\@firstcoltopmark}%
14993 \fi
14994 \else
14995 \preparefootins
14996 \prepare@bidi@copyins
14997 \global\@firstcolumntrue
14998 \setbox\@outputbox\vbox{%
14999 \hb@xt@\textwidth{%
15000 \hskip \columnwidth
15001 \hfil
15002 {\normalcolor\vrule \@width\columnseprule}%
15003 \hfil
15004 \hb@xt@\columnwidth{%
15005 \bidi@firstcolumn@status@write%
15006 \box\@leftcolumn \hss}%
15007 \hskip -\textwidth
15008 \hb@xt@\columnwidth{%
15009 \bidi@lastcolumn@status@write%
15010 \box\@outputbox \hss}%
15011 \hskip \columnsep
15012 \hskip \columnwidth }}%
15013 \@combinedblfloats
15014 \@setmarks
15015 \@outputpage
15016 \begin@group
15017 \@dblfloatplacement
15018 \@startdblcolumn
15019 \@whilesw\if@colmade \fi{\@outputpage
15020 \@startdblcolumn}%
15021 \end@group
15022 \fi}%
15023
15024 \def\@startcolumn{%
15025 \ifx\@deferlist\@empty
15026 \global\@fcolmadefalse
15027 \global\@colroom\@colht
15028 \else
15029 \ifvoid\footins\else
15030 \ftn@amount\ht\footins
15031 \advance\ftn@amount\dp\footins
15032 \advance\ftn@amount\skip\footins
15033 \fi
15034 \ifvoid\@bidi@copyins\else
15035 \bidi@copyins@amount\ht\@bidi@copyins@
15036 \advance\bidi@copyins@amount\dp\@bidi@copyins@
15037 \advance\bidi@copyins@amount\skip\@bidi@copyins@

```



```

15038 \fi
15039 \global\advance\@colht-\ftn@amount
15040 \global\advance\@colht-\bidi@copyins@amount
15041 \global\@colroom\@colht
15042 \@xstartcol
15043 \global\advance\@colht\ftn@amount
15044 \global\advance\@colroom\ftn@amount
15045 \global\advance\@colht\bidi@copyins@amount
15046 \global\advance\@colroom\bidi@copyins@amount
15047 \fi
15048 \if@fcolmade
15049 \setbox\@cclv\box\@outputbox
15050 \@makecol
15051 \else
15052 \ifvoid\footins\else
15053 \insert\footins{\unvbox\footins}\fi
15054 \ifvoid\@bidi@copyins\else
15055 \insert\@bidi@copyins{\unvbox\@bidi@copyins}\fi
15056 \fi}
15057
15058 \newdimen\bidi@copyins@amount
15059
15060 \def\@makecol{\if@firstcolumn
15061 \setbox\@outputbox\box\@cclv
15062 \if@twocolumn \else
15063 \ifvoid\footins \else
15064 \@latexerr{ftnright package
15065         used in one-column mode}%
15066 {The ftnright package was designed to
15067 work with LaTeX's standard^^Jtwocolumn
15068 option. It does *not* work with the
15069 multicol package.^^JSo please specify
15070 `twocolumn' in the
15071 \noexpand\documentclass command.}%
15072 \shipout\box\footins \fi
15073 \ifvoid\@bidi@copyins\else
15074 \@latexerr{ftnright package
15075         used in one-column mode}%
15076 {The ftnright package was designed to
15077 work with LaTeX's standard^^Jtwocolumn
15078 option. It does *not* work with the
15079 multicol package.^^JSo please specify
15080 `twocolumn' in the
15081 \noexpand\documentclass command.}%
15082 \shipout\box\@bidi@copyins\fi\fi
15083 \ifnum\insertpenalties>\z@
15084 \@latexerr{ftnright package
15085         scrambled footnotes}%
15086 {There is too much footnote material in
15087 the first column and ftnright^^Jis
15088 unable to cope with this.^^JYou need
15089 to reduce the amount to get a properly
15090 formatted page.}%
15091 \fi

```



```

15092 \else
15093 \ifvoid\footins
15094 \ifvoid\@bidi@copyins@
15095 \setbox\@outputbox\box\@cclv
15096 \else
15097 \setbox\@outputbox\vbox
15098 {\ifvoid\@cclv \else
15099 \unvbox\@cclv
15100 \vskip \skip\@bidi@copyins@
15101 \fi
15102 \color@begingroup
15103 \normalcolor
15104 \unvbox \@bidi@copyins@
15105 \color@endgroup}%
15106 \fi
15107 \else
15108 \setbox\@outputbox\vbox
15109 {\ifvoid\@cclv \else
15110 \unvbox\@cclv
15111 \vskip\skip\footins\fi
15112 \color@begingroup
15113 \normalcolor
15114 \footnoterule\unvbox\footins
15115 \color@endgroup
15116 \ifvoid\@bidi@copyins@
15117 \else
15118 \vskip \skip\@bidi@copyins@
15119 \color@begingroup
15120 \normalcolor
15121 \unvbox \@bidi@copyins@
15122 \color@endgroup
15123 \fi
15124 }%
15125 \fi
15126 \fi
15127 \xdef\@freelist{\@freelist\@midlist}%
15128 \global \let \@midlist \@empty
15129 \@combinefloats
15130 \ifvbox\@kludgeins
15131 \@makespecialcolbox
15132 \else
15133 \setbox\@outputbox\vbox to\@colht
15134 {\boxmaxdepth\maxdepth
15135 \@texttop
15136 \@tempdima\dp\@outputbox
15137 \unvbox\@outputbox
15138 \vskip-\@tempdima
15139 \@textbottom}%
15140 \fi
15141 \global\maxdepth\@maxdepth}
15142
15143 \let\leftfootnoterule\@empty
15144 \let\rightfootnoterule\@empty
15145 \let\textwidthfootnoterule\@empty

```



```

15146 \let\autofootnoterule\@empty
15147 \let\footnoterule\@empty
15148 \long\def\@makefnmark#1{\parindent 1em
15149   \noindent\hbox to 2em{\%}
15150   \llap{\@thefnmark\hbox{.}\,.\,}\,}\#1}
15151
15152 \setlength{\skip\@bidi@copyins@}
15153   {10pt plus 5pt minus 3pt}
15154 \AtBeginDocument{\prepare@bidi@copyins}

```

100 File `graphicx-xetex-bidi.def`

```

15155 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
15156 \def\Grot@box@std#1#2{\ifmmode\else\ifRTL\beginL\fi\fi%
15157   \Grot@setangle{#1}%
15158   \setbox\z@\hbox{\ifmmode\ifRTL\beginR\fi#2\ifRTL\endR\fi\else\ifRTL\beginR\fi#2\ifRTL\endR\fi}%
15159   \Grot@x\z@
15160   \Grot@y\z@
15161   \Grot@box\ifmmode\else\ifRTL\endL\fi\fi}
15162 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\ifRTL\beginL\fi\fi%
15163   \@begin@tempboxa\hbox{\ifmmode\ifRTL\beginR\fi#3\ifRTL\endR\fi\else\ifRTL\beginR\fi#3\ifRTL\endR\fi}%
15164   \Grot@x\width \divide\Grot@x\tw@
15165   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
15166   \setkeys{Grot}{#1}%
15167   \setbox\z@\box\@tempboxa
15168   \Grot@setangle{#2}%
15169   \Grot@box\ifmmode\else\ifRTL\endL\fi\fi
15170   \@end@tempboxa}
15171 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\ifRTL\beginL\fi\fi%
15172   \leavevmode
15173   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15174   \setbox\z@\hbox{\{#3\}}%
15175   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15176   \ifdim#2\p<\z@
15177     \ht\tw@-#2\dp\z@
15178     \dp\tw@-#2\ht\z@
15179   \else
15180     \ht\tw@#2\ht\z@
15181     \dp\tw@#2\dp\z@
15182   \fi
15183   \ifdim#1\p<\z@
15184     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15185   \else
15186     \wd\tw@#1\wd\z@
15187     \box\tw@
15188   \fi\ifmmode\else\ifRTL\endL\fi\fi}
15189 \def\Gin@iii[#1,#2][#3,#4]#5{%
15190   \begingroup
15191   \ifmmode\else\ifRTL\beginL\fi\fi
15192   \Gin@bboxtrue
15193   \Gin@defaultbp\Gin@llx{#1}%
15194   \Gin@defaultbp\Gin@lly{#2}%
15195   \Gin@defaultbp\Gin@urx{#3}%
15196   \Gin@defaultbp\Gin@ury{#4}%

```



```

15197 \Ginclud@graphics{#5}%
15198 \ifmmode\else\if@RTL\endL\fi\fi
15199 \endgroup}
15200 \def\Gin@ii[#1]#2{%
15201   \def\@tempa{[]}\def\@tempb{#2}%
15202   \ifx\@tempa\@tempb
15203     \def\@tempa{\Gin@iii[#1] []}%
15204     \expandafter\@tempa
15205   \else
15206     \begingroup
15207       \ifmmode\else\if@RTL\beginL\fi\fi
15208       \@tempswafalse
15209       \toks@{\Ginclud@graphics{#2}}%
15210       \setkeys{Gin}{#1}%
15211       \Gin@esetsize
15212       \the\toks@
15213       \ifmmode\else\if@RTL\endL\fi\fi
15214     \endgroup
15215   \fi}
15216 \def\reflectbox{\bidiGscale@box-1[1]}
15217 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15218   \leavevmode
15219   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15220   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15221   \setbox\zw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15222   \ifdim#2\p@<\z@
15223     \ht\zw@-#2\dp\z@
15224     \dp\zw@-#2\ht\z@
15225   \else
15226     \ht\zw@#2\ht\z@
15227     \dp\zw@#2\dp\z@
15228   \fi
15229   \ifdim#1\p@<\z@
15230     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\zw@\hss}%
15231   \else
15232     \wd\zw@#1\wd\z@
15233     \box\zw@
15234   \fi\ifmmode\else\if@RTL\endL\fi\fi}
15235 \def\scalebox#1{%
15236   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}%
15237 \def\resizebox{%
15238   \leavevmode
15239   \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
15240 \def\bidiGscale@@box#1#2#3{%
15241   \let\@tempa\Gin@exclamation
15242   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
15243   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
15244   \ifx\@tempb\@tempa
15245     \ifx\@tempc\@tempa
15246       \toks@{\mbox}%
15247     \else
15248       \toks@{\bidiGscale@box@dd{#3}#1}%
15249     \fi
15250   \else

```



```

15251 \ifx\@tempc\@tempa
15252 \toks@{\bidiGscale@box@dd{#2}\width}%
15253 \else
15254 \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
15255 \fi
15256 \fi
15257 \the\toks@}
15258 \long\def\bidiGscale@box@dd#1#2#3{%
15259 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\fi}%
15260 \setlength\@tempdima{#1}%
15261 \setlength\@tempdimb{#2}%
15262 \Gscale@div\@tempa\@tempdima\@tempdimb
15263 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
15264 \end@tempboxa}
15265 \long\def\bidiGscale@box@dddd#1#2#3#4#5{%
15266 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\fi}%
15267 \setlength\@tempdima{#1}%
15268 \setlength\@tempdimb{#2}%
15269 \Gscale@div\@tempa\@tempdima\@tempdimb
15270 \setlength\@tempdima{#3}%
15271 \setlength\@tempdimb{#4}%
15272 \Gscale@div\@tempb\@tempdima\@tempdimb
15273 \ifGin@iso
15274 \ifdim\@tempa\p@>\@tempb\p@
15275 \let\@tempa\@tempb
15276 \else
15277 \let\@tempb\@tempa
15278 \fi
15279 \fi
15280 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
15281 \end@tempboxa}

```

## 101 File geometry-xetex-bidi.def

```

15282 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
15283 \renewcommand*{\Gm@vrules@mpi}{%
15284 \if@RTLmain%
15285 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15286 \llap{\Gm@vrule}\ignorespaces
15287 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15288 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
15289 \else%
15290 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15291 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15292 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
15293 \renewcommand*{\Gm@vrules@mpii}{%
15294 \if@RTLmain%
15295 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15296 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15297 \llap{\Gm@vrule}\hfil\Gm@vrule}%
15298 \else%
15299 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15300 \llap{\Gm@vrule}\ignorespaces
15301 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep

```



```

15302 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
15303 \bidi@patchcmd{\Gm@pageframes}{%
15304     \ifodd\count\z@
15305     \let\@themargin\oddsidemargin
15306     \else
15307     \let\@themargin\evensidemargin
15308     \fi
15309 }{%
15310     \ifodd\count\z@
15311     \ifRTLmain
15312     \let\@themargin\evensidemargin
15313     \else
15314     \let\@themargin\oddsidemargin
15315     \fi
15316     \else
15317     \ifRTLmain
15318     \let\@themargin\oddsidemargin
15319     \else
15320     \let\@themargin\evensidemargin
15321     \fi
15322     \fi
15323 }{}{}

```

## 102 File hgeneric-testphase-xetex-bidi.def

```

15324 \ProvidesFile{hgeneric-testphase-xetex-bidi.def}[2025/09/26 v0.3 bidi adaptations for generi
15325 \ExplSyntaxOn
15326 \bidi@undef\hyper@linkstart
15327 \bidi@undef\hyper@linkend
15328 \cs_new_protected:Npn \hyper@linkstart #1 #2 %#1 context, #2=destination name
15329 {
15330     \bool_if:NT \l__hyp_annot_GoTo_bool
15331     {
15332         \int_gincr:N\g__hyp_linknestlevel_int
15333         \__hyp_check_link_nesting:TF
15334         {
15335             \Hy@VerboseLinkStart{#1}{#2}% only for debug
15336             \group_begin:
15337             \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15338             \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{}
15339             \hook_use:n {hyp/link/#1}
15340             \ifmmode\else\beginL\fi
15341             \__hyp_link_goto_begin:nw {#2}
15342         }
15343         {
15344             \group_begin:
15345         }
15346     }
15347 }
15348
15349 \cs_new_protected:Npn \hyper@linkend
15350 {
15351     \bool_if:NT \l__hyp_annot_GoTo_bool
15352     {

```



```

15353     \__hyp_check_link_nesting:TF
15354     {
15355         \__hyp_link_goto_end:
15356         \ifmode\else\endL\fi
15357         \group_end:
15358         \Hy@VerboseLinkStop
15359     }
15360     {
15361         \group_end:
15362     }
15363     \int_gdecr:N\g__hyp_linknestlevel_int
15364 }
15365 }
15366 \AtBeginDocument{%
15367 \bidi@undef\hyper@link
15368 \bidi@undef\hyper@linkfile
15369 \bidi@undef\hyper@linkurl
15370 \bidi@undef\hyper@linknamed
15371 \cs_new_protected:Npn \hyper@link #1 #2 #3 % #1 context, #2=destination name, #3 content
15372 {
15373     \bool_if:NTF \l__hyp_annot_GoTo_bool
15374     {
15375         \int_gincr:N\g__hyp_linknestlevel_int
15376         \__hyp_check_link_nesting:TF
15377         {
15378             \Hy@VerboseLinkStart{#1}{#2}
15379             \group_begin:
15380             \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15381             \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{#3}
15382             \hook_use:n {hyp/link/#1}
15383             \ifmode\else\beginL\fi
15384             \__hyp_link_goto_begin:nw {#2}\ifmode\else\if@RTL\beginR\fi\fi#3\ifmode\else\fi
15385             \__hyp_link_goto_end:
15386             \ifmode\else\endL\fi
15387             \group_end:
15388             \Hy@VerboseLinkStop
15389         }
15390         {
15391             \group_begin: #3\group_end:
15392         }
15393         \int_gdecr:N\g__hyp_linknestlevel_int
15394     }
15395     {\let\protect\relax#3}}
15396 }
15397 \cs_new_protected:Npn \hyper@linkfile #1 #2 #3 % link text, filename, destname
15398 {
15399     \bool_if:NTF \l__hyp_annot_GoToR_bool
15400     {
15401         \int_gincr:N\g__hyp_linknestlevel_int
15402         \__hyp_check_link_nesting:TF
15403         {
15404             \group_begin:
15405             \tl_set:Nn \l_hyp_filename_tmpa_tl { \text_expand:n { #2 } }
15406             \exp_args:Ne

```





```

15407 \pdf_object_if_exist:nF { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15408 {
15409 \pdfdict_put:nne { l_pdffile/Filespec}{Subtype}{\pdf_name_from_unicode_e:n
15410 \pdffile_embed_file:noe
15411 {}
15412 {\l__hyp_filename_tmpa_tl }
15413 {__hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15414 }
15415 \pdfdict_put:nne
15416 {l_hyp/annot/A/GoToR}
15417 {F}
15418 {\pdf_object_ref:e {__hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl}}
15419 \__hyp_text_pdfstring:nnN
15420 { #3 }
15421 { \l__hyp_text_enc_dest_print_tl }
15422 \l__hyp_dest_name_tmpa_tl
15423 \socket_use:nn{hyp/link/GoToR/Contents}{#2}
15424 \tl_if_blank:eTF {#3}
15425 {
15426 \pdfdict_put:nne {l_hyp/annot/A/GoToR}{D}
15427 {
15428 [
15429 \int_eval:n
15430 { \int_max:nn {0}{ 0\l__hyp_href_pdf_page_tl - 1 }}
15431 /\l__hyp_dest_pdfremotestartview_tl
15432 ]
15433 }
15434 }
15435 {
15436 \pdfdict_put:nno {l_hyp/annot/A/GoToR}{D}{\l__hyp_dest_name_tmpa_tl}
15437 }
15438 \mode_leave_vertical:
15439 \pdf_object_unnamed_write:ne{dict}{\pdfdict_use:n {l_hyp/annot/A/GoToR}}
15440 \pdfannot_dict_put:nne {link/GoToR}{A}{\pdf_object_ref_last:}
15441 \ifmmode\else\beginL\fi
15442 \pdfannot_link:nnn %expansion??
15443 { GoToR }
15444 {
15445 }
15446 {
15447 \let\protect\relax
15448 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace
15449 \Hy@VerboseLinkStop %where is the start??
15450 }
15451 \ifmmode\else\endL\fi
15452 \group_end:
15453 }
15454 {
15455 \group_begin: #1 \group_end:
15456 }
15457 \int_gdecr:N\g__hyp_linknestlevel_int
15458 }
15459 {{\let\protect\relax#1}}
15460 }

```



```

15461 \cs_new_protected:Npn \hyper@linkurl #1 #2 %#1:link text #2: URI,
15462 {
15463   \bool_if:NTF \l__hyp_annot_URI_bool
15464   {
15465     \int_gincr:N\g__hyp_linknestlevel_int
15466     \__hyp_check_link_nesting:TF
15467     {
15468       \group_begin:
15469       \__hyp_text_pdfstring:eoN
15470       { #2}
15471       { \l__hyp_text_enc_uri_print_tl }
15472       \l__hyp_uri_tmpa_tl
15473       \pdfdict_put:nno{l_hyp/annot/A/URI}{URI}{\l__hyp_uri_tmpa_tl}
15474       \bool_if:NT \l__hyp_href_url_ismap_bool
15475       {
15476         \pdfdict_put:nnn{l_hyp/annot/A/URI}{IsMap}{true}
15477       }
15478       \socket_use:nn{hyp/link/URI/Contents}{#2}
15479       \cs_set_eq:NN \# \c_hash_str
15480       \cs_set_eq:NN \% \c_percent_str
15481       \Hy@safe@activetrue
15482       \mode_leave_vertical:
15483       \pdfannot_dict_put:nne {link/URI}{A}{<<\pdfdict_use:n {l_hyp/annot/A/URI}>>}
15484       \ifmmode\else\beginL\fi
15485       \pdfannot_link:nen { URI }
15486       {
15487       }
15488       {
15489         \let\protect\relax
15490         \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi
15491         \Hy@xspace@end
15492         \Hy@VerboseLinkStop %where is the start??
15493       }
15494       \ifmmode\else\endL\fi
15495       \group_end:
15496     }
15497     {
15498       \group_begin: #1 \group_end:
15499     }
15500     \int_gdecr:N\g__hyp_linknestlevel_int
15501   }
15502   {\let\protect\relax#1}}
15503 }
15504 \RenewDocumentCommand \Acrobatmenu { m m }
15505 {
15506   \hyper@linknamed {#1} {#2}
15507 }
15508 \cs_new_protected:Npn \hyper@linknamed #1 #2 %#1 action, #2 link text
15509 {
15510   \bool_if:NTF \l__hyp_annot_Named_bool
15511   {
15512     \int_gincr:N\g__hyp_linknestlevel_int
15513     \__hyp_check_link_nesting:TF
15514     {

```



```

15515         \group_begin:
15516         \pdfmeta_standard_verify:nnTF {named_actions}{#1}
15517         {
15518             \mode_leave_vertical:
15519             \pdfdict_put:nne {l_hyp/annot/A/Named}{N}
15520             {\pdf_name_from_unicode_e:n{#1}}
15521             \pdfannot_dict_put:nne {link/Named}{A}{<<\pdfdict_use:n {l_hyp/annot/A/Named
15522             \ifmode\else\beginL\fi
15523             \pdfannot_link:nnn { Named }
15524             {
15525                 % /A
15526                 % <<
15527                 % \pdfdict_use:n { l_hyp/annot/A/Named }
15528                 % >>
15529             }
15530             {
15531                 \ifmode\else\if@RTL\beginR\fi\fi#2\ifmode\else\if@RTL\endR\fi
15532                 \Hy@xspace@end
15533                 \Hy@VerboseLinkStop
15534             }
15535             \ifmode\else\endL\fi
15536         }
15537         {
15538             \msg_warning:nnn { hyp } { pdfa-no-named-action }{#1}
15539             #2
15540         }
15541         \group_end:
15542     }
15543     { \group_begin: #2 \group_end: }
15544     \int_gdecr:N\g_hyp_linknestlevel_int
15545 }
15546 {{\let\protect\relax#2}}
15547 }
15548 }
15549 \bidi@patchcmd\@TextField{%
15550 \pdfannot_box:nnnn
15551 }{%
15552 \if@RTL
15553 \hskip\Fld@width
15554 \fi
15555 \pdfannot_box:nnnn
15556 }{}{}
15557 \bidi@patchcmd\@TextField{%
15558 \MakeTextField{\Fld@width}{\Fld@height}
15559 }{%
15560 \if@RTL
15561 \hskip-\Fld@width
15562 \fi
15563 \MakeTextField{\Fld@width}{\Fld@height}
15564 }{}{}
15565 \ExplSyntaxOff

```

## 103 File hvfloat-xetex-bidi.def



```

15566 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
15567 \def\do@hvFloat[#1]#2#3{%
15568   \def\hv@shortCap{#1}
15569   \def\hv@longCap{#2}
15570   \def\hv@label{#3}
15571   %\newcommand*{\hvFloat}[5][{}]{%
15572   % [#1]: keyvalues
15573   % #2: type figure | table | ...
15574   % #3: float contents
15575   % [#4]: short caption
15576   % #5: caption
15577   % #6: label
15578   % \setDefault%
15579   % \def\@tempa{#1}%
15580   % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
15581   \def\@tempa{90}%
15582   \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
15583   \else \setlength{\hvMaxCapWidth}{\linewidth}
15584   \fi
15585   %
15586   % First we save the object in \hvObjectBox
15587   %
15588   \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
15589     \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
15590   \else
15591     \savebox{\hvObjectBox}{%
15592       \rotatebox{\hvSet@objectAngle}{%
15593         \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
15594   \fi
15595   \setlength{\hvObjectWidth}{\wd\hvObjectBox}
15596   %
15597   % Now we save the caption with its defined \hvCapWidth
15598   %
15599   \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
15600   \else
15601     \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
15602     \else
15603       \setlength{\hvCapWidth}{\hvObjectWidth}
15604       \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15605       \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15606       \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
15607       \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
15608       \else
15609       \setlength{\hvCapWidth}{\hvMaxCapWidth}
15610       \fi
15611     \fi
15612   \fi
15613   %
15614   % now we have the object and the caption with the right
15615   % rotated angles saved in boxes
15616   %
15617   \def\fps@figure{\hvSet@floatPos}
15618   \ifhv@nonFloat\begin{group}% Start the nonfloat part
15619   \else \begin{\hv@floatType}% Start the floating environment

```



```

15620 \fi%
15621 \saveCaptionSkip% we put this space ourselves
15622 \ifx\hvSet@capAngle\hv@Width % need rotation?
15623   \sbox{\hvCaptionBox}{%
15624     \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15625     \ifhv@nonFloat%
15626       \ifhv@onlyText#2%
15627     \else%
15628       \ifx\hv@floatType\hv@figure
15629         \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15630       \else
15631         \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15632       \fi
15633     \fi
15634 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15635 \fi%
15636 \label{#3}%
15637   \end{minipage}%
15638   }%
15639 \else%
15640   \sbox{\hvCaptionBox}{%
15641     \rotatebox{\hvSet@capAngle}{%
15642       \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15643 \ifhv@nonFloat%
15644   \ifhv@onlyText#2%
15645 \else%
15646   \ifx\hv@floatType\hv@figure
15647     \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15648   \else
15649     \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15650   \fi
15651   \fi
15652 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15653   \fi%
15654   \label{#3}%
15655   \end{minipage}%
15656   }%
15657   }%
15658 \fi%
15659 %%
15660 \restoreCaptionSkip% save old values
15661 \ifx\hvSet@objectPos\hv@Right\@bidi@raggedleft%
15662 \else%
15663   \ifx\hvSet@objectPos\hv@Center
15664     \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
15665   \fi%
15666 \fi%
15667 %
15668 % to rotate object and caption together, we save all in another box
15669 % the caption comes first, if its on the left or the top
15670 %
15671 \savebox{\@tempboxa}{%
15672 \ifx\hvSet@capPos\hv@Left % caption on left side
15673 \if@RTL%

```



```

15674 \ifx\hvSet@capVPos\hv@Center%
15675     \ifhv@fbox
15676         \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15677     \else
15678         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15679     \fi%
15680     \hspace{\hvSet@floatCapSep pt}%
15681     \ifhv@fbox
15682         \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15683     \else
15684         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15685     \fi%
15686 \else%
15687 \ifx\hvSet@capVPos\hv@Top
15688     \ifhv@fbox
15689         \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15690     \else
15691         \raisebox{-\height}{\usebox{\hvObjectBox}}
15692     \fi%
15693     \hspace{\hvSet@floatCapSep pt}%
15694     \ifhv@fbox
15695         \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15696     \else
15697         \raisebox{-\height}{\usebox{\hvCaptionBox}}
15698     \fi
15699 \else
15700     \ifhv@fbox
15701         \fbox{\usebox{\hvObjectBox}}%
15702     \else
15703         \usebox{\hvObjectBox}%
15704     \fi
15705     \hspace{\hvSet@floatCapSep pt}%
15706     \ifhv@fbox
15707         \fbox{\usebox{\hvCaptionBox}}%
15708     \else
15709         \usebox{\hvCaptionBox}%
15710     \fi%
15711 \fi%
15712 \fi%
15713 \else% not RTL
15714     \ifx\hvSet@capVPos\hv@Center%
15715         \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15716     \else         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15717     \fi%
15718     \hspace{\hvSet@floatCapSep pt}% capfloatsep
15719     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15720     \else         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15721     \fi%
15722 \else%
15723     \ifx\hvSet@capVPos\hv@Top % caption at top
15724         \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15725     \else         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15726     \fi
15727     \hspace{\hvSet@floatCapSep pt}% capfloatsep

```



```

15728     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15729     \else       \raisebox{-\height}{\usebox{\hvObjectBox}}%
15730     \fi%
15731     \else% caption on bottom
15732     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15733         \else\usebox{\hvCaptionBox}
15734     \fi%
15735     \hspace{\hvSet@floatCapSep pt}%
15736     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15737     \else       \usebox{\hvObjectBox}
15738     \fi%
15739     \fi%
15740 \fi% end of RTL
15741 \fi%
15742 \else
15743     \ifx\hvSet@capPos\hv@Top
15744     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15745         \begin{minipage}{\wd\hvCaptionBox}
15746     \else
15747         \begin{minipage}{\wd\hvObjectBox}
15748     \fi
15749     \centering
15750     \ifhv@fbox
15751         \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
15752         \fbbox{\usebox{\hvObjectBox}}
15753     \else
15754         \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
15755         \usebox{\hvObjectBox}
15756     \fi%
15757     \end{minipage}
15758 \else
15759     \ifx\hvSet@capPos\hv@Bottom
15760     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15761         \begin{minipage}{\wd\hvCaptionBox}
15762     \else
15763         \begin{minipage}{\wd\hvObjectBox}
15764     \fi
15765     \centering
15766     \ifhv@fbox
15767         \fbbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
15768         \fbbox{\usebox{\hvCaptionBox}}
15769     \else
15770         \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
15771         \usebox{\hvCaptionBox}
15772     \fi%
15773     \end{minipage}
15774 \else% the last option: put the caption on the right
15775 \if@RTL%
15776     \ifx\hvSet@capVPos\hv@Center%
15777     \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15778     \else       \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15779     \fi%
15780     \hspace{\hvSet@floatCapSep pt}% capfloatsep
15781     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}

```



```

15782 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15783 \fi%
15784 \else%
15785 \ifx\hvSet@capVPos\hv@Top % caption at top
15786 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15787 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15788 \fi
15789 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15790 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15791 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
15792 \fi%
15793 \else% caption on bottom
15794 \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15795 \else\usebox{\hvCaptionBox}
15796 \fi%
15797 \hspace{\hvSet@floatCapSep pt}%
15798 \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15799 \else \usebox{\hvObjectBox}
15800 \fi%
15801 \fi%
15802 \fi%
15803 \else% not RTL
15804 \ifx\hvSet@capVPos\hv@Center%
15805 \ifhv@fbox
15806 \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15807 \else
15808 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15809 \fi%
15810 \hspace{\hvSet@floatCapSep pt}%
15811 \ifhv@fbox
15812 \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15813 \else
15814 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15815 \fi%
15816 \else%
15817 \ifx\hvSet@capVPos\hv@Top
15818 \ifhv@fbox
15819 \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15820 \else
15821 \raisebox{-\height}{\usebox{\hvObjectBox}}%
15822 \fi%
15823 \hspace{\hvSet@floatCapSep pt}%
15824 \ifhv@fbox
15825 \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15826 \else
15827 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15828 \fi
15829 \else
15830 \ifhv@fbox
15831 \fbbox{\usebox{\hvObjectBox}}%
15832 \else
15833 \usebox{\hvObjectBox}%
15834 \fi
15835 \hspace{\hvSet@floatCapSep pt}%

```





```

15836         \ifhv@fbox
15837         \fbox{\usebox{\hvCaptionBox}}}%
15838         \else
15839         \usebox{\hvCaptionBox}%
15840         \fi%
15841     \fi%
15842 \fi
15843 \fi% end of RTL
15844 \fi
15845 \fi
15846 \fi
15847 }% End savebox Object and caption
15848 %
15849 % now we rotate the object and caption, if needed
15850 %
15851 \ifx\hvSet@rotAngle\hv@Zero
15852     \usebox{\@tempboxa}
15853 \else
15854     \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
15855 \fi
15856 \ifhv@nonFloat
15857     \ifx\hvSet@objectPos\hv@Center
15858         \ifhv@nonFloat
15859             \hspace{\fill}
15860         \fi
15861     \fi
15862 \endgroup% End the nonfloat part
15863 \else
15864 \end{\hv@floatType}% End the floating environment
15865 \fi
15866 }

```

## 104 File hyperref-xetex-bidi.def

```

15867 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
15868 \AtBeginDocument{%
15869 \def\contentsline#1#2#3#4{%
15870     \ifx\#4\%
15871         \csname l@#1\endcsname{#2}{#3}%
15872     \else
15873         \ifcase\Hy@linktoc % none
15874             \csname l@#1\endcsname{#2}{#3}%
15875         \or % section
15876             \csname l@#1\endcsname{%
15877                 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15878             }{#3}%
15879         \or % page
15880             \csname l@#1\endcsname{#2}{#3}%
15881             \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15882         }%
15883     \else % all
15884         \csname l@#1\endcsname{%
15885             \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15886         }{%

```



```

15887      \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15888    }%
15889    \fi
15890  \fi
15891 }
15892 \ifHy@hyperfootnotes
15893   \let\H@@footnotetext\@footnotetext
15894   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
15895   \let\HLTR@LTRLfootnotetext\@LTRLfootnotetext
15896   \def\@xfootnotenext[#1]{%
15897     \begingroup
15898       \csname c@\@mpfn\endcsname #1\relax
15899       \unrestored@protected@xdef\@thefnmark{\thempfn}%
15900     \endgroup
15901     \ifx\@footnotetext\@mpfootnotetext
15902       \expandafter\H@@mpfootnotetext
15903     \else
15904       \expandafter\H@@footnotetext
15905     \fi
15906   }%
15907   \def\@xRTLfootnotenext[#1]{%
15908     \begingroup
15909       \csname c@\@mpfn\endcsname #1\relax
15910       \unrestored@protected@xdef\@thefnmark{\thempfn}%
15911     \endgroup
15912     \ifx\@RTLfootnotetext\@mpRTLfootnotetext
15913       \expandafter\HRTL@mpRTLfootnotetext
15914     \else
15915       \expandafter\HRTL@RTLfootnotetext
15916     \fi
15917   }%
15918   \def\@xLTRLfootnotenext[#1]{%
15919     \begingroup
15920       \csname c@\@mpfn\endcsname #1\relax
15921       \unrestored@protected@xdef\@thefnmark{\thempfn}%
15922     \endgroup
15923     \ifx\@LTRLfootnotetext\@mpLTRLfootnotetext
15924       \expandafter\HLTR@mpLTRLfootnotetext
15925     \else
15926       \expandafter\HLTR@LTRLfootnotetext
15927     \fi
15928   }%
15929   \def\@xfootnotemark[#1]{%
15930     \begingroup
15931       \c@footnote #1\relax
15932       \unrestored@protected@xdef\@thefnmark{\thefootnote}%
15933     \endgroup
15934     \H@@footnotemark
15935   }%
15936   \let\H@@mpfootnotetext\@mpfootnotetext
15937   \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
15938   \let\HLTR@mpLTRLfootnotetext\@mpLTRLfootnotetext
15939   \long\def\@mpfootnotetext#1{%
15940     \H@@mpfootnotetext{%

```



```

15941     \ifHy@nesting
15942     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15943     \else
15944     \Hy@raisedlink{%
15945     \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15946     }#1%
15947     \fi
15948   }%
15949 }%
15950 \long\def\@mpRTLfootnotetext#1{%
15951 \HRTL@mpRTLfootnotetext{%
15952 \ifHy@nesting
15953 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15954 \else
15955 \Hy@raisedlink{%
15956 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15957 }#1%
15958 \fi
15959 }%
15960 }%
15961 \long\def\@mplTRfootnotetext#1{%
15962 \HLTR@mplTRfootnotetext{%
15963 \ifHy@nesting
15964 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15965 \else
15966 \Hy@raisedlink{%
15967 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15968 }#1%
15969 \fi
15970 }%
15971 }%
15972 \long\def\@footnotetext#1{%
15973 \H@footnotetext{%
15974 \ifHy@nesting
15975 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15976 \else
15977 \Hy@raisedlink{%
15978 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15979 }%
15980 \let\@currentHlabel\Hy@footnote@currentHlabel
15981 \let\@currentHref\Hy@footnote@currentHref
15982 \let\@currentlabelname\@empty
15983 #1%
15984 \fi
15985 }%
15986 }%
15987 \long\def\@RTLfootnotetext#1{%
15988 \HRTL@RTLfootnotetext{%
15989 \ifHy@nesting
15990 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15991 \else
15992 \Hy@raisedlink{%
15993 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15994 }%

```



```

15995         \let\@currentHlabel\Hy@footnote@currentHlabel
15996         \let\@currentHref\Hy@footnote@currentHref
15997         \let\@currentlabelname\@empty
15998         #1%
15999     \fi
16000 }%
16001 }%
16002 \long\def\@LTRfootnotetext#1{%
16003 \HLTR@@LTRfootnotetext{%
16004     \ifHy@nesting
16005         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
16006     \else
16007         \Hy@raisedlink{%
16008             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
16009         }%
16010         \let\@currentHlabel\Hy@footnote@currentHlabel
16011         \let\@currentHref\Hy@footnote@currentHref
16012         \let\@currentlabelname\@empty
16013         #1%
16014     \fi
16015 }%
16016 }%
16017 \ApplyPatchCodeToPackage{tabularx}{%
16018 \let\HyOrg@TX@endtabularx\TX@endtabularx
16019 \def\Hy@tabularx@hook{%
16020     \let\@footnotetext\H@@footnotetext
16021     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
16022     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
16023     \let\@footnotemark\H@@footnotemark
16024     \let\@mpfootnotetext\H@@mpfootnotetext
16025     \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
16026     \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
16027 }%
16028 \begingroup
16029     \toks@{\expandafter{\TX@endtabularx}}%
16030     \xdef\Hy@gtemp{%
16031         \noexpand\Hy@tabularx@hook
16032         \the\toks@
16033     }%
16034 \endgroup
16035 \let\TX@endtabularx\Hy@gtemp
16036 }%
16037 \ApplyPatchCodeToPackage{longtable}{%
16038 \CheckCommand{\LT@p@LTRfnttext}[1]{%
16039     \edef\@tempa{%
16040         \the\LT@p@ftn
16041         \noexpand\LTRfootnotetext[\the\c@footnote]%
16042     }%
16043     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16044 }%
16045 \long\def\LT@p@LTRfnttext#1{%
16046     \edef\@tempa{%
16047         \the\LT@p@ftn
16048         \begingroup

```



```

16049         \noexpand\c@footnote=\the\c@footnote\relax
16050         \noexpand\protected@xdef\noexpand\@thefnmark{%
16051             \noexpand\thempfn
16052         }%
16053         \noexpand\Hy@LT@LTRfootnotetext{%
16054             \Hy@footnote@currentHref
16055         }%
16056     }%
16057     \global\LT@p@ftn\expandafter{%
16058         \@tempa{#1}%
16059     \endgroup
16060 }%
16061 }%
16062 \long\def\Hy@LT@LTRfootnotetext#1#2{%
16063     \HLTR@@LTRfootnotetext{%
16064         \ifHy@nesting
16065             \hyper@@anchor{#1}{#2}%
16066         \else
16067             \Hy@raisedlink{%
16068                 \hyper@@anchor{#1}{\relax}%
16069             }%
16070             \def\@currentHref{#1}%
16071             \let\@currentlabelname\@empty
16072             #2%
16073         \fi
16074     }%
16075 }%
16076 \CheckCommand{\LT@p@RTLftntext}[1]{%
16077     \edef\@tempa{%
16078         \the\LT@p@ftn
16079         \noexpand\RTLfootnotetext[\the\c@footnote]%
16080     }%
16081     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16082 }%
16083 \long\def\LT@p@RTLftntext#1{%
16084     \edef\@tempa{%
16085         \the\LT@p@ftn
16086     \begingroup
16087         \noexpand\c@footnote=\the\c@footnote\relax
16088         \noexpand\protected@xdef\noexpand\@thefnmark{%
16089             \noexpand\thempfn
16090         }%
16091         \noexpand\Hy@LT@RTLfootnotetext{%
16092             \Hy@footnote@currentHref
16093         }%
16094     }%
16095     \global\LT@p@ftn\expandafter{%
16096         \@tempa{#1}%
16097     \endgroup
16098 }%
16099 }%
16100 \long\def\Hy@LT@RTLfootnotetext#1#2{%
16101     \HRTL@@RTLfootnotetext{%
16102         \ifHy@nesting

```



```

16103         \hyper@@anchor{#1}{#2}%
16104     \else
16105         \Hy@raisedlink{%
16106             \hyper@@anchor{#1}{\relax}%
16107         }%
16108         \def\@currentHref{#1}%
16109         \let\@currentlabelname\@empty
16110         #2%
16111     \fi
16112 }%
16113 }%
16114 }%
16115 \ApplyPatchCodeToPackage{bidipoem}{%
16116 \long\def\bidipoem@p@ftntext#1{%
16117     \edef\@tempxi{%
16118         \the\bidipoem@p@ftn
16119     \begingroup
16120         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16121         \noexpand\protected@xdef\noexpand\@thefnmark{%
16122             \noexpand\thempfn
16123         }%
16124         \noexpand\Hy@bidipoem@footnotetext{%
16125             \Hy@footnote@currentHref
16126         }%
16127     }%
16128     \global\bidipoem@p@ftn\expandafter{%
16129         \@tempxi{#1}%
16130     \endgroup
16131     }%
16132 }%
16133 \long\def\Hy@bidipoem@footnotetext#1#2{%
16134     \H@@footnotetext{%
16135         \ifHy@nesting
16136             \hyper@@anchor{#1}{#2}%
16137         \else
16138             \Hy@raisedlink{%
16139                 \hyper@@anchor{#1}{\relax}%
16140             }%
16141             \def\@currentHref{#1}%
16142             \let\@currentlabelname\@empty
16143             #2%
16144         \fi
16145     }%
16146 }%
16147 \long\def\bidipoem@p@LTRftntext#1{%
16148 \edef\@tempxi{%
16149     \the\bidipoem@p@ftn
16150 \begingroup
16151     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16152     \noexpand\protected@xdef\noexpand\@thefnmark{%
16153         \noexpand\thempfn
16154     }%
16155     \noexpand\Hy@bidipoem@LTRfootnotetext{%
16156         \Hy@footnote@currentHref

```



```

16157         }%
16158     }%
16159     \global\bidipoem@p@ftn\expandafter{%
16160         \@tempxi{#1}%
16161     \endgroup
16162 }%
16163 }%
16164 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
16165     \HLTR@@LTRfootnotetext{%
16166         \ifHy@nesting
16167             \hyper@@anchor{#1}{#2}%
16168         \else
16169             \Hy@raisedlink{%
16170                 \hyper@@anchor{#1}{\relax}%
16171             }%
16172             \def\@currentHref{#1}%
16173             \let\@currentlabelname\@empty
16174             #2%
16175         \fi
16176     }%
16177 }%
16178     \long\def\bidipoem@p@RTLftntext#1{%
16179     \edef\@tempxi{%
16180         \the\bidipoem@p@ftn
16181         \begingroup
16182             \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16183             \noexpand\protected@xdef\noexpand\@thefnmark{%
16184                 \noexpand\thempfn
16185             }%
16186             \noexpand\Hy@bidipoem@RTLfootnotetext{%
16187                 \Hy@footnote@currentHref
16188             }%
16189         }%
16190     \global\bidipoem@p@ftn\expandafter{%
16191         \@tempxi{#1}%
16192     \endgroup
16193 }%
16194 }%
16195 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
16196     \HRTL@@RTLfootnotetext{%
16197         \ifHy@nesting
16198             \hyper@@anchor{#1}{#2}%
16199         \else
16200             \Hy@raisedlink{%
16201                 \hyper@@anchor{#1}{\relax}%
16202             }%
16203             \def\@currentHref{#1}%
16204             \let\@currentlabelname\@empty
16205             #2%
16206         \fi
16207     }%
16208 }%
16209 }%
16210 \let\HyOrg@maketitle\maketitle

```



```

16211 \def\maketitle{%
16212   \let\Hy@saved@footnotemark\@footnotemark
16213   \let\Hy@saved@footnotetext\@footnotetext
16214   \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
16215   \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
16216   \let\@footnotemark\H@@footnotemark
16217   \let\@footnotetext\H@@footnotetext
16218   \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
16219   \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
16220   \@ifnextchar[\Hy@maketitle@optarg{% ]
16221     \HyOrg@maketitle
16222     \Hy@maketitle@end
16223   }%
16224 }%
16225 \def\Hy@maketitle@optarg[#1]{%
16226   \HyOrg@maketitle[#{#1}]%
16227   \Hy@maketitle@end
16228 }%
16229 \def\Hy@maketitle@end{%
16230   \ifx\@footnotemark\H@@footnotemark
16231     \let\@footnotemark\Hy@saved@footnotemark
16232   \fi
16233   \ifx\@footnotetext\H@@footnotetext
16234     \let\@footnotetext\Hy@saved@footnotetext
16235   \fi
16236   \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
16237     \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
16238   \fi
16239   \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
16240     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
16241   \fi
16242 }%
16243 \def\realfootnote{%
16244   \@ifnextchar[\@xfootnote{%
16245     \stepcounter{\@mpfn}%
16246     \protected@xdef\@thefnmark{\thempfn}%
16247     \H@@footnotemark\H@@footnotetext
16248   }%
16249 }%
16250 \fi
16251 \def\Hy@BeginAnnot#1{%
16252   \ifmmode\else\beginL\fi%
16253   \global\advance\c@Hy@AnnotLevel\@ne
16254   \ifnum\c@Hy@AnnotLevel=\@ne
16255     #1%
16256   \fi
16257 }
16258 \def\Hy@EndAnnot{%
16259   \ifnum\c@Hy@AnnotLevel=\@ne
16260     \Hy@endcolorlink
16261     \@pdfmark{eann}%
16262   \fi
16263   \global\advance\c@Hy@AnnotLevel\m@ne
16264   \ifmmode\else\endL\fi%

```





```

16265 }
16266 \def\hyper@link#1#2#3{%
16267   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
16268 }
16269 \def\hyper@linkfile#1#2#3{%
16270   \leavevmode
16271   \Hy@BeginAnnot{%
16272     \def\Hy@pstringF{#2}%
16273     \Hy@CleanupFile\Hy@pstringF
16274     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
16275     \Hy@pstringdef\Hy@pstringD{#3}%
16276     \Hy@MakeRemoteAction
16277     \@pdfm@mark{%
16278       bann<<%
16279         /Type/Annot%
16280         /Subtype/Link%
16281         \ifHy@pdfa /F 4\fi
16282         \Hy@setpdfborder
16283         \ifx\@filebordercolor\relax
16284           \else
16285             /C[\@filebordercolor]%
16286           \fi
16287         /A<<%
16288         /S/GoToR%
16289         /F(\Hy@pstringF)%
16290         /D%
16291         \ifx\#3\%
16292           [\Hy@href@page\@pdfremotestartview]%
16293         \else
16294           (\Hy@pstringD)%
16295         \fi
16296         \Hy@SetNewWindow
16297         \Hy@href@nextactionraw
16298       >>%
16299     >>%
16300   }%
16301   \Hy@colorlink\@filecolor
16302 }%
16303 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16304 \Hy@endAnnot
16305 }
16306 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
16307   \leavevmode
16308   \Hy@BeginAnnot{%
16309     \Hy@pstringdef\Hy@pstringF{#1}%
16310     \Hy@pstringdef\Hy@pstringP{#3}%
16311     \@pdfm@mark{%
16312       bann<<%
16313         /Type/Annot%
16314         /Subtype/Link%
16315         \ifHy@pdfa /F 4\fi
16316         \Hy@setpdfborder
16317         \ifx\@runbordercolor\relax
16318           \else

```



```

16319         /C[\@runbordercolor]%
16320     \fi
16321     /A<<%
16322         /F(\Hy@pstringF)%
16323         /S/Launch%
16324         \Hy@SetNewWindow
16325         \ifx\#3\%
16326         \else
16327             /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
16328         \fi
16329         \Hy@href@nextactionraw
16330     >>%
16331 >>%
16332 }%
16333 \Hy@colorlink\@runcolor
16334 }%
16335 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16336 \Hy@endAnnot
16337 }
16338 \def\hyper@linkurl#1#2{%
16339     \leavevmode
16340     \Hy@BeginAnnot{%
16341         \Hy@pstringdef\Hy@pstringURI{#2}%
16342         \@pdfm@mark{%
16343             bann<<%
16344                 /Type/Annot%
16345                 /Subtype/Link%
16346                 \ifHy@pdfa /F 4\fi
16347                 \Hy@setpdfborder
16348                 \ifx\@urlbordercolor\relax
16349                 \else
16350                     /C[\@urlbordercolor]%
16351                 \fi
16352                 /A<<%
16353                 /S/URI%
16354                 /URI(\Hy@pstringURI)%
16355                 \ifHy@href@ismap
16356                 /IsMap true%
16357                 \fi
16358                 \Hy@href@nextactionraw
16359             >>%
16360         >>%
16361     }%
16362     \Hy@colorlink\@urlcolor
16363 }%
16364 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16365 \Hy@endAnnot
16366 }
16367 \def\Acrobatmenu#1#2{%
16368     \Hy@Acrobatmenu{#1}{#2}%
16369     \Hy@BeginAnnot{%
16370         \EdefEscapeName\Hy@temp@menu{#1}%
16371         \@pdfm@mark{%
16372             bann<<%

```



```

16373         /Type/Annot%
16374         /Subtype/Link%
16375         \ifHy@pdfa /F 4\fi
16376         \Hy@setpdfborder
16377         \ifx\@menubordercolor\relax
16378         \else
16379         /C[\@menubordercolor]%
16380         \fi
16381         /A<<%
16382         /S/Named%
16383         /N/\Hy@temp@menu
16384         \Hy@href@nextactionraw
16385         >>%
16386         >>%
16387     }%
16388     \Hy@colorlink\@menucolor
16389 }%
16390 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16391 \Hy@endAnnot
16392 }%
16393 }
16394 \def\hyper@natlinkstart#1{%
16395   \Hy@backout{#1}%
16396   \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
16397   \def\hyper@nat@current{#1}%
16398 }
16399 \def\hyper@natlinkend{%
16400   \if@RTL\endR\fi\hyper@linkend
16401 }
16402 \def\hyper@natlinkbreak#1#2{%
16403   \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
16404 }%
16405 }
16406 \pdfstringdefDisableCommands{%
16407   \let\LRE\@firstofone
16408   \let\LR\@firstofone
16409   \let\RLE\@firstofone
16410   \let\RL\@firstofone
16411   \def\XeTeX{Xe\TeX}%
16412   \def\XeLaTeX{Xe\LaTeX}%
16413 }
16414 \bidi@patchcmd\@TextField{%
16415   \@pdfm@mark
16416 }{%
16417   \if@RTL
16418     \hskip\Fld@width
16419   \fi
16420   \@pdfm@mark
16421 }{}{}
16422 \bidi@patchcmd\@TextField{%
16423   \unhbox
16424 }{%
16425   \if@RTL
16426     \hskip-\Fld@width

```



```

16427 \fi
16428 \unhbox
16429 }{}{}
16430 \bidi@patchcmd\@@Radio{%
16431 \@pdfm@mark
16432 }{%
16433 \if@RTL
16434 \hskip\Fld@width
16435 \fi
16436 \@pdfm@mark
16437 }{}{}
16438 \bidi@patchcmd\@@Radio{%
16439 \unhcopy
16440 }{%
16441 \if@RTL
16442 \hskip-\Fld@width
16443 \fi
16444 \unhcopy
16445 }{}{}
16446 \bidi@patchcmd\@Submit{%
16447 \@pdfm@mark
16448 }{%
16449 \if@RTL
16450 \null
16451 \hskip\wd\pdfm@box
16452 \fi
16453 \@pdfm@mark
16454 }{}{}
16455 \bidi@patchcmd\@Submit{%
16456 \unhbox
16457 }{%
16458 \if@RTL
16459 \hskip-\wd\pdfm@box
16460 \fi
16461 \unhbox
16462 }{}{}
16463 \bidi@patchcmd\@Reset{%
16464 \@pdfm@mark
16465 }{%
16466 \if@RTL
16467 \null
16468 \hskip\wd\pdfm@box
16469 \fi
16470 \@pdfm@mark
16471 }{}{}
16472 \bidi@patchcmd\@Reset{%
16473 \unhbox
16474 }{%
16475 \if@RTL
16476 \hskip-\wd\pdfm@box
16477 \fi
16478 \unhbox
16479 }{}{}

```



## 105 File imspdoc-xetex-bidi.def

```

16480 \ProvidesFile{imspdoc-xetex-bidi.def}[2025/09/30 v0.2 bidi adaptations for imspdoc class for
16481 \newenvironment{thebibliography}[1]{%
16482   \@bibttitlestyle
16483   \normalfont\bibliofont\labelsep .5em\relax
16484   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
16485   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16486   \bidi@thebibliography@font@hook
16487   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
16488     \leftmargin\labelwidth \advance\leftmargin\labelsep
16489     \usecounter{enumiv}}%
16490   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
16491   \sfcode`\.=\@m
16492 }{%
16493   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
16494   \endlist
16495 }
16496
16497 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
16498   \columnseprule\z@ \columnsep 35\p@
16499   \@indextitlestyle
16500   \thispagestyle{plain}%
16501   \let\item\@idxitem
16502   \parindent\z@ \parskip\z@\@plus.3\p@\relax
16503   \if@RTL\raggedleft\else\raggedright\fi
16504   \hyphenpenalty\@M
16505   \footnotesize}
16506 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
16507 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
16508 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
16509
16510 \def\right@footnoterule{%
16511   \kern-.4\p@
16512   \nointerlineskip
16513   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
16514   \kern11\p@\kern-\footnotesep}
16515 \def\left@footnoterule{\kern-.4\p@
16516   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
16517 \def\@makefnmark{%
16518   \leavevmode
16519   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
16520 }
16521
16522 \def\part{\@startsection{part}{0}%
16523   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
16524   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
16525 \def\@tocline#1#2#3#4#5#6#7{\relax
16526   \ifnum #1>\c@tocdepth % then omit
16527   \else
16528     \par \addpenalty\@secpenalty\addvspace{#2}%
16529     \begingroup \hyphenpenalty\@M
16530     \@ifempty{#4}{%
16531       \@tempdima\csname r@tocindent\number#1\endcsname\relax

```



```

16532 }{%
16533   \@tempdima#4\relax
16534 }%
16535 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
16536 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
16537 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
16538 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16539 \nobreak
16540 \endgroup
16541 \fi}
16542 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
16543 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
16544 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
16545 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
16546 \def\maketitle{\par
16547   \@topnum\z@ % this prevents figures from falling at the top of page 1
16548   \@setcopyright
16549   \thispagestyle{firstpage}% this sets first page specifications
16550   \uppercase\nonmath\shorttitle
16551   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
16552   \else \andify\shortauthors
16553   \fi
16554   \@maketitle@hook
16555   \begingroup
16556   \@maketitle
16557   \toks@{\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}}%
16558   \toks4{\def\\{\ignorespaces}}% defend against questionable usage
16559   \edef\@tempa{%
16560     \@nx\markboth{\the\toks4
16561       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
16562   \@tempa
16563   \endgroup
16564   \c@footnote\z@
16565   \c@cleartopmattertags
16566 }

```

## 106 File leqno-xetex-bidi.def

```

16567 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
16568 \renewcommand\@eqnnum{\hb@xt@.01p@{}}%
16569   \rlap{\hskip -\displaywidth
16570     {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}

```

## 107 File letter-xetex-bidi.def

```

16571 \ProvidesFile{letter-xetex-bidi.def}[2025/09/30 v0.4 bidi adaptations for standard letter class]
16572 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
16573   \thispagestyle{firstpage}%
16574   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
16575 \else % home address
16576   \thispagestyle{empty}%
16577   {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
16578     \fromaddress \[*[2\parskip]%
16579     \@date \end{tabular}\par}%

```



```

16580 \fi
16581 \vspace{2\parskip}%
16582 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \toaddress \par}%
16583 \vspace{2\parskip}%
16584 #1\par\nobreak}
16585 \renewcommand\left@footnoterule{%
16586 \kern-\p@
16587 \hrule \@width .4\columnwidth
16588 \kern .6\p@}
16589 \renewcommand\right@footnoterule{%
16590 \kern-\p@
16591 \nointerlineskip
16592 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16593 \kern .6\p@}

```

## 108 File lettrine-xetex-bidi.def

```

16594 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]
16595 \RemoveFromHook{begindocument}[lettrine]
16596 \AtBeginDocument[lettrine]{%
16597 \if\DefaultOptionsFile\relax
16598 \else
16599 \InputIfFileExists{\DefaultOptionsFile}%
16600 {}%
16601 {\PackageWarning{lettrine.sty}%
16602 {File \DefaultOptionsFile\space not found}%
16603 }%
16604 \fi
16605 \let\ifL@RTL\if@RTL
16606 }

```

## 109 File lineno-xetex-bidi.def

```

16607 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for]
16608 \bidi@patchcmd{\MakeLineNo}{%
16609 \hb@xt@\z@{\makeLineNumber}%
16610 }{%
16611 \hboxL to \z@{\makeLineNumber}%
16612 }{}{}
16613
16614 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
16615 \if@RTL
16616 \hb@xt@\linenumberwidth{\LineNumber\hss}%
16617 \else
16618 \LineNumber
16619 \fi
16620 }{}{}
16621
16622 \bidi@patchcmd{\makeLineNumberRight}{%
16623 \hb@xt@\linenumberwidth{\hss\LineNumber}%
16624 }{%
16625 \if@RTL
16626 \LineNumber
16627 \else

```



```

16628 \hb@xt@\linenumberwidth{\hss\LineNumber}%
16629 \fi
16630 }{}{}
16631
16632 \bidi@AfterPreamble{%
16633 \if@RTLmain
16634 \rightlinenumbers*
16635 \else
16636 \leftlinenumbers*
16637 \fi
16638 \@ifpackagewith{lineno}{left}{%
16639 \leftlinenumbers*
16640 }{}
16641 \@ifpackagewith{lineno}{right}{%
16642 \rightlinenumbers*
16643 }{}
16644 \@ifpackagewith{lineno}{switch}{%
16645 \if@RTLmain
16646 \switchlinenumbers*%
16647 \else
16648 \switchlinenumbers
16649 \fi
16650 }{}
16651 \@ifpackagewith{lineno}{switch*}{%
16652 \if@RTLmain
16653 \switchlinenumbers
16654 \else
16655 \switchlinenumbers*%
16656 \fi
16657 }{}
16658 }
16659

```

## 110 File listings-xetex-bidi.def

```

16660 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
16661 \lst@Key{captiondirection}{textdirection}{%
16662 \lstKV@SwitchCases{#1}%
16663 {textdirection:\\%
16664 RTL:\chardef\bidi@lst@caption@direction\@ne\\%
16665 LTR:\chardef\bidi@lst@caption@direction\z@%
16666 }\PackageError{Listings}{direction #1 unknown}\@ehc}}
16667
16668 \lst@Key{captionscript}{textscript}{%
16669 \lstKV@SwitchCases{#1}%
16670 {textscript:\\%
16671 latin:\chardef\bidi@lst@caption@script\@ne\\%
16672 nonlatin:\chardef\bidi@lst@caption@script\z@%
16673 }\PackageError{Listings}{direction #1 unknown}\@ehc}}
16674
16675 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
16676 \@ifundefined{bidi@lst@caption@direction}{}{%
16677 \ifnum\bidi@lst@caption@direction=\z@%
16678 #1%

```





```

16679 \else%
16680 \ifnum\bidilst@caption@direction=\@ne%
16681 #2%
16682 \fi%
16683 \fi%
16684 }}
16685
16686 \newcommand*{\bidilst@ensure@caption@script}[2]{%
16687 \@ifundefined{bidilst@caption@script}{\@nonlatintrue}{\@nonlatinfalse}%
16688 \ifnum\bidilst@caption@script=\z@%
16689 #1%
16690 \else%
16691 \ifnum\bidilst@caption@script=\@ne%
16692 #2%
16693 \fi%
16694 \fi%
16695 }}
16696
16697 \long\def\@bidilst@makecaption#1#2{%
16698 \bidilst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16699 \vskip\abovecaptionskip
16700 \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16701 \sbox\@tempboxa{%
16702 \bidilst@ensure@caption@direction{\beginL}{\beginR}%
16703 #1: #2%
16704 \bidilst@ensure@caption@direction{\endL}{\endR}%
16705 }%
16706 \ifdim \wd\@tempboxa >\hsize
16707 #1: #2\par
16708 \else
16709 \global \@minipagefalse
16710 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16711 \fi
16712 \vskip\belowcaptionskip}%
16713 \def\lst@makecaption{\@bidilst@makecaption}
16714 \def\lst@maketitle{\@bidilst@makecaption\lst@title@dropdelim}
16715 \bidilst@AtEndPreamble{%
16716 \bidilst@patchcmd{\lst@MakeCaption}{%
16717 \ifx #1t%
16718 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16719 \expandafter\refstepcounter
16720 \fi \lstlisting}%
16721 }{%
16722 \ifx #1t%
16723 \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16724 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16725 \expandafter\refstepcounter
16726 \fi \lstlisting}%
16727 \bidilst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
16728 }{}%
16729 \bidilst@patchcmd{\lst@MakeCaption}{%
16730 \addcontentsline{lol}{\lstlisting}%
16731 {\protect\numberline{\thelstlisting}\lst@@caption}%
16732 }{}%

```



```

16733 \begingroup%
16734         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16735         \addcontentsline{lol}{lstlisting}%
16736         {\protect\numberline{\thelstlisting}\lst@@caption}%
16737 \endgroup%
16738 }{}{}%
16739 }
16740 \ApplyPatchIfPackageLoaded{caption}{%
16741   \AtBeginCaption{%
16742     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16743     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16744   }
16745   \let\bidi@lst@makecaption\caption@makecaption%
16746   \def\lst@makecaption{\caption@starfalse\bidi@lst@makecaption}%
16747   \def\lst@maketitle{\caption@startrue\bidi@lst@makecaption\empty}%
16748 }{}%
16749 \AtBeginDocument{%
16750   \@ifundefined{captionlabelfalse}{}{}%
16751   \def\lst@maketitle{\captionlabelfalse\bidi@lst@makecaption\empty}%
16752   \@ifundefined{caption@startrue}{}{}%
16753   \def\lst@maketitle{\caption@startrue\bidi@lst@makecaption\empty}%
16754 }{}%
16755 }
16756 \AtBeginDocument{
16757   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
16758   \lst@ifnumberbychapter
16759     \gdef\thelstlisting%
16760     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
16761   \else
16762     \gdef\thelstlisting{\@arabic\c@lstlisting}
16763   \fi}

```

## 111 File longtable-xetex-bidi.def

```

16764 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
16765 \ExplSyntaxOn
16766 \def\LT@array[#1]#2{%
16767   \UseTaggingSocket{tbl/init}
16768   \tl_if_empty:eTF { \LTcatype }
16769   {
16770     \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
16771   }
16772   {
16773     \@kernel@refstepcounter{\LTcatype}\stepcounter{LT@tables}
16774     \tl_gset:Ne \@currentHref {\LTcatype.\cs_if_exist_use:c {theH\LTcatype}}
16775   }
16776   \tbl_gzero_row_count:
16777   \UseTaggingSocket{tbl/longtable/init}
16778   \if l#1%
16779     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
16780   \else\if r#1%
16781     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
16782   \else\if c#1%
16783     \LTleft\fill \LTright\fill

```



```

16784 \fi\fi\fi
16785 \let\LT@ncol\multicolumn
16786 \let\LT@@tabarray\@tabarray
16787 \let\LT@@hl\hline
16788 \def\@tabarray{%
16789   \let\hline\LT@@hl
16790   \LT@@tabarray}%
16791 \let\\LT@tabularcr
16792 \let\tabularnewline\\%
16793 \def\newpage{\noalign{\break}}%
16794 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
16795 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
16796 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
16797 \@tempdima\ht\strutbox
16798 \let\@endpbox\LT@endpbox
16799 \ifx\extrarowheight\@undefined
16800   \let\@acol\@tabacol
16801   \let\@classz\@tabclassz \let\@classiv\@tabclassiv
16802   \def\@startpbox{\vtop\LT@startpbox}%
16803   \let\@@startpbox\@startpbox
16804   \let\@@endpbox\@endpbox
16805   \let\LT@LL@FM@cr\@tabularcr
16806 \else
16807   \advance\@tempdima\extrarowheight
16808   \col@sep\tabcolsep
16809   \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
16810 \fi
16811 \setbox\@arstrutbox\hbox{\vrule
16812   \@height \arraystretch \@tempdima
16813   \@depth \arraystretch \dp \strutbox
16814   \@width \z@}%
16815 \let\@sharp##\let\protect\relax
16816 \begingroup
16817 \mkpream{#2}%
16818 \tbl_count_table_cols:
16819 \xdef\LT@bchunk{%
16820   \tbl_inbetween_rows:
16821     \global\advance\c@LT@chunks\@ne
16822     \global\LT@rows\z@\setbox\z@\vbox\bgroup
16823     \LT@setprevdepth
16824     \tabskip\LTleft \noexpand\halign to\hsize\bgroup
16825     \tabskip\z@ \@arstrut
16826     \UseTaggingSocket{tbl/row/begin}%
16827     \tbl_init_cell_data_for_row:
16828     \@preamble \tabskip\LTRight \cr}%
16829 \endgroup
16830 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
16831 \LT@make@row
16832 \m@th\let\par\@empty
16833 \everycr{%
16834   \noalign{%
16835     \tbl_trace:n {--longtable-->~chunk~row:~ \the\LT@rows \space
16836       row:~ \the\g__tbl_row_int \space
16837       column:~ \the\g__tbl_col_int

```



```

16838     }
16839     \tbl_if_row_was_started:T
16840     {
16841         \UseTaggingSocket{tbl/row/end}
16842         \tbl_inbetween_rows:
16843     }
16844     \int_compare:nNtT \LT@rows < \LTchunksize
16845     { \tbl_gincr_row_count: } % next is row about to start
16846 }%
16847 }%
16848 \lineskip\z@\baselineskip\z@
16849 \LT@bchunk}
16850 \ExplSyntaxOff
16851 \def\LT@makecaption#1#2#3{%
16852   \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
16853     \reset@font
16854     \sbox\@tempboxa{\ifRTL\beginR\fi#1{#2: }#3\ifRTL\endR\fi}%
16855     \ifdim\wd\@tempboxa>\hsize
16856       #1{#2: }#3%
16857     \else
16858       \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
16859     \fi
16860     \endgraf\vskip\baselineskip}%
16861   \hss}}}%
16862 \ApplyPatchCodeToPackage{caption}{%
16863   \renewcommand\LT@makecaption[3]{%
16864     \caption@LT@make{%
16865       \caption@LT@settype\LTcaptype
16866       \caption@LT@setup
16867       \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
16868       \caption@startrue#1\caption@starfalse
16869       \caption@prepare@stepcounter\LTcaptype
16870       \caption@begin\LTcaptype
16871       \caption@normalsize
16872       \vskip-\ht\strutbox
16873       \caption@ifdefined\FBifcapttop{%
16874         \let\caption@belowskip\@empty}{}%
16875       \caption@make@above
16876       \caption@@make{#2}{#3}\endgraf
16877       \caption@make@below
16878       \caption@end}}}%
16879 }
16880 \def\LT@startpbox#1{%
16881   \bgroup
16882   \color@begingroup
16883   \let\@footnotetext\LT@p@fnttext
16884   \let\@LTRfootnotetext\LT@p@LTRfnttext
16885   \let\@RTLfootnotetext\LT@p@RTLfnttext
16886   \setlength\hsize{#1}%
16887   \@arrayparboxrestore
16888   \everypar{%
16889     \vrule \@height \ht\@arstrutbox \@width \z@
16890     \everypar{}}}%
16891 }

```



```

16892 \long\def\LT@p@LTRftntext#1{%
16893   \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}\%
16894   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16895 \long\def\LT@p@RTLftntext#1{%
16896   \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}\%
16897   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16898 \def\LT@output{%
16899   \ifnum\outputpenalty <-\@Mi
16900     \ifnum\outputpenalty > -\LT@end@pen
16901       \LT@err{floats and marginpars not allowed in a longtable}\@ehc
16902     \else
16903       \setbox\z@\vbox{\unvbox\@cclv}%
16904       \ifdim \ht\LT@lastfoot>\ht\LT@foot
16905         \dimen@\pagegoal
16906         \advance\dimen@\ht\LT@foot
16907         \advance\dimen@-\ht\LT@lastfoot
16908         \ifdim\dimen@<\ht\z@
16909           \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
16910           \@makecol
16911           \@outputpage
16912           \global\vsizel\@colroom
16913           \setbox\z@\vbox{\box\LT@head}%
16914         \fi
16915       \fi
16916       \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16917       \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
16918       \UseTaggingSocket{tbl/longtable/foot}
16919       \if@RTLtab\egroup\endR\egroup\fi
16920     \fi
16921   \else
16922     \setbox\@cclv\vbox{%
16923       \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16924       \unvbox\@cclv\copy\LT@foot\vss
16925       \if@RTLtab\egroup\endR\egroup\fi
16926     }%
16927     \UseTaggingSocket{tbl/longtable/foot}
16928     \@makecol
16929     \@outputpage
16930     \global\vsizel\@colroom
16931     \copy\LT@head\nobreak
16932   \fi}

```

## 112 File `lscapexetex-bidi.def`

```

16933 \ProvidesFile{lscapexetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscapex package for
16934 \RequirePackage{graphicx}
16935 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
16936   \if@RTL
16937     \rotatebox[origin=br]{-90}{\box\@outputbox}%
16938   \else
16939     \rotatebox{90}{\box\@outputbox}%
16940   \fi
16941 }{}{}
16942

```



```

16943 \g@addto@macro{\landscape}{%
16944   \if@bidi@csdef{bidi@columnwidth}{%
16945     \bidi@columnwidth\columnwidth
16946   }-%
16947   \let\bidi@left@footnoterule\left@footnoterule
16948   \let\bidi@right@footnoterule\right@footnoterule
16949   \def\left@footnoterule{%
16950     \if@RTL
16951       \bidi@right@footnoterule
16952     \else
16953       \bidi@left@footnoterule
16954     \fi
16955   }%
16956   \def\right@footnoterule{%
16957     \if@RTL
16958       \bidi@left@footnoterule
16959     \else
16960       \bidi@right@footnoterule
16961     \fi
16962   }%
16963 }

```

### 113 File `mathtools-xetex-bidi.def`

```

16964 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
16965 \RequirePackage{graphicx}
16966 \MHInternalSyntaxOn
16967 \def\MT_define_tagform:nwnn #1[#2]#3#4{
16968   \@namedef{MT_tagform_#1:n}##1
16969   {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@@italiccorr#4}
16970 }
16971 \renewtagform{default}{\{()\}}
16972 \MHInternalSyntaxOff

```

### 114 File `mdframed-xetex-bidi.def`

```

16973 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
16974 \newif\if@bidi@mdf@RTL
16975 \def\mdf@lrbox#1{%
16976   \mdf@patchamsthm%patch amsthm
16977   \if@RTL\@bidi@mdf@RTLtrue\fi%
16978   \@RTLfalse%
16979   \setbox#1\vbox\bgroup%
16980     \color@begingroup%
16981     \if@bidi@mdf@RTL\@RTLtrue\fi%
16982     \mdf@horizontalmargin@equation%
16983     \columnwidth=\hsize%
16984     \textwidth=\hsize%
16985     \let\if@nobreak\iffalse%
16986     \let\if@noskipsec\iffalse%
16987     \let\par\@@par%
16988     \let\-\@dischyp%
16989     \let'\@acci\let\`@accii\let=\@acciii%
16990     \parindent\z@ \parskip\z@skip%

```



```

16991 \linewidth\hsize%
16992 \@totalleftmargin\z@%
16993 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
16994 \parfillskip\@flushglue \lineskip\normallineskip%
16995 \baselineskip\normalbaselineskip%
16996 %% \sloppy%
16997 \let\\\@normalcr%
16998 \mdf@par@local%New feature to restore parskip/parindent local in save box
16999 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
17000 \@afterindentfalse%
17001 %\@afterheading%
17002 }
17003 \renewrobustcmd\mdfframetitleenv[1]{%
17004 \mdf@lrbox{\mdf@frametitlebox}%
17005 \mdf@frametitlealignment%
17006 \leavevmode{\color{\mdf@frametitlefontcolor}%
17007 \normalfont\mdf@frametitlefont{#1}
17008 \ifbool{mdf@ignorelastdescenders}%
17009 {%
17010 \par\strut\par
17011 \unskip\unskip\setbox0=\lastbox
17012 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
17013 }{}}%
17014 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
17015 \endmdf@lrbox\relax%
17016 \mdf@ignorevbadness%
17017 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
17018 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
17019 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
17020 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
17021 \mdfframetitleboxtotalheight=\dimexpr
17022 \ht\mdf@frametitlebox
17023 +\dp\mdf@frametitlebox%
17024 +\mdf@frametitleaboveskip@length
17025 +\mdf@frametitlebelowskip@length
17026 \relax%
17027 }
17028
17029 \renewrobustcmd*\mdf@footnoteoutput{%
17030 \ifvoid\@mpfootins\else%
17031 \nobreak%
17032 \vskip\mdf@footnotedistance@length%
17033 \normalcolor%
17034 \bidi@mpfootnoterule%
17035 \unvbox\@mpfootins%
17036 \fi%
17037 }
17038
17039
17040 \renewrobustcmd*\mdf@footnoteinput{%
17041 \def\@mpfn{mpfootnote}%
17042 \def\thempfn{\thempfootnote}%
17043 \c@mpfootnote\z@%
17044 \let\@footnotetext\@mpfootnotetext%

```



```

17045 \let\@LTRfootnotetext\@mpLTRfootnotetext%
17046 \let\@RTLfootnotetext\@mpRTLfootnotetext%
17047 }

```

## 115 File media9-xetex-bidi.def

```

17048 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
17049 \RequirePackage{bidi-media9}

```

## 116 File bidi-media9.sty

```

17050 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
17051 {bidi fixes for media9 package for the XeTeX engine}
17052
17053 \keys_define:nn{media9/mbtn}{
17054   draft .code:n = {},
17055   final .code:n = {},
17056
17057   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
17058   tooltip .value_required:n = {true},
17059
17060   overface .code:n = {
17061     \sbox\l_mix_poster_box{
17062       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17063       \mix_pdfxform:n{\l_mix_poster_box}
17064       \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
17065     },
17066     overface .value_required:n = {true},
17067
17068     downface .code:n = {
17069       \sbox\l_mix_poster_box{
17070         \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17071         \mix_pdfxform:n{\l_mix_poster_box}
17072         \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
17073       },
17074       downface .value_required:n = {true},
17075
17076       3Dgotoview .code:n = {
17077         \tl_set:Nx\l_tmpa_tl{#1} %extract ref
17078         \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl
17079         \tl_trim_spaces:N\l_tmpa_tl
17080         \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17081           \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17082             \tl_set:Nx\l_tmpb_tl{#1} %extract idx
17083             \regex_replace_once:nnN{[~:~]+:??}{\1}\l_tmpb_tl
17084             \tl_trim_spaces:N\l_tmpb_tl
17085             \tl_if_blank:VF\l_tmpb_tl{
17086               \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
17087                 \tl_set:Nx\l_mix_vidx_tl{/}\l_tmpb_tl
17088               }{
17089                 \regex_match:nVTF{^[d+}$]\l_tmpb_tl{
17090                   \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl
17091                 }{
17092                   \regex_replace_once:nnN{^(\s*)}{\1}\l_tmpb_tl

```





```

17093         \regex_replace_once:nnN{\s*\)}{\}\l_tmpb_tl
17094         \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
17095     }
17096 }
17097 }
17098 \mix_pdfobj:nnn{{dict}}{
17099     /S/JavaScript/JS~(
17100     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17101     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17102         annotRM['\l_tmpa_tl']=
17103         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17104     }
17105     annotRM['\l_tmpa_tl'].activated=true;
17106 )
17107 \tl_if_blank:VF\l_tmpb_tl{
17108     /Next~<<
17109     /S/GoTo3DView
17110     /TA~\tl_use:c{ann@\l_tmpa_tl}
17111     /V\l_mix_vidx_tl
17112     >>
17113 }
17114 }
17115 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17116 }
17117 ){
17118     \msg_warning:nx{media9}{undefined~reference}{\l_tmpa_tl}
17119     \cs_if_exist:NF\g_mix_refundefwarned_tl{
17120         \tl_new:N\g_mix_refundefwarned_tl
17121         \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17122     }
17123 }
17124 },
17125 3Dgotoview .value_required:n = {true},
17126
17127 mediacommand .code:n = {
17128     \tl_set:Nx\l_tmpa_tl{#1}
17129     \regex_replace_once:nnN{([^\:]+):??.*}{\1}\l_tmpa_tl %extract ref
17130     \tl_trim_spaces:N\l_tmpa_tl
17131     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17132         \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17133             \tl_set:Nx\l_tmpb_tl{#1}
17134             \regex_replace_once:nnN{[^\:]+\:?.*}{\1}\l_tmpb_tl
17135             \tl_trim_spaces:N\l_tmpb_tl
17136             \regex_replace_all:nnN{^{\|\\}$}{\}\l_tmpb_tl
17137             \tl_set:Nx\l_mix_cmd_tl{
17138                 \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
17139             \tl_trim_spaces:N\l_mix_cmd_tl
17140             \tl_set:Nx\l_mix_arg_tl{
17141                 \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
17142             \tl_trim_spaces:N\l_mix_arg_tl
17143             \mix_pdfobj:nnn{{dict}}{
17144                 /S/JavaScript/JS~(
17145                 if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17146                 if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){

```



```

17147         annotRM['\l_tmpa_tl']=
17148         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17149     }
17150     annotRM['\l_tmpa_tl'].activated=true;
17151 )
17152 \tl_if_blank:VF\l_mix_cmd_tl{
17153     /Next~<<
17154     /S/RichMediaExecute
17155     /TA~\tl_use:c{ann@\l_tmpa_tl}
17156     /TI~\tl_use:c{main@\l_tmpa_tl}
17157     /CMD~<<
17158     /C~(\l_mix_cmd_tl)
17159     \tl_if_blank:VF\l_mix_arg_tl{
17160         /A~[\l_mix_arg_tl]
17161     }
17162     >>
17163     >>
17164 }
17165 }
17166 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17167 }
17168 }{
17169     \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17170     \cs_if_exist:NF\g_mix_refundefwarned_tl{
17171         \tl_new:N\g_mix_refundefwarned_tl
17172         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17173     }
17174 }
17175 },
17176 mediacommand .value_required:n = {true},
17177
17178 jsaction .code:n = {
17179     \tl_set:Nx\l_tmpa_tl{#1}
17180     \regex_match:nVTF{^[^:]{+}.*$}\l_tmpa_tl{
17181         \regex_replace_once:nnN{([:]{+})??.*}{\1}\l_tmpa_tl %extract ref
17182         \tl_trim_spaces:N\l_tmpa_tl
17183     }{\tl_clear:N\l_tmpa_tl}
17184     \tl_set:Nx\l_tmpb_tl{#1}
17185     \tl_if_blank:VF\l_tmpa_tl{
17186         \tl_if_exist:cF{ann@\l_tmpa_tl}{
17187             \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17188             \cs_if_exist:NF\g_mix_refundefwarned_tl{
17189                 \tl_new:N\g_mix_refundefwarned_tl
17190                 \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17191             }
17192         }
17193         \regex_replace_once:nnN{^[^:]{+}\:}{\1}\l_tmpb_tl
17194     }
17195     \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
17196     \tl_trim_spaces:N\l_tmpb_tl
17197     \tl_if_blank:VF\l_tmpb_tl{
17198         \mix_pdfobj:nnn{}{dict}{
17199             /S/JavaScript/JS~(
17200                 try{\l_tmpb_tl}catch(e){console.show();console.println(e)})}}

```



```

17201 \bool_lazy_and:nnT{
17202   \tl_if_exist_p:c{ann@\l_tmpa_tl}
17203 }{
17204   !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17205 }{
17206   \mix_pdfobj:nnn{}{dict}{
17207     /S/JavaScript/JS~(
17208       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17209       if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17210         annotRM['\l_tmpa_tl']=
17211           this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17212       }
17213       annotRM['\l_tmpa_tl'].activated=true;
17214     )
17215     \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
17216   }
17217 }
17218 \bool_if:nT{
17219   \bool_lazy_and_p:nn{
17220     \tl_if_exist_p:c{ann@\l_tmpa_tl}
17221   }{
17222     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17223   }
17224   || !\tl_if_blank_p:V\l_tmpb_tl
17225 }{
17226   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17227 }
17228 },
17229 jsaction .value_required:n = {true},
17230
17231 unknown .code:n = {
17232   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
17233 }
17234 }
17235
17236 \RenewDocumentCommand\includemedia{0}{mm}{%#1 options, #2 text/image #3 media file
17237   \mix_urriend:
17238   \group_begin:
17239   \mix_beginLTR:
17240   \mode_leave_vertical:
17241   %empty stream as appearance dummy
17242   \cs_if_exist:NF\g_mix_appearance_tl{
17243     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
17244     \mix_pdfxform:n{\l_mix_poster_box}
17245     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
17246   }
17247   \mix_reset:
17248   \mix_uribegin: %treat URI characters correctly
17249   \keys_set:nn{media9/user}{#1}
17250   \mix_urriend:
17251   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
17252   \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
17253   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
17254   \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}

```



```

17255 \tl_gtrim_spaces:N\g_mix_flashvars_tl
17256
17257 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
17258
17259 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
17260 %\hbox_set:Nn\l_mix_poster_box{#2}
17261 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17262 \mix_scale:n{\l_mix_poster_box}
17263 \bool_if:nT{
17264   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
17265   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
17266 }{
17267   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
17268 }
17269 \bool_if:NTF\g_mix_usrdraft_bool{
17270   \tl_if_empty:NF\g_mix_usrlabel_tl{
17271     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
17272   }
17273   \tl_if_blank:oTF{#2}{
17274     \mix_uribegin: %treat URI characters correctly
17275     \mix_draftbox:n{\tl_to_str:n{#3}}
17276     \mix_uriend:
17277   }{
17278     \hbox_to_wd:nn{\g_mix_wd_tl}{
17279       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
17280       \box_use:N\l_mix_poster_box\hss
17281     }
17282   }
17283 }{
17284   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
17285     %attach script that switches off play button overlay upon activation
17286     \mix_pdfobj:nnn{}{stream}{
17287       }{
17288         var=ocgs=host.getOCGs(host.pageNum);
17289         for(var~i=0;i<ocgs.length;i++){
17290           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17291             ocgs[i].state=false;
17292           }
17293         }
17294       }
17295     }
17296     \mix_pdfobj:nnn{}{dict}{
17297       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
17298     }
17299     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
17300     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
17301     %enforce plain playbutton overlay for XeTeX
17302     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
17303   }
17304   %embed main asset
17305   \mix_uribegin:
17306   \mix_embedasset:n{#3}
17307   \bool_if:nTF{
17308     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}

```



```

17309   }{
17310       \bool_gset_true:N\g_mix_iiid_bool
17311       \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
17312   }{
17313       \str_case_e:nnF{\l_mix_base_tl}{
17314           {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17315           {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17316           {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17317           {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17318           {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17319       }\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
17320   }
17321   \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
17322   \mix_uriend:
17323   %secondary assets (added by addresource)
17324   \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
17325   \seq_map_inline:Nn\g_mix_script_seq{
17326       \mix_embedasset:n{##1}
17327       \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
17328   }
17329   %attach 3D calculation script
17330   \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
17331       \mix_embedasset:n{3Dmenu.js}
17332       \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
17333   }
17334   %create 3D views from file (option 3Dviews)
17335   \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
17336       \tl_set:Nn\l_mix_level_tl{-1}
17337       \int_zero:N\l_mix_viewcnt_int
17338       \int_zero:N\l_mix_lineno_int
17339
17340       \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
17341       \ior_map_inline:Nn\l_mix_vfile_stream{
17342           \int_incr:N\l_mix_lineno_int
17343           \keys_set:nn{media9/views}{##1} %process input line
17344       }
17345       \ior_close:N\l_mix_vfile_stream
17346   }
17347   \bool_if:nT{ %create default 3D view if required
17348       \g_mix_iiid_bool &&
17349       (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
17350   }{
17351       \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
17352       \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
17353       \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
17354       \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
17355       \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
17356       \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
17357       \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
17358
17359       \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
17360       \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
17361       \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
17362       \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp

```



```

17363
17364 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
17365 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
17366 \tl_clear:N\l_mix_naarray_tl
17367
17368 \bool_if:NF\l_mix_ciiw_bool{
17369   \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
17370   \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
17371 }
17372
17373 \tl_clear:N\l_mix_naarray_tl
17374 \tl_clear:N\l_mix_saarray_tl
17375 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
17376
17377 \mix_view:n{Default}
17378 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
17379
17380 }
17381 \mix_pdfobj:nnn{}{dict}{
17382   /Type/RichMediaInstance
17383   /Subtype/\g_mix_mainassetsub_tl
17384   /Asset~\g_mix_mainasset_tl
17385   \bool_if:NF\g_mix_iiid_bool{
17386     /Params~<<
17387     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
17388       /Foreground
17389     }{
17390       /Background
17391     }
17392     \tl_if_blank:VF\g_mix_flashvars_tl{
17393       /FlashVars~(\g_mix_flashvars_tl)
17394     }
17395     >>
17396   }
17397 }
17398 \tl_if_empty:NF\g_mix_usrlabel_tl{
17399   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
17400 }
17401 \mix_pdfobj:nnn{}{dict}{
17402   /Type/RichMediaConfiguration
17403   /Subtype/\g_mix_mainassetsub_tl
17404   /Instances~[\mix_pdflastobj:]
17405 }
17406 \mix_pdfobj:nnn{}{dict}{
17407   /Type/RichMediaContent
17408   /Assets~<</Names~[\g_mix_assets_tl]>>
17409   /Configurations~[\mix_pdflastobj:]
17410   \bool_if:nTF{
17411     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
17412   }{
17413     /Views~[\l_mix_iiidviewarray_tl]
17414   }
17415 }
17416 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}

```



```

17417 \bool_if:nT{
17418   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
17419 }{
17420   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
17421 }
17422 %determine floating window size
17423 \bool_if:NT\g_mix_opt_windowed_bool{
17424   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
17425 }
17426 \mix_pdfobj:nnn{}{dict}{
17427   /Activation~<<
17428   /Condition\g_mix_act_tl
17429   \bool_if:nT{
17430     \g_mix_iiid_bool &&
17431     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
17432   }{%seems to work only with 3D content
17433     /Animation~<<
17434     /Subtype/\g_mix_playtpe_tl
17435     /PlayCount~\g_mix_playcnt_tl
17436     /Speed~\g_mix_playspd_tl
17437     >>
17438   }
17439   \bool_if:nT{
17440     \g_mix_iiid_bool && (
17441       \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
17442     )
17443   }{/View~\l_mix_dfltview_tl}
17444   /Presentation~<<
17445   /Transparent~\g_mix_transp_tl
17446   \bool_if:NTF\g_mix_opt_windowed_bool{
17447     /Style/Windowed
17448   }/Window~<<
17449     /Width~<</Default~\tl_mix_fltd>>
17450     /Height~<</Default~\tl_mix_flht>>
17451     /Position~<<
17452     /HOffset~0/VOffset~0
17453     \str_case_e:nnF{\g_mix_winpos_tl}{
17454       {tl}{/VAlign/Near/HAlign/Near}
17455       {cl}{/VAlign/Center/HAlign/Near}
17456       {bl}{/VAlign/Far/HAlign/Near}
17457       {bc}{/VAlign/Far/HAlign/Center}
17458       {br}{/VAlign/Far/HAlign/Far}
17459       {cr}{/VAlign/Center/HAlign/Far}
17460       {tr}{/VAlign/Near/HAlign/Far}
17461       {tc}{/VAlign/Near/HAlign/Center}
17462     }{/HAlign/Center/VAlign/Center}
17463     >>
17464   >>
17465   }{
17466     /Style/Embedded
17467   }
17468   \bool_if:NTF\g_mix_iiid_bool{
17469     /Toolbar~\g_mix_tools_tl
17470     /NavigationPane~\g_mix_nav_tl

```



```

17471         }{
17472         /PassContextClick~\g_mix_contextclick_tl
17473         }
17474         >>
17475         \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
17476         >>
17477         /Deactivation~<</Condition\g_mix_deact_tl>>
17478     }
17479     \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
17480     \tl_if_empty:NF\g_mix_usrlabel_tl{
17481         \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
17482     }
17483     % #1:width, #2:height, #3:depth, #4:content (key-value)
17484     \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
17485         /Subtype/RichMedia
17486         /F~4
17487         /BS~<</W~0/S/S>>
17488         /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
17489         /NM~(\g_mix_label_tl)
17490         /AP~<</N~\g_mix_appearance_tl>>
17491         /RichMediaSettings~\l_mix_settings_tl
17492         /RichMediaContent~\l_mix_content_tl
17493     }
17494     \tl_if_empty:NF\g_mix_usrlabel_tl{
17495         \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
17496         \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
17497             \noexpand\the\g@mix@page@int}
17498     }
17499     \mix_pdfobj:nnn{}{dict}{
17500         /S/JavaScript/JS~(
17501         try{
17502             if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17503             if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
17504                 annotRM['\g_mix_label_tl']=
17505                 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
17506             }
17507             \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
17508                 if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
17509                     var~ocgs=this.getOCGs(this.pageNum);
17510                     for(var~i=0;i<ocgs.length;i++){
17511                         if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
17512                             var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
17513                         }
17514                     }
17515                 }
17516                 if(
17517                     !annotRM['\g_mix_label_tl'].activated&&(
17518                         app.viewerType=='Reader' ||
17519                         app.viewerType=='Exchange' ||
17520                         app.viewerType=='Exchange-Pro'
17521                     )&&app.viewerVersion>=9
17522                 ){
17523                     ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
17524                 }

```





```

17525     }
17526     }catch(e){}
17527     this.dirty=false;
17528   )
17529 }
17530 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
17531   /Subtype/Widget
17532   /FT/Btn/Ff~65537/F~2
17533   /BS~<</W~0>>
17534   /T~(fd@g_mix_label_tl)
17535   /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
17536 }
17537 \mix_appendtofields:n{\mix_pdflastann:}
17538 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
17539 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
17540   \hbox_to_wd:nn{\g_mix_wd_tl}{
17541     \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
17542   }
17543 }{%insert play button overlay
17544   \mix_insert_btnocg: %create OCG
17545   \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@g_mix_usrpbtn_tl @tl}
17546   \group_begin:
17547   \cs_if_exist:NT\textdir{\textdir TLT}
17548   \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
17549   \box_move_down:nn{\g_mix_dp_tl}{
17550     \hbox_to_wd:nn{\g_mix_wd_tl}{
17551       \vbox_to_ht:nn{\g_mix_tt_tl}{
17552         \vss
17553         \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
17554         \box_use:N\l_mix_pbtn_box
17555         \ocgbase_oc_emc:
17556       }
17557     }
17558   }
17559   \group_end:
17560 }
17561 \int_gincr:N\g_mix_rmcnt_int
17562 }
17563 \mix_endLTR:
17564 \group_end:
17565 }
17566 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
17567 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
17568
17569 \RenewDocumentCommand\mediabutton{0}{m}{%#1 options, #2 normal button text
17570   \mix_uribegin:
17571   \group_begin:
17572   \mix_beginLTR:
17573   \mode_leave_vertical:
17574   %reset various variables
17575   \tl_gclear:N\g_mix_overbtn_tl
17576   \tl_gclear:N\g_mix_downbtn_tl
17577   \tl_gclear:N\g_mix_btnactions_tl
17578   \tl_gclear:N\g_mix_tooltip_tl

```



```

17579 %process options
17580 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
17581 \mix_uribegin: %treat URI characters correctly
17582 \keys_set:nn{media9/mbtndraft}-{#1} %detect draft/final on first pass
17583 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}-{#1}}
17584 \mix_uriend:
17585 %normal button appearance
17586 %\hbox_set:Nn\l_mix_poster_box{#2}
17587 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17588 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
17589 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
17590 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
17591 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
17592   \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{
17593     \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
17594   \mix_pdfxform:n{\l_mix_poster_box}
17595   \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
17596   %insert widget annotation
17597   \mix_pdfannot:nnnn{\width}{\height}{\depth}{
17598     /Subtype/Widget
17599     /T~(mbtn@int_use:N\g_mix_mbtncnt_int)
17600     \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
17601     /FT/Btn/Ff~65536
17602     \tl_if_empty:NF\g_mix_downbtn_tl{/H/I}{/H/P}
17603     /AP~<<
17604     /N~\g_mix_normalbtn_tl
17605     \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
17606     \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
17607     >>
17608     /MK~<<
17609     /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
17610     /I~\g_mix_normalbtn_tl
17611     \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
17612     \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
17613     >>
17614     /A~<<
17615     /S/JavaScript/JS~(app.focusRect=false;)
17616     %sequence of actions to perform
17617     \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
17618     >>
17619   }
17620   \mix_appendtofields:n{\mix_pdflastann:}
17621   \hbox_to_wd:nn{\width}{
17622     \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
17623   }
17624   \int_gincr:N\g_mix_mbtncnt_int
17625 }
17626 \mix_endLTR:
17627 \group_end:
17628 }
17629 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
17630 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
17631

```



## 117 File memoir-xetex-bidi.def

```

17632 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for Xe
17633 \renewcommand{\keepthetitle}{%
17634   \bsmttitleempty
17635   \global\let\thanks\relax
17636   \global\let\LTRthanks\relax
17637   \global\let\RTLthanks\relax
17638   \global\let\and\relax
17639   \global\let\andnext\relax
17640   \global\let\@thanks\@empty
17641   \global\let\@title\@empty
17642   \global\let\@author\@empty
17643   \global\let\@date\@empty}
17644 \renewcommand{\maketitle}{\par
17645   \begingroup
17646     \bsmarkseries
17647     \def\@makefnmark{\@textsuperscript{%
17648       \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}%
17649     \long\def\@makefntext##1{\makethanksmark ##1}
17650     \if@twocolumn
17651       \ifnum \col@number=\@ne
17652         \@maketitle
17653       \else
17654         \twocolumn[\@maketitle]%
17655       \fi
17656     \else
17657       \ifdim\pagetotal>\z@
17658         \newpage
17659       \fi
17660       \global\@topnum\z@
17661       \@maketitle
17662     \fi
17663     \thispagestyle{title}\@thanks
17664   \endgroup
17665   \bscontmark % \setcounter{footnote}{0}%
17666 }
17667 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
17668 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
17669 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
17670 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
17671 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
17672 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
17673 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
17674 \renewcommand*{\thesubsection}{%
17675   \thesection\@SepMark\@arabic\c@subsection}
17676 \renewcommand*{\thesubsubsection}{%
17677   \thesubsection\@SepMark\@arabic\c@subsubsection}
17678 \renewcommand*{\theparagraph}{%
17679   \thesubsubsection\@SepMark\@arabic\c@paragraph}
17680 \renewcommand*{\thesubparagraph}{%
17681   \theparagraph\@SepMark\@arabic\c@subparagraph}
17682 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
17683 \renewcommand{\theequation}{%

```



```

17684 \ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@equation}
17685 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
17686 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
17687 \ifartopt
17688 \chapterstyle{article}
17689 \counterwithout{figure}{chapter}
17690 \counterwithout{table}{chapter}
17691 \counterwithout{footnote}{chapter}
17692 \counterwithout{equation}{chapter}
17693 \renewcommand{\chaptername}{}
17694 \renewcommand{\maketitlehookb}{%
17695 \vskip -1.5\topsep\vskip -1.5\partopsep}
17696 \renewcommand{\maketitlehookc}{%
17697 \vskip -1.5\topsep\vskip -1.5\partopsep}
17698 \fi
17699 \long\def\@makecaption#1#2{\let\@memtempa\relax
17700 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
17701 \else \def\@memtempa{\vbox to\topskip{}}\fi
17702 \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
17703 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
17704 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
17705 \let\footnote\@contfnote
17706 \let\footnotemark\@contfmark
17707 \ifdim\wd\@tempboxa<\linewidth \centering \fi
17708 \if@contcw
17709 \centering
17710 \parbox{\@contcwidth}{%
17711 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
17712 \fi
17713 \ifdim\wd\@tempboxa<\linewidth
17714 \@contpre
17715 {\@contnfont #1\@contdelim}\@memtempa
17716 {\@contcshortstyle \@conttfont #2\@contfinal\par}
17717 \else
17718 \if@conthang
17719 \sbox\@tempboxa{\@contnfont #1\@contdelim}
17720 \@contpre%
17721 {\@contcstyle\hangindent=\wd\@tempboxa
17722 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
17723 \else
17724 \if@contindent
17725 \@contpre%
17726 {\@contnfont #1\@contdelim}\@memtempa
17727 {\@contcstyle\hangindent=\@contindw
17728 \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
17729 \else
17730 \@contpre%
17731 {\@contnfont #1\@contdelim}\@memtempa
17732 {\@contcstyle \@conttfont #2\@contfinal\par}
17733 \fi
17734 \fi
17735 \fi
17736 \@contpost
17737 \if@contcw

```



```

17738 \par
17739 } % end of the \parbox
17740 \fi
17741 \vskip\belowcaptionskip}
17742 \ApplyPatchCodeToPackage{caption}{%
17743 \AtBeginPackage{caption}{
17744 \ClassWarningNoLine{memoir}{%
17745 You are using the caption package with the memoir \MessageBreak
17746 class. This may cause unexpected or inconsistent \MessageBreak
17747 results if you use any of memoir's captioning facilities}
17748
17749 \long\def\@makecaption##1##2{%
17750 \vskip\abovecaptionskip
17751 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
17752 \ifdim \wd\@tempboxa >\hsize
17753 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
17754 \else
17755 \global \@minipagefalse
17756 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
17757 \fi
17758 \vskip\belowcaptionskip}
17759
17760 \def\caption{%
17761 \ifx\@captive\@undefined
17762 \latexerror{noexpand\caption outside float}\@ehd
17763 \expandafter\@gobble
17764 \else
17765 \refstepcounter\@captive
17766 \expandafter\@firstofone
17767 \fi
17768 {\@dblarg{\@caption\@captive}}%
17769 }
17770
17771 \long\def\@caption##1[##2]##3{%
17772 \par
17773 \addcontentsline{\csname ext###1\endcsname}{##1}%
17774 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
17775 \begingroup
17776 \parboxrestore
17777 \if@minipage
17778 \setminipage
17779 \fi
17780 \normalsize
17781 \@makecaption{\csname fnum###1\endcsname}{\ignorespaces ##3}\par
17782 \endgroup}
17783 }}
17784 \renewenvironment{thebibliography}[1]{%
17785 \bibsection
17786 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17787 \bidi@thebibliography@font@hook%
17788 \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

## 118 File midfloat-xetex-bidi.def



```

17789 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
17790 \def\RTL@outputdblcol{%
17791   \if@firstcolumn
17792     \global \@firstcolumnfalse
17793     \global\setbox\@leftcolumn\copy\@outputbox
17794     \splitmaxdepth\maxdimen
17795     \vbadness\maxdimen
17796     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17797     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17798     \toks@\expandafter{\topmark}%
17799     \xdef\@firstcoltopmark{\the\toks@}%
17800     \toks@\expandafter{\splitfirstmark}%
17801     \xdef\@firstcolfirstmark{\the\toks@}%
17802     \ifx\@firstcolfirstmark\@empty
17803       \global\let\@setmarks\relax
17804     \else
17805       \gdef\@setmarks{%
17806         \let\firstmark\@firstcolfirstmark
17807         \let\topmark\@firstcoltopmark}%
17808     \fi
17809     \global\c@colht\@colht\global\c@addvipersep\z@
17810     \ifnum\jua@sk>0
17811       \remove@strip\jua@sar
17812       \global\@colht\the\jua@pr
17813       \ifdim\right@cor>\z@
17814         \global\advance\@colht by\right@cor
17815       \fi
17816       \global\advance\@colht by\cor@height
17817       \global\cor@height=0pt
17818     \fi
17819     \global\setbox\@rightcolumn\vbox{%
17820 \else
17821   \ifdim\c@colht>\@colht
17822     \@tempdima\@colht
17823     \ifdim\@colht>\z@
17824       \global\setbox\@rightcolumn\vbox{%
17825         \unvbox\@rightcolumn
17826         \vbox to\@tempdima{%
17827           \vskip\c@addvipersep\unvbox\@outputbox}%
17828         \vskip\stripsep
17829         \vrule height\the\jua@ht width 0pt depth 0pt
17830         \vskip\stripsep
17831       }%
17832       \global\c@addvipersep\m@addvipersep
17833     \else
17834       \global\setbox\@rightcolumn\vbox{%
17835         \unvbox\@rightcolumn
17836         \vrule height\the\jua@ht width 0pt depth 0pt
17837         \vskip\stripsep
17838       }%
17839     \fi
17840     \ifnum\jua@sk>0
17841       \remove@strip\jua@sar
17842       \global\@colht\the\jua@pr

```



```

17843         \global\advance\@colht by -\ht\@rightcolumn
17844         \global\advance\@colht by \cor@height
17845         \global\cor@height=0pt
17846     \else
17847         \global\advance\c@colht by -\ht\@rightcolumn
17848         \global\@colht\c@colht
17849     \fi
17850 \else
17851 \global\@firstcolumntrue
17852 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17853     \unvbox\@rightcolumn
17854     \vskip\c@addvipersep
17855     \unvbox\@outputbox
17856 }%
17857 \setbox\@outputbox \vbox {%
17858     \hb@xt@\textwidth {%
17859         \hskip \columnwidth
17860         \hfil
17861         \vrule \@width\columnseprule
17862         \hfil
17863         \hb@xt@\columnwidth {%
17864             \bidi@firstcolumn@status@write%
17865             \box\@leftcolumn \hss}%
17866         \hskip-\textwidth
17867         \hb@xt@\columnwidth {%
17868             \bidi@lastcolumn@status@write%
17869             \box\@outputbox \hss}%
17870         \hskip\columnwidth
17871         \hskip\columnsep}%
17872     }%
17873 \@combinedblfloats
17874 \@setmarks
17875 \@outputpage
17876 \begingroup
17877     \@dblfloatplacement
17878     \@startdblcolumn
17879     \@whiles\if@fcolmade \fi
17880     {\@outputpage
17881     \@startdblcolumn}%
17882 \endgroup
17883 \global\jua@sk=0\global\jua@sar={}%
17884 \global\cor@height\z@\global\c@addvipersep\z@
17885 \fi
17886 \fi
17887 }
17888
17889
17890 \def\LTR@outputdblcol{%
17891     \if@firstcolumn
17892         \global \@firstcolumnfalse
17893         \global\setbox\@leftcolumn\copy\@outputbox
17894         \splitmaxdepth\maxdimen
17895         \vbadness\maxdimen
17896         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%

```



```

17897 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17898 \toks@\expandafter{\topmark}%
17899 \xdef\@firstcoltopmark{\the\toks@}%
17900 \toks@\expandafter{\splitfirstmark}%
17901 \xdef\@firstcolfirstmark{\the\toks@}%
17902 \ifx\@firstcolfirstmark\@empty
17903 \global\let\@setmarks\relax
17904 \else
17905 \gdef\@setmarks{%
17906 \let\firstmark\@firstcolfirstmark
17907 \let\topmark\@firstcoltopmark}%
17908 \fi
17909 \global\c@colht\@colht\global\c@addvipersep\z@
17910 \ifnum\jua@sk>0
17911 \remove@strip\jua@sar
17912 \global\@colht\the\jua@pr
17913 \ifdim\right@cor>\z@
17914 \global\advance\@colht by\right@cor
17915 \fi
17916 \global\advance\@colht by\cor@height
17917 \global\cor@height=0pt
17918 \fi
17919 \global \setbox\@rightcolumn \vbox{%
17920 \else
17921 \ifdim\c@colht>\@colht
17922 \@tempdima\@colht
17923 \ifdim\@colht>\z@
17924 \global\setbox\@rightcolumn \vbox{%
17925 \unvbox\@rightcolumn
17926 \vbox to\@tempdima{%
17927 \vskip\c@addvipersep\unvbox\@outputbox}%
17928 \vskip\stripsep
17929 \vrule height\the\jua@ht width 0pt depth 0pt
17930 \vskip\stripsep
17931 }%
17932 \global\c@addvipersep\m@addvipersep
17933 \else
17934 \global\setbox\@rightcolumn \vbox{%
17935 \unvbox\@rightcolumn
17936 \vrule height\the\jua@ht width 0pt depth 0pt
17937 \vskip\stripsep
17938 }%
17939 \fi
17940 \ifnum\jua@sk>0
17941 \remove@strip\jua@sar
17942 \global\@colht\the\jua@pr
17943 \global\advance\@colht by -\ht\@rightcolumn
17944 \global\advance\@colht by\cor@height
17945 \global\cor@height=0pt
17946 \else
17947 \global\advance\c@colht by-\ht\@rightcolumn
17948 \global\@colht\c@colht
17949 \fi
17950 \else

```





```

17951 \global\@firstcolumntrue
17952 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17953     \unvbox\@rightcolumn
17954     \vskip\c@addvipersep
17955     \unvbox\@outputbox
17956     }%
17957 \setbox\@outputbox \vbox {%
17958     \hb@xt@\textwidth {%
17959         \hb@xt@\columnwidth {%
17960             \bidi@firstcolumn@status@write%
17961             \box\@leftcolumn \hss}%
17962         \hfil
17963         \vrule \width\columnseprule
17964         \hfil
17965         \hb@xt@\columnwidth {%
17966             \bidi@lastcolumn@status@write%
17967             \box\@outputbox \hss}%
17968         }%
17969     }%
17970 \@combinedblfloats
17971 \@setmarks
17972 \@outputpage
17973 \begingroup
17974     \@dblfloatplacement
17975     \@startdblcolumn
17976     \@whiles\if@fcolmade \fi
17977     {\@outputpage
17978     \@startdblcolumn}%
17979 \endgroup
17980 \global\jua@sk=0\global\jua@sar={}%
17981 \global\cor@height\z@\global\c@addvipersep\z@
17982 \fi
17983 \fi
17984 }
17985
17986
17987 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
17988     \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
17989     \hsize\textwidth
17990     \@parboxrestore
17991     \col@number \@ne
17992     \vrule height\topskip width0pt depth0pt
17993 }
17994
17995 \def\endstrip{%
17996     \egroup\egroup
17997     \if@firstcolumn
17998         \ifdim\pagetotal>\z@
17999             \vskip\stripsep
18000             \global\ht@strip\pagegoal
18001             \global\advance\ht@strip by-\pagetotal
18002             \global\advance\ht@strip by-\stripsep
18003             \global\advance\ht@strip by-\ht\@viper
18004             \global\advance\ht@strip by-\stripsep

```



```

18005             \global\jua@ht=\ht\@viper
18006         \else
18007             \global\ht@strip\z@
18008         \fi
18009         \ifdim\ht@strip>\z@
18010             \unvbox\@viper
18011             \vskip\stripsep
18012             \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
18013             \global\advance\jua@sk by1
18014         \else
18015             \@latex@error{Strip needs more place!}\@ehc
18016             \if@vihproof
18017                 \framebox[\columnwidth]{??? Strip ???}%
18018             \fi
18019         \fi
18020     \else
18021         \@latex@error{Strip is used only on left column!}\@ehc
18022         \if@vihproof
18023             \framebox[\columnwidth]{??? Strip ???}%
18024         \fi
18025     \fi
18026 }

```

## 119 File minitoc-xetex-bidi.def

```

18027 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
18028 \def\@undottedtocline#1#2#3#4#5{%
18029     \ifnum #1>\c@tocdepth\relax \else
18030         \vskip \z@ plus.2\p@
18031         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmarg
18032         \parindent #2\relax\@afterindenttrue
18033         \interlinepenalty\@M
18034         \leavevmode
18035         \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}}%
18036         \hskip -\if@RTL\rightskip\else\leftskip\fi
18037         #4\nobreak\hfill \nobreak
18038         \null\par}%
18039     \fi}
18040 \def\@Undottedtocline#1#2#3#4#5{%
18041     \ifnum #1>\c@tocdepth\relax \else
18042         \vskip \z@ \@plus.2\p@
18043         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocma
18044         \parindent #2\relax\@afterindenttrue
18045         \interlinepenalty\@M
18046         \leavevmode
18047         \@tempdima #3\relax
18048         \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
18049         {\coffee font #4}\nobreak \nobreak\null
18050         \par}%
18051     \fi}
18052 \def\@Undottedtoclinep#1#2#3#4#5{%
18053     \ifnum #1>\c@tocdepth\relax \else
18054         \vskip \z@ \@plus.2\p@
18055         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocma

```



```

18056 \parindent #2\relax\@afterindenttrue
18057 \interlinepenalty\@M
18058 \leavevmode
18059 \@tempdima #3\relax
18060 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightrightskip
18061 {#4}\nobreak \hfill \nobreak\null
18062 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
18063 \par}%
18064 \fi}

```

## 120 File multicol-xetex-bidi.def

```

18065 \ProvidesFile{multicol-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for multicol package]
18066 \def\page@sofar{%
18067   \process@cols\mult@rightbox
18068   {\ifvoid\count@
18069     \setbox\count@\hbox to\hsize{%
18070       \else
18071         \wd\count@\hsize
18072       \fi}%
18073   \count@\col@number \advance\count@\m@ne
18074   \mult@info\z@
18075   {Column spec: \the\full@width\space = indent
18076     + columns + sep =\MessageBreak
18077     \the\multicol@leftmargin\space
18078     + \the\col@number\space
18079     x \the\hsize\space
18080     + \the\count@\space
18081     x \the\columnsep
18082   }%
18083   \ifvmode\else\errmessage{Multicol Error}\fi
18084   \nointerlineskip
18085   \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
18086   \moveright\multicol@leftmargin
18087   \hbox to\full@width{%
18088     \bidi@multicol@align@columns
18089     \rlap{\phantom p}%
18090   }%
18091   \prevdepth\z@
18092   \kern-\dimen\tw@
18093   \ifdim\dimen\tw@ > \mc@gridwarn
18094     \PackageWarning{multicol}%
18095       {Very deep columns!\MessageBreak
18096         Grid alignment might be broken}%
18097   \fi
18098 }
18099 \def\LTR@column@boxes{%
18100   \process@cols\mult@firstbox{%
18101     \ifdim\dp\count@>\dimen\tw@
18102       \global\dimen\tw@\dp\count@ \fi
18103     \mc@col@status@write
18104     \box\count@
18105     \hss{\columnseprulecolor\vrule
18106       \@width\columnseprule}\hss}%

```



```

18107 \ifdim\dp\mult@rightbox>\dimen\tw@
18108 \global\dimen\tw@\dp\mult@rightbox \fi
18109 \mc@lastcol@status@write
18110 \box\mult@rightbox
18111 }
18112
18113 \def\RTL@column@boxes{%
18114 \process@cols\mult@firstbox{%
18115 \hskip\hsize
18116 \hss{\columnseprulecolor\vrule
18117 \width\columnseprule}\hss
18118 }%
18119 \hskip\hsize
18120 \process@cols\mult@firstbox{%
18121 \ifdim\dp\count@>\dimen\tw@
18122 \global\dimen\tw@\dp\count@ \fi
18123 \hskip-\hsize
18124 \mc@col@status@write
18125 \box\count@
18126 \hskip-\hsize
18127 \hskip-\columnsep
18128 }%
18129 \ifdim\dp\mult@rightbox>\dimen\tw@
18130 \global\dimen\tw@\dp\mult@rightbox \fi
18131 \hskip-\hsize
18132 \mc@lastcol@status@write
18133 \box\mult@rightbox
18134 \hskip-\hsize
18135 \hskip\full@width
18136 }
18137
18138 \newcommand\RTLMulticolcolumns
18139 {\let\bidimulticol@align@columns
18140 \RTL@column@boxes}
18141 \newcommand\LTRMulticolcolumns
18142 {\let\bidimulticol@align@columns
18143 \LTR@column@boxes}
18144 \newcommand\bidimulticol@align@columns
18145 {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
18146 \bidimulticol@AtEndPreamble{%
18147 \if@bidi@csdef{footinsv@l}{%
18148 \def\footnoterule{\kern-3\p@
18149 \hrule \width \textwidth \kern 2.6\p@}%
18150 }{}}%
18151 }
18152 \def\multicols#1{\col@number#1\relax
18153 \ifnum\col@number<\tw@
18154 \PackageWarning{multicol}%
18155 {Using `\'number\col@number'
18156 columns doesn't seem a good idea.^^J
18157 I therefore use two columns instead}%
18158 \col@number\tw@ \fi
18159 \ifnum\col@number>20
18160 \PackageError{multicol}%

```



```

18161 {Too many columns}%
18162 {Current implementation doesn't
18163 support more than 20 columns.%
18164 \MessageBreak
18165 I therefore use 20 columns instead}%
18166 \col@number20 \fi
18167 \ifx\@footnotetext\mult@footnotetext
18168 \else
18169 \let\orig@footnotetext\@footnotetext
18170 \let\@footnotetext\mult@footnotetext
18171 \fi
18172 \ifx\@LTRfootnotetext\mult@LTRfootnotetext
18173 \else
18174 \let\orig@LTRfootnotetext\@LTRfootnotetext
18175 \let\@LTRfootnotetext\mult@LTRfootnotetext
18176 \fi
18177 \ifx\@RTLfootnotetext\mult@RTLfootnotetext
18178 \else
18179 \let\orig@RTLfootnotetext\@RTLfootnotetext
18180 \let\@RTLfootnotetext\mult@RTLfootnotetext
18181 \fi
18182 \@ifnextchar[\mult@cols{\mult@cols[]}]
18183 \long\def\mult@footnotetext#1{\begingroup
18184 \hsize\textwidth
18185 \columnwidth\textwidth
18186 \orig@footnotetext{#1}\endgroup}
18187 \long\def\mult@LTRfootnotetext#1{\begingroup
18188 \hsize\textwidth
18189 \columnwidth\textwidth
18190 \orig@LTRfootnotetext{#1}\endgroup}
18191 \long\def\mult@RTLfootnotetext#1{\begingroup
18192 \hsize\textwidth
18193 \columnwidth\textwidth
18194 \orig@RTLfootnotetext{#1}\endgroup}
18195 \def\right@footnoterule{%
18196 \kern-3\p@
18197 \nointerlineskip
18198 \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
18199 \kern2.6\p@}
18200 \def\textwidth@footnoterule{\kern-3\p@
18201 \hrule \@width \textwidth \kern 2.6\p@}
18202 \def\bidileave@mult@copyins{%
18203 \advance\dimen@-\skip\@bidi@copyins@
18204 \advance\dimen@-\ht\@bidi@copyins@
18205 }
18206
18207 \bidi@AtEndPreamble{%
18208 \if@bidi@csundef{footinsv01}{%
18209 \bidi@patchcmd{\multi@column@out}{%
18210 \ifvbox \@kludgeins
18211 }{%
18212 \ifvoid\@bidi@copyins@ \else
18213 \bidileave@mult@copyins
18214 \fi

```



```

18215     \ifvbox \@kludgeins
18216     }{}{}%
18217 }{}%
18218 }
18219
18220

```

## 121 File multienum-xetex-bidi.def

```

18221 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
18222 \renewcommand{\itemx}[1]{\parbox[t]{%
18223 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18224 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
18225 \renewcommand{\itemxx}[2]{\parbox[t]{%
18226 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18227 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18228 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18229 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
18230 \renewcommand{\itemxxx}[3]{\parbox[t]{%
18231 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18232 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18233 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18234 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
18235 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18236 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
18237 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
18238 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18239 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18240 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18241 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18242 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18243 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
18244 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18245 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
18246 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
18247 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18248 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
18249 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18250 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
18251 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18252 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
18253 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18254 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
18255 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18256 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
18257 \renewcommand{\itemxox}[2]{\parbox[t]{%
18258 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18259 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18260 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18261 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
18262 \renewcommand{\itemxox}[2]{\parbox[t]{%
18263 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18264 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
18265 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

18266 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
18267 \renewcommand{\itemxox}[3]{\parbox[t]{%
18268 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18269 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18270 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18271 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18272 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18273 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18274 \renewcommand{\itemxox}[3]{\parbox[t]{%
18275 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18276 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18277 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18278 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
18279 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18280 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18281 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
18282 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18283 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18284 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18285 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18286 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18287 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

## 122 File natbib-xetex-bidi.def

```

18288 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
18289 \renewenvironment{thebibliography}[1]{%
18290 \bibsection
18291 \parindent\z@
18292 \bibpreamble
18293 \bibfont
18294 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLBibitems\RTLtrue\else\fi\fi
18295 \bidi@thebibliography@font@hook%
18296 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
18297 \ifNAT@openbib
18298 \renewcommand\newblock{\par}%
18299 \else
18300 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
18301 \fi
18302 \sloppy\clubpenalty4000\widowpenalty4000
18303 \sfcode`\.\@m
18304 \let\NAT@bibitem@first@sw@firstoftwo
18305 \let\citeN\cite \let\shortcite\cite
18306 \let\citeasnoun\cite
18307 }{%
18308 \bibitem@fin
18309 \bibpostamble
18310 \def\@noitemerr{%
18311 \PackageWarning{natbib}{Empty `thebibliography' environment}%
18312 }%
18313 \endlist
18314 \bibcleanup
18315 }%

```



## 123 File newfloat-xetex-bidi.def

```
18316 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
18317 \renewcommand*\newfloat@setwithin[2]{%
18318   \ifcsname c@chapter\endcsname
18319     \@removefromreset{#1}{chapter}%
18320   \fi
18321   \@removefromreset{#1}{section}%
18322   \edef\@tempa{#2}%
18323   \ifx\@tempa\@empty
18324     \def\@tempa{none}%
18325   \fi
18326   \def\@tempb{none}%
18327   \ifx\@tempa\@tempb
18328     \ifcsname c@chapter\endcsname
18329       \@chapterlistsgap@off{#1}%
18330     \fi
18331     \newfloat@@setwithin{#1}{-}{-}%
18332   \else
18333     \def\@tempb{chapter}%
18334     \ifx\@tempa\@tempb
18335       \@addtoreset{#1}{chapter}%
18336       \@chapterlistsgap@on{#1}%
18337       \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
18338     \else
18339       \def\@tempb{section}%
18340       \ifx\@tempa\@tempb
18341         \@addtoreset{#1}{section}%
18342         \ifcsname c@chapter\endcsname
18343           \@addtoreset{#1}{chapter}%
18344           \@chapterlistsgap@on{#1}%
18345           \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
18346       \else
18347         \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
18348       \fi
18349     \else
18350       \newfloat@Error{Invalid value `#2' for option `within'}%
18351     \fi
18352   \fi
18353 \fi}
```

## 124 File nicematrix-xetex-bidi.def

```
18354 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix package]
18355 \ExplSyntaxOn
18356 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
18357   \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
18358   \@tabarray
18359 }{}{}
18360 \ExplSyntaxOff
18361
```

## 125 File nththeorem-xetex-bidi.def





```

18362 \ProvidesFile{ntheorem-xetex-bidi.def}[2025/10/28 v0.2 bidi adaptations for ntheorem package]
18363 \gdef\@thm#1#2#3{%
18364   \if@thmmarks
18365     \stepcounter{end\InTheoType ctr}%
18366   \fi
18367   \renewcommand{\InTheoType}{#1}%
18368   \if@thmmarks
18369     \stepcounter{curr#1ctr}%
18370     \setcounter{end#1ctr}{0}%
18371   \fi
18372   \refstepcounter{#2}%
18373   \theorem@prework
18374   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
18375   \ifvmode \advance\thm@topsepadd\partopsep\fi
18376   \trivlist
18377   \@topsep \theorempreskipamount
18378   \@topsepadd \thm@topsepadd % used by \@endparenv
18379   \advance\linewidth -\theorem@indent
18380   \advance\@totalleftmargin \theorem@indent
18381   \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18382   \ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}]
18383
18384 \gdef\xnthm#1#2[#3]{%
18385   \ifthm@tempif
18386     \expandafter\@ifundefined{c@#1}%
18387       {\@definecounter{#1}}{}%
18388     \@newctr{#1}[#3]%
18389     \expandafter\xdef\csname the#1\endcsname{%
18390       \expandafter\noexpand\csname the#3\endcsname \thmcountersep
18391 %       {\noexpand\csname the\theoremnumbering\endcsname{#1}}}%
18392       \noexpand\csname the\theoremnumbering\endcsname{#1}}}%
18393     \expandafter\gdef\csname mkheader@#1\endcsname
18394       {\csname setparams@#1\endcsname
18395        \@thm{#1}{#1}{#2}}%
18396     \global\@namedef{end#1}{\@endtheorem}\fi}

```

## 126 File ntheorem-hyper-xetex-bidi.def

```

18397 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h]
18398 \gdef\@thm#1#2#3{%
18399   \if@thmmarks
18400     \stepcounter{end\InTheoType ctr}%
18401   \fi
18402   \renewcommand{\InTheoType}{#1}%
18403   \if@thmmarks
18404     \stepcounter{curr#1ctr}%
18405     \setcounter{end#1ctr}{0}%
18406   \fi
18407   \refstepcounter{#2}%
18408   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
18409   \ifvmode \advance\thm@topsepadd\partopsep\fi
18410   \trivlist
18411   \@topsep \theorempreskipamount
18412   \@topsepadd \thm@topsepadd % used by \@endparenv

```



```

18413 \advance\linewidth -\theorem@indent
18414 \advance\@totalleftmargin \theorem@indent
18415 \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18416 \@ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 127 File overpic-xetex-bidi.def

```

18417 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
18418 \renewenvironment{overpic}[2] [] {%
18419 \sbox{z@}{\includegraphics[#1]{#2}}%
18420 \settodepth{\@tempcnta}{\usebox{z@}}%
18421 \settoheight{\@tempcntb}{\usebox{z@}}%
18422 \advance\@tempcntb\@tempcnta%
18423 \settowidth{\@tempcnta}{\usebox{z@}}%
18424 \setlength{\@tempdima}{\unitlength}%
18425 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
18426 %
18427 \OVP@calc%
18428 %
18429 \begin{picture}(\@tempcnta,\@tempcntb)%
18430 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}%
18431 \ifGin@grid%
18432 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18433 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18434 \fi\fi%
18435 % reset the graphics parameter
18436 \let\Gin@outer@scalex\relax
18437 \let\Gin@outer@scaley\relax
18438 \let\Gin@angle\relax
18439 \let\Gin@ewidth\Gin@exclamation
18440 \let\Gin@eheight\Gin@ewidth
18441 \def\Gin@scalex{1}
18442 \let\Gin@scaley\Gin@exclamation
18443 }{%
18444 \if@RTL\ifGin@grid%
18445 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18446 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18447 \fi%
18448 \put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}\fi%
18449 \end{picture}%
18450 }%

```

## 128 File pdfbase-xetex-bidi.def

```

18451 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
18452 \ExplSyntaxOn
18453 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
18454 \cs_set_nopar:Npn\@outputpage{
18455 \int_gincr:N\g_pbs_page_int
18456 \box_if_vertical:cTF{\outputbox}{
18457 \bool_set_true:N\l_pbs_is_vertical_bool
18458 }{
18459 \bool_set_false:N\l_pbs_is_vertical_bool
18460 }

```



```

18461 \hbox_set:Nn\@outputbox{
18462   %begin of page
18463   \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
18464   \box_use_drop:N\@outputbox
18465   %end of page
18466   \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
18467 }
18468 \bool_if:NT\l_pbs_is_vertical_bool{
18469   \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
18470 }
18471 \pbs_outputpage_orig:
18472 }
18473 \ExplSyntaxOff

```

## 129 File pdfscape-xetex-bidi.def

```

18474 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
18475 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
18476   \if@RTL
18477     \PLS@Rotate{-90}%
18478   \else
18479     \PLS@Rotate{90}%
18480   \fi
18481 }{}{}

```

## 130 File pgfcorescopes.code-xetex-bidi.def

```

18482 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
18483 \def\pgfpicture{%
18484   \begingroup%
18485   \ifmmode\else\@RTLfalse\beginL\fi%
18486   \pgfpicturetrue%
18487   \global\advance\pgf@picture@serial@count by1\relax%
18488   \edef\pgfpictureid{\pgfid\the\pgf@picture@serial@count}%
18489   \let\pgf@nodecallback=\pgfutil@gobble%
18490   \pgf@picmaxx=-16000pt\relax%
18491   \pgf@picminx=16000pt\relax%
18492   \pgf@picmaxy=-16000pt\relax%
18493   \pgf@picminy=16000pt\relax%
18494   \pgf@relevantforpicturesizetrue%
18495   \pgf@resetpathsizes%
18496   \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
18497 \def\endpgfpicture{%
18498   \ifpgfrememberpicturepositiononpage%
18499     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
18500   \fi%
18501   % ok, now let's position the box
18502   \ifdim\pgf@picmaxx=-16000pt\relax%
18503     % empty picture. make size 0.
18504     \global\pgf@picmaxx=0pt\relax%
18505     \global\pgf@picminx=0pt\relax%
18506     \global\pgf@picmaxy=0pt\relax%
18507     \global\pgf@picminy=0pt\relax%
18508   \fi%

```



```

18509          % Shift baseline outside:
18510          \pgf@relevantforpicturesizefalse%
18511          \pgf@process{\pgf@baseline}%
18512          \xdef\pgf@shift@baseline{\the\pgf@y}%
18513          %
18514          \pgf@process{\pgf@trimleft}%
18515          \global\advance\pgf@x by-\pgf@picminx
18516          % prepare \hskip\pgf@trimleft@final.
18517          % note that \pgf@trimleft@final is also queried
18518          % by the pgf image externalization.
18519          \xdef\pgf@trimleft@final{-\the\pgf@x}%
18520          %
18521          \pgf@process{\pgf@trimright}%
18522          \global\advance\pgf@x by-\pgf@picmaxx
18523          % prepare \hskip\pgf@trimright@final.
18524          % note that \pgf@trimright@final is also queried
18525          % by the pgf image externalization.
18526          \xdef\pgf@trimright@final{\the\pgf@x}%
18527          %
18528          \pgf@remember@layerlist@globally
18529          \endgroup%
18530          \hss%
18531          \egroup%
18532          \pgf@restore@layerlist@from@global
18533          \pgf@insertlayers%
18534          \endgroup%
18535          \pgfsys@discardpath%
18536          \endgroup%
18537          \pgfsys@endscope%
18538          \pgfsys@endpicture%
18539          \endgroup%
18540          \hss
18541          \egroup%
18542          \pgfsys@typesetpicturebox\pgfpic%
18543          \ifmmode\else\endL\fi%
18544          \endgroup%
18545      }

```

### 131 File pgfsys-xetex-bidi.def

```

18546 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package for
18547 \def\pgfsys@shadingoutsidepgfpicture#1{%
18548   \beginL#1\endL%
18549 }
18550
18551

```

### 132 File picinpar-xetex-bidi.def

```

18552 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
18553 \long\def\@makewincaption#1#2{%
18554   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
18555   \ifdim\wd\@tempboxa>\picwd
18556     {\footnotesize{\bf #1:\enspace}{#2\par}}

```



```

18557 \else
18558 \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
18559 \fi}
18560 \def\endwindow{%
18561 \global\tcd=\tcdsav
18562 \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
18563 \vbadness=10000
18564 \splittopskip=0pt
18565 %
18566 % Typeset the lines above the window
18567 %
18568 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
18569 \tcn=\tcd
18570 \loop\advance\tcn -1
18571 \setbox\fslice=\vsplit\holder to\baselineskip
18572 \prune\fslice\linewidth
18573 \topheight=0pt
18574 \ifnum\dp\fslice>\dp\wstrutbox
18575 \advance\topheight-\dp\fslice
18576 \advance\topheight\dp\wstrutbox
18577 \advance\topheight\ilg\fi
18578 \hbox to\linewidth{\box\fslice}
18579 \vskip-\topheight
18580 \ifdim\ht\holder>0pt\repeat
18581 \fi
18582 %
18583 % Now we build the boxes beside the window
18584 %
18585 \global\topheight=\tcl\baselineskip
18586 \ifnum\cumpartcl>0\global\tcl=\cumtcl
18587 \global\topheight=\vpic
18588 \fi
18589 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
18590 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
18591 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
18592 \tcn=\tcl \na=0 \nb=0
18593 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
18594 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
18595 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
18596 \ifnum\na=0\ifnum\nb=0
18597 \setbox\waslice=\vbox to\vpic{\vss}
18598 \setbox\wbslice=\vbox to\vpic{\vss}
18599 \bl=1\br=1
18600 \vskip\ilg
18601 \fi\fi
18602 %
18603 % both sides
18604 %
18605 \ifnum\na>0 \ifnum\nb>0
18606 \loop\advance\nb -1
18607 \advance\na -1
18608 \if@RTL%
18609 \setbox\bslice=\vsplit\holder to\baselineskip
18610 \prune\bslice\rtside

```



```

18611 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18612 to\rtside{\box\bslice\hfil}}
18613 \setbox\aslice=\vsplit\holder to\baselineskip
18614 \prune\aslice\lftside
18615 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18616 to\lftside{\box\aslice\hfil}}
18617 \else%
18618 \setbox\aslice=\vsplit\holder to\baselineskip
18619 \prune\aslice\lftside
18620 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18621 to\lftside{\box\aslice\hfil}}
18622 \setbox\bslice=\vsplit\holder to\baselineskip
18623 \prune\bslice\rtside
18624 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18625 to\rtside{\box\bslice\hfil}}
18626 \fi%
18627 \ifnum\nb>0\repeat
18628 \fi\fi
18629 %
18630 % only text on the left side
18631 %
18632 \ifnum\na>0
18633   \loop\advance\na -1
18634   \setbox\aslice=\vsplit\holder to\baselineskip
18635   \prune\aslice\lftside
18636   \setbox\waslice=\vbox{\unvbox\waslice\hbox
18637   to\lftside{\box\aslice\hfil}}
18638   \ifdim\ht\holder>0pt\repeat
18639 \fi
18640 %
18641 % only text on the right side
18642 %
18643 \ifnum\nb>0
18644   \loop\advance\nb -1
18645   \setbox\bslice=\vsplit\holder to\baselineskip
18646   \prune\bslice\rtside
18647   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18648   to\rtside{\box\bslice\hfil}}
18649   \ifdim\ht\holder>0pt\repeat
18650 \fi
18651 %
18652 % fixing the dimensions of the window part
18653 %
18654 \ifnum\bl=0\topheight=\ht\wbslice
18655 \else\ifnum\br=0\topheight=\ht\waslice
18656   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
18657   \else\topheight=\ht\wbslice\fi\fi\fi
18658 %
18659 % ship out the window material to the main vertical list
18660 %
18661 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
18662 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
18663 \fi\fi\fi
18664 \setbox>windowbox=\vbox{\hbox to\linewidth{

```



```

18665 \ifnum\bl>0\box\waslice\hfill\fi%
18666 \vbox to\toheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
18667 \vfill\unvbox\picbox%
18668 \ifnum\picwd>0\vfill\fi%
18669 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
18670 \unvbox\windowbox%
18671 \loop
18672 \setbox\bslice=\vsplit\rawtext to\baselineskip
18673 \prune\bslice\linewidth
18674 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
18675 \unvbox\wbslice
18676 \ifdim\ht\rawtext>0pt
18677 \repeat
18678 }% FINITO

```

### 133 File plain-xetex-bidi.def

```

18679 \def\TeXXeTOn{\TeXXeTstate=1 }
18680 \def\TeXXeTOff{\TeXXeTstate=0 }
18681 \TeXXeTOn
18682 \def\usebox#1{\leavevmode\copy #1\relax}
18683 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@
18684 \let\bidi@o@everypar=\everypar
18685 \newtoks\bidi@n@everypar
18686 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
18687 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
18688 \let\everypar=\bidi@n@everypar
18689 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
18690 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
18691 \protected\def\hboxR{\hbox\bgroup
18692 \everyhbox{%
18693 \aftergroup\egroup
18694 \everyhbox{}}%
18695 \beginR
18696 \@hboxRconstructtrue
18697 \bgroup
18698 \aftergroup\endR
18699 \aftergroup\egroup
18700 }\hbox}
18701 \protected\def\hboxL{\hbox\bgroup
18702 \everyhbox{%
18703 \aftergroup\egroup
18704 \everyhbox{}}%
18705 \beginL
18706 \@hboxRconstructfalse
18707 \bgroup
18708 \aftergroup\endL
18709 \aftergroup\egroup
18710 }\hbox}
18711 \protected\def\vboxR{\vbox\bgroup
18712 \everyvbox{%
18713 \aftergroup\egroup
18714 \everyvbox{}}%
18715 \@RTLtrue

```



```

18716 \bgroup
18717 \aftergroup\egroup
18718 }\vbox}
18719 \protected\def\vboxL{\vbox\bgroup
18720 \everyvbox{%
18721 \aftergroup\egroup
18722 \everyvbox{}}%
18723 \@RTLfalse
18724 \bgroup
18725 \aftergroup\egroup
18726 }\vbox}
18727 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
18728 \def\endLTR{\par}
18729 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
18730 \def\endRTL{\par}
18731 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
18732 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
18733 \let\unsetRTL=\setLTR
18734 \let\unsetLTR=\setRTL
18735 \let\LR=\LRE
18736 \let\RL=\RLE
18737 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
18738 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
18739 \let\@ensure@RL=\@ensure@RTL
18740 \let\@ensure@LR=\@ensure@LTR
18741 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
18742 \let\@ensure@maindir=\@ensure@dir
18743 \def\@RTL{RTL}
18744 \def\@LTR{LTR}
18745 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
18746 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
18747 \let\@TeX\TeX
18748 \def\TeX{\@ensure@LTR{\@TeX}}
18749 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
18750 \dimen@=\dp\cclv\unvbox\cclv % open up \box255
18751 \ifvoid\footins\else % footnote info is present
18752 \vskip\skip\footins
18753 \footnoterule
18754 \unvbox\footins\fi
18755 \ifrggedbottom \kern-\dimen@ \vfil \fi
18756 \ifvoid\@bidi@copyins@
18757 \else
18758 \vskip\skip\@bidi@copyins@
18759 \unvbox\@bidi@copyins@
18760 \fi
18761 }
18762 \long\def\bidi@reflect@box#1{%
18763 \leavevmode
18764 \setbox\z@\hbox{#1}}%
18765 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
18766 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
18767 }
18768 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
18769 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}

```





```

18770 \let\setRL=\setRTL
18771 \let\setLR=\setLTR
18772 \let\unsetRL=\setLTR
18773 \let\bidisaved@eqno=\eqno
18774 \let\bidisaved@leqno=\leqno
18775 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@eqno \else \bidisaved@eqno \fi}
18776 \def\leqno{\ifnum\predisplaydirection<\z@ \bidisaved@eqno \else \bidisaved@leqno \fi}
18777 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18778 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18779 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

## 134 File pstricks-xetex-bidi.def

```

18780 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
18781 \bidi@patchcmd\pspicture\beginRgroup{%
18782   \beginRgroup
18783   \ifmmode
18784   \else
18785     \@RTLfalse
18786     \beginL
18787   \fi
18788 }{}{\bidi@warningnoline{Oops! patching `string\pspicture' failed}}
18789
18790 \bidi@patchcmd\endRpicture{%
18791   \endRgroup
18792   \psset[pstricks]{shift=0}% reset value
18793 }{%
18794   \ifmmode
18795   \else
18796     \endL
18797   \fi
18798   \endRgroup
18799   \psset[pstricks]{shift=0}% reset value
18800 }{}{\bidi@warningnoline{Oops! patching `string\endRpicture' failed}}
18801
18802 \bidi@patchcmd\@@scalebox{%
18803   \special{x: bscale \pst@tempc \pst@tempd}%
18804   \hbox to \z@{\box\pst@hbox\hss}%
18805   \special{x: escale}%
18806 }{%
18807   \if@RTL
18808     \special{x: escale}%
18809   \else
18810     \special{x: bscale \pst@tempc \pst@tempd}%
18811   \fi
18812   \hbox to \z@{\box\pst@hbox\hss}%
18813   \if@RTL
18814     \special{x: bscale \pst@tempc \pst@tempd}%
18815   \else
18816     \special{x: escale}%
18817   \fi
18818 }{}{\bidi@warningnoline{Oops! patching `string\@@scalebox' failed}}
18819 \let\ps@@scalebox\@@scalebox
18820

```



## 135 File quotchap-xetex-bidi.def

```

18821 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
18822 \renewcommand{\qauthor}[1]{%
18823   \par\smallskip
18824   {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qqquad\hbox{}\par}\bigskip}
18825 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
18826   {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
18827     {\chapnumfont
18828       \ifnum \c@secnumdepth >\m@ne%
18829       \if@mainmatter\thechapter%
18830       \fi\fi
18831       \par\nobreak}%
18832     {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi\fi
18833     \nobreak\chapterheadendvskip}}
18834 \renewcommand*{\@iprintcites}{%
18835   \vbox to\z@{\leavevmode\copy\@quotebox\vss}
18836   \global\let\@printcites\relax}

```

## 136 File ragged2e-xetex-bidi.def

```

18837 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
18838 \renewcommand{\Centering}{%
18839   \ifx\\ \@raggedtwoe@savedcr
18840     \let\\ @centercr
18841     \fi
18842   \let\@gnewline\@raggedtwoe@gnewline
18843   \if@RTL\righskip\else\leftskip\fi\CenteringLeftskip
18844   \@rightskip\CenteringRightskip
18845   \if@RTL\leftskip\else\righskip\fi\@rightskip
18846   \parfillskip\CenteringParfillskip
18847   \parindent\CenteringParindent
18848   \@raggedtwoe@spaceskiptrue
18849   \@raggedtwoe@everyselectfont
18850 }
18851 \renewcommand{\RaggedLeft}{%
18852   \ifx\\ \@raggedtwoe@savedcr
18853     \let\\ @centercr
18854     \fi
18855   \let\@gnewline\@raggedtwoe@gnewline
18856   \if@RTL\righskip\else\leftskip\fi\RaggedLeftLeftskip
18857   \@rightskip\RaggedLeftRightskip
18858   \if@RTL\leftskip\else\righskip\fi\@rightskip
18859   \parfillskip\RaggedLeftParfillskip
18860   \parindent\RaggedLeftParindent
18861   \@raggedtwoe@spaceskiptrue
18862   \@raggedtwoe@everyselectfont
18863 }
18864 \renewcommand{\RaggedRight}{%
18865   \ifx\\ \@raggedtwoe@savedcr
18866     \let\\ @centercr
18867     \fi
18868   \let\@gnewline\@raggedtwoe@gnewline
18869   \if@RTL\righskip\else\leftskip\fi\RaggedRightLeftskip

```



```

18870 \@rightskip\RaggedRightRightskip
18871 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18872 \parfillskip\RaggedRightParfillskip
18873 \parindent\RaggedRightParindent
18874 \@raggedtwoe@spaceskiptrue
18875 \@raggedtwoe@everyselectfont
18876 }
18877 \renewcommand{\justifying}{%
18878 \let\\@raggedtwoe@savedcr
18879 \let\@gnewline\@raggedtwoe@saved@gnewline
18880 \if@RTL\rightskip\else\leftskip\fi\z@
18881 \@rightskip\z@
18882 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18883 \parfillskip\JustifyingParfillskip
18884 \parindent\JustifyingParindent
18885 \@raggedtwoe@spaceskipfalse
18886 \@raggedtwoe@everyselectfont
18887 }
18888 \def\@raggedtwoe@raggedrightboxes@opt{%
18889 \renewcommand{\@arrayparboxrestore}{%
18890 \let\if@nobreak\iffalse
18891 \let\if@noskipsec\iffalse
18892 \let\par\@par
18893 \let\-\@dischph
18894 \let'\@acci\let`\@accii\let\=\@acciii
18895 \parskip\z@skip
18896 \everypar{%
18897 \linewidth\hsize
18898 \@totalleftmargin\z@
18899 \if@RTL
18900 \RaggedLeft
18901 \else
18902 \RaggedRight
18903 \fi
18904 \lineskip\normallineskip
18905 \baselineskip\normalbaselineskip
18906 \sloppy}%
18907 \let\@raggedtwoe@raggedrightboxes@opt\relax
18908 }
18909 \def\@raggedtwoe@document@opt{%
18910 \AtBeginDocument{\@raggedtwoe@abdhook}%
18911 \@raggedtwoe@raggedrightboxes@opt
18912 \@raggedtwoe@footmisctrue
18913 \let\@raggedtwoe@document@opt\relax
18914 }
18915 \def\@raggedtwoe@abdhook{%
18916 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
18917 right to left documents and '\string\RaggedRight' for left
18918 to right documents}%
18919 \if@RTL
18920 \RaggedLeft
18921 \else
18922 \RaggedRight
18923 \fi

```



```

18924 \ifundefined{@tocrmarg}{\edef\tocrmarg{\tocrmarg plus 2em}}%
18925 \let\@raggedtwoe@abdhook\relax
18926 }
18927 \ifpackagewith{ragged2e}{raggedrightboxes}{%
18928 \@raggedtwoe@raggedrightboxes@opt
18929 }{}
18930 \ifpackagewith{ragged2e}{document}{%
18931 \@raggedtwoe@document@opt
18932 }{}
18933 \let\origin@RaggedLeft=\RaggedLeft
18934 \let\origin@RaggedRight=\RaggedRight
18935 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
18936 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

### 137 File rapport1-xetex-bidi.def

```

18937 \ProvidesFile{rapport1-xetex-bidi.def}[2025/09/30 v0.5 bidi adaptations for rapport1 class f
18938 \renewenvironment{theindex}{%
18939 \if@twocolumn
18940 \@restonecolfalse
18941 \else
18942 \@restonecoltrue
18943 \fi
18944 \columnseprule \z@
18945 \columnsep 35\p@
18946 \twocolumn[\@makeschapterhead{\indexname}]%
18947 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
18948 \thispagestyle{plain}\parindent\z@
18949 \parskip\z@ \@plus .3\p@\relax
18950 \let\item\@idxitem
18951 }{%
18952 \if@restonecol\onecolumn\else\clearpage\fi}
18953 \renewcommand*{\head@style}{%
18954 \interlinepenalty \@M
18955 \hyphenpenalty=\@M \exhyphenpenalty=\@M
18956 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18957 \if@titlepage
18958 \renewenvironment{abstract}{%
18959 \titlepage
18960 \null\vfil
18961 \section*{\SectFont\abstractname}%
18962 \noindent\ignorespaces}
18963 {\par\vfil\null\endtitlepage}
18964 \else
18965 \renewenvironment{abstract}{%
18966 \if@twocolumn
18967 \section*{\abstractname}%
18968 \else
18969 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18970 \section*{\small\SectFont\abstractname}%
18971 \noindent\ignorespaces
18972 \fi}
18973 {\if@twocolumn\else\par\egroup\fi}
18974 \fi

```



```

18975 \renewcommand*\@regtocline[3]{%
18976   \ifnum #1>\c@tocdepth
18977   \else
18978     \vskip\z@\@plus.2\p@
18979     {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
18980     \if@RTL\righskip\else\leftskip\fi\unitindent
18981     \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
18982     \parfillskip\z@
18983     \@tempdima\unitindent
18984     \parindent\z@
18985     \leavevmode
18986     \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
18987     \hskip 1em \nobreak{\slshape #3}\par
18988   }%
18989 \fi}
18990 \if@oldtoc
18991 \renewcommand*\l@part[2]{%
18992   \ifnum \c@tocdepth >-2\relax
18993     \addpenalty{-\@highpenalty}%
18994     \addvspace{2.25em \@plus\p@}%
18995     \begingroup
18996       \setlength\@tempdima{3em}%
18997       \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
18998       \parfillskip -\@pnumwidth
18999       {\leavevmode
19000        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19001        \nobreak
19002        \global\@nobreaktrue
19003        \everypar{\global\@nobreakfalse\everypar{}}%
19004      \endgroup
19005   \fi}
19006 \else
19007   \renewcommand*\l@part{%
19008     \ifnum \c@tocdepth >-2\relax
19009       \addpenalty{-\@highpenalty}%
19010       \addvspace{2.25em \@plus \p@}%
19011       \@regtocline{0}%
19012     \fi}
19013 \fi
19014 \if@oldtoc
19015 \renewcommand*\l@chapter[2]{%
19016   \addpenalty{-\@highpenalty}%
19017   \vskip 1.0em \@plus\p@
19018   \setlength\@tempdima{1.5em}%
19019   \begingroup
19020     \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
19021     \parfillskip -\@pnumwidth
19022     \leavevmode \bfseries
19023     \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
19024     \hskip -\if@RTL\righskip\else\leftskip\fi
19025     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19026     \penalty\@highpenalty
19027   \endgroup}
19028 \else

```



```

19029 \renewcommand*\l@chapter{\@regtocline{0}}
19030 \fi
19031 \renewcommand*\left@footnoterule{%
19032   \kern-3\p@
19033   \kern.5\baselineskip
19034   \hrule\@width\unitindent
19035   \kern.4\baselineskip
19036 }
19037 \renewcommand*\right@footnoterule{%
19038   \kern-3\p@
19039   \kern.5\baselineskip
19040   \nointerlineskip
19041   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19042   \kern.4\baselineskip}
19043 \renewenvironment{thebibliography}[1]
19044   {\chapter*{\bibname}%
19045     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19046     \ifRTL\ifLTR\bibitems\@RTLfalse\else\fi\else\ifRTL\bibitems\@RTLtrue\else\fi\fi
19047     \bidi@thebibliography@font@hook%
19048     \list{\@biblabel{\@arabic\c@enumiv}}%
19049       {\settowidth\labelwidth{\@biblabel{#1}}%
19050        \leftmargin\labelwidth
19051        \advance\leftmargin\labelsep
19052        \@openbib@code
19053        \usecounter{enumiv}%
19054        \let\p@enumiv\@empty
19055        \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19056     \sloppy\clubpenalty4000\widowpenalty4000%
19057     \sfcode\.\@m}
19058 {\def\@noitemerr
19059   {\@latex@warning{Empty `thebibliography' environment}}}%
19060 \endlist}
19061 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19062 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19063 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19064 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19065 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19066 \renewcommand*\theequation{%
19067   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19068 \renewcommand*\thefigure{%
19069   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
19070 \renewcommand*\thetable{%
19071   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
19072 \if@titlepage
19073 \renewcommand*\TitleFont{\rmfamily}
19074 \renewcommand*\maketitle{%
19075   \begin{titlepage}%
19076     \let\footnotesize\small
19077     \let\right@footnoterule\relax
19078     \let\left@footnoterule\relax
19079     \let\textwidth\footnoterule\relax
19080     \let \footnote \thanks
19081     \long\def\@makefntext##1{\parindent\z@
19082       \def\labelitemi{\textendash}\@revlabeltrue

```



```

19083      \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19084      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19085      \if@compatibility\setcounter{page}{0}\fi
19086      \null\vfil
19087      \vskip 60\p@
19088      \begin{center}%
19089      \TitleFont
19090      {\LARGE \def\\{\penalty -\@M}
19091      \if@allcaps
19092      \expandafter\uc@nothanks\@title\thanks\relax
19093      \else
19094      \@title
19095      \fi\par}%
19096      \vskip 3em%
19097      {\large
19098      \lineskip .75em \parindent\z@
19099      \begin{tabular}[t]{c}%
19100      \if@allcaps
19101      \expandafter\uc@authornothanks\@author\and\relax
19102      \else
19103      \@author
19104      \fi
19105      \end{tabular}\par}%
19106      \vskip 1.5em%
19107      {\large
19108      \if@allcaps
19109      \uppercase\expandafter{\@date}%
19110      \else
19111      \@date
19112      \fi\par}%
19113      \end{center}\par
19114      \@thanks
19115      \vfil\null
19116      \end{titlepage}%
19117      \setcounter{footnote}{0}%
19118      \global\let\thanks\relax
19119      \global\let\maketitle\relax
19120      \global\let\@thanks\@empty
19121      \global\let\@author\@empty
19122      \global\let\@title\@empty
19123      \global\let\@date\@empty
19124      \global\let\title\relax
19125      \global\let\author\relax
19126      \global\let\date\relax
19127      \global\let\and\relax
19128      }
19129      \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19130      \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19131      \futurelet\@tempa\uc@ax}
19132      \def\uc@ax{%
19133      \ifx\@tempa\relax
19134      \else
19135      \ \andname \ \ \expandafter\uc@authornothanks
19136      \fi}

```



```

19137 \def\uc@tx{\ifx\@tempa\relax
19138     \else \expandafter\uc@ty \fi}
19139 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19140 \else
19141 \renewcommand*\maketitle{\par
19142     \begin{group}
19143     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19144     \def\@makefnmark{\rlap{%
19145         \@textsuperscript{\normalfont\@thefnmark}}}%
19146     \long\def\@makefntext{\@xm@kefntext{%
19147         \@textsuperscript{\normalfont\@thefnmark}}}%
19148     \if@twocolumn
19149         \ifnum \col@number=\@one
19150             \@maketitle
19151         \else
19152             \twocolumn[\@maketitle]%
19153         \fi
19154     \else
19155         \newpage
19156         \global\@topnum\z@
19157         \@maketitle
19158     \fi
19159     \thispagestyle{plain}\@thanks
19160 \end{group}
19161 \setcounter{footnote}{0}%
19162 \global\let\thanks\relax
19163 \global\let\maketitle\relax
19164 \global\let\@maketitle\relax
19165 \global\let\@thanks\@empty
19166 \global\let\@author\@empty
19167 \global\let\@title\@empty
19168 \global\let\@date\@empty
19169 \global\let\title\relax
19170 \global\let\author\relax
19171 \global\let\date\relax
19172 \global\let\and\relax
19173 }
19174 \def\@maketitle{%
19175     \newpage
19176     \null
19177     \vskip 2em%
19178     \begin{center}%
19179         \let \footnote \thanks
19180         {\LARGE \TitleFont \@title \par}%
19181         \vskip 1.5em%
19182         {\large \TitleFont
19183             \lineskip .5em%
19184             \begin{tabular}[t]{c}%
19185                 \@author
19186             \end{tabular}\par}%
19187         \vskip 1em%
19188         {\large \TitleFont \@date}%
19189     \end{center}%
19190     \par

```





```

19191 \vskip 1.5em}
19192 \fi

```

## 138 File rapport3-xetex-bidi.def

```

19193 \ProvidesFile{rapport3-xetex-bidi.def}[2025/09/30 v0.7 bidi adaptations for rapport3 class f
19194 \renewenvironment{theindex}{%
19195   \if@twocolumn
19196     \@restonecolfalse
19197   \else
19198     \@restonecoltrue
19199   \fi
19200   \columnseprule \z@
19201   \columnsep 35\p@
19202   \twocolumn[\@makeschapterhead{\indexname}]%
19203   \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
19204   \thispagestyle{plain}\parindent\z@
19205   \parskip\z@ \@plus .3\p@\relax
19206   \let\item\@idxitem
19207 }{%
19208   \if@restonecol\onecolumn\else\clearpage\fi}
19209 \if@titlepage
19210 \renewcommand*{\TitleFont}{\rmfamily}
19211 \renewcommand*{\maketitle}{%
19212   \begin{titlepage}%
19213     \let\footnotesize\small
19214     \let\right@footnoterule\relax
19215     \let\left@footnoterule\relax
19216     \let\textwidth\footnoterule\relax
19217     \let \footnote \thanks
19218     \let \LTRfootnote \LTRthanks
19219     \let \RTLfootnote \RTLthanks
19220     \long\def\@makefntext##1{\parindent\z@
19221       \def\labelitemi{\textendash}\@revlabeltrue
19222       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19223     \renewcommand*{\thefootnote}{\@fnsymbol\c@footnote}%
19224     \if@compatibility\setcounter{page}{0}\fi
19225     \null\vfil
19226     \vskip 60\p@
19227     \begin{center}%
19228       \TitleFont
19229       {\LARGE \def\\{\penalty -\@M}
19230         \if@allcaps
19231           \expandafter\uc@nothanks\@title\thanks\relax
19232         \else
19233           \@title
19234           \fi\par}%
19235       \vskip 3em%
19236       {\large
19237         \lineskip .75em \parindent\z@
19238         \begin{tabular}[t]{c}%
19239           \if@allcaps
19240             \expandafter\uc@authornothanks\@author\and\relax
19241           \else

```



```

19242         \@author
19243         \fi
19244         \end{tabular}\par}%
19245         \vskip 1.5em%
19246         {\large
19247         \if@allcaps
19248         \uppercase\expandafter{\@date}%
19249         \else
19250         \@date
19251         \fi\par}%
19252         \end{center}\par
19253         \@thanks
19254         \vfil\null
19255         \end{titlepage}%
19256         \setcounter{footnote}{0}%
19257         \global\let\thanks\relax
19258         \global\let\LTRthanks\relax
19259         \global\let\RTLthanks\relax
19260         \global\let\maketitle\relax
19261         \global\let\@thanks\@empty
19262         \global\let\@author\@empty
19263         \global\let\@title\@empty
19264         \global\let\@date\@empty
19265         \global\let\title\relax
19266         \global\let\author\relax
19267         \global\let\date\relax
19268         \global\let\and\relax
19269     }
19270     \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19271     \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19272         \futurelet\@tempa\uc@ax}
19273     \def\uc@ax{%
19274         \ifx\@tempa\relax
19275         \else
19276         \\\andname \\\expandafter\uc@authornothanks
19277         \fi}
19278     \def\uc@tx{\ifx\@tempa\relax
19279         \else \expandafter\uc@ty \fi}
19280     \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19281     \else
19282     \renewcommand*\maketitle{\par
19283         \begin{group}
19284         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19285         \def\@makefnmark{\rlap{%
19286             \@textsuperscript{\normalfont\@thefnmark}}}%
19287         \long\def\@makefntext{\@xmakefntext{%
19288             \@textsuperscript{\normalfont\@thefnmark}}}%
19289         \if@twocolumn
19290             \ifnum \col@number=\@one
19291                 \@maketitle
19292             \else
19293                 \twocolumn[\@maketitle]%
19294             \fi
19295         \else

```



```

19296     \newpage
19297     \global\@topnum\z@
19298     \@maketitle
19299     \fi
19300     \thispagestyle{plain}\@thanks
19301 \endgroup
19302 \setcounter{footnote}{0}%
19303 \global\let\thanks\relax
19304 \global\let\LTRthanks\relax
19305 \global\let\RTLthanks\relax
19306 \global\let\maketitle\relax
19307 \global\let\@maketitle\relax
19308 \global\let\@thanks\@empty
19309 \global\let\@author\@empty
19310 \global\let\@title\@empty
19311 \global\let\@date\@empty
19312 \global\let\title\relax
19313 \global\let\author\relax
19314 \global\let\date\relax
19315 \global\let\and\relax
19316 }
19317 \def\@maketitle{%
19318     \newpage
19319     \null
19320     \vskip 2em%
19321     \if@titlecentered
19322         \begin{center}%
19323             \let \footnote \thanks
19324             \let \LTRfootnote \LTRthanks
19325             \let \RTLfootnote \RTLthanks
19326             {\LARGE \TitleFont \@title \par}%
19327             \vskip 1.5em%
19328             {\large \TitleFont
19329                 \lineskip .5em%
19330                 \begin{tabular}[t]{c}%
19331                     \@author
19332                 \end{tabular}\par}%
19333             \vskip 1em%
19334             {\large \TitleFont \@date}%
19335         \end{center}%
19336     \else
19337         {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
19338         {\large \TitleFont \lineskip .5em \tabcolsep\z@
19339             \def\and{%% \begin{tabular} has already started
19340                 \end{tabular}\hskip 1em plus .17fil
19341                 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
19342                 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
19343             \vskip 1em {\large \TitleFont \@date}
19344         \fi
19345         \par
19346         \vskip 1.5em}
19347     \fi
19348 \renewcommand*\@regtocline[3]{%
19349     \ifnum #1>\c@tocdepth

```



```

19350 \else
19351 \vskip\z@\@plus.2\p@
19352 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
19353 \if@RTL\righskip\else\leftskip\fi\unitindent
19354 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
19355 \parfillskip\z@
19356 \@tempdima\unitindent
19357 \parindent\z@
19358 \leavevmode
19359 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
19360 \hskip 1em \nobreak{\slshape #3}\par
19361 }%
19362 \fi}
19363 \if@oldtoc
19364 \renewcommand*\l@part[2]{%
19365 \ifnum \c@tocdepth >-2\relax
19366 \addpenalty{-\@highpenalty}%
19367 \addvspace{2.25em \@plus\p@}%
19368 \begingroup
19369 \setlength\@tempdima{3em}%
19370 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
19371 \parfillskip -\@pnumwidth
19372 {\leavevmode
19373 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19374 \nobreak
19375 \global\@nobreaktrue
19376 \everypar{\global\@nobreakfalse\everypar{}}%
19377 \endgroup
19378 \fi}
19379 \else
19380 \renewcommand*\l@part{%
19381 \ifnum \c@tocdepth >-2\relax
19382 \addpenalty{-\@highpenalty}%
19383 \addvspace{2.25em \@plus \p@}%
19384 \@regtocline{0}%
19385 \fi}
19386 \fi
19387 \if@oldtoc
19388 \renewcommand*\l@chapter[2]{%
19389 \addpenalty{-\@highpenalty}%
19390 \vskip 1.0em \@plus\p@
19391 \setlength\@tempdima{1.5em}%
19392 \begingroup
19393 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
19394 \parfillskip -\@pnumwidth
19395 \leavevmode \bfseries
19396 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
19397 \hskip -\if@RTL\righskip\else\leftskip\fi
19398 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19399 \penalty\@highpenalty
19400 \endgroup}
19401 \else
19402 \renewcommand*\l@chapter{\@regtocline{0}}
19403 \fi

```



```

19404 \renewcommand*\head@style{%
19405     \interlinepenalty \@M
19406     \hyphenpenalty=\@M \exhyphenpenalty=\@M
19407     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
19408 \if@titlepage
19409     \renewenvironment{abstract}{%
19410         \titlepage
19411         \null\vfil
19412         \section*{\SectFont\abstractname}%
19413         \noindent\ignorespaces}
19414     {\par\vfil\null\endtitlepage}
19415 \else
19416     \renewenvironment{abstract}{%
19417         \if@twocolumn
19418             \section*{\abstractname}%
19419         \else
19420             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
19421             \section*{\small\SectFont\abstractname}%
19422             \noindent\ignorespaces
19423             \fi}
19424     {\if@twocolumn\else\par\egroup\fi}
19425 \fi
19426 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19427 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19428 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19429 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19430 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19431 \renewcommand*\thefigure{%
19432     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
19433 \renewcommand*\thetable{%
19434     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
19435 \renewcommand*\theequation{%
19436     \ifnum\c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19437 \renewenvironment{thebibliography}[1]
19438     {\chapter*{\bibname}%
19439      \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19440      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19441      \bidi@thebibliography@font@hook%
19442      \list{\@biblabel{\@arabic\c@enumiv}}%
19443          {\settowidth\labelwidth{\@biblabel{#1}}%
19444           \leftmargin\labelwidth
19445           \advance\leftmargin\labelsep
19446           \@openbib@code
19447           \usecounter{enumiv}%
19448           \let\p@enumiv\@empty
19449           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19450      \sloppy\clubpenalty4000\widowpenalty4000%
19451      \sfcode\.\@m}
19452     {\def\@noitemerr
19453      {\@latex@warning{Empty `thebibliography' environment}}}%
19454     \endlist}
19455 \renewcommand*\left@footnoterule{%
19456     \kern-3\p@
19457     \kern.5\baselineskip

```



```

19458 \hrule\@width\unitindent
19459 \kern.4\baselineskip
19460 }
19461 \renewcommand*\right@footnoterule{%
19462 \kern-3\p@
19463 \kern.5\baselineskip
19464 \nointerlineskip
19465 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19466 \kern.4\baselineskip}
19467 \renewcommand*\head@style{%
19468 \interlinepenalty \@M
19469 \hyphenpenalty=\@M \exhyphenpenalty=\@M
19470 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

### 139 File refrep-xetex-bidi.def

```

19471 \ProvidesFile{refrep-xetex-bidi.def}[2025/09/30 v0.6 bidi adaptations for refrep class for X
19472 \if@titlepage
19473 \renewcommand\maketitle{\begin{titlepage}%
19474 \let\footnotesize\small
19475 \let\right@footnoterule\relax
19476 \let\left@footnoterule\relax
19477 \let\textwidth@footnoterule\relax
19478 \let\footnote\thanks
19479 \let\LTRfootnote\LTRthanks
19480 \let\RTLfootnote\RTLthanks
19481 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19482 \def\@makefnmark%
19483 {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19484 \long\def\@makefntext##1{%
19485 \setpar{\@par
19486 \@tempdima = \hsize
19487 \advance\@tempdima -1em
19488 \parshape \@ne 1em \@tempdima}%
19489 \par\parindent 1em \noindent
19490 \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19491 \null\vfil
19492 \vskip 60\p@
19493 \begin{center}%
19494 {\LARGE \@title \par}%
19495 \vskip 3em%
19496 {\large
19497 \lineskip .75em%
19498 \begin{tabular}[t]{c}%
19499 \@author
19500 \end{tabular}\par}%
19501 \vskip 1.5em%
19502 {\large \@date \par}% % Set date in \large size.
19503 \end{center}\par
19504 \@thanks
19505 \vfil\null
19506 \end{titlepage}%
19507 \setcounter{footnote}{0}%
19508 \global\let\thanks\relax

```



```

19509 \global\let\LTRthanks\relax
19510 \global\let\RTLthanks\relax
19511 \global\let\maketitle\relax
19512 \global\let\@thanks\@empty
19513 \global\let\@author\@empty
19514 \global\let\@date\@empty
19515 \global\let\@title\@empty
19516 \global\let\title\relax
19517 \global\let\author\relax
19518 \global\let\date\relax
19519 \global\let\and\relax
19520 }
19521 \else
19522 \renewcommand\maketitle{\par
19523 \begingroup
19524 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19525 \def\@makefnmark%
19526 {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19527 \long\def\@makefntext##1{%
19528 \setpar{\@par
19529 \@tempdima = \hspace
19530 \advance\@tempdima -1em
19531 \parshape \@ne 1em \@tempdima}%
19532 \par\parindent 1em \noindent
19533 \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19534 \iftwocolumn
19535 \ifnum \col@number=\@ne
19536 \@maketitle
19537 \else
19538 \twocolumn[\@maketitle]%
19539 \fi
19540 \else
19541 \newpage
19542 \global\@topnum\z@ % Prevents figures from going at top of page.
19543 \@maketitle
19544 \fi
19545 \thispagestyle{empty}\@thanks
19546 \endgroup
19547 \setcounter{footnote}{0}%
19548 \global\let\thanks\relax
19549 \global\let\LTRthanks\relax
19550 \global\let\RTLthanks\relax
19551 \global\let\maketitle\relax
19552 \global\let\@maketitle\relax
19553 \global\let\@thanks\@empty
19554 \global\let\@author\@empty
19555 \global\let\@date\@empty
19556 \global\let\@title\@empty
19557 \global\let\title\relax
19558 \global\let\author\relax
19559 \global\let\date\relax
19560 \global\let\and\relax
19561 }
19562 \def\@maketitle{%

```



```

19563 \newpage
19564 \null
19565 \longthickrule\vskip1.5em%
19566 \let \footnote \thanks
19567 \let \LTRfootnote \LTRthanks
19568 \let \RTLfootnote \RTLthanks
19569 {\secshape \parskip\z@ \parindent\z@
19570 \Large\bfseries \@title \par}%
19571 \vskip1.5em\longthickrule\vskip1.5em%
19572 {\normalsize
19573 \lineskip .5em%
19574 \begin{flushright}%
19575 {\slshape\@author\par}
19576 \vskip 1em%
19577 {\@date}%
19578 \end{flushright}\par}%
19579 \vskip 1.5em}
19580 \fi
19581 \renewcommand*\l@part[2]{%
19582 \ifnum \c@tocdepth >-2\relax
19583 \addpenalty{-\@highpenalty}%
19584 \addvspace{2.25em \@plus\p@}%
19585 \begingroup
19586 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19587 \parfillskip -\@pnumwidth
19588 {\leavevmode
19589 \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
19590 \nobreak
19591 \global\@nobreaktrue
19592 \everypar{\global\@nobreakfalse\everypar{}}%
19593 \endgroup
19594 \fi}
19595 \renewcommand*\l@chapter[2]{%
19596 \ifnum \c@tocdepth >\m@ne
19597 \addpenalty{-\@highpenalty}%
19598 \vskip 1.0em \@plus\p@
19599 \setlength\@tempdima{1.5em}%
19600 \begingroup
19601 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19602 \parfillskip -\@pnumwidth
19603 \leavevmode \bfseries
19604 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19605 \hskip -\if@RTL\rightskip\else\leftskip\fi
19606 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19607 \penalty\@highpenalty
19608 \endgroup
19609 \fi}
19610 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
19611 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
19612 \hyphenpenalty=2000}
19613 \renewcommand\left@footnoterule{%
19614 \kern-3\p@
19615 \hrule\@width.4\columnwidth
19616 \kern 2.6\p@}

```





```

19617 \renewcommand\right@footnoterule{%
19618   \kern-3\p@
19619   \nointerlineskip
19620   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19621   \kern2.6\p@}
19622 \renewcommand\theequation
19623 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19624 \renewcommand\thefigure
19625   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19626 \renewcommand\thetable%
19627   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19628 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
19629 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19630 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19631 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19632 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19633 \renewenvironment{thebibliography}[1]
19634   {\chapter*{\bibname
19635     \@mkboth{\bibname}{\bibname}}%
19636     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19637     \bidi@thebibliography@font@hook%
19638     \list{\@biblabel{\@arabic\c@enumiv}}%
19639       {\settowidth\labelwidth{\@biblabel{#1}}%
19640        \leftmargin\labelwidth
19641        \advance\leftmargin\labelsep
19642        \openbib@code
19643        \usecounter{enumiv}%
19644        \let\p@enumiv\@empty
19645        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19646        \sloppy
19647        \clubpenalty4000
19648        \@clubpenalty \clubpenalty
19649        \widowpenalty4000%
19650        \sfcode`\.=\@m}
19651   {\def\@noitemerr
19652     {\@latex@warning{Empty `thebibliography' environment}}%
19653     \endlist}

```

## 140 File report-xetex-bidi.def

```

19654 \ProvidesFile{report-xetex-bidi.def}[2025/09/30 v1.1 bidi adaptations for standard report cl
19655 \renewenvironment{theindex}
19656   {\if@twocolumn
19657     \@restonecolfalse
19658     \else
19659       \@restonecoltrue
19660     \fi
19661     \columnseprule \z@
19662     \columnsep 35\p@
19663     \twocolumn[\@makeschapterhead{\indexname}]%
19664     \@mkboth{\MakeUppercase\indexname}%
19665       {\MakeUppercase\indexname}%
19666     \thispagestyle{plain}\parindent\z@
19667     \parskip\z@ \@plus .3\p@\relax

```



```

19668             \let\item\@idxitem}
19669             {\if@restonecol\onecolumn\else\clearpage\fi}
19670 \if@titlepage
19671   \renewcommand\maketitle{\begin{titlepage}%
19672     \let\footnotesize\small
19673     \let\right@footnoterule\relax
19674     \let\left@footnoterule\relax
19675     \let\textwidth@footnoterule\relax
19676     \let \footnote \thanks
19677     \let \LTRfootnote \LTRthanks
19678     \let \RTLfootnote \RTLthanks
19679     \null\vfil
19680     \vskip 60\p@
19681     \begin{center}%
19682       {\LARGE \@title \par}%
19683       \vskip 3em%
19684       {\large
19685         \lineskip .75em%
19686         \begin{tabular}[t]{c}%
19687           \@author
19688           \end{tabular}\par}%
19689       \vskip 1.5em%
19690       {\large \@date \par}%           % Set date in \large size.
19691     \end{center}\par
19692     \@thanks
19693     \vfil\null
19694     \end{titlepage}%
19695     \setcounter{footnote}{0}%
19696     \global\let\thanks\relax
19697     \global\let\LTRthanks\relax
19698     \global\let\RTLthanks\relax
19699     \global\let\maketitle\relax
19700     \global\let\@thanks\@empty
19701     \global\let\@author\@empty
19702     \global\let\@date\@empty
19703     \global\let\@title\@empty
19704     \global\let\title\relax
19705     \global\let\author\relax
19706     \global\let\date\relax
19707     \global\let\and\relax
19708 }
19709 \else
19710 \renewcommand\maketitle{\par
19711   \begingroup
19712     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19713     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19714     \long\def\@makefntext##1{\parindent 1em\noindent
19715       \hb@xt@1.8em{%
19716         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
19717     \if@twocolumn
19718       \ifnum \col@number=\@ne
19719         \@maketitle
19720       \else
19721         \twocolumn[\@maketitle]%

```



```

19722     \fi
19723     \else
19724         \newpage
19725         \global\@topnum\z@    % Prevents figures from going at top of page.
19726         \@maketitle
19727     \fi
19728     \thispagestyle{plain}\@thanks
19729 \endgroup
19730 \setcounter{footnote}{0}%
19731 \global\let\thanks\relax
19732 \global\let\LTRthanks\relax
19733 \global\let\RTLthanks\relax
19734 \global\let\maketitle\relax
19735 \global\let\@maketitle\relax
19736 \global\let\@thanks\@empty
19737 \global\let\@author\@empty
19738 \global\let\@date\@empty
19739 \global\let\@title\@empty
19740 \global\let\title\relax
19741 \global\let\author\relax
19742 \global\let\date\relax
19743 \global\let\and\relax
19744 }
19745 \def\@maketitle{%
19746     \newpage
19747     \null
19748     \vskip 2em%
19749     \begin{center}%
19750         \let \footnote \thanks
19751         \let \LTRfootnote \LTRthanks
19752         \let \RTLfootnote \RTLthanks
19753         {\LARGE \@title \par}%
19754         \vskip 1.5em%
19755         {\large
19756             \lineskip .5em%
19757             \begin{tabular}[t]{c}%
19758                 \@author
19759             \end{tabular}\par}%
19760         \vskip 1em%
19761         {\large \@date}%
19762     \end{center}%
19763     \par
19764     \vskip 1.5em}
19765 \fi
19766 \IfPackageLoadedF{tocloft}{%
19767 \renewcommand*\l@part[2]{%
19768     \ifnum \c@tocdepth >-2\relax
19769         \addpenalty{-\@highpenalty}%
19770         \addvspace{2.25em \@plus\p@}%
19771         \setlength\@tempdima{3em}%
19772         \begingroup
19773             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19774             \parfillskip -\@pnumwidth
19775             {\leavevmode

```



```

19776      \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19777      \nobreak
19778      \global\@nobreaktrue
19779      \everypar{\global\@nobreakfalse\everypar{}}%
19780    \endgroup
19781  \fi}
19782 \renewcommand*\l@chapter[2]{%
19783   \ifnum \c@tocdepth >\m@ne
19784     \addpenalty{-\@highpenalty}%
19785     \vskip 1.0em \plus\p@
19786     \setlength\@tempdima{1.5em}%
19787     \begingroup
19788       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19789       \parfillskip -\@pnumwidth
19790       \leavevmode \bfseries
19791       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19792       \hskip -\if@RTL\rightskip\else\leftskip\fi
19793       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19794       \penalty\@highpenalty
19795     \endgroup
19796   \fi}
19797 }
19798 \renewcommand\left@footnoterule{%
19799   \kern-3\p@
19800   \hrule\@width.4\columnwidth
19801   \kern2.6\p@}
19802 \renewcommand\right@footnoterule{%
19803   \kern-3\p@
19804   \nointerlineskip
19805   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19806   \kern2.6\p@}
19807 \renewcommand\theequation
19808   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19809 \renewcommand \thefigure
19810   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19811 \renewcommand \thetable
19812   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19813 \renewcommand \thechapter {\@arabic\c@chapter}
19814 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
19815 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19816 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
19817 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19818 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19819 \def\@makechapterhead#1{%
19820   \vspace*{50\p@}%
19821   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
19822     \ifnum \c@secnumdepth >\m@ne
19823       \huge\bfseries \@chapapp\space \thechapter
19824       \par\nobreak
19825       \vskip 20\p@
19826     \fi
19827     \interlinepenalty\@M
19828     \Huge \bfseries #1\par\nobreak
19829     \vskip 40\p@

```



```

19830 }}
19831 \def\@makeschapterhead#1{%
19832   \vspace*{50\p@}%
19833   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
19834     \normalfont
19835     \interlinepenalty\@M
19836     \Huge \bfseries #1\par\nobreak
19837     \vskip 40\p@
19838   }}
19839 \IfPackageLoadedF{natbib}{%
19840 \renewenvironment{thebibliography}[1]
19841   {\chapter*{\bibname}%
19842     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19843     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19844     \bidi@thebibliography@font@hook%
19845     \list{\@biblabel{\@arabic\c@enumiv}}%
19846       {\settowidth\labelwidth{\@biblabel{#1}}%
19847         \leftmargin\labelwidth
19848         \advance\leftmargin\labelsep
19849         \@openbib@code
19850         \usecounter{enumiv}%
19851         \let\p@enumiv\@empty
19852         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19853     \sloppy
19854     \clubpenalty4000
19855     \@clubpenalty \clubpenalty
19856     \widowpenalty4000%
19857     \sfcode\.\@m}
19858 {\def\@noitemerr
19859   {\@latex@warning{Empty `thebibliography' environment}}}%
19860 \endlist}
19861 }

```

## 141 File rotating-xetex-bidi.def

```

19862 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
19863 \def\end@rotfloat{%
19864   \end{minipage}\end{lrbox}%
19865   \stepcounter{r@tfl@t}%
19866   \rot@label{RF\ther@tfl@t}%
19867   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19868   \edef\@tempa{Adding sideways \c@type\space on page \R@@page\space}
19869   \rot@mess@toks\expandafter{\@tempa}
19870   \wd\rot@float@box\z@
19871   \ht\rot@float@box\z@
19872   \dp\rot@float@box\z@
19873   \vboxL to \textheight{%
19874     \setkeys{Grot}{units=360}%
19875     \if@rot@twoside
19876     \else
19877       \let\R@@page\rot@LR
19878     \fi
19879     \ifthenelse{\isodd{\R@@page}}{%
19880       \if@rot@twoside

```



```

19881      \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19882      \fi
19883      \vfill
19884      \@@line{%
19885          \hskip\rotFPtop
19886          \rotatebox{90}{\box\rot@float@box}%
19887          \hskip\rotFPbot
19888      }%
19889      {%
19890          \if@rot@twoside
19891              \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19892              \fi
19893              \@@line{%
19894                  \hskip\rotFPbot
19895                  \rotatebox{-90}{\box\rot@float@box}%
19896                  \hskip\rotFPtop
19897              }%
19898              \vfill
19899          }%
19900          \rot@message{\the\rot@mess@toks}
19901      }%
19902      \end@float
19903  }
19904  \let\endsidewaysfigure\end@rotfloat
19905  \let\endsidewaystable\end@rotfloat
19906  \def\end@rotdblfloat{%
19907      \end{minipage}\end{lrbox}%
19908      \stepcounter{r@tfl@t}%
19909      \rot@label{RF\ther@tfl@t}%
19910      \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19911      \edef\@tempa{Adding sideways \@capytype\space on page \R@@page\space}
19912      \rot@mess@toks\expandafter{\@tempa}
19913      \@tempdima\ht\rot@float@box
19914      \advance\@tempdima by \dp\rot@float@box
19915      \wd\rot@float@box\z@
19916      \ht\rot@float@box\z@
19917      \dp\rot@float@box\z@
19918      \vboxL to \textheight{%
19919          \setkeys{Grot}{units=360}%
19920          \if@rot@twoside
19921          \else
19922              \let\R@@page\rot@LR
19923          \fi
19924          \ifthenelse{\isodd{\R@@page}}{%
19925              \ifrot@messages
19926              \if@rot@twoside
19927                  \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19928              \fi
19929              \fi
19930              \vfill
19931              \@@line{%
19932                  \hskip\rotFPtop
19933                  \rotatebox{90}{\box\rot@float@box}%
19934                  \hskip\rotFPbot

```



```

19935     }%
19936   }{%
19937     \ifrot@messages
19938     \if@rot@twoside
19939     \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19940 \fi
19941   \fi%
19942   \@@line{%
19943     \hskip\rotFPbot
19944     \rotatebox{-90}{\box\rot@float@box}%
19945     \hskip\rotFPtop
19946   }%
19947   \vfill
19948 }%
19949 \rot@message{\the\rot@mess@toks}%
19950 }%
19951 \end@dblfloat
19952 }
19953 \def\turn#1{%
19954   \Grot@setangle{#1}%
19955   \setbox\z@ \color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19956 \def\endturn{%
19957   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19958   \unskip\color@endbox
19959   \Grot@x\z@
19960   \Grot@y\z@
19961   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19962 }
19963 \def\rotate#1{%
19964   \Grot@setangle{#1}%
19965   \setbox\z@ \color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19966 \def\endrotate{%
19967   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19968   \unskip\color@endbox
19969   \Grot@x\z@
19970   \Grot@y\z@
19971   \wd0\z@\dp0\z@\ht0\z@
19972   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19973 }
19974 \def\turnbox#1#2{%
19975   \Grot@setangle{#1}%
19976   \setbox\z@ \hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
19977   \Grot@x\z@\Grot@y\z@
19978   \wd0\z@\dp0\z@\ht0\z@
19979   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19980 }
19981 \def\sideways{%
19982   \Grot@setangle{90}%
19983   \setbox\z@ \color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19984 \def\endsideways{%
19985   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19986   \unskip\color@endbox
19987   \Grot@x\z@
19988   \Grot@y\z@

```



```

19989 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19990 }

```

## 142 File scrartcl-xetex-bidi.def

```

19991 \ProvidesFile{scrartcl-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrartcl class f
19992 \newcommand{\scr@saved@LTRfootnotetext}{}
19993 \newcommand{\scr@saved@RTLfootnotetext}{}
19994 \let\scr@saved@footnotetext\@footnotetext
19995 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
19996 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
19997 \renewcommand{\@footnotetext}[1]{%
19998   \scr@saved@footnotetext{#1}%
19999   \csname FN@mf@prepare\endcsname
20000 }
20001 \renewcommand{\@LTRfootnotetext}[1]{%
20002   \scr@saved@LTRfootnotetext{#1}%
20003   \csname FN@mf@prepare\endcsname
20004 }
20005 \renewcommand{\@RTLfootnotetext}[1]{%
20006   \scr@saved@RTLfootnotetext{#1}%
20007   \csname FN@mf@prepare\endcsname
20008 }
20009 \renewcommand\deffootnote[4][1]{%
20010   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20011     \long\def\@makefntext##1{%
20012       \ExecuteDoHook{footnote/text/begin}%
20013       \raggedfootnote
20014       \if@RTL
20015         \rightskip
20016       \else
20017         \leftskip
20018       \fi
20019       #2
20020       \l@addto@macro\@trivlist{%
20021         \ifnum\@listdepth=\@ne
20022           \if@RTL
20023             \advance\rightmargin #2\relax
20024           \else
20025             \advance\leftmargin #2\relax
20026           \fi
20027         \fi
20028       }%
20029       \parindent #3\noindent
20030       \IfArgIsEmpty{#1}{-}{%
20031         \hskip \dimexpr #1-#2\relax
20032       }%
20033       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20034       \ExecuteDoHook{footnote/text/end}%
20035     }%
20036 \else
20037   \ClassInfo{\KOMAClassName}{%
20038     Using old \string\@makefntext\space due to compatibility
20039     level\MessageBreak

```





```

20040     less than 3.22}%
20041 \long\def\@makefntext##1{%
20042   \setlength{\@tempdimc}{#3}%
20043   \def\@tempa{#1}\ifx\@tempa\@empty
20044     \setpar{\@par
20045       \@tempdima = \hsize
20046       \addtolength{\@tempdima}{-#2}%
20047       \if@RTL
20048         \parshape \@ne \z@ \@tempdima
20049       \else
20050         \parshape \@ne #2 \@tempdima
20051       \fi}%
20052   \else
20053     \addtolength{\@tempdimc}{#2}%
20054     \addtolength{\@tempdimc}{-#1}%
20055     \setpar{\@par
20056       \@tempdima = \hsize
20057       \addtolength{\@tempdima}{-#1}%
20058       \@tempdimb = \hsize
20059       \addtolength{\@tempdimb}{-#2}%
20060       \if@RTL
20061         \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20062       \else
20063         \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20064       \fi
20065     }%
20066   \fi
20067   \par
20068   \parindent\@tempdimc\noindent
20069   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20070 }%
20071 \fi
20072 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20073 }
20074 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20075 \renewcommand*\left@footnoterule{%
20076   \normalsize\ftn@rule@test@values
20077   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20078   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20079   {\usekomafont{footnoterule}{%
20080     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20081   \kern 2.6\p@}
20082 \renewcommand*\right@footnoterule{%
20083   \normalsize\ftn@rule@test@values
20084   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20085   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20086   \nointerlineskip
20087   {\usekomafont{footnoterule}{%
20088     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20089     \kern 2.6\p@}
20090   \renewcommand*\maketitle[1][1]{%
20091     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20092     \else
20093     \def\and{%

```



```

20094         \end{tabular}%
20095         \hskip 1em \@plus.17fil%
20096         \begin{tabular}[t]{c}%
20097     }%
20098 \fi
20099 \if@titlepage
20100     \begin{titlepage}
20101         \setcounter{page}{%
20102             #1%
20103         }%
20104         \if@titlepageiscoverpage
20105             \edef\tITLEPAGE@restore{%
20106                 \noexpand\endgroup
20107                 \noexpand\global\noexpand\@colht\the\@colht
20108                 \noexpand\global\noexpand\@colroom\the\@colroom
20109                 \noexpand\global\vsizethe\vsizethe
20110                 \noexpand\global\noexpand\@titlepageiscoverpagefalse
20111                 \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
20112             }%
20113             \begin{group}
20114                 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20115                 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20116                 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20117                 \textwidth=\dimexpr
20118                 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20119                 \textheight=\dimexpr
20120                 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20121                 \headheight=0pt
20122                 \headsep=0pt
20123                 \footskip=\baselineskip
20124                 \@colht=\textheight
20125                 \@colroom=\textheight
20126                 \vsizethe=\textheight
20127                 \columnwidth=\textwidth
20128                 \hsize=\columnwidth
20129                 \linewidth=\hsize
20130             \else
20131                 \let\tITLEPAGE@restore\relax
20132             \fi
20133             \let\footnotesize\small
20134             \let\right@footnoterule\relax
20135             \let\left@footnoterule\relax
20136             \let\textwidth@footnoterule\relax
20137             \let\footnote\thanks
20138             \let\LTRfootnote\LTRthanks
20139             \let\RTLfootnote\RTLthanks
20140             \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20141             \let\@oldmakefnmark\@makefnmark
20142             \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
20143             \ifx\@extratitle\@empty
20144                 \ifx\@frontispiece\@empty
20145                     \else
20146                         \if@twoside\mbox{}\next@tpage\fi
20147                         \noindent\@frontispiece\next@tdpage

```



```

20148      \fi
20149    \else
20150      \noindent\@extratitle
20151      \ifx\@frontispiece\@empty
20152      \else
20153        \next@tpage
20154        \noindent\@frontispiece
20155      \fi
20156      \next@tdpage
20157    \fi
20158    \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20159    \ifx\@titlehead\@empty \else
20160      \begin{minipage}[t]{\textwidth}%
20161        \usekomafont{titlehead}{\@titlehead\par}%
20162      \end{minipage}\par
20163    \fi
20164    \null\vfill
20165    \begin{center}
20166      \ifx\@subject\@empty \else
20167        {\usekomafont{subject}{\@subject\par}}%
20168        \vskip 3em
20169      \fi
20170      {\usekomafont{title}{\huge \@title\par}}%
20171      \vskip 1em
20172      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20173      \vskip 2em
20174      {%
20175        \usekomafont{author}{%
20176          \lineskip 0.75em
20177          \begin{tabular}[t]{c}
20178            \@author
20179          \end{tabular}\par
20180        }%
20181      }%
20182      \vskip 1.5em
20183      {\usekomafont{date}{\@date \par}}%
20184      \vskip \z@ \@plus3fill
20185      {\usekomafont{publishers}{\@publishers \par}}%
20186      \vskip 3em
20187    \end{center}\par
20188    \@thanks\global\let\@thanks\@empty
20189    \vfill\null
20190    \if@twoside
20191      \@tempswatrue
20192      \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20193      \else
20194        \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20195          \@tempswafalse
20196        \fi\fi
20197      \fi
20198      \if@tempswa
20199        \next@tpage
20200        \begin{minipage}[t]{\textwidth}
20201          \@uppertitleback

```



```

20202         \end{minipage}\par
20203         \vfill
20204         \begin{minipage}[b]{\textwidth}
20205             \@lowertitleback
20206         \end{minipage}\par
20207         \@thanks\global\let\@thanks\@empty
20208     \fi
20209 \else
20210     \ifx\@uppertitleback\@empty\else
20211         \ClassWarning{\KOMAClassName}{%
20212             non empty \string\uppertitleback\space ignored
20213             by \string\maketitle\MessageBreak
20214             in `twoside=false' mode%
20215         }%
20216     \fi
20217     \ifx\@lowertitleback\@empty\else
20218         \ClassWarning{\KOMAClassName}{%
20219             non empty \string\lowertitleback\space ignored
20220             by \string\maketitle\MessageBreak
20221             in `twoside=false' mode%
20222         }%
20223     \fi
20224 \fi
20225 \ifx\@dedication\@empty
20226 \else
20227     \next@tdpage\null\vfill
20228     {\centering\usekomafont{dedication}{\@dedication \par}}%
20229     \vskip \z@ \@plus3fill
20230     \@thanks\global\let\@thanks\@empty
20231     \cleardoubleemptypage
20232 \fi
20233 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20234 \end{titlepage}
20235 \else
20236     \par
20237     \@tempcnta=%
20238     #1%
20239     \relax\ifnum\@tempcnta=1\else
20240         \ClassWarning{\KOMAClassName}{%
20241             Optional argument of \string\maketitle\space ignored\MessageBreak
20242             in `titlepage=false' mode%
20243         }%
20244     \fi
20245     \ifx\@uppertitleback\@empty\else
20246         \ClassWarning{\KOMAClassName}{%
20247             non empty \string\uppertitleback\space ignored
20248             by \string\maketitle\MessageBreak
20249             in `titlepage=false' mode%
20250         }%
20251     \fi
20252     \ifx\@lowertitleback\@empty\else
20253         \ClassWarning{\KOMAClassName}{%
20254             non empty \string\lowertitleback\space ignored
20255             by \string\maketitle\MessageBreak

```



```

20256         in `titlepage=false' mode%
20257     }%
20258 \fi
20259 \beginngroup
20260 \let\titlepage@restore\relax
20261 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20262 \let\@oldmakefnmark\@makefnmark
20263 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20264 \next@tdpage
20265 \if@twocolumn
20266     \ifnum \col@number=\@one
20267         \ifx\@extratitle\@empty
20268             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20269         \else
20270             \@makeextratitle
20271         \fi
20272         \ifx\@frontispiece\@empty
20273             \ifx\@extratitle\@empty\else\next@tdpage\fi
20274         \else
20275             \next@tpage
20276             \@makefrontispiece
20277             \next@tdpage
20278         \fi
20279         \@maketitle
20280     \else
20281         \ifx\@extratitle\@empty
20282             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20283         \else
20284             \twocolumn[\@makeextratitle]%
20285         \fi
20286         \ifx\@frontispiece\@empty
20287             \ifx\@extratitle\@empty\else\next@tdpage\fi
20288         \else
20289             \next@tpage
20290             \twocolumn[\@makefrontispiece]%
20291             \next@tdpage
20292         \fi
20293         \twocolumn[\@maketitle]%
20294     \fi
20295 \else
20296     \ifx\@extratitle\@empty
20297         \ifx\@frontispiece\@empty\else \mbox{}\fi
20298     \else
20299         \@makeextratitle
20300     \fi
20301     \ifx\@frontispiece\@empty
20302         \ifx\@extratitle\@empty\else\next@tdpage\fi
20303     \else
20304         \next@tpage
20305         \@makefrontispiece
20306         \next@tdpage
20307     \fi
20308     \@maketitle
20309 \fi

```



```

20310     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20311     \@thanks\global\let\@thanks\@empty
20312     \endgroup
20313     \fi
20314     \setcounter{footnote}{0}%
20315     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20316         \let\thanks\relax
20317         \let\LTrthanks\relax
20318         \let\RTLthanks\relax
20319         \let\maketitle\relax
20320         \let\@maketitle\relax
20321         \global\let\@thanks\@empty
20322         \global\let\@author\@empty
20323         \global\let\@date\@empty
20324         \global\let\@title\@empty
20325         \global\let\@subtitle\@empty
20326         \global\let\@extratitle\@empty
20327         \global\let\@frontispiece\@empty
20328         \global\let\@titlehead\@empty
20329         \global\let\@subject\@empty
20330         \global\let\@publishers\@empty
20331         \global\let\@uppertitleback\@empty
20332         \global\let\@lowertitleback\@empty
20333         \global\let\@dedication\@empty
20334         \global\let\author\relax
20335         \global\let\title\relax
20336         \global\let\extratitle\relax
20337         \global\let\titlehead\relax
20338         \global\let\subject\relax
20339         \global\let\publishers\relax
20340         \global\let\uppertitleback\relax
20341         \global\let\lowertitleback\relax
20342         \global\let\dedication\relax
20343         \global\let\date\relax
20344     \fi
20345     \global\let\and\relax
20346 }%
20347 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20348 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
20349 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
20350 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
20351 \renewcommand*{\thesubsubsection}{%
20352   \thesubsection\@SepMark\@arabic\c@subsubsection
20353 }
20354 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20355 \renewcommand*{\thesubparagraph}{%
20356   \theparagraph\@SepMark\@arabic\c@subparagraph
20357 }
20358 \renewenvironment{thebibliography}[1]{%
20359   \if@bib@break@
20360     \bib@beginhook
20361   \else
20362     \bib@heading
20363     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else

```



```

20364      \noindent\bibpreamble\par\nobreak
20365      \fi\fi
20366      \bib@beginhook
20367      \bib@before@hook
20368      \fi
20369      \renewcommand{\BreakBibliography}[1]{%
20370      \@bib@break
20371      \end{thebibliography}%
20372      \begingroup ##1\endgroup
20373      \begin{thebibliography}{#1}
20374      }%
20375      \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20376      \bidi@thebibliography@font@hook%
20377      \list{%
20378      \@biblabel{\@arabic\c@enumiv}%
20379      }{%
20380      \settowidth\labelwidth{\@biblabel{#1}}%
20381      \leftmargin\labelwidth
20382      \advance\leftmargin\labelsep
20383      \@openbib@code
20384      \if@bib@break@
20385      \edef\@tempa{%
20386      \noexpand\usecounter{enumiv}%
20387      \noexpand\setcounter{enumiv}{\the\c@enumiv}%
20388      }\@tempa
20389      \no@bib@break
20390      \else
20391      \usecounter{enumiv}%
20392      \fi
20393      \let\p@enumiv\@empty
20394      \renewcommand*\theenumiv{\@arabic\c@enumiv}%
20395      }%
20396      \sloppy\clubpenalty4000 \widowpenalty4000
20397      \sfcode`\.=\@m
20398      }{%
20399      \if@bib@break@
20400      \def\@noitemerr{%
20401      \@latex@warning{%
20402      \string\BreakBibliography\space at begin of `thebibliography'
20403      environment\MessageBreak
20404      or following \string\BreakBibliography}%
20405      }%
20406      \else
20407      \def\@noitemerr{%
20408      \@latex@warning{%
20409      Empty `thebibliography' environment or
20410      \string\BreakBibliography\MessageBreak
20411      before end of `thebibliography' environment}%
20412      }%
20413      \fi
20414      \endlist
20415      \if@bib@break@
20416      \else
20417      \bib@after@hook

```



```

20418 \let\bib@before@hook\@empty
20419 \let\bib@after@hook\@empty
20420 \fi
20421 \bib@endhook
20422 }
20423 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
20424 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
20425 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
20426 \renewcommand\marginline[1]{%
20427 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
20428 }
20429 \renewcommand{\@@makecaption}[3]{%
20430 \cap@margin
20431 \begingroup
20432 \ifonelinecaptions
20433 \def\stepcounter##1{\advance\value{##1}\@ne}%
20434 \let\refstepcounter\stepcounter
20435 \let\label\@gobble
20436 \let\@footnotetext=\@gobble
20437 \let\@LTRfootnotetext=\@gobble
20438 \let\@RTLfootnotetext=\@gobble
20439 \let\hypertarget\@gobbletwo
20440 \edef\@xnewline{%
20441 \unexpanded{\ClassInfo{\KOMAClassName}{%
20442 Workaround for not recommended usage of \string\\ or\MessageBreak
20443 \string\newline in caption text
20444 }%
20445 \hspace*{\linewidth}\hspace{1sp}}%
20446 }%
20447 \unexpanded\expandafter{\@xnewline}%
20448 }%
20449 \edef\@xcentercr{%
20450 \unexpanded{\ClassInfo{\KOMAClassName}{%
20451 Workaround for not recommended usage of \string\\ or\MessageBreak
20452 \string\newline in caption text
20453 }%
20454 \hspace*{\linewidth}\hspace{1sp}}%
20455 }%
20456 \unexpanded\expandafter{\@xcentercr}%
20457 }%
20458 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20459 \ifdim\@tempdima>\cap@width
20460 \aftergroup\scr@makemultilinecaption
20461 \else
20462 \aftergroup\scr@makesinglelinecaption
20463 \fi
20464 \else
20465 \aftergroup\scr@makemultilinecaption
20466 \fi
20467 \endgroup
20468 {#1}{#2}{#3}%
20469 }
20470 \renewcommand{\scr@makesinglelinecaption}[3]{%
20471 {%

```





```

20472 \usefontofkomafont{caption}{%
20473 \hb@xt@{hsize}{%
20474 \cap@left
20475 \if@RTL
20476 \beginR
20477 \fi
20478 \scr@@makesinglelinecaption{#1}{#2}{#3}%
20479 \if@RTL
20480 \endR
20481 \fi
20482 \cap@right
20483 }\par\kern\dp\strutbox%
20484 }%
20485 }\kern-\dp\strutbox
20486 }
20487 \renewcommand{\@makecaption}[2]{%
20488 \if@captionabove
20489 \vskip\belowcaptionskip
20490 \else
20491 \vskip\abovecaptionskip
20492 \fi
20493 \@@makecaption\@firstofone{#1}{#2}%
20494 \if@captionabove
20495 \vskip\abovecaptionskip
20496 \else
20497 \vskip\belowcaptionskip
20498 \fi
20499 }
20500
20501 \renewcommand{\scr@@makesinglelinecaption}[3]{%
20502 {\usekomafont{caption}{\strut\ignorespaces
20503 #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20504 \ignorespaces #3\unskip}}%
20505 }
20506
20507 \renewcommand{\scr@makemultilinecaption}[3]{%
20508 {%
20509 \usefontofkomafont{caption}{%
20510 \hb@xt@{hsize}{%
20511 \cap@left
20512 \vbox{\hsize\cap@width\linewidth\hsize
20513 \scr@ifundefinedorrelax{@captive}{%
20514 \ClassWarning{\KOMAClassName}{%
20515 \string\caption' outside float.\MessageBreak
20516 Seems you are using \string\caption' outside a
20517 float.\MessageBreak
20518 Maybe you are using a package that uses
20519 \string\@makecaption'\MessageBreak
20520 without setting \string@captive' before.\MessageBreak
20521 Because I cannot detect the caption type, I'm using\MessageBreak
20522 the empty one.%
20523 }%
20524 \let@captive\empty
20525 }{}}%

```



```

20526 \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
20527 \@nameuse{ragged\@captype caption}%
20528 }%
20529 \ifdofullc@p
20530 \@hangfrom{%
20531 \strut
20532 \scr@smashdp{%
20533 #1{%
20534 \usekomafont{caption}{%
20535 \usekomafont{captionlabel}{#2\captionformat}%
20536 }%
20537 }%
20538 }%
20539 }%
20540 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20541 \else
20542 \ifdim\cap@indent<\z@
20543 \strut
20544 #1{%
20545 {\usekomafont{caption}{%
20546 \usekomafont{captionlabel}{#2\captionformat}%
20547 }%
20548 }\par}%
20549 \noindent{{\usekomafont{caption}{%
20550 \hspace*{-\cap@indent}#3\scr@endstrut
20551 }}\par}%
20552 \else
20553 \if@capbreak
20554 \strut
20555 #1{%
20556 {\usekomafont{caption}{%
20557 \usekomafont{captionlabel}{#2\captionformat}%
20558 }%
20559 }\par}%
20560 \noindent\@hangfrom{\hspace*{\cap@indent}}%
20561 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20562 \else
20563 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
20564 {%
20565 \hspace{-\cap@indent}%
20566 \scr@smashdp{%
20567 #1{\usekomafont{caption}{%
20568 \usekomafont{captionlabel}{#2\captionformat}%
20569 }%
20570 }%
20571 }%
20572 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20573 }%
20574 \fi
20575 \fi
20576 \fi
20577 }%
20578 \cap@right
20579 }\par\kern\dp\strutbox

```



```

20580 }%
20581 }\kern-\dp\strutbox
20582 }
20583
20584 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20585 \if@komalongtable
20586 \renewcommand{\LT@makecaption}[3]{%
20587 \LT@mcol\LT@cols c{%
20588 \hbox to\z@{\hss\parbox[t]{\linewidth{%
20589 \if@captionabove\else\vskip\belowcaptionskip\fi
20590 \@makecaption{#1}{#2}{#3}%
20591 \endgraf
20592 \if@captionabove\vskip\abovecaptionskip\fi
20593 }%
20594 \hss
20595 }%
20596 }%
20597 }%
20598 \renewcommand*{\scr@LT@array}{}%
20599 \let\scr@LT@array=\LT@array
20600 \renewcommand*{\LT@array}{%
20601 \def\@captive{table}%
20602 \@ifundefined{LTcaptive}{%}{%
20603 \Ifstr{\LTcaptive}{%}{\let\@captive\LTcaptive}%
20604 }%
20605 \csname tocbasic_if_caption_above:TF\endcsname
20606 {\@captionabovetrue}{\@captionabovefalse}%
20607 \def\captionabove{\noalign{\global\@captionabovetrue}%
20608 \LT@caption}%
20609 \def\captionbelow{\noalign{\global\@captionabovefalse}%
20610 \LT@caption}%
20611 \scr@LT@array
20612 }%
20613 \ClassInfo{\KOMAClassName}{%
20614 longtable captions redefined%
20615 }%
20616 \fi
20617 }
20618
20619 \CloneTOCEntryStyle{tocline}{part}
20620 \TOCEntryStyleStartInitCode{part}{%
20621 \expandafter\renewcommand%
20622 \csname scr@tso@#1@linefill\endcsname{\hfill}%
20623 \expandafter\renewcommand%
20624 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20625 \expandafter\renewcommand%
20626 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20627 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20628 \expandafter\renewcommand\expandafter*%
20629 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
20630 }
20631
20632 \CloneTOCEntryStyle{tocline}{section}
20633 \TOCEntryStyleStartInitCode{section}{%

```



```

20634 \expandafter\renewcommand%
20635 \csname scr@tso@#1@linefill\endcsname{%
20636   \if@sectionentrywithdots
20637     {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
20638   \else
20639     \hfill
20640   \fi
20641 }%
20642 \expandafter\renewcommand%
20643 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
20644 \expandafter\renewcommand%
20645 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
20646 \expandafter\renewcommand\expandafter*%
20647 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
20648 }
20649
20650 \CloneTOCEntryStyle{tocline}{subsection}
20651 \TOCEntryStyleStartInitCode{subsection}{%
20652   \expandafter\renewcommand%
20653   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20654   \expandafter\renewcommand%
20655   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20656     {\normalfont\normalcolor #1}}%
20657 }
20658
20659 \CloneTOCEntryStyle{subsection}{default}
20660
20661 \DeclareSectionCommand[%
20662   style=section,%
20663   level=1,%
20664   indent=\z@,%
20665   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
20666   afterskip=2.3ex \@plus .2ex,%
20667   tocstyle=section,%
20668   tocindent=0pt,%
20669   tocnumwidth=1.5em%
20670 ]{section}
20671 \DeclareSectionCommand[%
20672   style=part,%
20673   level=\z@,%
20674   tocstyle=part,%
20675   toplevel=\m@ne,%
20676   tocindent=\z@,%
20677   tocnumwidth=2em%
20678 ]{part}
20679 \DeclareSectionCommand[%
20680   style=section,%
20681   level=2,%
20682   indent=\z@,%
20683   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
20684   afterskip=1.5ex \@plus .2ex,%
20685   tocstyle=subsection,%
20686   tocindent=1.5em,%
20687   tocnumwidth=2.3em%

```



```

20688 ]{subsection}
20689 \DeclareSectionCommand[%
20690   style=section,%
20691   level=3,%
20692   indent=\z@,%
20693   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
20694   afterskip=1.5ex \@plus .2ex,%
20695   tocstyle=subsection,%
20696   tocindent=3.8em,%
20697   tocnumwidth=3.2em%
20698 ]{subsubsection}
20699 \DeclareSectionCommand[%
20700   style=section,%
20701   level=4,%
20702   indent=\z@,%
20703   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20704   afterskip=-1em,%
20705   tocstyle=subsection,%
20706   tocindentfollows=subsubsection,%
20707   tocindent=7.0em,%
20708   tocnumwidth=4.1em%
20709 ]{paragraph}
20710 \DeclareSectionCommand[%
20711   style=section,%
20712   level=5,%
20713   indent=\scr@parindent,%
20714   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20715   afterskip=-1em,%
20716   tocstyle=subsection,%
20717   tocindent=10em,%
20718   tocnumwidth=5em%
20719 ]{subparagraph}

```

## 143 File scrbook-xetex-bidi.def

```

20720 \ProvidesFile{scrbook-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrbook class for
20721 \newcommand{\scr@saved@LTRfootnotetext}{}
20722 \newcommand{\scr@saved@RTLfootnotetext}{}
20723 \let\scr@saved@footnotetext\@footnotetext
20724 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20725 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20726 \renewcommand{\@footnotetext}[1]{%
20727   \scr@saved@footnotetext{#1}%
20728   \csname FN@mf@prepare\endcsname
20729 }
20730 \renewcommand{\@LTRfootnotetext}[1]{%
20731   \scr@saved@LTRfootnotetext{#1}%
20732   \csname FN@mf@prepare\endcsname
20733 }
20734 \renewcommand{\@RTLfootnotetext}[1]{%
20735   \scr@saved@RTLfootnotetext{#1}%
20736   \csname FN@mf@prepare\endcsname
20737 }
20738 \renewcommand\deffootnote[4][]{%

```



```

20739 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20740 \long\def\@makefntext##1{%
20741 \ExecuteDoHook{footnote/text/begin}%
20742 \raggedfootnote
20743 \if@RTL
20744 \rightskip
20745 \else
20746 \leftskip
20747 \fi
20748 #2
20749 \l@addto@macro\@trivlist{%
20750 \ifnum\@listdepth=\@ne\advance
20751 \if@RTL
20752 \rightmargin #2\relax
20753 \else
20754 \leftmargin #2\relax
20755 \fi
20756 \fi
20757 }%
20758 \parindent #3\noindent
20759 \IfArgIsEmpty{#1}{-}{%
20760 \hskip \dimexpr #1-#2\relax
20761 }%
20762 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20763 \ExecuteDoHook{footnote/text/end}%
20764 }%
20765 \else
20766 \ClassInfo{\KOMAClassName}{%
20767 Using old \string\@makefntext\space due to compatibility
20768 level\MessageBreak
20769 less than 3.22}%
20770 \long\def\@makefntext##1{%
20771 \setlength{\@tempdimc}{#3}%
20772 \def\@tempa{#1}\ifx\@tempa\@empty
20773 \setpar{\@par
20774 \@tempdima = \hsize
20775 \addtolength{\@tempdima}{-#2}%
20776 \if@RTL
20777 \parshape \@ne \z@ \@tempdima
20778 \else
20779 \parshape \@ne #2 \@tempdima
20780 \fi
20781 }%
20782 \else
20783 \addtolength{\@tempdimc}{#2}%
20784 \addtolength{\@tempdimc}{-#1}%
20785 \setpar{\@par
20786 \@tempdima = \hsize
20787 \addtolength{\@tempdima}{-#1}%
20788 \@tempdimb = \hsize
20789 \addtolength{\@tempdimb}{-#2}%
20790 \if@RTL
20791 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20792 \else

```



```

20793         \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20794     \fi
20795 }%
20796 \fi
20797 \par
20798 \parindent\@tempdimc\noindent
20799 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20800 }%
20801 \fi
20802 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20803 }
20804 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20805 \renewcommand*\left@footnoterule{%
20806     \normalsize\ftn@rule@test@values
20807     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20808     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20809     {\usekomafont{footnoterule}{%
20810         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20811     \kern 2.6\p@}
20812 \renewcommand*\right@footnoterule{%
20813     \normalsize\ftn@rule@test@values
20814     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20815     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20816     \nointerlineskip
20817     {\usekomafont{footnoterule}{%
20818         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20819         \kern 2.6\p@}
20820 \renewcommand*\maketitle[1][1]{%
20821     \expandafter\ifnum \curname scr@v3.12\endcurname>\scr@compatibility\relax
20822     \else
20823         \def\and{%
20824             \end{tabular}%
20825             \hskip 1em \@plus.17fil%
20826             \begin{tabular}[t]{c}%
20827         }%
20828     \fi
20829     \if@titlepage
20830         \begin{titlepage}
20831             \setcounter{page}{%
20832                 #1%
20833             }%
20834             \if@titlepageiscoverpage
20835                 \edef\titlename@restore{%
20836                     \noexpand\endgroup
20837                     \noexpand\global\noexpand\@colht\the\@colht
20838                     \noexpand\global\noexpand\@colroom\the\@colroom
20839                     \noexpand\global\vsizethe\vsizethe
20840                     \noexpand\global\noexpand\@titlepageiscoverpagefalse
20841                     \noexpand\let\noexpand\titlename@restore\noexpand\relax
20842                 }%
20843                 \begingroup
20844                 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20845                 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20846                 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax

```



```

20847      \textwidth=\dimexpr
20848      \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20849      \textheight=\dimexpr
20850      \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20851      \headheight=0pt
20852      \headsep=0pt
20853      \footskip=\baselineskip
20854      \@colht=\textheight
20855      \@colroom=\textheight
20856      \vsize=\textheight
20857      \columnwidth=\textwidth
20858      \hsize=\columnwidth
20859      \linewidth=\hsize
20860    \else
20861      \let\tITLEPAGE@restore\relax
20862    \fi
20863    \let\footnotesize\small
20864    \let\right@footnoterule\relax
20865    \let\left@footnoterule\relax
20866    \let\textwidth@footnoterule\relax
20867    \let\footnote\thanks
20868    \let\LTRfootnote\LTRthanks
20869    \let\RTLfootnote\RTLthanks
20870    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20871    \let\@oldmakefnmark\@makefnmark
20872    \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20873    \ifx\@extratitle\@empty
20874      \ifx\@frontispiece\@empty
20875      \else
20876        \if@twoside\mbox{}\next@tpage\fi
20877        \noindent\@frontispiece\next@tdpage
20878      \fi
20879    \else
20880      \noindent\@extratitle
20881      \ifx\@frontispiece\@empty
20882      \else
20883        \next@tpage
20884        \noindent\@frontispiece
20885      \fi
20886      \next@tdpage
20887    \fi
20888    \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20889    \ifx\@titlehead\@empty \else
20890      \begin{minipage}[t]{\textwidth}%
20891        \usekomafont{titlehead}{\@titlehead\par}%
20892      \end{minipage}\par
20893    \fi
20894    \null\vfill
20895    \begin{center}
20896      \ifx\@subject\@empty \else
20897        {\usekomafont{subject}{\@subject\par}}%
20898        \vskip 3em
20899      \fi
20900      {\usekomafont{title}{\huge \@title\par}}%

```





```

20901      \vskip 1em
20902      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20903      \vskip 2em
20904      {%
20905          \usekomafont{author}{%
20906              \lineskip 0.75em
20907              \begin{tabular}[t]{c}
20908                  \@author
20909              \end{tabular}\par
20910          }%
20911      }%
20912      \vskip 1.5em
20913      {\usekomafont{date}{\@date \par}}%
20914      \vskip \z@ \@plus3fill
20915      {\usekomafont{publishers}{\@publishers \par}}%
20916      \vskip 3em
20917      \end{center}\par
20918      \@thanks\global\let\@thanks\@empty
20919      \vfill\null
20920      \if@twoside
20921          \@tempswatrue
20922          \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20923          \else
20924              \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20925                  \@tempswafalse
20926              \fi\fi
20927          \fi
20928          \if@tempswa
20929              \next@tpage
20930              \begin{minipage}[t]{\textwidth}
20931                  \@uppertitleback
20932              \end{minipage}\par
20933              \vfill
20934              \begin{minipage}[b]{\textwidth}
20935                  \@lowertitleback
20936              \end{minipage}\par
20937              \@thanks\global\let\@thanks\@empty
20938          \fi
20939      \else
20940          \ifx\@uppertitleback\@empty\else
20941              \ClassWarning{\KOMAClassName}{%
20942                  non empty \string\uppertitleback\space ignored
20943                  by \string\maketitle\MessageBreak
20944                  in `twoside=false' mode%
20945              }%
20946          \fi
20947          \ifx\@lowertitleback\@empty\else
20948              \ClassWarning{\KOMAClassName}{%
20949                  non empty \string\lowertitleback\space ignored
20950                  by \string\maketitle\MessageBreak
20951                  in `twoside=false' mode%
20952              }%
20953          \fi
20954      \fi

```



```

20955 \ifx\@dedication\@empty
20956 \else
20957 \next@tdpage\null\vfill
20958 {\centering\usekomafont{dedication}{\@dedication \par}}%
20959 \vskip \z@ \@plus3fill
20960 \@thanks\global\let\@thanks\@empty
20961 \cleardoubleemptypage
20962 \fi
20963 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20964 \end{titlepage}
20965 \else
20966 \par
20967 \@tempcnta=%
20968 #1%
20969 \relax\ifnum\@tempcnta=1\else
20970 \ClassWarning{\KOMAClassName}{%
20971 Optional argument of \string\maketitle\space ignored\MessageBreak
20972 in `titlepage=false' mode%
20973 }%
20974 \fi
20975 \ifx\@uppertitleback\@empty\else
20976 \ClassWarning{\KOMAClassName}{%
20977 non empty \string\uppertitleback\space ignored
20978 by \string\maketitle\MessageBreak
20979 in `titlepage=false' mode%
20980 }%
20981 \fi
20982 \ifx\@lowertitleback\@empty\else
20983 \ClassWarning{\KOMAClassName}{%
20984 non empty \string\lowertitleback\space ignored
20985 by \string\maketitle\MessageBreak
20986 in `titlepage=false' mode%
20987 }%
20988 \fi
20989 \begingroup
20990 \let\titlepage@restore\relax
20991 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20992 \let\@oldmakefnmark\@makefnmark
20993 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20994 \next@tdpage
20995 \if@twocolumn
20996 \ifnum \col@number=\@one
20997 \ifx\@extratitle\@empty
20998 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20999 \else
21000 \makeextratitle
21001 \fi
21002 \ifx\@frontispiece\@empty
21003 \ifx\@extratitle\@empty\else\next@tdpage\fi
21004 \else
21005 \next@tpage
21006 \makefrontispiece
21007 \next@tdpage
21008 \fi

```



```

21009         \@maketitle
21010     \else
21011         \ifx\@extratitle\@empty
21012             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21013         \else
21014             \twocolumn[\@makeextratitle]%
21015         \fi
21016         \ifx\@frontispiece\@empty
21017             \ifx\@extratitle\@empty\else\next@tdpage\fi
21018         \else
21019             \next@tpage
21020             \twocolumn[\@makefrontispiece]%
21021             \next@tdpage
21022         \fi
21023         \twocolumn[\@maketitle]%
21024     \fi
21025 \else
21026     \ifx\@extratitle\@empty
21027         \ifx\@frontispiece\@empty\else \mbox{}\fi
21028     \else
21029         \@makeextratitle
21030     \fi
21031     \ifx\@frontispiece\@empty
21032         \ifx\@extratitle\@empty\else\next@tdpage\fi
21033     \else
21034         \next@tpage
21035         \@makefrontispiece
21036         \next@tdpage
21037     \fi
21038     \@maketitle
21039 \fi
21040 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21041 \@thanks\global\let\@thanks\@empty
21042 \endgroup
21043 \fi
21044 \setcounter{footnote}{0}%
21045 \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
21046     \let\thanks\relax
21047     \let\LTRthanks\relax
21048     \let\RTLthanks\relax
21049     \let\maketitle\relax
21050     \let\@maketitle\relax
21051     \global\let\@thanks\@empty
21052     \global\let\@author\@empty
21053     \global\let\@date\@empty
21054     \global\let\@title\@empty
21055     \global\let\@subtitle\@empty
21056     \global\let\@extratitle\@empty
21057     \global\let\@frontispiece\@empty
21058     \global\let\@titlehead\@empty
21059     \global\let\@subject\@empty
21060     \global\let\@publishers\@empty
21061     \global\let\@uppertitleback\@empty
21062     \global\let\@lowertitleback\@empty

```



```

21063 \global\let\@dedication\@empty
21064 \global\let\author\relax
21065 \global\let\title\relax
21066 \global\let\extratitle\relax
21067 \global\let\titlehead\relax
21068 \global\let\subject\relax
21069 \global\let\publishers\relax
21070 \global\let\uppertitleback\relax
21071 \global\let\lowertitleback\relax
21072 \global\let\dedication\relax
21073 \global\let\date\relax
21074 \fi
21075 \global\let\and\relax
21076 }%
21077 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21078 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21079 \renewcommand*\thesection{%
21080 \expandafter\ifnum\scr@v@is@gt{2.97d}%
21081 \if@mainmatter\thechapter\@SepMark\fi
21082 \else
21083 \thechapter\@SepMark%
21084 \fi
21085 \@arabic\c@section
21086 }
21087 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
21088 \renewcommand*\thesubsubsection{%
21089 \thesubsection\@SepMark\@arabic\c@subsubsection
21090 }
21091 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21092 \renewcommand*\thesubparagraph{%
21093 \theparagraph\@SepMark\@arabic\c@subparagraph
21094 }
21095 \expandafter\ifnum\scr@v@is@le{2.97d}%
21096 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21097 \fi
21098 \expandafter\ifnum\scr@v@is@le{2.97d}%
21099 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21100 \fi
21101 \renewcommand*\theequation{%
21102 \expandafter\ifnum\scr@v@is@gt{2.97d}%
21103 \if@mainmatter\thechapter\@SepMark\fi
21104 \else
21105 \thechapter\@SepMark%
21106 \fi
21107 \@arabic\c@equation
21108 }
21109 \renewenvironment{thebibliography}[1]{%
21110 \if@bib@break@
21111 \bib@beginhook
21112 \else
21113 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21114 \setchapterpreamble{\bibpreamble}%
21115 \fi\fi
21116 \bib@heading

```



```

21117 \bib@beginhook
21118 \bib@before@hook
21119 \fi
21120 \renewcommand{\BreakBibliography}[1]{%
21121 \@bib@break
21122 \end{thebibliography}%
21123 \begingroup ##1\endgroup
21124 \begin{thebibliography}{#1}
21125 }%
21126 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
21127 \bidi@thebibliography@font@hook%
21128 \list{%
21129 \@biblabel{\@arabic\c@enumiv}%
21130 }{%
21131 \settowidth\labelwidth{\@biblabel{#1}}%
21132 \leftmargin\labelwidth
21133 \advance\leftmargin\labelsep
21134 \@openbib@code
21135 \if@bib@break@
21136 \edef\@tempa{%
21137 \noexpand\usecounter{enumiv}%
21138 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21139 }\@tempa
21140 \no@bib@break
21141 \else
21142 \usecounter{enumiv}%
21143 \fi
21144 \let\p@enumiv\@empty
21145 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21146 }%
21147 \sloppy\clubpenalty4000 \widowpenalty4000
21148 \sfcode`\.\=\@m
21149 }{%
21150 \if@bib@break@
21151 \def\@noitemerr{%
21152 \@latex@warning{%
21153 \string\BreakBibliography\space at begin of `thebibliography'
21154 environment\MessageBreak
21155 or following \string\BreakBibliography}%
21156 }%
21157 \else
21158 \def\@noitemerr{%
21159 \@latex@warning{%
21160 Empty `thebibliography' environment or
21161 \string\BreakBibliography\MessageBreak
21162 before end of `thebibliography' environment}%
21163 }%
21164 \fi
21165 \endlist
21166 \if@bib@break@
21167 \else
21168 \bib@after@hook
21169 \let\bib@before@hook\@empty
21170 \let\bib@after@hook\@empty

```



```

21171 \fi
21172 \bib@endhook
21173 }
21174 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21175 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21176 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21177 \renewcommand\marginline[1]{%
21178 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21179 }
21180 \renewcommand{\@@makecaption}[3]{%
21181 \cap@margin
21182 \begingroup
21183 \ifonelinecaptions
21184 \def\stepcounter##1{\advance\value{##1}\@one}%
21185 \let\refstepcounter\stepcounter
21186 \let\label\@gobble
21187 \let\@footnotetext=\@gobble
21188 \let\@LTRfootnotetext=\@gobble
21189 \let\@RTLfootnotetext=\@gobble
21190 \let\hypertarget\@gobbletwo
21191 \edef\@xnewline{%
21192 \unexpanded{\ClassInfo{\KOMAClassName}{%
21193 Workaround for not recommended usage of \string\\ or\MessageBreak
21194 \string\newline in caption text
21195 }%
21196 \hspace*{\linewidth}\hspace{1sp}%
21197 }%
21198 \unexpanded\expandafter{\@xnewline}%
21199 }%
21200 \edef\@xcentercr{%
21201 \unexpanded{\ClassInfo{\KOMAClassName}{%
21202 Workaround for not recommended usage of \string\\ or\MessageBreak
21203 \string\newline in caption text
21204 }%
21205 \hspace*{\linewidth}\hspace{1sp}%
21206 }%
21207 \unexpanded\expandafter{\@xcentercr}%
21208 }%
21209 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21210 \ifdim\@tempdima>\cap@width
21211 \aftergroup\scr@makemultilinecaption
21212 \else
21213 \aftergroup\scr@makesinglelinecaption
21214 \fi
21215 \else
21216 \aftergroup\scr@makemultilinecaption
21217 \fi
21218 \endgroup
21219 {#1}{#2}{#3}%
21220 }
21221 \renewcommand{\scr@makesinglelinecaption}[3]{%
21222 {%
21223 \usefontofkomafont{caption}{%
21224 \hb@xt@{\hspace{1sp}}{\hsize}%

```



```

21225         \cap@left
21226         \if@RTL
21227             \beginR
21228         \fi
21229         \scr@makesinglelinecaption{#1}{#2}{#3}%
21230         \if@RTL
21231             \endR
21232         \fi
21233         \cap@right
21234     }\par\kern\dp\strutbox%
21235 }%
21236 }\kern-\dp\strutbox
21237 }
21238 \renewcommand{\@makecaption}[2]{%
21239     \if@captionabove
21240         \vskip\belowcaptionskip
21241     \else
21242         \vskip\abovecaptionskip
21243     \fi
21244     \@makecaption\@firstofone{#1}{#2}%
21245     \if@captionabove
21246         \vskip\abovecaptionskip
21247     \else
21248         \vskip\belowcaptionskip
21249     \fi
21250 }
21251
21252 \renewcommand{\scr@makesinglelinecaption}[3]{%
21253     {\usekomafont{caption}{\strut\ignorespaces
21254         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21255         \ignorespaces #3\unskip}}%
21256 }
21257
21258 \renewcommand{\scr@makemultilinecaption}[3]{%
21259     {%
21260         \usefontofkomafont{caption}{%
21261             \hb@xt@\hsize{%
21262                 \cap@left
21263                 \vbox{\hsize\cap@width\linewidth\hsize
21264                     \scr@ifundefinedorrelax{@captype}{%
21265                         \ClassWarning{KOMAClassName}{%
21266                             `\'string\caption' outside float.\MessageBreak
21267                             Seems you are using `\'string\caption' outside a
21268                             float.\MessageBreak
21269                             Maybe you are using a package that uses
21270                             `\'string\@makecaption'\MessageBreak
21271                             without setting `\'string\@captype' before.\MessageBreak
21272                             Because I cannot detect the caption type, I'm using\MessageBreak
21273                             the empty one.%
21274                         }%
21275                         \let\@captype\@empty
21276                     }{}%
21277                     \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
21278                         \@nameuse{ragged\@captype caption}%

```



```

21279 }%
21280 \ifdofullc@p
21281   \@hangfrom{%
21282     \strut
21283     \scr@smashdp{%
21284       #1{%
21285         \usekomafont{caption}{%
21286           \usekomafont{captionlabel}{#2\captionformat}%
21287         }%
21288       }%
21289     }%
21290   }%
21291   {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21292 \else
21293   \ifdim\cap@indent<\z@
21294     \strut
21295     #1{%
21296       {\usekomafont{caption}{%
21297         \usekomafont{captionlabel}{#2\captionformat}%
21298       }%
21299     }\par}%
21300     \noindent{{\usekomafont{caption}{%
21301       \hspace*{-\cap@indent}#3\scr@endstrut
21302     }}\par}%
21303   \else
21304     \if@capbreak
21305       \strut
21306       #1{%
21307         {\usekomafont{caption}{%
21308           \usekomafont{captionlabel}{#2\captionformat}%
21309         }
21310       }\par}%
21311       \noindent\@hangfrom{\hspace*{\cap@indent}}%
21312       {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21313     \else
21314       \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21315       {%
21316         \hspace{-\cap@indent}%
21317         \scr@smashdp{%
21318           #1{\usekomafont{caption}{%
21319             \usekomafont{captionlabel}{#2\captionformat}%
21320           }%
21321         }%
21322       }%
21323       {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21324     }%
21325   \fi
21326 \fi
21327 \fi
21328 }%
21329 \cap@right
21330 }\par\kern\dp\strutbox
21331 }%
21332 }\kern-\dp\strutbox

```





```

21333 }
21334
21335
21336 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21337   \if@komalongtable
21338     \renewcommand{\LT@makecaption}[3]{%
21339       \LT@mcol\LT@cols c{%
21340         \hbox to\z@{\hss\parbox[t]{\linewidth{%
21341           \if@captionabove\else\vskip\belowcaptionskip\fi
21342           \@makecaption{#1}{#2}{#3}%
21343           \endgraf
21344           \if@captionabove\vskip\abovecaptionskip\fi
21345           }%
21346           \hss
21347         }%
21348       }%
21349     }%
21350     \renewcommand*{\scr@LT@array}{}%
21351     \let\scr@LT@array=\LT@array
21352     \renewcommand*{\LT@array}{%
21353       \def\@capttype{table}%
21354       \@ifundefined{LTcapttype}{}{%
21355         \Ifstr{\LTcapttype}{}{}{\let\@capttype\LTcapttype}%
21356       }%
21357       \csname tocbasic_if_caption_above:TF\endcsname
21358         {\@captionabovetrue}{\@captionabovefalse}%
21359       \def\captionabove{\noalign{\global\@captionabovetrue}%
21360         \LT@caption}%
21361       \def\captionbelow{\noalign{\global\@captionabovefalse}%
21362         \LT@caption}%
21363       \scr@LT@array
21364     }%
21365     \ClassInfo{\KOMAClassName}{%
21366       longtable captions redefined%
21367     }%
21368   \fi
21369 }
21370
21371 \CloneTOCEntryStyle{tocline}{part}
21372 \TOCEntryStyleStartInitCode{part}{%
21373   \expandafter\renewcommand%
21374   \csname scr@tso@#1@linefill\endcsname{\hfill}%
21375   \expandafter\renewcommand%
21376   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
21377   \expandafter\renewcommand%
21378   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21379     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21380   \expandafter\renewcommand\expandafter*%
21381   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
21382 }
21383
21384 \CloneTOCEntryStyle{tocline}{chapter}
21385 \TOCEntryStyleStartInitCode{chapter}{%
21386   \expandafter\renewcommand%

```



```

21387 \csname scr@tso@#1@linefill\endcsname{%
21388   \if@chapterentrywithdots
21389     {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21390   \else
21391     \hfill
21392   \fi
21393 }%
21394 \expandafter\renewcommand%
21395 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
21396 \expandafter\renewcommand%
21397 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21398   {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21399 \expandafter\renewcommand\expandafter*%
21400 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
21401 }
21402
21403 \CloneTOCEntryStyle{tocline}{section}
21404 \TOCEntryStyleStartInitCode{section}{%
21405   \expandafter\renewcommand%
21406   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21407   \expandafter\renewcommand%
21408   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21409     {\normalfont\normalcolor ##1}}%
21410 }
21411
21412 \CloneTOCEntryStyle{section}{default}
21413
21414 \DeclareSectionCommand[%
21415   style=chapter,%
21416   level=\z@,%
21417   pagestyle=plain,%
21418   tocstyle=chapter,%
21419   tocindent=\z@,%
21420   tocnumwidth=1.5em%
21421 ]{chapter}
21422 \DeclareSectionCommand[%
21423   style=section,%
21424   level=1,%
21425   indent=\z@,%
21426   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
21427   afterskip=2.3ex \@plus.2ex,%
21428   tocstyle=section,%
21429   tocindentfollows=chapter,%
21430   tocindent=1.5em,%
21431   tocnumwidth=2.3em%
21432 ]{section}
21433 \DeclareSectionCommand[%
21434   style=part,%
21435   level=\m@ne,%
21436   pagestyle=plain,%
21437   tocstyle=part,%
21438   toplevel=\m@ne,%
21439   tocindent=\z@,%
21440   tocnumwidth=2em%

```



```

21441 ]{part}
21442 \DeclareSectionCommand[%
21443   style=section,%
21444   level=2,%
21445   indent=\z@,%
21446   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
21447   afterskip=1.5ex \@plus .2ex,%
21448   tocstyle=section,%
21449   tocindent=3.8em,%
21450   tocnumwidth=3.2em%
21451 ]{subsection}
21452 \DeclareSectionCommand[%
21453   style=section,%
21454   level=3,%
21455   indent=\z@,%
21456   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
21457   afterskip=1.5ex \@plus .2ex,%
21458   tocstyle=section,%
21459   tocindent=7.0em,%
21460   tocnumwidth=4.1em%
21461 ]{subsubsection}
21462 \DeclareSectionCommand[%
21463   style=section,%
21464   level=4,%
21465   indent=\z@,%
21466   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
21467   afterskip=-1em,%
21468   tocindentfollows=subsubsection,%
21469   tocstyle=section,%
21470   tocindent=10em,%
21471   tocnumwidth=5em%
21472 ]{paragraph}
21473 \DeclareSectionCommand[%
21474   style=section,%
21475   level=5,%
21476   indent=\scr@parindent,%
21477   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
21478   afterskip=-1em,%
21479   tocstyle=section,%
21480   tocindent=12em,%
21481   tocnumwidth=6em%
21482 ]{subparagraph}

```

## 144 File `scrreprt-xetex-bidi.def`

```

21483 \ProvidesFile{scrreprt-xetex-bidi.def}[2025/09/30 v1.5 bidi adaptations for scrreprt class f
21484 \newcommand{\scr@saved@LTRfootnotetext}{}
21485 \newcommand{\scr@saved@RTLfootnotetext}{}
21486 \let\scr@saved@footnotetext\@footnotetext
21487 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21488 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21489 \renewcommand{\@footnotetext}[1]{%
21490   \scr@saved@footnotetext{#1}%
21491   \csname FN@mfb@prepare\endcsname

```



```

21492 }
21493 \renewcommand{\@LTRfootnotetext}[1]{%
21494   \scr@saved@LTRfootnotetext{#1}%
21495   \csname FN@mfb@prepare\endcsname
21496 }
21497 \renewcommand{\@RTLfootnotetext}[1]{%
21498   \scr@saved@RTLfootnotetext{#1}%
21499   \csname FN@mfb@prepare\endcsname
21500 }
21501 \renewcommand\deffootnote[4][1]{%
21502   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21503     \long\def\@makefnmark{#1}{%
21504       \ExecuteDoHook{footnote/text/begin}%
21505       \raggedfootnote
21506       \if@RTL
21507         \rightskip
21508       \else
21509         \leftskip
21510       \fi
21511       #2
21512       \l@addto@macro\@trivlist{%
21513         \ifnum\@listdepth=\@ne
21514           \if@RTL
21515             \advance\rightmargin #2\relax
21516           \else
21517             \advance\leftmargin #2\relax
21518           \fi
21519         \fi
21520       }%
21521       \parindent #3\noindent
21522       \IfArgIsEmpty{#1}{-}{%
21523         \hskip \dimexpr #1-#2\relax
21524       }%
21525       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21526       \ExecuteDoHook{footnote/text/end}%
21527     }%
21528   \else
21529     \ClassInfo{\KOMAClassName}{%
21530       Using old \string\@makefnmark\space due to compatibility
21531       level\MessageBreak
21532       less than 3.22}%
21533     \long\def\@makefnmark{#1}{%
21534       \setlength{\@tempdimc}{#3}%
21535       \def\@tempa{#1}\ifx\@tempa\@empty
21536         \@setpar{\@par
21537           \@tempdima = \hsize
21538           \addtolength{\@tempdima}{-#2}%
21539           \if@RTL
21540             \parshape \@ne \z@ \@tempdima
21541           \else
21542             \parshape \@ne #2 \@tempdima
21543           \fi
21544         }%
21545       \else

```



```

21546      \addtolength{\@tempdimc}{#2}%
21547      \addtolength{\@tempdimc}{-#1}%
21548      \@setpar{\@@par
21549        \@tempdima = \hspace
21550        \addtolength{\@tempdima}{-#1}%
21551        \@tempdimb = \hspace
21552        \addtolength{\@tempdimb}{-#2}%
21553        \ifRTL
21554          \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21555        \else
21556          \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21557        \fi
21558      }%
21559      \fi
21560      \par
21561      \parindent\@tempdimc\noindent
21562      \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21563    }%
21564  \fi
21565  \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21566 }
21567 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21568 \renewcommand*\left@footnoterule{%
21569   \normalsize\ftn@rule@test@values
21570   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21571   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21572   {\usekomafont{footnoterule}{%
21573     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21574   \kern 2.6\p@}
21575 \renewcommand*\right@footnoterule{%
21576   \normalsize\ftn@rule@test@values
21577   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21578   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21579   \nointerlineskip
21580   {\usekomafont{footnoterule}{%
21581     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21582     \kern 2.6\p@}
21583 \renewcommand*\maketitle[1][1]{%
21584   \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
21585   \else
21586     \def\and{%
21587       \end{tabular}%
21588       \hskip 1em \@plus.17fil%
21589       \begin{tabular}[t]{c}%
21590     }%
21591   \fi
21592   \if@titlepage
21593     \begin{titlepage}
21594       \setcounter{page}{%
21595         #1%
21596       }%
21597     \if@titlepageiscoverpage
21598       \edef\tITLEPAGE@restore{%
21599         \noexpand\endgroup

```



```

21600         \noexpand\global\noexpand\@colht\the\@colht
21601         \noexpand\global\noexpand\@colroom\the\@colroom
21602         \noexpand\global\vsizethe\vsizethe
21603         \noexpand\global\noexpand\@titlepageiscoverpagefalse
21604         \noexpand\let\noexpand\titlepage@restore\noexpand\relax
21605     }%
21606     \begingroup
21607     \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21608     \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21609     \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21610     \textwidth=\dimexpr
21611     \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21612     \textheight=\dimexpr
21613     \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21614     \headheight=0pt
21615     \headsep=0pt
21616     \footskip=\baselineskip
21617     \@colht=\textheight
21618     \@colroom=\textheight
21619     \vsizethe=\textheight
21620     \columnwidth=\textwidth
21621     \hsize=\columnwidth
21622     \linewidth=\hsize
21623     \else
21624         \let\titlepage@restore\relax
21625     \fi
21626     \let\footnotesize\small
21627     \let\right@footnoterule\relax
21628     \let\left@footnoterule\relax
21629     \let\textwidth@footnoterule\relax
21630     \let\footnote\thanks
21631     \let\LTRfootnote\LTRthanks
21632     \let\RTLfootnote\RTLthanks
21633     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21634     \let\@oldmakefnmark\@makefnmark
21635     \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21636     \ifx\@extratitle\@empty
21637         \ifx\@frontispiece\@empty
21638             \else
21639                 \if@twoside\mbox{}\next@tpage\fi
21640                 \noindent\@frontispiece\next@tdpage
21641             \fi
21642         \else
21643             \noindent\@extratitle
21644             \ifx\@frontispiece\@empty
21645                 \else
21646                     \next@tpage
21647                     \noindent\@frontispiece
21648                 \fi
21649                 \next@tdpage
21650             \fi
21651         \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21652         \ifx\@titlehead\@empty \else
21653             \begin{minipage}[t]{\textwidth}%

```



```

21654         \usekomafont{titlehead}{\@titlehead\par}%
21655     \end{minipage}\par
21656 \fi
21657 \null\vfill
21658 \begin{center}
21659     \ifx\@subject\@empty \else
21660         {\usekomafont{subject}{\@subject\par}}%
21661         \vskip 3em
21662     \fi
21663     {\usekomafont{title}{\huge \@title\par}}%
21664     \vskip 1em
21665     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21666     \vskip 2em
21667     {%
21668         \usekomafont{author}{%
21669             \lineskip 0.75em
21670             \begin{tabular}[t]{c}
21671                 \@author
21672             \end{tabular}\par
21673         }%
21674     }%
21675     \vskip 1.5em
21676     {\usekomafont{date}{\@date \par}}%
21677     \vskip \z@ \@plus3fill
21678     {\usekomafont{publishers}{\@publishers \par}}%
21679     \vskip 3em
21680 \end{center}\par
21681 \@thanks\global\let\@thanks\@empty
21682 \vfill\null
21683 \if@twoside
21684     \@tempswatrue
21685     \expandafter\ifnum \@nameuse{scr@v03.12}>\scr@compatibility\relax
21686     \else
21687         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21688             \@tempswafalse
21689         \fi\fi
21690     \fi
21691     \if@tempswa
21692         \next@tpage
21693         \begin{minipage}[t]{\textwidth}
21694             \@uppertitleback
21695         \end{minipage}\par
21696         \vfill
21697         \begin{minipage}[b]{\textwidth}
21698             \@lowertitleback
21699         \end{minipage}\par
21700         \@thanks\global\let\@thanks\@empty
21701     \fi
21702 \else
21703     \ifx\@uppertitleback\@empty\else
21704         \ClassWarning{\KOMAClassName}{%
21705             non empty \string\uppertitleback\space ignored
21706             by \string\maketitle\MessageBreak
21707             in `twoside=false' mode%

```



```

21708         }%
21709     \fi
21710     \ifx\@lowertitleback\@empty\else
21711         \ClassWarning{\KOMAClassName}{%
21712             non empty \string\lowertitleback\space ignored
21713             by \string\maketitle\MessageBreak
21714             in `twoside=false' mode%
21715         }%
21716     \fi
21717 \fi
21718 \ifx\@dedication\@empty
21719 \else
21720     \next@tdpage\null\vfill
21721     {\centering\usekomafont{dedication}{\@dedication \par}}%
21722     \vskip \z@ \@plus3fill
21723     \@thanks\global\let\@thanks\@empty
21724     \cleardoubleemptypage
21725 \fi
21726 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21727 \end{titlepage}
21728 \else
21729     \par
21730     \@tempcnta=%
21731     #1%
21732     \relax\ifnum\@tempcnta=1\else
21733         \ClassWarning{\KOMAClassName}{%
21734             Optional argument of \string\maketitle\space ignored\MessageBreak
21735             in `titlepage=false' mode%
21736         }%
21737     \fi
21738     \ifx\@uppertitleback\@empty\else
21739         \ClassWarning{\KOMAClassName}{%
21740             non empty \string\uppertitleback\space ignored
21741             by \string\maketitle\MessageBreak
21742             in `titlepage=false' mode%
21743         }%
21744     \fi
21745     \ifx\@lowertitleback\@empty\else
21746         \ClassWarning{\KOMAClassName}{%
21747             non empty \string\lowertitleback\space ignored
21748             by \string\maketitle\MessageBreak
21749             in `titlepage=false' mode%
21750         }%
21751     \fi
21752 \begingroup
21753     \let\titlepage@restore\relax
21754     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21755     \let\@oldmakefnmark\@makefnmark
21756     \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21757     \next@tdpage
21758     \if@twocolumn
21759         \ifnum \col@number=\@one
21760             \ifx\@extratitle\@empty
21761                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi

```





```

21762         \else
21763             \@makeextratitle
21764         \fi
21765         \ifx\@frontispiece\@empty
21766             \ifx\@extratitle\@empty\else\next@tdpage\fi
21767         \else
21768             \next@tpage
21769             \@makefrontispiece
21770             \next@tdpage
21771         \fi
21772         \@maketitle
21773     \else
21774         \ifx\@extratitle\@empty
21775             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21776         \else
21777             \twocolumn[\@makeextratitle]%
21778         \fi
21779         \ifx\@frontispiece\@empty
21780             \ifx\@extratitle\@empty\else\next@tdpage\fi
21781         \else
21782             \next@tpage
21783             \twocolumn[\@makefrontispiece]%
21784             \next@tdpage
21785         \fi
21786         \twocolumn[\@maketitle]%
21787     \fi
21788 \else
21789     \ifx\@extratitle\@empty
21790         \ifx\@frontispiece\@empty\else \mbox{}\fi
21791     \else
21792         \@makeextratitle
21793     \fi
21794     \ifx\@frontispiece\@empty
21795         \ifx\@extratitle\@empty\else\next@tdpage\fi
21796     \else
21797         \next@tpage
21798         \@makefrontispiece
21799         \next@tdpage
21800     \fi
21801     \@maketitle
21802 \fi
21803 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21804 \@thanks\global\let\@thanks\@empty
21805 \endgroup
21806 \fi
21807 \setcounter{footnote}{0}%
21808 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21809     \let\thanks\relax
21810     \let\LTRthanks\relax
21811     \let\RTLthanks\relax
21812     \let\maketitle\relax
21813     \let\@maketitle\relax
21814     \global\let\@thanks\@empty
21815     \global\let\@author\@empty

```



```

21816 \global\let\@date\@empty
21817 \global\let\@title\@empty
21818 \global\let\@subtitle\@empty
21819 \global\let\@extratitle\@empty
21820 \global\let\@frontispiece\@empty
21821 \global\let\@titlehead\@empty
21822 \global\let\@subject\@empty
21823 \global\let\@publishers\@empty
21824 \global\let\@uppertitleback\@empty
21825 \global\let\@lowertitleback\@empty
21826 \global\let\@dedication\@empty
21827 \global\let\author\relax
21828 \global\let\title\relax
21829 \global\let\extratitle\relax
21830 \global\let\titlehead\relax
21831 \global\let\subject\relax
21832 \global\let\publishers\relax
21833 \global\let\uppertitleback\relax
21834 \global\let\lowertitleback\relax
21835 \global\let\dedication\relax
21836 \global\let\date\relax
21837 \fi
21838 \global\let\and\relax
21839 }%
21840 \def\raggedsection{\ifRTL\raggedleft\else\raggedright\fi}
21841 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21842 \renewcommand*\thesection{%
21843 \thechapter\@SepMark%
21844 \@arabic\c@section
21845 }
21846 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
21847 \renewcommand*\thesubsubsection{%
21848 \thesubsection\@SepMark\@arabic\c@subsubsection
21849 }
21850 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21851 \renewcommand*\thesubparagraph{%
21852 \theparagraph\@SepMark\@arabic\c@subparagraph
21853 }
21854 \expandafter\ifnum\scr@v@is@le{2.97d}%
21855 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21856 \fi
21857 \expandafter\ifnum\scr@v@is@le{2.97d}%
21858 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21859 \fi
21860 \renewcommand*\theequation{%
21861 \thechapter\@SepMark%
21862 \@arabic\c@equation
21863 }
21864 \renewenvironment{thebibliography}[1]{%
21865 \if@bib@break@
21866 \bib@beginhook
21867 \else
21868 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21869 \setchapterpreamble{\bibpreamble}%

```



```

21870 \fi\fi
21871 \bib@heading
21872 \bib@beginhook
21873 \bib@before@hook
21874 \fi
21875 \renewcommand{\BreakBibliography}[1]{%
21876 \@bib@break
21877 \end{thebibliography}%
21878 \begingroup ##1\endgroup
21879 \begin{thebibliography}{#1}
21880 }%
21881 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21882 \bidi@thebibliography@font@hook%
21883 \list{%
21884 \@biblabel{\@arabic\c@enumiv}%
21885 }{%
21886 \settowidth\labelwidth{\@biblabel{#1}}%
21887 \leftmargin\labelwidth
21888 \advance\leftmargin\labelsep
21889 \@openbib@code
21890 \if@bib@break@
21891 \edef\@tempa{%
21892 \noexpand\usecounter{enumiv}%
21893 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21894 }\@tempa
21895 \no@bib@break
21896 \else
21897 \usecounter{enumiv}%
21898 \fi
21899 \let\p@enumiv\@empty
21900 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21901 }%
21902 \sloppy\clubpenalty4000 \widowpenalty4000
21903 \sfcode`\.=\@m
21904 }{%
21905 \if@bib@break@
21906 \def\@noitemerr{%
21907 \@latex@warning{%
21908 \string\BreakBibliography\space at begin of `thebibliography'
21909 environment\MessageBreak
21910 or following \string\BreakBibliography}%
21911 }%
21912 \else
21913 \def\@noitemerr{%
21914 \@latex@warning{%
21915 Empty `thebibliography' environment or
21916 \string\BreakBibliography\MessageBreak
21917 before end of `thebibliography' environment}%
21918 }%
21919 \fi
21920 \endlist
21921 \if@bib@break@
21922 \else
21923 \bib@after@hook

```



```

21924 \let\bib@before@hook\@empty
21925 \let\bib@after@hook\@empty
21926 \fi
21927 \bib@endhook
21928 }
21929 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21930 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21931 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21932 \renewcommand\marginline[1]{%
21933 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21934 }
21935 \renewcommand{\@@makecaption}[3]{%
21936 \cap@margin
21937 \begingroup
21938 \ifonelinecaptions
21939 \def\stepcounter##1{\advance\value{##1}\@ne}%
21940 \let\refstepcounter\stepcounter
21941 \let\label\@gobble
21942 \let\@footnotetext=\@gobble
21943 \let\@LTRfootnotetext=\@gobble
21944 \let\@RTLfootnotetext=\@gobble
21945 \let\hypertarget\@gobbletwo
21946 \edef\@xnewline{%
21947 \unexpanded{\ClassInfo{\KOMAClassName}{%
21948 Workaround for not recommended usage of \string\\ or\MessageBreak
21949 \string\newline in caption text
21950 }%
21951 \hspace*{\linewidth}\hspace{1sp}}%
21952 }%
21953 \unexpanded\expandafter{\@xnewline}%
21954 }%
21955 \edef\@xcentercr{%
21956 \unexpanded{\ClassInfo{\KOMAClassName}{%
21957 Workaround for not recommended usage of \string\\ or\MessageBreak
21958 \string\newline in caption text
21959 }%
21960 \hspace*{\linewidth}\hspace{1sp}}%
21961 }%
21962 \unexpanded\expandafter{\@xcentercr}%
21963 }%
21964 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21965 \ifdim\@tempdima>\cap@width
21966 \aftergroup\scr@makemultilinecaption
21967 \else
21968 \aftergroup\scr@makesinglelinecaption
21969 \fi
21970 \else
21971 \aftergroup\scr@makemultilinecaption
21972 \fi
21973 \endgroup
21974 {#1}{#2}{#3}%
21975 }
21976 \renewcommand{\scr@makesinglelinecaption}[3]{%
21977 {%

```



```

21978 \usefontofkomafont{caption}{%
21979 \hb@xt@\hsize{%
21980 \cap@left
21981 \if@RTL
21982 \beginR
21983 \fi
21984 \scr@@makesinglelinecaption{#1}{#2}{#3}%
21985 \if@RTL
21986 \endR
21987 \fi
21988 \cap@right
21989 }\par\kern\dp\strutbox%
21990 }%
21991 }\kern-\dp\strutbox
21992 }
21993 \renewcommand{\@makecaption}[2]{%
21994 \if@captionabove
21995 \vskip\belowcaptionskip
21996 \else
21997 \vskip\abovcaptionskip
21998 \fi
21999 \@makecaption\@firstofone{#1}{#2}%
22000 \if@captionabove
22001 \vskip\abovcaptionskip
22002 \else
22003 \vskip\belowcaptionskip
22004 \fi
22005 }
22006
22007 \renewcommand{\scr@@makesinglelinecaption}[3]{%
22008 {\usekomafont{caption}{\strut\ignorespaces
22009 #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22010 \ignorespaces #3\unskip}}%
22011 }
22012
22013 \renewcommand{\scr@makemultilinecaption}[3]{%
22014 {%
22015 \usefontofkomafont{caption}{%
22016 \hb@xt@\hsize{%
22017 \cap@left
22018 \vbox{\hsize\cap@width\linewidth\hsize
22019 \scr@ifundefinedorrelax{@captype}{%
22020 \ClassWarning{\KOMAClassName}{%
22021 \string\caption' outside float.\MessageBreak
22022 Seems you are using \string\caption' outside a
22023 float.\MessageBreak
22024 Maybe you are using a package that uses
22025 \string\@makecaption'\MessageBreak
22026 without setting \string\@captype' before.\MessageBreak
22027 Because I cannot detect the caption type, I'm using\MessageBreak
22028 the empty one.%
22029 }%
22030 \let\@captype\@empty
22031 }{}}%

```



```

22032 \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
22033 \@nameuse{ragged\@captype caption}%
22034 }%
22035 \ifdofullc@p
22036 \@hangfrom{%
22037 \strut
22038 \scr@smashdp{%
22039 #1{%
22040 \usekomafont{caption}{%
22041 \usekomafont{captionlabel}{#2\captionformat}%
22042 }%
22043 }%
22044 }%
22045 }%
22046 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22047 \else
22048 \ifdim\cap@indent<\z@
22049 \strut
22050 #1{%
22051 {\usekomafont{caption}{%
22052 \usekomafont{captionlabel}{#2\captionformat}%
22053 }%
22054 }\par}%
22055 \noindent{{\usekomafont{caption}{%
22056 \hspace*{-\cap@indent}#3\scr@endstrut
22057 }}\par}%
22058 \else
22059 \if@capbreak
22060 \strut
22061 #1{%
22062 {\usekomafont{caption}{%
22063 \usekomafont{captionlabel}{#2\captionformat}%
22064 }%
22065 }\par}%
22066 \noindent\@hangfrom{\hspace*{\cap@indent}}%
22067 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22068 \else
22069 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22070 {%
22071 \hspace{-\cap@indent}%
22072 \scr@smashdp{%
22073 #1{\usekomafont{caption}{%
22074 \usekomafont{captionlabel}{#2\captionformat}%
22075 }%
22076 }%
22077 }%
22078 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22079 }%
22080 \fi
22081 \fi
22082 \fi
22083 }%
22084 \cap@right
22085 }\par\kern\dp\strutbox

```



```

22086 }%
22087 }\kern-\dp\strutbox
22088 }
22089
22090
22091 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22092 \if@komalongtable
22093 \renewcommand{\LT@makecaption}[3]{%
22094 \LT@mcol\LT@cols c{%
22095 \hbox to\z@{\hss\parbox[t]{\linewidth{%
22096 \if@captionabove\else\vskip\belowcaptionskip\fi
22097 \@@makecaption{#1}{#2}{#3}%
22098 \endgraf
22099 \if@captionabove\vskip\abovecaptionskip\fi
22100 }%
22101 \hss
22102 }%
22103 }%
22104 }%
22105 \renewcommand*{\scr@LT@array}{}%
22106 \let\scr@LT@array=\LT@array
22107 \renewcommand*{\LT@array}{%
22108 \def\@captive{table}%
22109 \@ifundefined{LTcaptive}}{%
22110 \Ifstr{\LTcaptive}{-}{\let\@captive\LTcaptive}%
22111 }%
22112 \csname tocbasic_if_caption_above:TF\endcsname
22113 {\@captionabovetrue}{\@captionabovetrue}%
22114 \def\captionabove{\noalign{\global\@captionabovetrue}%
22115 \LT@caption}%
22116 \def\captionbelow{\noalign{\global\@captionabovetrue}%
22117 \LT@caption}%
22118 \scr@LT@array
22119 }%
22120 \ClassInfo{\KOMAClassName}{%
22121 longtable captions redefined%
22122 }%
22123 \fi
22124 }
22125
22126 \CloneTOCEntryStyle{tocline}{part}
22127 \TOCEntryStyleStartInitCode{part}{%
22128 \expandafter\renewcommand%
22129 \csname scr@tso@#1@linefill\endcsname{\hfill}%
22130 \expandafter\renewcommand%
22131 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22132 \expandafter\renewcommand%
22133 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22134 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22135 \expandafter\renewcommand\expandafter*%
22136 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
22137 }
22138
22139 \CloneTOCEntryStyle{tocline}{chapter}

```



```

22140 \TOCEntryStyleStartInitCode{chapter}{%
22141   \expandafter\renewcommand%
22142   \csname scr@tso@#1@linefill\endcsname{%
22143     \if@chapterentrywithdots
22144       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22145     \else
22146       \hfill
22147     \fi
22148   }%
22149   \expandafter\renewcommand%
22150   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}}%
22151   \expandafter\renewcommand%
22152   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22153     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22154   \expandafter\renewcommand\expandafter*%
22155   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22156 }
22157
22158 \CloneTOCEntryStyle{tocline}{section}
22159 \TOCEntryStyleStartInitCode{section}{%
22160   \expandafter\renewcommand%
22161   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22162   \expandafter\renewcommand%
22163   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22164     {\normalfont\normalcolor ##1}}%
22165 }
22166
22167 \CloneTOCEntryStyle{section}{default}
22168
22169 \DeclareSectionCommand[%
22170   style=chapter,%
22171   level=\z@,%
22172   pagestyle=plain,%
22173   tocstyle=chapter,%
22174   tocindent=\z@,%
22175   tocnumwidth=1.5em%
22176 ]{chapter}
22177 \DeclareSectionCommand[%
22178   style=section,%
22179   level=1,%
22180   indent=\z@,%
22181   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22182   afterskip=2.3ex \@plus.2ex,%
22183   tocstyle=section,%
22184   tocindentfollows=chapter,%
22185   tocindent=1.5em,%
22186   tocnumwidth=2.3em%
22187 ]{section}
22188 \DeclareSectionCommand[%
22189   style=part,%
22190   level=\m@ne,%
22191   pagestyle=plain,%
22192   tocstyle=part,%
22193   toplevel=\m@ne,%

```





```

22194   tocindent=\z@,%
22195   tocnumwidth=2em%
22196 ]{part}
22197 \DeclareSectionCommand[%
22198   style=section,%
22199   level=2,%
22200   indent=\z@,%
22201   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22202   afterskip=1.5ex \@plus .2ex,%
22203   tocstyle=section,%
22204   tocindent=3.8em,%
22205   tocnumwidth=3.2em%
22206 ]{subsection}
22207 \DeclareSectionCommand[%
22208   style=section,%
22209   level=3,%
22210   indent=\z@,%
22211   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22212   afterskip=1.5ex \@plus .2ex,%
22213   tocstyle=section,%
22214   tocindent=7.0em,%
22215   tocnumwidth=4.1em%
22216 ]{subsubsection}
22217 \DeclareSectionCommand[%
22218   style=section,%
22219   level=4,%
22220   indent=\z@,%
22221   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
22222   afterskip=-1em,%
22223   tocindentfollows=subsubsection,%
22224   tocstyle=section,%
22225   tocindent=10em,%
22226   tocnumwidth=5em%
22227 ]{paragraph}
22228 \DeclareSectionCommand[%
22229   style=section,%
22230   level=5,%
22231   indent=\scr@parindent,%
22232   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
22233   afterskip=-1em,%
22234   tocstyle=section,%
22235   tocindent=12em,%
22236   tocnumwidth=6em%
22237 ]{subparagraph}

```

## 145 File sidecap-xetex-bidi.def

```

22238 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
22239 \RequirePackage{ragged2e}
22240 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
22241   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
22242 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
22243 \renewcommand*{\SC@justify@caption}{\if@RTL%
22244 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\else%

```



```

22245 \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
22246
22247 \@ifpackagewith{sidecap}{innercaption}{%
22248 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
22249 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}}
22250 \renewcommand*{\SC@justify@caption{%
22251 \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
22252 \renewcommand*{\SC@FLOAT}[2]{%
22253 \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}}
22254 \renewcommand*{\SC@justify@caption{%
22255 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
22256 }{}
22257
22258 \@ifpackagewith{sidecap}{rightcaption}{%
22259 \if@RTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
22260 \def\SC@justify@caption{\RaggedLeft}\else%
22261 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
22262 \def\SC@justify@caption{\RaggedRight}\fi%
22263 }{}
22264
22265 \@ifpackagewith{sidecap}{leftcaption}{%
22266 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
22267 \def\SC@justify@caption{\RaggedRight}\else%
22268 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
22269 \def\SC@justify@caption{\RaggedLeft}\fi%
22270 }{}

```

## 146 File soul-xetex-bidi.def

```

22271 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
22272 \long\def\SOUL@start#1{%
22273 \let\ bidi@RTL@everypar\@empty
22274 \let\<\SOUL@lowerthan
22275 \let\>\empty
22276 \def\soulomit{\noexpand\soulomit}%
22277 \gdef\SOUL@eventuallyexhyphen##1{%
22278 \let\SOUL@soeventuallyskip\relax
22279 \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@\font
22280 \@minus\fontdimen4\font
22281 \SOUL@ignorespacesfalse
22282 \leavevmode
22283 \SOUL@preamble
22284 \SOUL@lasttoken={}%
22285 \SOUL@word={}%
22286 \SOUL@minus\z@
22287 \SOUL@comma\z@
22288 \SOUL@apo\z@
22289 \SOUL@grave\z@
22290 \SOUL@do{#1}%
22291 \SOUL@postamble
22292 }}
22293 \def\SOUL@ulunderline#1{%
22294 \setbox\z@\hbox{#1}%
22295 \dimen@=\wd\z@

```



```

22296 \dimen@i=\SOUL@uloverlap
22297 \advance\dimen@2\dimen@i
22298 \if@RTL
22299 \unhcopy\z@
22300 \llap{%
22301 \null
22302 \kern-\dimen@i
22303 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22304 }%
22305 \else
22306 \rlap{%
22307 \null
22308 \kern-\dimen@i
22309 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22310 }%
22311 \unhcopy\z@
22312 \fi
22313 }}
22314 \def\bidi@SOUL@ulleaders{%
22315 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\n
22316 }
22317 \def\SOUL@uleveryspace#1{%
22318 \if@RTL
22319 #1%
22320 \bidi@SOUL@ulleaders
22321 \hskip\spaceskip
22322 \else
22323 \SOUL@ulcolor{%
22324 #1%
22325 \SOUL@ulleaders
22326 \hskip\spaceskip
22327 }%
22328 \fi
22329 \null
22330 }

```

## 147 File stabular-xetex-bidi.def

```

22331 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
22332 \def\@stabular{%
22333 \leavevmode \bgroup \if@RTLtab\beginR \fi
22334 \let\@acol\@tabacol
22335 \let\@classz\@tabclassz
22336 \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
22337 \def\endstabular{\crcr\egroup\if@RTLtab\egroup\endR\egroup\fi
22338 \egroup \if@RTLtab\endR\fi\egroup}
22339 \expandafter \let \csname endstabular*\endcsname = \endstabular
22340 \def\@sarray[#1]#2{%
22341 \bgroup
22342 \setbox\@arstrutbox\hbox{%
22343 \vrule \@height\arraystretch\ht\strutbox
22344 \@depth\arraystretch \dp\strutbox
22345 \@width\z@}%
22346 \@mkpream{#2}%

```



```

22347 \edef\@preamble{%
22348   \ialign \noexpand\@halignto
22349     \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
22350 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22351 \let\tabularnewline\%
22352 \let\@sharp##%
22353 \set@typeset@protect
22354 \lineskip\z@skip\baselineskip\z@skip
22355 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
22356 \@preamble}

```

## 148 File subfigure-xetex-bidi.def

```

22357 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
22358 \AtBeginDocument{%
22359 \let\p@subfigure=\thefigure
22360 \let\p@subtable=\thetable%
22361 }

```

## 149 File tabs-xetex-bidi.def

```

22362 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for X
22363 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
22364
22365 \expandafter\let\csname endtabular*\endcsname=\endtabular
22366
22367 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
22368   \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
22369   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
22370
22371 \def\@array[#1]#2{% remember global variables to allow recursion:
22372   \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
22373     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
22374   \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
22375   \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
22376   \else \let\@tarlinesep\tablinesep \fi
22377   \divide\@tarlinesep\tw@ % half sep is applied to height & depth
22378   \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
22379   \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
22380   \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
22381     \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@size
22382     \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
22383   \fi \setbox\@arstrutbox\hbox{% set up smaller strut
22384     \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
22385   \let\protect\noexpand
22386   \edef\@preamble{\ialign \noexpand\@halignto \bgroup
22387     \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
22388   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22389   \if#1t\top \else \if#1b\vbox \else \vcenter \fi\fi
22390   \bgroup \let\par\@empty
22391   \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
22392   \advance\extrarulesep.5\arrayrulewidth
22393   \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
22394   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \vbox \fi\bgroup\fi

```



22395 \@preamble}

## 150 File tabularx-xetex-bidi.def

```

22396 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
22397 \def\TX@endtabularx{%
22398   \expandafter\expandafter\expandafter
22399     \TX@find@endtabularxa\csname end\TX@\endcsname
22400     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
22401   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
22402   \let\verb\TX@verb
22403   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
22404   \edef\TX@ckpt{\cl@ckpt}%
22405   \let\@elt\relax
22406   \TX@old@table\maxdimen
22407   \TX@col@width\TX@target
22408   \global\TX@cols\@ne
22409   \TX@typeout@
22410     {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
22411   \TX@trial{\def\NC@rewrite@X{%
22412     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
22413   \loop
22414     \TX@arith
22415     \ifTX@
22416     \TX@trial{}%
22417   \repeat
22418   {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
22419     \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
22420     \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
22421     \csname tabular*\expandafter\endcsname\expandafter\TX@target
22422     \the\toks@
22423     \csname endtabular*\endcsname}%
22424   \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
22425   \ifnum0=\fi}%
22426   \expandafter\expandafter\expandafter
22427     \TX@find@endtabularxbb
22428   \expandafter\end\expandafter{\TX@}%
22429   \endtabularx\TX@\endtabularx\TX@find@endtabularxb
22430 }
22431
22432 \def\TX@trial#1{%
22433   \setbox\@tempboxa\hbox{%
22434     #1\relax
22435   \let\@footnotetext\TX@trial@ftn
22436   \let\@LTRfootnotetext\TX@trial@ftn
22437   \let\@RTLfootnotetext\TX@trial@ftn
22438   \let\TX@vwarn\@empty
22439   \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
22440   \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
22441   \def\write{\begingroup
22442     \def\let{\afterassignment\endgroup\toks@}%
22443     \afterassignment\let\count@}%
22444   \hbadness\@M
22445   \hfuzz\maxdimen

```



```

22446 \let\hbadness\@tempcnta
22447 \let\hfuzz\@tempdima
22448 \expandafter\tabular\the\toks@
22449 \endtabular}%
22450 \TX@ckpt
22451 \TX@typeout@{\@spaces
22452 \expandafter\TX@align
22453 \the\wd\@tempboxa\space\space\space\space\space\@@
22454 \expandafter\TX@align
22455 \the\TX@col@width\space\space\space\space\space\@@
22456 \@spaces\the\TX@cols}}
22457
22458 \long\def\TX@LTrftntext#1{%
22459 \edef\@tempa{\the\TX@ftn\noexpand\LTrfootnotetext
22460 [\the\csname c@\@mpfn\endcsname]}}%
22461 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22462 \long\def\TX@xLTrftntext[#1]#2{%
22463 \global\TX@ftn\expandafter{\the\TX@ftn\LTrfootnotetext[#1]{#2}}}
22464
22465 \long\def\TX@RTLftntext#1{%
22466 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
22467 [\the\csname c@\@mpfn\endcsname]}}%
22468 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22469 \long\def\TX@xRTLftntext[#1]#2{%
22470 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 151 File tabulary-xetex-bidi.def

```

22471 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
22472 \def\@testpach{\@chclass
22473 \ifnum \@lastchclass=6 \one \@chnum \one \else
22474 \ifnum \@lastchclass=7 5 \else
22475 \ifnum \@lastchclass=8 \tw@ \else
22476 \ifnum \@lastchclass=9 \thr@@
22477 \else \z@
22478 \ifnum \@lastchclass = 10 \else
22479 \edef\@nextchar{\expandafter\string\@nextchar}%
22480 \@chnum
22481 \if \@nextchar c\z@ \else
22482 \if \@nextchar \if@RTLtab r\else l\fi\@one \else
22483 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
22484 \if \@nextchar C7 \else
22485 \if \@nextchar L8 \else
22486 \if \@nextchar R9 \else
22487 \if \@nextchar J10 \else
22488 \z@ \@chclass
22489 \if\@nextchar |\@one \else
22490 \if \@nextchar !6 \else
22491 \if \@nextchar @7 \else
22492 \if \@nextchar <8 \else
22493 \if \@nextchar >9 \else
22494 10
22495 \@chnum
22496 \if \@nextchar m\thr@@\else

```



```

22497 \if \@nextchar p4 \else
22498 \if \@nextchar b5 \else
22499 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi
22500 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```

```

22501 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver
22502 \def\@cliptoboxdim#1{%
22503     \setbox#1=\hbox{%
22504         \Gin@defaultbp\WIDTH{\wd#1}%
22505         \Gin@defaultbp\DEPTH{\dp#1}%
22506         \@tempdima\ht#1%
22507         \advance\@tempdima\dp#1%
22508         \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
22509         \beginL\special{pdf:bcontent }%
22510         \special{%
22511             pdf:literal direct
22512             0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
22513         }%
22514         \special{pdf:literal direct W }%
22515         \special{pdf:literal direct n }%
22516         \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
22517         \special{pdf:econtent }\endL%
22518     }%
22519 }

```

```

22520 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
22521 \let\endtcbox@lrbox=\endminipage
22522 \let\endtcbox@savebox=\endtcbox@lrbox
22523
22524 \bidi@patchcmd{\tcbox@vbox}{{%
22525   \let\@footnotetext\@mpfootnotetext%
22526 }{%
22527   \let\@footnotetext\@mpfootnotetext%
22528   \let\@LTRfootnotetext\@mpLTRfootnotetext%
22529   \let\@RTLfootnotetext\@mpRTLfootnotetext%
22530 }{}{}
22531
22532 \bidi@patchcmd{\endtcbox@vbox}{{%
22533   \footnoterule%
22534 }{%
22535   \bidi@mpfootnoterule%
22536 }{}{}
22537 \bidi@apptocmd{\tcbox@icolorbox}{%
22538   \@bidi@list@minipage@parboxfalse
22539 }{}{}

```

```
22540 \ProvidesFile{thmbox-xetex-bidi.def}[2025/09/04 v0.1 bidi adaptations for thmbox package for
22541 \renewenvironment{thmbox}[2] [] {%
```



```

22542 \parskip\z@%
22543 \setkeys{thmbox}{#1}%
22544 \ifx\thmbox@style S\else\ifx\thmbox@style M\else\ifx\thmbox@style L\else%
22545 \PackageWarning{thmbox}{\thmbox@style\ is not a valid style for
22546 \string\thmbox, using M}%
22547 \let\thmbox@style=M%
22548 \fi\fi\fi%
22549 \thmbox@head{#2}\nobreak\relax%
22550 \thmbox@dim=\hsize%
22551 \advance\thmbox@dim-\leftskip%
22552 \advance\thmbox@dim-\rightskip%
22553 \setbox\thmbox@box=\vbox\bgroup%
22554 \if@RTL
22555 \hboxRconstructtrue
22556 \fi
22557 \hsize=\thmbox@dim%
22558 \advance\hsize -\thmbox@leftmargin%
22559 \advance\hsize -\thmbox@rightmargin%
22560 \textwidth=\hsize%
22561 \linewidth=\hsize%
22562 \vskip\thmbox@vskip%
22563 \begingroup}\endgroup%
22564 \vskip\thmbox@vskip%
22565 \egroup%
22566 \thmbox@start%
22567 \ifx\thmbox@style S\else\thmbox@tail\fi%
22568 \@endparenv}

```

## 155 File titlesec-xetex-bidi.def

```

22569 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package]
22570 \renewcommand\filright{%
22571 \gdef\ttl@filleft##1{\hskip##1}%
22572 \gdef\ttl@filright##1{\hfill}%
22573 \let\\@centercr
22574 \advance\rightskip\z@ \@plus 1fil
22575 \parfillskip\z@}
22576 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
22577 \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
22578 \setlength\leftskip{#6}%
22579 \setlength\rightskip{#7}%
22580 \interlinepenalty\@M
22581 \ttl@changecentercr
22582 \ttl@beginlongest
22583 #1{\ifhmode\ttl@hmode@error\fi
22584 \ttl@glcmds
22585 \parindent\z@
22586 \leavevmode
22587 \begingroup
22588 \ifttl@label
22589 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
22590 \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
22591 \llap{\box\z@}%
22592 \fi

```





```

22593      #4{#8}%
22594      \kern\z@\strut\@@par
22595      \endgroup
22596      \nobreak\ttl@midlongest#5\@@par}%
22597      \ttl@endlongest}

```

## 156 File `titletoc-xetex-bidi.def`

```

22598 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
22599 \renewcommand\filright{%
22600   \gdef\ttl@filleft##1{\hskip##1}%
22601   \gdef\ttl@filright##1{\hfill}%
22602   \let\\\@centercr
22603   \advance\rightskip\z@ \@plus 1fil
22604   \parfillskip\z@}
22605 \renewcommand\contentspush[1]{%
22606   \sbox\z@{#1}%
22607   \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
22608   \aftergroup\ttl@b
22609   \leavevmode\llap{\box\z@}}
22610 \def\ttl@outnoblock#1#2#3{%
22611   \begingroup
22612   \ifnum\ttl@b>\ttl@a
22613     \nobreak
22614     \else\ifnum\ttl@b<\ttl@a
22615       \addpenalty{\@secpenalty}%
22616     \else
22617       \addpenalty{\z@}%
22618     \fi\fi
22619     \ttl@contentsstretch
22620     \nobreak
22621     \ifcase#1\relax\else\interlinepenalty\@M\fi
22622     \parindent\z@
22623     \ifx@nil#2%
22624       \PackageError{titletoc}{Unimplemented}%
22625       {The optional argument is currently mandatory}%
22626     \else
22627       \if@RTL\setlength\rightskip{#2}\else
22628       \setlength\leftskip{#2}\fi%
22629     \fi
22630     \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
22631     \let\contentsmargin\ttl@margin
22632     \def\ttl@makeline##1{##1}%
22633     #3%
22634     \addtolength{\parfillskip}{-\ttl@corr}%
22635     \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
22636     \let\ttl@leaders\leaders}
22637 \renewcommand\ttl@margin[2][\z@]{%
22638   \def\ttl@corr{#1}%
22639   \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
22640   \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
22641   \def\@pnumwidth{#2}}
22642 \let\ttl@savel@part\l@part
22643 \def\l@part{\ttl@lselect{part}}

```



```

22644
22645 \let\ttl@savel@chapter\l@chapter
22646 \def\l@chapter{\ttl@lselect{chapter}}

```

## 157 File tocbibind-xetex-bidi.def

```

22647 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
22648 \IfClassLoadedT{memoir}{\endinput}
22649 \if@dotocbib
22650   \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
22651     \renewcommand{\bibsection}{\tcb@bchapsec}
22652     \renewenvironment{thebibliography}[1]{%
22653       \bibsection
22654       \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
22655   \renewenvironment{thebibitemlist}[1]{
22656     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22657     \bidi@thebibliography@font@hook%
22658     \list{\@biblabel{\@arabic{c@enumiv}}}%
22659       {\settoheight\labelwidth{\@biblabel{#1}}%
22660        \leftmargin\labelwidth
22661        \advance\leftmargin\labelsep
22662        \@openbib@code
22663        \usecounter{enumiv}%
22664        \let\p@enumiv\empty
22665        \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
22666     \sloppy
22667     \clubpenalty4000
22668     \@clubpenalty \clubpenalty
22669     \widowpenalty4000%
22670     \sfcode`..\@m}
22671   {\def\@noitemerr
22672     {\@latex@warning{Empty `thebibliography' environment}}}%
22673   \endlist}
22674
22675 \ApplyPatchCodeToPackage{chapterbib}{%
22676   \@ifpackagewith{chapterbib}{sectionbib}%
22677   {\renewcommand{\sectionbib}[2]{}%
22678    {}}%
22679 }
22680
22681 \fi
22682 \if@inltxdoc\else
22683   \renewenvironment{theindex}%
22684     {\if@twocolumn
22685       \@restonecolfalse
22686       \else
22687         \@restonecoltrue
22688       \fi
22689     \if@bibchapter
22690       \if@donumindex
22691         \refstepcounter{chapter}
22692         \twocolumn[\vspace*{2\topskip}%
22693           \@makechapterhead{\indexname}]}%
22694       \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}

```



```

22695         \chaptermark{\indexname}
22696     \else
22697         \if@dotocind
22698             \twocolumn[\vspace*{2\topskip}%
22699                 \@makeschapterhead{\indexname}]]%
22700             \prw@mkboth{\indexname}
22701             \addcontentsline{toc}{chapter}{\indexname}
22702         \else
22703             \twocolumn[\vspace*{2\topskip}%
22704                 \@makeschapterhead{\indexname}]]%
22705             \prw@mkboth{\indexname}
22706         \fi
22707     \fi
22708 \else
22709     \if@donumindex
22710         \twocolumn[\vspace*{-1.5\topskip}%
22711             \@nameuse{\@tocextra}{\indexname}]]%
22712         \csname \@tocextra mark\endcsname{\indexname}
22713     \else
22714         \if@dotocind
22715             \twocolumn[\vspace*{-1.5\topskip}%
22716                 \toc@headstar{\@tocextra}{\indexname}]]%
22717             \prw@mkboth{\indexname}
22718             \addcontentsline{toc}{\@tocextra}{\indexname}
22719         \else
22720             \twocolumn[\vspace*{-1.5\topskip}%
22721                 \toc@headstar{\@tocextra}{\indexname}]]%
22722             \prw@mkboth{\indexname}
22723         \fi
22724     \fi
22725 \fi
22726 \thispagestyle{plain}\parindent\z@
22727 \parskip\z@ \@plus .3\p@\relax
22728 \let\item\@idxitem}
22729 {\if@restonecol\onecolumn\else\clearpage\fi}
22730 \fi

```

## 158 File tocloft-xetex-bidi.def

```

22731 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
22732 \IfClassLoadedT{memoir}{\endinput}
22733 \renewcommand{\cftpnalign}{\if@RTL l\else r\fi}
22734 \let\cftdot\@SepMark
22735 \if@cfthaspart
22736 \renewcommand*{\l@part}[2]{
22737     \@cftdopartfalse
22738     \ifnum \c@tocdepth >-2\relax
22739         \if@cfthaschapter
22740             \@cftdoparttrue
22741         \fi
22742         \ifnum \c@tocdepth >\m@ne
22743             \if@cfthaschapter\else
22744                 \@cftdoparttrue
22745             \fi

```



```

22746 \fi
22747 \fi
22748 \if@cftdopart
22749 \if@cfthaschapter
22750 \addpenalty{-\@highpenalty}
22751 \else
22752 \addpenalty\@secpenalty
22753 \fi
22754 \addvspace{\cftbeforepartskip}
22755 \begingroup
22756 {\if@RTL\righskip\else\leftskip\fi \cftpartindent\relax
22757 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22758 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22759 \parindent \cftpartindent\relax\@afterindenttrue
22760 \interlinepenalty\@M
22761 \leavevmode
22762 \@tempdima \cftpartnumwidth\relax
22763 \let\@cftbsnum \cftpartpresnum
22764 \let\@cftasnum \cftpartaftersnum
22765 \let\@cftasnumb \cftpartaftersnumb
22766 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22767 {\cftpartfont \cftpartpresnum #1}
22768 \cftpartfillnum{#2}}
22769 \nobreak
22770 \if@cfthaschapter
22771 \global\@nobreaktrue
22772 \everypar{\global\@nobreakfalse\everypar{}}
22773 \else
22774 \if@compatibility
22775 \global\@nobreaktrue
22776 \everypar{\global\@nobreakfalse\everypar{}}
22777 \fi
22778 \fi
22779 \endgroup
22780 \fi}
22781 \fi
22782 \if@cfthaschapter
22783 \renewcommand*{\l@chapter}[2]{
22784 \ifnum \c@tocdepth >\m@ne
22785 \addpenalty{-\@highpenalty}
22786 \vskip \cftbeforechapskip
22787 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
22788 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22789 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22790 \parindent \cftchapindent\relax\@afterindenttrue
22791 \interlinepenalty\@M
22792 \leavevmode
22793 \@tempdima \cftchapnumwidth\relax
22794 \let\@cftbsnum \cftchappresnum
22795 \let\@cftasnum \cftchapaftersnum
22796 \let\@cftasnumb \cftchapaftersnumb
22797 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22798 {\cftchapfont #1}\nobreak
22799 \cftchapfillnum{#2}}

```



```

22800 \fi}
22801 \fi
22802 \renewcommand*{\l@section}[2]{%
22803 \ifnum \c@tocdepth >\z@
22804 \if@cfthaschapter
22805 \vskip \cftbeforesecskip
22806 \else
22807 \addpenalty\@secpenalty
22808 \addvspace{\cftbeforesecskip}
22809 \fi
22810 {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
22811 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22812 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22813 \parindent \cftsecindent\relax\@afterindenttrue
22814 \interlinepenalty\@M
22815 \leavevmode
22816 \@tempdima \cftsecnumwidth\relax
22817 \let\@cftbsnum \cftsecpresnum
22818 \let\@cftasnum \cftsecaftersnum
22819 \let\@cftasnumb \cftsecaftersnumb
22820 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22821 {\cftsecfont #1}\nobreak
22822 \cftsecfillnum{#2}}
22823 \fi}
22824 \renewcommand*{\l@subsection}[2]{%
22825 \ifnum \c@tocdepth >\@ne
22826 \vskip \cftbeforesubsecskip
22827 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
22828 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22829 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22830 \parindent \cftsubsecindent\relax\@afterindenttrue
22831 \interlinepenalty\@M
22832 \leavevmode
22833 \@tempdima \cftsubsecnumwidth\relax
22834 \let\@cftbsnum \cftsubsecpresnum
22835 \let\@cftasnum \cftsubsecaftersnum
22836 \let\@cftasnumb \cftsubsecaftersnumb
22837 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22838 {\cftsubsecfont #1}\nobreak
22839 \cftsubsecfillnum{#2}}
22840 \fi}
22841 \renewcommand*{\l@subsubsection}[2]{%
22842 \ifnum \c@tocdepth >\tw@
22843 \vskip \cftbeforesubsubsecskip
22844 {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
22845 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22846 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22847 \parindent \cftsubsubsecindent\relax\@afterindenttrue
22848 \interlinepenalty\@M
22849 \leavevmode
22850 \@tempdima \cftsubsubsecnumwidth\relax
22851 \let\@cftbsnum \cftsubsubsecpresnum
22852 \let\@cftasnum \cftsubsubsecaftersnum
22853 \let\@cftasnumb \cftsubsubsecaftersnumb

```



```

22854 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22855 {\cftsubsubsecfont #1}\nobreak
22856 \cftsubsubsecfillnum{#2}}
22857 \fi}
22858 \renewcommand*{\l@paragraph}[2]{%
22859 \ifnum \c@tocdepth >3\relax
22860 \vskip \cftbeforeparaskip
22861 {\if@RTL\righskip\else\leftskip\fi \cftparaindent\relax
22862 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22863 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22864 \parindent \cftparaindent\relax\@afterindenttrue
22865 \interlinepenalty\@M
22866 \leavevmode
22867 \@tempdima \cftparanumwidth\relax
22868 \let\@cftbsnum \cftparapresnum
22869 \let\@cftasnum \cftparaaftersnum
22870 \let\@cftasnumb \cftparaaftersnumb
22871 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22872 {\cftparafont #1}\nobreak
22873 \cftparafillnum{#2}}
22874 \fi}
22875 \renewcommand*{\l@subparagraph}[2]{%
22876 \ifnum \c@tocdepth >4\relax
22877 \vskip \cftbeforesubparaskip
22878 {\if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
22879 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22880 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22881 \parindent \cftsubparaindent\relax\@afterindenttrue
22882 \interlinepenalty\@M
22883 \leavevmode
22884 \@tempdima \cftsubparanumwidth\relax
22885 \let\@cftbsnum \cftsubparapresnum
22886 \let\@cftasnum \cftsubparaaftersnum
22887 \let\@cftasnumb \cftsubparaaftersnumb
22888 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22889 {\cftsubparafont #1}\nobreak
22890 \cftsubparafillnum{#2}}
22891 \fi}
22892 \renewcommand*{\l@figure}[2]{%
22893 \ifnum \c@lofdepth >\z@
22894 \vskip \cftbeforefigskip
22895 {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
22896 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22897 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22898 \parindent \cftfigindent\relax\@afterindenttrue
22899 \interlinepenalty\@M
22900 \leavevmode
22901 \@tempdima \cftfignumwidth\relax
22902 \let\@cftbsnum \cftfigpresnum
22903 \let\@cftasnum \cftfigaftersnum
22904 \let\@cftasnumb \cftfigaftersnumb
22905 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22906 {\cftfigfont #1}\nobreak
22907 \cftfigfillnum{#2}}

```



```

22908 \fi
22909 }
22910 \renewcommand*\l@table}[2]{%
22911 \ifnum\c@lotdepth >\z@
22912 \vskip \cftbeforetabskip
22913 {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
22914 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22915 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22916 \parindent \cfttabindent\relax\@afterindenttrue
22917 \interlinepenalty\@M
22918 \leavevmode
22919 \@tempdima \cfttabnumwidth\relax
22920 \let\@cftbsnum \cfttabpresnum
22921 \let\@cftasnum \cfttabaftersnum
22922 \let\@cftasnumb \cfttabaftersnumb
22923 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22924 {\cfttabfont #1}\nobreak
22925 \cfttabfillnum{#2}}
22926 \fi
22927 }
22928 \renewcommand{\@cftl@subfig}{
22929 \renewcommand*\l@subfigure}[2]{%
22930 \ifnum \c@lofdepth > \toclevel@subfigure
22931 \vskip \cftbeforesubfigskip
22932 {\if@RTL\righskip\else\leftskip\fi \cftsubfigindent\relax
22933 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22934 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22935 \parindent \cftsubfigindent\relax\@afterindenttrue
22936 \interlinepenalty\@M
22937 \leavevmode
22938 \@tempdima \cftsubfignumwidth\relax
22939 \let\@cftbsnum \cftsubfigpresnum
22940 \let\@cftasnum \cftsubfigaftersnum
22941 \let\@cftasnumb \cftsubfigaftersnumb
22942 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22943 {\cftsubfigfont ##1}\nobreak
22944 \cftsubfigfillnum{##2}}
22945 \fi
22946 }
22947 }
22948 \renewcommand{\@cftl@subtab}{
22949 \renewcommand*\l@subtable}[2]{%
22950 \ifnum \c@lotdepth > \toclevel@subtable
22951 \vskip \cftbeforesubtabskip
22952 {\if@RTL\righskip\else\leftskip\fi \cftsubtabindent\relax
22953 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22954 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22955 \parindent \cftsubtabindent\relax\@afterindenttrue
22956 \interlinepenalty\@M
22957 \leavevmode
22958 \@tempdima \cftsubtabnumwidth\relax
22959 \let\@cftbsnum \cftsubtabpresnum
22960 \let\@cftasnum \cftsubtabaftersnum
22961 \let\@cftasnumb \cftsubtabaftersnumb

```



```

22962     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22963     {\cftsubtabfont ##1}\nobreak
22964     \cftsubtabfillnum{##2}}
22965   \fi
22966 }
22967 }
22968 \renewcommand{\newlistentry}[4][\@empty]{%
22969   \ifundefined{c@#2}{%      check & set the counter
22970     \ifx \@empty#1\relax
22971       \newcounter{#2}
22972     \else
22973       \ifundefined{c@#1}{\PackageWarning{tocloft}%
22974         {#1 has no counter for use as a `within'}
22975         \newcounter{#2}}%
22976       {\newcounter{#2}[#1]%
22977         \expandafter\edef\csname the#2\endcsname{%
22978           \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
22979     \fi
22980     \setcounter{#2}{0}
22981   }
22982   {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
22983 }
22984 \@namedef{l@#2}##1##2{%
22985   \ifnum \@nameuse{c@#3depth} > #4\relax
22986     \vskip \@nameuse{cftbefore#2skip}
22987     {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
22988     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22989     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22990     \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
22991     \interlinepenalty\@M
22992     \leavevmode
22993     \@tempdima \@nameuse{cft#2numwidth}\relax
22994     \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
22995     \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
22996     \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
22997     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22998     {\@nameuse{cft#2font}##1}\nobreak
22999     \@nameuse{cft#2fillnum}{##2}}
23000   \fi
23001 } % end of l@#2
23002
23003 \expandafter\newlength\csname cftbefore#2skip\endcsname
23004 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2p@}
23005 \expandafter\newlength\csname cft#2indent\endcsname
23006 \expandafter\newlength\csname cft#2numwidth\endcsname
23007 \ifcase #4\relax % 0
23008   \setlength{\@nameuse{cft#2indent}}{0em}
23009   \setlength{\@nameuse{cft#2numwidth}}{1.5em}
23010 \or % 1
23011   \setlength{\@nameuse{cft#2indent}}{1.5em}
23012   \setlength{\@nameuse{cft#2numwidth}}{2.3em}
23013 \or % 2
23014   \setlength{\@nameuse{cft#2indent}}{3.8em}
23015   \setlength{\@nameuse{cft#2numwidth}}{3.2em}

```





```

23016 \or % 3
23017 \setlength{\@nameuse{cft#2indent}}{7.0em}
23018 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
23019 \else % anything else
23020 \setlength{\@nameuse{cft#2indent}}{10.0em}
23021 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
23022 \fi
23023 \@namedef{cft#2font}{\normalfont}
23024 \@namedef{cft#2presnum}{}
23025 \@namedef{cft#2aftersnum}{}
23026 \@namedef{cft#2aftersnumb}{}
23027 \@namedef{cft#2dotsep}{\cftdotsep}
23028 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
23029 \@namedef{cft#2pagefont}{\normalfont}
23030 \@namedef{cft#2afterpnum}{}
23031 \@namedef{toclevel@#2}{#4}
23032 \@namedef{cft#2fillnum}##1{%
23033 {\@nameuse{cft#2leader}}\nobreak
23034 \hb@xt@{\@pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1\@nameuse{cft#2afterpnum}\par}
23035 } % end \newlistentry
23036 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
23037 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
23038 \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
23039 \if@RTL\leftskip\else\righskip\fi \@tocrmarg\relax
23040 \textit{#1}\protect\par}}}

```

## 159 File tocbasic-xetex-bidi.def

```

23041 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
23042 \bidi@undef\scr@dte@def@l@undottedtocline
23043 \bidi@undef\scr@dte@undottedtocline@init
23044 \DeclareTOCEntryStyle{undottedtocline}[{%
23045 \DefineTOCEntryLengthOption{indent}%
23046 {\scr@tso@}{@indent}{entry indent}%
23047 \DefineTOCEntryLengthOption{numwidth}%
23048 {\scr@tso@}{@numwidth}{entry number width}%
23049 \@ifundefined{#1tocdepth}{%
23050 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23051 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23052 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23053 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23054 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23055 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23056 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23057 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23058 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23059 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23060 \csname #1numdepth\endcsname
23061 }%
23062 }%
23063 }%
23064 }%
23065 }%
23066 }%

```



```

23067     }%
23068   }%
23069   }%
23070 }{}%
23071 \@ifundefined{scr@tso@#1@indent}{%
23072   \@ifundefined{scr@#1@tocindent}{%
23073     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23074       \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23075         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23076           \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23077             \scr@ifundefinedorrelax{1@chapter}{%
23078               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23079                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23080                   \Ifstr{#1}{subsubsection}{%
23081                     \@namedef{scr@tso@#1@indent}{3.8em}%
23082                   }{%
23083                     \Ifstr{#1}{paragraph}{%
23084                       \@namedef{scr@tso@#1@indent}{7em}%
23085                     }{%
23086                       \Ifstr{#1}{subparagraph}{%
23087                         \@namedef{scr@tso@#1@indent}{10em}%
23088                       }{%
23089                         }%
23090                       }%
23091                     }%
23092                   }%
23093                 }%
23094               }{%
23095                 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23096                   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23097                     \Ifstr{#1}{subsubsection}{%
23098                       \@namedef{scr@tso@#1@indent}{7.0em}%
23099                     }{%
23100                       \Ifstr{#1}{paragraph}{%
23101                         \@namedef{scr@tso@#1@indent}{10em}%
23102                       }{%
23103                         \Ifstr{#1}{subparagraph}{%
23104                           \@namedef{scr@tso@#1@indent}{12em}%
23105                         }{%
23106                           }%
23107                         }%
23108                       }%
23109                     }%
23110                   }%
23111                 }%
23112               }%
23113             }%
23114           }%
23115         }%
23116       }{%
23117         \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23118       }%
23119     }{}%
23120   \@ifundefined{scr@tso@#1@numwidth}{%

```



```

23121 \@ifundefined{scr@#1@tocnumwidth}{%
23122 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23123 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23124 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23125 \scr@ifundefinedorrelax{chapter}{%
23126 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23127 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23128 \Ifstr{#1}{subsubsection}{%
23129 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23130 }{%
23131 \Ifstr{#1}{paragraph}{%
23132 \@namedef{scr@tso@#1@numwidth}{4.1em}%
23133 }{%
23134 \Ifstr{#1}{subparagraph}{%
23135 \@namedef{scr@tso@#1@numwidth}{5m}%
23136 }{%
23137 }%
23138 }%
23139 }%
23140 }%
23141 }%
23142 }{%
23143 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23144 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23145 \Ifstr{#1}{subsubsection}{%
23146 \@namedef{scr@tso@#1@numwidth}{3.1em}%
23147 }{%
23148 \Ifstr{#1}{paragraph}{%
23149 \@namedef{scr@tso@#1@numwidth}{5em}%
23150 }{%
23151 \Ifstr{#1}{subparagraph}{%
23152 \@namedef{scr@tso@#1@numwidth}{6em}%
23153 }{%
23154 }%
23155 }%
23156 }%
23157 }%
23158 }%
23159 }%
23160 }%
23161 }%
23162 }%
23163 }{%
23164 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23165 }%
23166 }{}%
23167 }}{%
23168 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23169 \ifnum \@nameuse{#1tocdepth}<\@ne
23170 \scr@ifundefinedorrelax{chapter}{%
23171 \addpenalty\@secpenalty
23172 \addvspace{1.0em \@plus\p}%
23173 }{%
23174 \addpenalty{-\@highpenalty}%

```



```

23175         \vskip 1.0em \@plus\p@
23176     }%
23177 \else
23178     \addpenalty\@secpenalty
23179     \addvspace{1.0em \@plus\p@}%
23180 \fi
23181 \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
23182 \beginingroup
23183     \parindent \z@ \bidi@rightskip \@pnumwidth
23184     \parfillskip -\@pnumwidth
23185     \leavevmode
23186     \bfseries
23187     \advance\bidi@leftskip\@tempdima
23188     \iftocfeature{\@currentx}{noindent}{%
23189         \hskip -\bidi@leftskip
23190     }{%
23191         \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23192         \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
23193     }%
23194     ##1%
23195     \nobreak
23196     \hfil \nobreak\hb@ext@\@pnumwidth{\hss ##2}%
23197     \par
23198     \penalty\@highpenalty
23199 \endgroup
23200 \fi
23201 }
23202
23203 \bidi@undef\scr@dte@def@l@targetocline
23204 \bidi@undef\scr@dte@targetocline@init
23205 \DeclareTOCEntryStyle{targetocline}[{%
23206     \DefineTOCEntryLengthOption{indent}%
23207     {scr@tso@}{@indent}{entry indent}%
23208     \@ifundefined{#1tocdepth}{%
23209         \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23210             \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23211                 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23212                     \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23213                         \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23214                             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23215                                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23216                                     \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23217                                         \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23218                                             \expandafter\let\csname #1tocdepth\expandafter\endcsname
23219                                                 \csname #1numdepth\endcsname
23220                                         }%
23221                                     }%
23222                                 }%
23223                             }%
23224                         }%
23225                     }%
23226                 }%
23227             }%
23228         }%

```



```

23229 }{}%
23230 \@ifundefined{scr@tso@#1@indent}{%
23231   \@ifundefined{scr@#1@tocindent}{%
23232     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23233       \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23234         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23235           \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23236             \scr@ifundefinedorrelax{1@chapter}{%
23237               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23238                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23239                   \Ifstr{#1}{subsubsection}{%
23240                     \@namedef{scr@tso@#1@indent}{3.8em}%
23241                   }{%
23242                     \Ifstr{#1}{paragraph}{%
23243                       \@namedef{scr@tso@#1@indent}{7em}%
23244                     }{%
23245                       \Ifstr{#1}{subparagraph}{%
23246                         \@namedef{scr@tso@#1@indent}{10em}%
23247                       }{%
23248                         }%
23249                       }%
23250                     }%
23251                   }%
23252                 }%
23253               }{%
23254                 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23255                   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23256                     \Ifstr{#1}{subsubsection}{%
23257                       \@namedef{scr@tso@#1@indent}{7.0em}%
23258                     }{%
23259                       \Ifstr{#1}{paragraph}{%
23260                         \@namedef{scr@tso@#1@indent}{10em}%
23261                       }{%
23262                         \Ifstr{#1}{subparagraph}{%
23263                           \@namedef{scr@tso@#1@indent}{12em}%
23264                         }{%
23265                           }%
23266                         }%
23267                       }%
23268                     }%
23269                   }%
23270                 }%
23271               }%
23272             }%
23273           }%
23274         }{%
23275       }{%
23276         \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23277       }%
23278     }{}%
23279   }{}%
23280   \ifnum \c@tocdepth > \numexpr \@nameuse{#1@tocdepth} - \@ne \relax
23281     \ifnum \@nameuse{#1@tocdepth} < \@ne
23282       \scr@ifundefinedorrelax{chapter}{%

```



```

23283 \addpenalty\@secpenalty
23284 \addvspace{2.25em \@plus\p@}%
23285 }{%
23286 \addpenalty{-\@highpenalty}%
23287 \addvspace{2.25em \@plus\p@}%
23288 }%
23289 \else
23290 \addpenalty\@secpenalty
23291 \addvspace{2.25em \@plus\p@}%
23292 \fi
23293 \setlength\@tempdima{3em}%
23294 \begingroup
23295 \parindent \z@ \bidi@rightskip \@pnumwidth
23296 \parfillskip -\@pnumwidth
23297 \leavevmode
23298 \large
23299 \bfseries
23300 \IfTocFeature{\@currentx}{noindent}{%
23301 }{%
23302 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23303 }%
23304 ##1%
23305 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23306 \par
23307 \nobreak
23308 \ifnum 0=
23309 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
23310 \global\@nobreaktrue
23311 \everypar{\global\@nobreakfalse\everypar{}}%
23312 \fi
23313 \endgroup
23314 \fi
23315 }
23316
23317 \renewcommand*{\scr@dte@tocline}[3]{%
23318 \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
23319 \else
23320 \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
23321 \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
23322 \@nameuse{Ifscr@tso@#1@dynindent}{%
23323 \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
23324 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
23325 \else
23326 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
23327 \@for \reserved@a:=\reserved@a\do {%
23328 \scr@trim@spaces\reserved@a
23329 \ifx\reserved@a\@empty\else
23330 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
23331 }{%
23332 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
23333 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
23334 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
23335 \scr@ifundefinedorrelax
23336 {scr@dte@\reserved@a @lastmaxnumwidth}{%

```



```

23337         \advance\@tempdima
23338         \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23339     }{%
23340         \advance\@tempdima
23341         \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
23342     }%
23343 }{%
23344     \advance\@tempdima
23345     \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23346 }%
23347 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
23348     \expandafter\edef\csname scr@tso@#1@indent\endcsname
23349     {\the\@tempdima}%
23350 \fi
23351 \fi
23352 }%
23353 \fi
23354 }%
23355 \fi
23356 }{}%
23357 {%
23358     \Iftocfeature{\@currentt}{noindent}{%
23359         \bidi@leftskip \z@
23360     }{%
23361         \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
23362     }%
23363     \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
23364     \parfillskip -\bidi@rightskip
23365     \@nameuse{Ifscr@tso@#1@raggedpage}{%
23366         \addtolength{\parfillskip}{\z@ \@plus 1fil}%
23367     }{}%
23368     \Iftocfeature{\@currentt}{noindent}{%
23369         \parindent \z@
23370     }{%
23371         \parindent \@nameuse{scr@tso@#1@indent}\relax
23372     }%
23373     \@afterindenttrue
23374     \interlinepenalty\@M
23375     \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
23376         \addtolength\bidi@rightskip\@flushglue
23377     \else
23378         \def\reserved@a{\raggedright}%
23379         \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23380             \addtolength\bidi@rightskip\@flushglue
23381         \else
23382             \renewcommand\reserved@a{\raggedright}%
23383             \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23384                 \addtolength\bidi@rightskip\@flushglue
23385             \fi
23386         \fi
23387     \fi
23388     \leavevmode
23389     \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
23390     \@nameuse{Ifscr@tso@#1@dynnumwidth}{%

```



```

23391 \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}{%
23392 \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
23393 \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
23394 \fi
23395 }%
23396 }{}%
23397 \advance\@bidi@leftskip \@tempdima
23398 \null\nobreak\hskip -\@bidi@leftskip
23399 {%
23400 \usetocbasicnumberline
23401 \let\scr@dte@numberline@box\numberline@box
23402 \def\numberline@box##1{%
23403 \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
23404 \global\scr@dte@tocline@numberwidth
23405 \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
23406 \relax
23407 \ifdim \scr@dte@tocline@numberwidth
23408 >\@nameuse{scr@dte@#1@maxnumwidth}\relax
23409 \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
23410 \fi
23411 \@nameuse{Ifscr@tso@#1@dynnumwidth}{}{%
23412 \ifdim \scr@dte@tocline@numberwidth
23413 >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
23414 +\@nameuse{scr@tso@#1@numsep}\relax\relax
23415 \PackageWarning{tocbasic}{%
23416 number width of #1 toc entries should be
23417 increased!\MessageBreak
23418 Currently used number width =
23419 \the\wd\scr@dte@tocline@numbox,\MessageBreak
23420 Wanted number separation
23421 \space\space\space =
23422 \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
23423 Reserved number width \space\space\space\space\space\space =
23424 \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
23425 }%
23426 \fi
23427 }%
23428 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
23429 \@nameuse{Ifscr@tso@#1@breakafternumber}{%
23430 {\parfillskip\@flushglue\par}\nobreak\hskip-\@bidi@leftskip
23431 }{}%
23432 }%
23433 {\@nameuse{scr@tso@#1@entryformat}}{%
23434 #2%
23435 \nobreak
23436 {%
23437 \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
23438 \nobreak
23439 \expandafter\let\expandafter\scr@dte@pagenumberwidth
23440 \csname scr@tso@#1@pagenumberwidth\endcsname
23441 \@nameuse{scr@tso@#1@pagenumberbox}{%
23442 \@nameuse{scr@tso@#1@pagenumberformat}}{#3}%
23443 }%
23444 }%

```





```

23445     }}\@par
23446   }%
23447 }%
23448 \tocbasic@SetPenaltyByTOCLevel{#1}%
23449 \fi
23450 }
23451
23452
23453 \bidi@undef\scr@dte@def@l@tocline
23454 \bidi@undef\scr@dte@tocline@init
23455 \DeclareTOCEntryStyle{tocline}[{%
23456   \DefineTOCEntryLengthOption{beforeskip}%
23457   {scr@tso@}{@beforeskip}{vertical skip before the entry}%
23458   \DefineTOCEntryIfOption{breakafternumber}%
23459   {scr@tso@}{@breakafternumber}{line break after number flag}%
23460   \DefineTOCEntryIfOption{dynnumwidth}%
23461   {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
23462   \DefineTOCEntryListOption{indentfollows}%
23463   {scr@tso@}{@indentfollows}{list of levels that define the indent}%
23464   \DefineTOCEntryIfOption{dynindent}%
23465   {scr@tso@}{@dynindent}{dynamic indent width flag}%
23466   \DefineTOCEntryCommandOption{entryformat}%
23467   {scr@tso@}{@entryformat}[1]{entry format}%
23468   \DefineTOCEntryCommandOption{entrynumberformat}%
23469   {scr@tso@}{@numberformat}[1]{entry number format}%
23470   \DefineTOCEntryCommandOption{linefill}{\TOCLineLeaderFill}%
23471   {scr@tso@}{@linefill}{filling between text and page number}%
23472   \DefineTOCEntryLengthOption{numsep}%
23473   {scr@tso@}{@numsep}{entry number separation}%
23474   \DefineTOCEntryCommandOption{onstarthigherlevel}%
23475   {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
23476   \DefineTOCEntryCommandOption{onstartlowerlevel}%
23477   {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
23478   \DefineTOCEntryCommandOption{onstartsamelevel}%
23479   {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
23480   \DefineTOCEntryCommandOption{pagenumberbox}%
23481   {scr@tso@}{@pagenumberbox}[1]{page number box}%
23482   \DefineTOCEntryCommandOption{pagenumberformat}%
23483   {scr@tso@}{@pagenumberformat}[1]{page number format}%
23484   \DefineTOCEntryLengthOption{pagenumberwidth}%
23485   {scr@tso@}{@pagenumberwidth}{width of page number box}%
23486   \DefineTOCEntryLengthOption{rightindent}%
23487   {scr@tso@}{@rightindent}{entry's text right indent}%
23488   \DefineTOCEntryOption{raggedentrytext}[true]{%
23489     \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
23490     \ifx\FamilyKeyState\FamilyKeyStateProcessed
23491       \if@tempswa
23492         \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23493         \raggedright
23494       \else
23495         \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23496         \relax
23497       \fi
23498     \fi

```



```

23499 }%
23500 \DefineTOCEntryIfOption{raggedpagenumber}%
23501 {scr@tso@}{@raggedpage}{page number ragged flag}%
23502 \DefineTOCEntryLengthOption{indent}%
23503 {scr@tso@}{@indent}{entry indent}%
23504 \DefineTOCEntryLengthOption{numwidth}%
23505 {scr@tso@}{@numwidth}{entry number width}%
23506 \scr@ifundefinedorrelax{#1tocdepth}{%
23507 \Ifstrstart{#1}{sub}{%
23508 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{}%
23509 \expandafter\edef\csname #1tocdepth\endcsname{%
23510 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
23511 }%
23512 }%
23513 }{}%
23514 }{}%
23515 \@ifundefined{#1tocdepth}{%
23516 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23517 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23518 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23519 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23520 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23521 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23522 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23523 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23524 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23525 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23526 \csname #1numdepth\endcsname
23527 }%
23528 }%
23529 }%
23530 }%
23531 }%
23532 }%
23533 }%
23534 }%
23535 }%
23536 }{}%
23537 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
23538 \@ifundefined{scr@#1@tocindent}{%
23539 \Ifstrstart{#1}{sub}{%
23540 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
23541 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
23542 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23543 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
23544 \relax
23545 }%
23546 }%
23547 }{}%
23548 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23549 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23550 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
23551 \relax
23552 }%

```



```

23553     }{%
23554         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23555             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
23556                 +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23557             \relax
23558         }%
23559     }%
23560 }{%
23561 }{%
23562 }{%
23563     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23564 }%
23565 }{%
23566 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
23567     \Ifstrstart{#1}{sub}{%
23568         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
23569             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23570         }{%
23571             \expandafter\let
23572             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
23573             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
23574         }%
23575     }{%
23576         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23577     }%
23578 }{%
23579 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
23580     \Ifstrstart{#1}{sub}{%
23581         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
23582             \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23583         }{%
23584             \expandafter\let
23585             \csname scr@tso@#1@rightindent\expandafter\endcsname
23586             \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
23587         }%
23588     }{%
23589         \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23590     }%
23591 }{%
23592 \@ifundefined{scr@tso@#1@indent}{%
23593     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23594     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23595     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23596     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23597         \scr@ifundefinedorrelax{l@chapter}{%
23598             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23599             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23600                 \Ifstr{#1}{subsubsection}{%
23601                     \@namedef{scr@tso@#1@indent}{3.8em}%
23602                 }{%
23603                     \Ifstr{#1}{paragraph}{%
23604                         \@namedef{scr@tso@#1@indent}{7em}%
23605                     }{%
23606                         \Ifstr{#1}{subparagraph}{%

```



```

23607             \@namedef{scr@tso@#1@indent}{10em}%
23608             }{%
23609             }%
23610             }%
23611             }%
23612             }%
23613             }%
23614             }{%
23615             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23616             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23617             \Ifstr{#1}{subsubsection}{%
23618             \@namedef{scr@tso@#1@indent}{7.0em}%
23619             }{%
23620             \Ifstr{#1}{paragraph}{%
23621             \@namedef{scr@tso@#1@indent}{10em}%
23622             }{%
23623             \Ifstr{#1}{subparagraph}{%
23624             \@namedef{scr@tso@#1@indent}{12em}%
23625             }{%
23626             }%
23627             }%
23628             }%
23629             }%
23630             }%
23631             }%
23632             }%
23633             }%
23634             }%
23635             }%
23636             }{%
23637             \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
23638             \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
23639             \Ifstrstart{#1}{sub}{%
23640             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23641             \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
23642             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23643             +.9em}%
23644             \relax
23645             }%
23646             }%
23647             }{%
23648             }{%
23649             \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23650             }%
23651             }{%
23652             \@ifundefined{scr@tso@#1@numwidth}{%
23653             \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23654             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23655             \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23656             \scr@ifundefinedorrelax{chapter}{%
23657             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23658             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23659             \Ifstr{#1}{subsubsection}{%
23660             \@namedef{scr@tso@#1@numwidth}{3.2em}%

```



```

23661         }{%
23662         \Ifstr{#1}{paragraph}{%
23663         \@namedef{scr@tso@#1@numwidth}{4.1em}%
23664         }{%
23665         \Ifstr{#1}{subparagraph}{%
23666         \@namedef{scr@tso@#1@numwidth}{5em}%
23667         }{%
23668         }%
23669         }%
23670         }%
23671         }%
23672         }%
23673     }{%
23674     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23675     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23676     \Ifstr{#1}{subsubsection}{%
23677     \@namedef{scr@tso@#1@numwidth}{3.1em}%
23678     }{%
23679     \Ifstr{#1}{paragraph}{%
23680     \@namedef{scr@tso@#1@numwidth}{5em}%
23681     }{%
23682     \Ifstr{#1}{subparagraph}{%
23683     \@namedef{scr@tso@#1@numwidth}{6em}%
23684     }{%
23685     }%
23686     }%
23687     }%
23688     }%
23689     }%
23690     }%
23691     }%
23692     }%
23693     }%
23694 }{%}%
23695 \expandafter\renewcommand%
23696 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
23697 \expandafter\renewcommand%
23698 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
23699 \expandafter\renewcommand%
23700 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
23701 \@ifundefined{scr@tso@#1@beforeskip}{%
23702 \Ifstr{#1}{part}{%
23703 \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
23704 }{%
23705 \Ifstr{#1}{chapter}{%
23706 \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23707 }{%
23708 \Ifstr{#1}{section}{%
23709 \scr@ifundefinedorrelax{1@chapter}{%
23710 \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23711 }{}%
23712 }{}%
23713 }%
23714 }%

```



```

23715 \expandafter\renewcommand\expandafter*%
23716 \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
23717 }{}%
23718 \@ifundefined{scr@dte@#1@maxnumwidth}{%
23719 \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
23720 \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
23721 }{}%
23722 \renewcommand*{\scr@dte@donumwidth}{}%
23723 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
23724 \expandafter\renewcommand\expandafter*%
23725 \csname scr@tso@#1@numsep\endcsname{.4em}%
23726 \expandafter\renewcommand%
23727 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
23728 \Ifstr{#1}{part}{%
23729 \expandafter\providecommand%
23730 \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
23731 }{}%
23732 \Ifstr{#1}{chapter}{%
23733 \expandafter\providecommand%
23734 \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23735 }{}%
23736 \scr@ifundefinedorrelax{1@chapter}{%
23737 \Ifstr{#1}{section}{%
23738 \expandafter\providecommand%
23739 \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23740 }{}%
23741 }{}%
23742 \expandafter\providecommand%
23743 \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
23744 }%
23745 }%
23746 \expandafter\renewcommand
23747 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
23748 \@ifundefined{scr@tso@#1@linefill}{%
23749 \Ifstr{#1}{part}{%
23750 \@namedef{scr@tso@#1@linefill}{\hfill}%
23751 }{}%
23752 \Ifstr{#1}{chapter}{%
23753 \@namedef{scr@tso@#1@linefill}{\hfill}%
23754 }{}%
23755 \scr@ifundefinedorrelax{1@chapter}{%
23756 \Ifstr{#1}{section}{%
23757 \@namedef{scr@tso@#1@linefill}{\hfill}%
23758 }{}%
23759 }{}%
23760 \expandafter\renewcommand%
23761 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23762 }%
23763 }%
23764 }{}%
23765 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
23766 \Ifstr{#1}{part}{%
23767 \expandafter\providecommand%
23768 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%

```



```

23769 }{%
23770   \Ifstr{#1}{chapter}{%
23771     \expandafter\providecommand%
23772     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23773   }{%
23774     \scr@ifundefinedorrelax{1@chapter}{%
23775       \Ifstr{#1}{section}{%
23776         \expandafter\providecommand%
23777         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23778       }{%
23779         }{%
23780         \expandafter\providecommand%
23781         \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23782           {\normalfont\normalcolor ##1}}%
23783       }%
23784     }%
23785     \expandafter\renewcommand%
23786     \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
23787       \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
23788     \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
23789     \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
23790     \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
23791       \Ifstrstart{#1}{sub}{%
23792         \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
23793           \scr@dte@nosub{#1}%
23794         }%
23795       }{%
23796         \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
23797       }%
23798     }{%
23799     }{%
23800     \scr@dte@tocline{#1}{##1}{##2}%
23801   }
23802
23803 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
23804   \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
23805     {\normalfont\normalcolor #1}%
23806   }%
23807 }{}
23808
23809 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
23810   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
23811     {\normalfont\normalcolor #1}%
23812   }%
23813 }{}
23814

```

## 160 File tocstyle-xetex-bidi.def

```

23815 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
23816 \renewcommand*{\tocstyle@dottedtocline}[5]{%
23817   \let\numberline\tocstyle@numberline
23818   \ifnum #1>\c@tocdepth \else
23819     \if@tocstyle@penalties

```



```

23820 \begingroup
23821 \@tempcnta 20010
23822 \advance \@tempcnta by -#1
23823 \ifnum \@tempcnta>\lastpenalty
23824 \aftergroup\penalty\aftergroup\@lowpenalty
23825 \fi
23826 \endgroup
23827 \fi
23828 \edef\tocstyledepth{#1}%
23829 \tocstyle@activate@features
23830 \ifx\tocstyle@feature@entryvskip\relax
23831 \vskip \z@ \@plus.2\p@
23832 \else
23833 \addvspace{\tocstyle@feature@entryvskip}%
23834 \fi
23835 {%
23836 \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\el
23837 \tocstyle@feature@raggedhook
23838 \@tempdima #3\relax
23839 \@tempdimb #2\relax
23840 \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23841 \ifnum #1>\z@\relax
23842 \@tempcnta #1\relax \advance\@tempcnta \m@ne
23843 \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23844 \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23845 \@tempdimb
23846 \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23847 \advance\@tempdimb
23848 \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23849 \fi
23850 \fi
23851 \fi
23852 \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23853 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
23854 \ifdim \@tempdimb>
23855 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
23856 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23857 @#1\endcsname{\the\@tempdimb}%
23858 \fi
23859 \else
23860 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23861 @#1\endcsname{\the\@tempdimb}%
23862 \fi
23863 \iftocstyle@autolength
23864 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23865 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23866 \relax
23867 \fi
23868 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23869 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23870 \relax
23871 \fi
23872 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23873 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%

```





```

23874 \else
23875 \@tempdimb #2\relax
23876 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23877 \fi
23878 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
23879 \ifdim \@tempdima>
23880 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
23881 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23882 @\endcsname{\the\@tempdima}%
23883 \fi
23884 \else
23885 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23886 @\endcsname{\the\@tempdima}%
23887 \fi
23888 \ifcase\tocstyle@indentstyle\relax\else
23889 \@tempdimb \z@
23890 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23891 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23892 \relax
23893 \fi
23894 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23895 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23896 \fi
23897 \advance\parindent \@tempdimb\@afterindenttrue
23898 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
23899 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
23900 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
23901 \ifx\tocstyle@feature@parfillskip\relax\else
23902 \advance\parfillskip \tocstyle@feature@parfillskip\relax
23903 \fi
23904 \interlinepenalty\@M
23905 \leavevmode
23906 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
23907 \null\nobreak
23908 \iftocstyle@indentnotnumbered\else
23909 \hskip -\if@RTL\rightskip\else\leftskip\fi
23910 \fi
23911 \tocstyle@feature@entryhook
23912 {#4}\nobreak
23913 \ifx\tocstyle@feature@leaders\relax
23914 \leaders\hbox{$\m@th
23915 \mkern \@dotsep mu\hbox{\tocstyle@feature@dotohook .}%
23916 \mkern \@dotsep mu$}\hfill
23917 \else
23918 \tocstyle@feature@leaders
23919 \fi
23920 \nobreak
23921 \ifx\tocstyle@feature@pagenumberbox\relax
23922 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
23923 \else
23924 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
23925 \fi
23926 \par
23927 }%

```



```

23928 \if@tocstyle@penalties
23929 \bgroup
23930 \@tempcnta 20009
23931 \advance\@tempcnta by -#1
23932 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
23933 \reserved@a
23934 \fi
23935 \fi}
23936 \renewcommand*{\tocstyle@numberline}[1]{%
23937 \begingroup
23938 \ifx\tocstyle@feature@spaceafternumber\relax
23939 \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
23940 \else
23941 \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
23942 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
23943 \fi
23944 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
23945 \ifdim \@tempdima >
23946 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
23947 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23948 @\tocstyledepth\endcsname{\the\@tempdima}%
23949 \fi
23950 \else
23951 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23952 @\tocstyledepth\endcsname{\the\@tempdima}%
23953 \fi
23954 \endgroup
23955 \iftocstyle@indentnotnumbered
23956 \hskip -\if@RTL\rightskip\else\leftskip\fi
23957 \fi
23958 \ifcase \tocstyle@indentstyle
23959 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
23960 \or
23961 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
23962 \else
23963 \ifx\tocstyle@feature@spaceafternumber\relax
23964 \hbox{\tocstyle@@numberline{#1}\enskip}%
23965 \else
23966 \hbox{\tocstyle@@numberline{#1}\hskip
23967 \tocstyle@feature@spaceafternumber\relax}%
23968 \fi
23969 \fi
23970 }
23971 \AtBeginDocument{%
23972 \ifcsname l@part\endcsname
23973 \ifcsname l@chapter\endcsname
23974 \setbox\@tempboxa\vbox{\hsize\maxdimen
23975 \l@part{\tocstyle@l@define{part}{-1}}}%
23976 \else
23977 \setbox\@tempboxa\vbox{\hsize\maxdimen
23978 \l@part{\tocstyle@l@define{part}{0}}}%
23979 \fi
23980 \fi
23981 \ifcsname l@chapter\endcsname

```



```

23982 \setbox\@tempboxa\vbox{\hsize\maxdimen
23983 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
23984 \fi
23985 \ifcsname l@section\endcsname
23986 \setbox\@tempboxa\vbox{\hsize\maxdimen
23987 \l@section{\tocstyle@l@define{section}{1}}{}}%
23988 \fi
23989 \ifcsname l@subsection\endcsname
23990 \setbox\@tempboxa\vbox{\hsize\maxdimen
23991 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
23992 \fi
23993 \ifcsname l@subsubsection\endcsname
23994 \setbox\@tempboxa\vbox{\hsize\maxdimen
23995 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
23996 \fi
23997 \ifcsname l@paragraph\endcsname
23998 \setbox\@tempboxa\vbox{\hsize\maxdimen
23999 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
24000 \fi
24001 \ifcsname l@subparagraph\endcsname
24002 \setbox\@tempboxa\vbox{\hsize\maxdimen
24003 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
24004 \fi
24005 \ifcsname l@table\endcsname
24006 \setbox\@tempboxa\vbox{\hsize\maxdimen
24007 \l@table{\tocstyle@l@define{table}{1}}{}}%
24008 \fi
24009 \ifcsname l@figure\endcsname
24010 \setbox\@tempboxa\vbox{\hsize\maxdimen
24011 \l@figure{\tocstyle@l@define{figure}{1}}{}}%
24012 \fi
24013 \def\@tempa#1#2#3#4#5{%
24014 \ifnum #1>\c@tocdepth \else
24015 \vskip \z@ \@plus.2\p@
24016 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@toc
24017 \parindent #2\relax\@afterindenttrue
24018 \interlinepenalty\@M
24019 \leavevmode
24020 \@tempdima #3\relax
24021 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
24022 {#4}\nobreak
24023 \leaders\hbox{$\m@th
24024 \mkern \dotsep mu\hbox{.}\mkern \dotsep
24025 mu$}\hfill
24026 \nobreak
24027 \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
24028 \par}%
24029 \fi}%
24030 \ifx\@dottedtocline\@tempa\else
24031 \tocstyle@macrochangewarning\@dottedtocline
24032 \fi
24033 \let\tocstyle@saved@dottedtocline\@dottedtocline
24034 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
24035 \ifx\numberline\@tempa\else

```



```

24036 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
24037 \ifx\numberline@tempa\else
24038 \tocstyle@macrochangewarning\numberline
24039 \fi
24040 \fi
24041 \let\tocstyle@saved@numberline\numberline
24042 }
24043 \renewcommand*{\tocstyle@l@define}[2]{%
24044 \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
24045 \edef\@tempa{%
24046 \noexpand\global\noexpand\let
24047 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
24048 \expandafter\noexpand\csname l@#1\endcsname
24049 \noexpand\gdef
24050 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
24051 \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
24052 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
24053 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
24054 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
24055 }%
24056 }%
24057 \PackageInfo{tocstyle}{prepare \expandafter\string
24058 \csname l@#1\endcsname\space for redefinition}%
24059 \@tempa
24060 }

```

## 161 File todonotes-xetex-bidi.def

```

24061 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
24062 \newif\if@bidi@todonotes@textdirection@RTL
24063 \newif\if@bidi@todonotes@figposition@right
24064 \newcommand{\@bidi@todonotes@align}{}%
24065 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
24066 \newcommand{\@bidi@todonotes@textdirection}{}%
24067 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
24068 \ifcase\@bidi@todonotes@tempb\relax
24069 \@bidi@todonotes@textdirection@RTLtrue
24070 \let\@bidi@todonotes@textdirection\RLE
24071 \or
24072 \@bidi@todonotes@textdirection@RTLfalse
24073 \let\@bidi@todonotes@textdirection\LRE
24074 \fi}
24075 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
24076 \ifcase\@bidi@todonotes@tempb\relax
24077 \@bidi@todonotes@figposition@righttrue
24078 \or
24079 \@bidi@todonotes@figposition@rightfalse
24080 \fi}
24081 \if@todonotes@disabled%
24082 \else % \if@todonotes@disabled
24083 \renewcommand{\@todonotes@drawInlineNote}{%
24084 \if@todonotes@dviStyle%
24085 {\par\noindent\begin{tikzpicture}[remember picture]%
24086 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%

```



```

24087         \if@todonotes@authorgiven%
24088             {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
24089         \else%
24090             {\noindent \@todonotes@sizecommand \@todonotes@text}%
24091         \fi
24092     {\par\noindent\begin{tikzpicture}[remember picture]%
24093         \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24094 \else%
24095     {\par\noindent\begin{tikzpicture}[remember picture]%
24096         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24097         \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
24098             {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
24099         \else%
24100             {\noindent \@todonotes@sizecommand \@todonotes@text}%
24101         \fi};%
24102     \end{tikzpicture}\par}%
24103 \fi}%
24104 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
24105 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
24106     \node [coordinate] (inText) {};%
24107 \end{tikzpicture}%
24108 \marginpar[{} Draw note in left margin
24109     \@todonotes@drawMarginNote%
24110     \if@RTL@todonotes@drawLineToRightMargin\else@todonotes@drawLineToLeftMargin\fi%
24111 }]{% Draw note in right margin
24112     \@todonotes@drawMarginNote%
24113     \if@RTL@todonotes@drawLineToLeftMargin\else@todonotes@drawLineToRightMargin\fi%
24114 }%
24115 }%
24116 }%
24117 \renewcommand{\@todonotes@drawMarginNote}{%
24118 \if@todonotes@dviStyle%
24119     \begin{tikzpicture}[remember picture]%
24120         \draw node[notestyle] {};%
24121     \end{tikzpicture}\\%
24122     \begin{minipage}{\@todonotes@textwidth}%
24123         \if@todonotes@authorgiven%
24124             \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
24125         \else%
24126             \@todonotes@sizecommand \@todonotes@text%
24127         \fi%
24128     \end{minipage}\\%
24129     \begin{tikzpicture}[remember picture]%
24130         \draw node[notestyle] (inNote) {};%
24131     \end{tikzpicture}%
24132 \else%
24133     \let\originalHbadness\hbadness%
24134     \hbadness 100000%
24135     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
24136         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24137         \node(X){\vphantom{X}};%
24138         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
24139             {\@todonotes@text};%
24140         \if@todonotes@authorgiven%

```



```

24141         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todo
24142             {\@todonotes@sizecommand\@todonotes@author};%
24143         \node(Y)[below=of X]{};%
24144         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todo
24145             {\@todonotes@text};%
24146     \else%
24147         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todo
24148             {\@todonotes@text};%
24149     \fi%
24150 \end{tikzpicture}%
24151 \hbadness \originalHbadness%
24152 \fi}%
24153 \renewcommand{\missingfigure}[2][]{%
24154     \setkeys{todonotes}{#1}%
24155     \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
24156 \par
24157 \noindent
24158 \begin{tikzpicture}
24159     \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
24160         (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
24161     \if@bidi@todonotes@figposition@right%
24162     \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24163     \fi%
24164     \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
24165         (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
24166     \if@bidi@todonotes@figposition@right%
24167     \end{scope}
24168     \begin{scope}[xshift=-3.8cm]
24169     \fi%
24170     \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24171     \draw (2, -0.3) node[right, text
24172         width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
24173     \if@bidi@todonotes@figposition@right%
24174     \end{scope}
24175     \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24176     \fi%
24177     \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
24178     \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
24179     \if@bidi@todonotes@figposition@right%
24180     \end{scope}
24181     \fi%
24182 \end{tikzpicture}\hfill
24183 }% Ending \missingfigure command
24184 \fi % Ending \@todonotes@ifdisabled
24185 \presetkeys%
24186     {todonotes}%
24187     {align=left,%
24188     textdirection=lefttoright,%
24189     figposition=left}{}%

```

## 162 File wrapfig-xetex-bidi.def

```

24190 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
24191 \let\WF@@everypar\@everypar

```



```

24192 \def\WF@putfigmaybe{%
24193 \ifinner
24194   \vskip-\parskip \global\WF@floatfalse
24195   \let\pagetotal\maxdimen % kludge flag for "not top of page"
24196 \else % outer page
24197   \@tempdima\pagedepth % save page depth
24198   {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
24199   \penalty\interlinepenalty % update pg. parameters
24200   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
24201   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
24202     \global\WF@floatfalse
24203     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
24204   \else
24205     \ifdim\WF@size>\@tempdimb
24206       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
24207       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
24208       \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
24209       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
24210       \advance\dimen@.5\baselineskip
24211       \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
24212         \global\WF@floatfalse \pagebreak
24213       \fi
24214     \else % \WF@info{Fits in \the\@tempdimb;}%
24215       \global\WF@floatfalse
24216     \fi\fi
24217   \vskip\@tempdima\relax % (return erased page depth)
24218 \fi
24219 \noindent
24220 \ifWF@float
24221   \WF@fltnes
24222 \else % putting here;
24223   \WF@info{Put \WF@wfname here:}%
24224   {\ifodd\if@twoside\c@page\else\@one\fi % assign l/r to i/o placement
24225     \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
24226     \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
24227   \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
24228     \@tempdima\wd\WF@box \@tempdimb\WF@ovh
24229     \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
24230     \@tempdimb\hsize \advance\@tempdimb-\@tempdima
24231     \xdef\WF@adlw{\the\@tempdima}%
24232     \ifnum `l=\WF@place % fig on left
24233       \if@RTL%
24234         \kern\@tempdimb \kern\columnsep
24235       \def\@tempa{\hss}% position to left of the gap
24236     \else%
24237       \hss % figure overlaps space to the left
24238     \def\@tempa{\kern\columnsep}% position to left of the gap
24239     \fi%
24240   \else % fig on right
24241     \if@RTL%
24242       \hss
24243     \else
24244       \def\@tempa{\kern\columnsep}
24245     \fi%

```



```

24246 \tempdima\z@ % no left indentation
24247 \kern\@tempdimb \kern\columnsep
24248 \def\@tempa{\hss}% figure overlaps space to the right
24249 \fi%
24250 \fi
24251 \ifdim\@tempdimb<\hsize
24252 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
24253 \xdef\WF@adjtlm{\the\@tempdima}%
24254 \else
24255 \xdef\WF@wrapil{\z@ \the\hsize}%
24256 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
24257 \fi
24258 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
24259 \global\advance\WF@size-\intextsep
24260 \else % \WF@info{Putting \WF@wfname in middle of page}%
24261 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
24262 \fi \dp\WF@box\z@ \box\WF@box \@tempa
24263 }% end \hbox to Opt
24264 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
24265 \fi}

```

## 163 File xcolor-xetex-bidi.def

```

24266 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
24267 \long\def\color@b@x#1#2#3%
24268 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
24269 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
24270 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
24271 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
24272 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
24273 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
24274 \DeclareRobustCommand\color
24275 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor]}
24276 \def\@undeclaredcolor[#1]#2%
24277 {\begingroup
24278 \let\@cls@empty
24279 \XC@getmodclr12{#1}{#2}{}}%
24280 {\ifblendcolors
24281 \ifx\colorblend\@empty\else
24282 \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
24283 \XC@coremodel\@mod\@clr\xcolor@{}{}\@mod\@clr
24284 \fi
24285 \fi
24286 \ifconvertcolorsU
24287 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24288 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24289 \fi
24290 \ifmaskcolors
24291 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24292 \let\@mod\XC@mmod
24293 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24294 \expandafter\XC@mul\@tmp,\@clr
24295 \fi
24296 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%

```





```

24297 \expandafter\endgroup\@@tmp}}
24298 \def\@declaredcolor#1%
24299 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24300 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24301 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24302 \ifconvertcolorsU\XC@tsttrue\fi
24303 \fi
24304 \ifXC@tst
24305 \expandafter\XC@declaredcolor\else
24306 \expandafter\XC@declaredcolor\fi}
24307 \def\XC@undeclaredcolor#1#2%
24308 {\@ifundefinedmodel{#1}%
24309 {\c@lor@error{model `#1'}}%
24310 {\@nameuse{color@#1}\current@color{#2}}%
24311 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24312 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24313 \def\XC@declaredcolor
24314 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
24315 \edef\current@color{\XC@current@color}%
24316 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24317 \DeclareRobustCommand\bidicolor
24318 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
24319 \def\@bidiundeclaredcolor[#1]#2%
24320 {\begingroup
24321 \let\@cls\@empty
24322 \XC@getmodclr12{#1}{#2}{}}%
24323 {\ifblendcolors
24324 \ifx\colorblend\@empty\else
24325 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
24326 \XC@coremodel\@mod\@clr\xcolor@{}{\@mod\@clr
24327 \fi
24328 \fi
24329 \ifconvertcolorsU
24330 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24331 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24332 \fi
24333 \ifmaskcolors
24334 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24335 \let\@mod\XC@mmod
24336 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24337 \expandafter\XC@mul\@tmp,\@clr
24338 \fi
24339 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
24340 \expandafter\endgroup\@tmp}}
24341 \def\XC@bidiundeclaredcolor#1#2%
24342 {\@ifundefinedmodel{#1}%
24343 {\c@lor@error{model `#1'}}%
24344 {\@nameuse{color@#1}\current@color{#2}}%
24345 \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24346 \XC@display}}
24347 \def\@bidideclaredcolor#1%
24348 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24349 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24350 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi

```



```

24351 \ifconvertcolorsU\XC@@tsttrue\fi
24352 \fi
24353 \ifXC@@tst
24354 \expandafter\XC@bidideclaredcolor\else
24355 \expandafter\XC@bidideclaredcolor\fi}
24356 \def\XC@bidideclaredcolor
24357 {\XC@split\XC@@tmp
24358 \edef\@@tmp{\noexpand\@bidiundeclaredcolor[\@@mod]{\@@clr}}}%
24359 \expandafter\endgroup\@@tmp}
24360 \def\XC@bidideclaredcolor
24361 {\XC@let\Nc\XC@current@color{\string\color\XC@@tmp}%
24362 \edef\current@color{\XC@current@color}%
24363 \XC@display}
24364 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
24365 \def\color@fbbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
24366 \def\color@fbbox#1#2#3#4%
24367 {\color@b@x{\fbboxsep\z@}\bidicolor#1{#2}\XC@fbbox}%
24368 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
24369 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 164 File latex-xetex-bidi.def

```

24370 \ProvidesFile{latex-xetex-bidi.def}[2025/10/28 v1.5.4 bidi adaptations for `latex.ltx' for
24371 \newcommand{\TeXXeTOn}{\TeXXeTstate\@ne}
24372 \newcommand{\TeXXeTOff}{\TeXXeTstate\z@}
24373 \TeXXeTOn
24374 \def\bidi@RTL@everypar{\setbox\z@ \lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebo
24375 \let\bidi@o@everypar=\everypar
24376 \newtoks\bidi@n@everypar
24377 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
24378 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
24379 \let\everypar=\bidi@n@everypar
24380 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
24381 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
24382 \protected\def\hboxR{\hbox\bgroup
24383 \everyhbox{%
24384 \aftergroup\egroup
24385 \everyhbox{}%
24386 \beginR
24387 \@hboxRconstructtrue
24388 \bgroup
24389 \aftergroup\endR
24390 \aftergroup\egroup
24391 }\hbox}
24392 \protected\def\hboxL{\hbox\bgroup
24393 \everyhbox{%
24394 \aftergroup\egroup
24395 \everyhbox{}%
24396 \beginL
24397 \@hboxRconstructfalse
24398 \bgroup
24399 \aftergroup\endL
24400 \aftergroup\egroup
24401 }\hbox}

```



```

24402 \protected\def\ vboxR{\ vbox\bgroup
24403 \everyvbox{%
24404 \aftergroup\egroup
24405 \everyvbox{}}%
24406 \@RTLtrue
24407 \@RTLtabtrue
24408 \bgroup
24409 \aftergroup\egroup
24410 }\ vbox}
24411 \protected\def\ vboxL{\ vbox\bgroup
24412 \everyvbox{%
24413 \aftergroup\egroup
24414 \everyvbox{}}%
24415 \@RTLfalse
24416 \@RTLtabfalse
24417 \bgroup
24418 \aftergroup\egroup
24419 }\ vbox}
24420 \newcommand*{\ bidi@leftskip}{\ if@RTL\ rightskip\ else\ leftskip\ fi}
24421 \newcommand*{\ bidi@rightskip}{\ if@RTL\ leftskip\ else\ rightskip\ fi}
24422 \def\ LTR{\ par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\ hsize\linewidth\ parshape\ z@\ bidi@beamer}
24423 \def\ endLTR{\ par}
24424 \newenvironment{LTR*}{\ LTR
24425 \everypar{%
24426 {\ setbox\ z@\ lastbox
24427 \ ifvoid\ z@
24428 \ kern-\ parindent
24429 \ fi}}%
24430 }%
24431 }{\ endLTR\@endpetrue}
24432 \def\ RTL{\ par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\ hsize\linewidth\ parshape\ z@\ bidi@beamer}
24433 \def\ endRTL{\ par}
24434 \newenvironment{RTL*}{\ RTL
24435 \everypar{%
24436 {\ setbox\ z@\ lastbox
24437 \ ifvoid\ z@
24438 \ kern-\ parindent
24439 \ fi}}%
24440 }%
24441 }{\ endRTL\@endpetrue}
24442 \def\ setRTL{\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\ bidi@beamer@ragged}
24443 \def\ setLTR{\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\ bidi@beamer@ragged}
24444 \let\ unsetRTL=\ setRTL
24445 \let\ unsetLTR=\ setLTR
24446 \let\ LR=\ LRE
24447 \let\ RL=\ RLE
24448 \def\@ensure@RTL#1{\ if@RTL#1\ else\ RLE{#1}\ fi}
24449 \def\@ensure@LTR#1{\ if@RTL\ LRE{#1}\ else#1\ fi}
24450 \let\@ensure@RL=\@ensure@RTL
24451 \let\@ensure@LR=\@ensure@LTR
24452 \def\@ensure@dir#1{\ if@RTL\ RLE{#1}\ else{#1}\ fi}
24453 \let\@ensure@maindir=\@ensure@dir
24454 \def\@@RTL{RTL}
24455 \def\@@LTR{LTR}

```



```

24456 \def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
24457 \def\reset@dir{\ifx\saved@@dir\@RTL\setRTL\else\ifx\saved@@dir\@LTR\setLTR\else\relax\fi}
24458 \let\@TeX\TeX
24459 \def\TeX{\@ensure@LTR{\@TeX}}
24460 \let\@LaTeX\LaTeX
24461 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
24462 \let\@LaTeXe\LaTeXe
24463 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
24464 \long\def\bidireflect@box#1{%
24465   \leavevmode
24466   \setbox\z@\hbox{#1}}%
24467   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:restore}}
24468   \hbxt@wd\z@{\kernwd\z@box\tw@hss}%
24469 }
24470 \if@bidi@csundef{XeTeX}{%
24471 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24472   \hbox{\kern-.125em\bidireflect@box{E}}\kern-.1667em \TeX}}$}}%
24473 }{%
24474 \let\@bidi@orig@XeTeX\XeTeX
24475 \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
24476 }
24477 \if@bidi@csundef{XeLaTeX}{%
24478 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24479   \hbox{\kern-.125em\bidireflect@box{E}}\kern-.1667em \LaTeX}}$}}%
24480 }{%
24481 \let\@bidi@orig@XeLaTeX\XeLaTeX
24482 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
24483 }
24484 \let\setRL=\setRTL
24485 \let\setLR=\setLTR
24486 \let\unsetRL=\setLTR
24487 \def\biditabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
24488 \ApplyPatchIfPackageLoaded{array}{%
24489 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24490   \leavevmode
24491   \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
24492     \let\dollarend\end\group
24493   \@tabarray}
24494 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
24495 }{%
24496 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24497   \leavevmode \hbox \bgroup
24498   $\left.\let\@acol\@tabacol
24499   \let\@classz\@tabclassz
24500   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24501
24502 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24503   \egroup\right\rbrace $\egroup}}
24504 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
24505   \ialign{##\hfil$&\quad{##}\hfil\crr#1\crr}}\,,\right\}}
24506 \renewenvironment{RTLcases}{%
24507 \bidi@matrix@check\RTLcases\env@RTLcases
24508 }{%
24509 \endbidi@tabular@RTLcases%

```



```

24510 }
24511 \def\env@RTLcases{%
24512   \let@ifnextchar\bidinew@ifnextchar
24513   \def\arraystretch{1.2}%
24514   \biditabular@RTLcases{@{}r@{\quad}r@{}}%
24515 }
24516 \def\SepMark#1{\gdef\@SepMark{#1}}
24517 \SepMark{.}
24518 \def\@thmcountersep{\@SepMark}
24519 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
24520 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
24521 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
24522 \newcommand*{\bidin@thebibliography@font@hook}{}
24523 \def\list#1#2{%
24524   \ifnum \@listdepth >5\relax
24525     \toodeep
24526   \else
24527     \global\advance\@listdepth\@ne
24528   \fi
24529   \rightmargin\z@
24530   \listparindent\z@
24531   \itemindent\z@
24532   \csname @list\romannumeral\the\@listdepth\endcsname
24533   \def\@itemlabel{#1}%
24534   \let\makelabel\@mklab
24535   \@nmbbrlistfalse
24536   #2\relax
24537   \@trivlist
24538   \parskip\parsep
24539   \parindent\listparindent
24540   \advance\linewidth -\rightmargin
24541   \advance\linewidth -\leftmargin
24542   \if@bidi@list@minipage@parbox
24543     \if@RTL
24544       \advance\@totalleftmargin \leftmargin
24545     \else
24546       \advance\@totalleftmargin \rightmargin
24547     \fi
24548   \else
24549     \if@hboxRconstruct
24550     \if@bidi@list@minipage@parbox@not@nob
24551     \if@RTL
24552       \advance\@totalleftmargin \rightmargin
24553     \else
24554       \advance\@totalleftmargin \leftmargin
24555     \fi
24556   \else
24557     \if@RTL
24558       \advance\@totalleftmargin \leftmargin
24559     \else
24560       \advance\@totalleftmargin \rightmargin
24561     \fi\fi
24562   \else
24563     \if@RTL

```



```

24564 \advance\@totalleftmargin \rightmargin
24565 \else
24566 \advance\@totalleftmargin \leftmargin
24567 \fi\fi\fi
24568 \parshape \@ne \@totalleftmargin \linewidth
24569 \ignorespaces}
24570 \long\def\@iiiparbox#1#2[#3]#4#5{%
24571 \leavevmode
24572 \@pboxswfalse
24573 \if@hboxRconstruct
24574 \@bidi@list@minipage@parbox@not@nobtrue
24575 \fi
24576 \if@RTL
24577 \ifx#1t%
24578 \@bidi@list@minipage@parboxtrue
24579 \else
24580 \ifx#1b%
24581 \@bidi@list@minipage@parboxtrue
24582 \fi
24583 \fi
24584 \fi
24585 \setlength\@tempdima{#4}%
24586 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
24587 \ifx\relax#2\else
24588 \setlength\@tempdimb{#2}%
24589 \edef\@parboxto{to\the\@tempdimb}%
24590 \fi
24591 \if#1b\vbox
24592 \else\if #1t\top
24593 \else\ifmmode\vcenter
24594 \else\@pboxswtrue $\vcenter
24595 \fi\fi\fi
24596 \@parboxto{\let\hss\vss\let\unhbox\unvbox
24597 \csname bm@#3\endcsname}%
24598 \if@pboxsw \m@th$\fi
24599 \@end@tempboxa}
24600 \newenvironment{LTRitems}
24601 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
24602 \if@bidi@list@minipage@parbox
24603 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24604 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24605 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24606 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24607 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24608 \ignorespaces}{\vskip\z@}
24609 \newenvironment{RTLitems}
24610 {\par\@RTLtrue\@RTLtabtrue\bidi@beamer@ragged
24611 \if@bidi@list@minipage@parbox
24612 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24613 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24614 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24615 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24616 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24617 \ignorespaces}{\vskip\z@}

```



```

24618 \newenvironment{LTRbibitems}
24619     {\par\@RTLfalse\@RTLtabfalse\@RTLbidi@beamer@ragged
24620      \if@bidi@list@minipage@parbox
24621      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24622      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24623      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24624      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24625      \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24626      \ignorespaces}{\vskip\z@}
24627 \newenvironment{RTLbibitems}
24628     {\par\@RTLtrue\@RTLtabtrue\@RTLbidi@beamer@ragged
24629      \if@bidi@list@minipage@parbox
24630      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24631      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24632      \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24633      \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24634      \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24635      \ignorespaces}{\vskip\z@}
24636 \def\raggedright{%
24637   \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
24638   \leftskip\z@skip
24639   \parindent\z@\parfillskip\z@skip}
24640 \let\@bidi@orig@raggedleft\raggedleft
24641 \let\@bidi@orig@raggedright\raggedright
24642 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRconstruct\@bidi@orig@raggedleft\else\if@hboxRconstruct\@bidi@orig@raggedright\fi}
24643 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRconstruct\@bidi@orig@raggedright\fi}
24644 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
24645 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
24646 \DeclareRobustCommand\centerline[1]{%
24647   \if@RTL\@@line{\hss\beginR#1\endR\hss}
24648   \else\@@line{\hss#1\hss}\fi}
24649 \def\@bidi@orig@leftline#1{%
24650   \if@RTL\@@line{\beginR#1\endR\hss}
24651   \else\@@line{#1\hss}\fi}
24652 \def\@bidi@orig@rightline#1{%
24653   \if@RTL\@@line{\hss\beginR#1\endR}
24654   \else\@@line{\hss#1}\fi}
24655 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\@bidi@orig@rightline{#1}\else\@bidi@orig@leftline{#1}\fi}
24656 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\@bidi@orig@leftline{#1}\else\@bidi@orig@rightline{#1}\fi}
24657 \DeclareRobustCommand\bidirlap[1]{\hb@xt@0\z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
24658 \DeclareRobustCommand\bidillap[1]{\hb@xt@0\z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
24659 \def\@hangfrom#1{\setbox\@tempboxa\hbox{\{#1\}}%
24660   \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
24661 \def\narrower{%
24662   \advance\if@RTL\rightskip\else\leftskip\fi\parindent
24663   \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
24664 \DeclareRobustCommand\underline[1]{%
24665   \relax
24666   \ifmmode\@@underline{#1}%
24667   \else
24668     \if@RTL $ \@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
24669   \else
24670     $ \@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
24671 \if@compatibility

```



```

24672 \let\undertext=\underline
24673 \fi
24674 \def\@tabular{%
24675 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
24676 $\let\@acol\@tabacol
24677 \let\@classz\@tabclassz
24678 \let\@classiv\@tabclassiv \let\\\@tabularcrcr\@tabarray}
24679 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
24680 \egroup $\if@RTLtab\endR\fi\egroup}
24681 \expandafter \let \csname endtabular*\endcsname = \endtabular
24682 \def\@array[#1]#2{%
24683 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
24684 \bgroup
24685 \setbox\@arstrutbox\hbox{%
24686 \vrule \@height\arraystretch\ht\strutbox
24687 \depth\arraystretch \dp\strutbox
24688 \@width\z@}%
24689 \mkpream{#2}%
24690 \edef\@preamble{%
24691 \ialign \noexpand\@halignto
24692 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
24693 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
24694 \let\tabularnewline\\
24695 \let\par\empty
24696 \let\sharp##
24697 \set@typeset@protect
24698 \lineskip\z@skip\baselineskip\z@skip
24699 \ifhmode \@preamerr\z@ \@@par\fi
24700 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
24701 \@preamble}
24702 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
24703 \let\@classiv\@arrayclassiv
24704 \let\\\@arraycr\let\@halignto\empty\@RTLtabfalse\@tabarray}
24705 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
24706 \ifnum \@lastchclass=3 5 \else
24707 \z@ \if #1c\@chnum \z@ \else
24708 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
24709 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
24710 \@chclass \if #1|\@ne \else
24711 \if #1@\tw@ \else
24712 \if #1p3 \else \z@ \@preamerr 0\fi
24713 \fi \fi \fi \fi \fi \fi
24714 \fi}
24715 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
24716 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
24717 \def\bm@t{\unhbox\@tempboxa\hss}
24718 \def\bm@b{\hss\unhbox\@tempboxa}
24719 \def\@dottedtocline#1#2#3#4#5{%
24720 \ifnum #1>\c@tocdepth \else
24721 \vskip \z@ \@plus.2\p@
24722 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrama
24723 \parindent #2\relax\@afterindenttrue
24724 \interlinepenalty\@M
24725 \leavevmode

```





```

24726 \@tempdima #3\relax
24727 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
24728 {#4}\nobreak
24729 \leaders\hbox{$\m@th
24730 \mkern \dotsep mu\hbox{.}\mkern \dotsep
24731 mu$}\hfill
24732 \nobreak
24733 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
24734 \par}%
24735 \fi}
24736
24737 \newcount\ bidi@column@check@number
24738
24739 \def\ bidi@column@status#1{\gdef\ bidi@current@column@status{#1}}
24740
24741 \def\ bidi@set@column@status#1#2{%
24742 \global\expandafter\let\csname #1\endcsname\ bidi@current@column@status}
24743
24744 \if@twocolumn
24745 \newcommand\DetectColumn[3][1]{%
24746 \ifx\ bidi@firstcolumn@status\write\relax
24747 \PackageError{bidi}%
24748 {Option 'DetectColumn' not selected}%
24749 {\string\DetectColumn\space
24750 requires the use of the 'DetectColumn'
24751 option on the package}%
24752 \fi
24753 \global\advance\ bidi@column@check@number\@ne
24754 \edef\ bidi@column@type{\expandafter\ifx
24755 \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
24756 0\else
24757 \csname bidi@column-\the\ bidi@column@check@number\endcsname
24758 \fi}%
24759 \ifcase \ bidi@column@type\relax
24760 \ifcase #1\or #2\or #3\fi % 0 not known use first column as default
24761 \or
24762 #2% % 1 First column
24763 \or
24764 #3% % 2 Second (Last column)
24765 \else
24766 \ERROR
24767 \fi
24768 \edef\next{\write\@auxout
24769 {\string\ bidi@set@column@status{\ bidi@column-\the\ bidi@column@check@number}}%
24770 {\string\ bidi@column@type}}}%
24771 \next
24772 }
24773
24774 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
24775 \ifnum #2=\ bidi@current@column@status\else
24776 \@tempwtrue
24777 \fi}%
24778 }
24779 \fi

```



```

24780
24781 \def\RTL@outputdblcol{%
24782   \if@firstcolumn
24783     \global\@firstcolumnfalse
24784     \global\setbox\@leftcolumn\copy\@outputbox
24785     \splitmaxdepth\maxdimen
24786     \vbadness\maxdimen
24787     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24788     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24789     \toks@\expandafter{\topmark}%
24790     \xdef\@firstcoltopmark{\the\toks@}%
24791     \toks@\expandafter{\splitfirstmark}%
24792     \xdef\@firstcolfirstmark{\the\toks@}%
24793     \ifx\@firstcolfirstmark\@empty
24794       \global\let\@setmarks\relax
24795     \else
24796       \gdef\@setmarks{%
24797         \let\firstmark\@firstcolfirstmark
24798         \let\topmark\@firstcoltopmark}%
24799     \fi
24800   \else
24801     \global\@firstcolumntrue
24802     \setbox\@outputbox\vbox{%
24803       \hb@xt@\textwidth{%
24804         \hskip \columnwidth
24805         \hfil
24806         {\normalcolor\vrule \@width\columnseprule}%
24807         \hfil
24808         \hb@xt@\columnwidth{%
24809           \bidi@firstcolumn@status@write%
24810           \box\@leftcolumn \hss}%
24811         \hskip -\textwidth
24812         \hb@xt@\columnwidth{%
24813           \bidi@lastcolumn@status@write%
24814           \box\@outputbox \hss}%
24815         \hskip \columnsep
24816         \hskip \columnwidth }}%
24817     \@combinedblfloats
24818     \@setmarks
24819     \@outputpage
24820     \begingroup
24821     \@dblfloatplacement
24822     \@startdblcolumn
24823     \@whilesw\if@fcolmade \fi{\@outputpage
24824       \@startdblcolumn}%
24825     \endgroup
24826   \fi}%
24827
24828 \def\LTR@outputdblcol{%
24829   \if@firstcolumn
24830     \global\@firstcolumnfalse
24831     \global\setbox\@leftcolumn\copy\@outputbox
24832     \splitmaxdepth\maxdimen
24833     \vbadness\maxdimen

```



```

24834 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24835 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24836 \toks@\expandafter{\topmark}%
24837 \xdef\@firstcoltopmark{\the\toks@}%
24838 \toks@\expandafter{\splitfirstmark}%
24839 \xdef\@firstcolfirstmark{\the\toks@}%
24840 \ifx\@firstcolfirstmark\@empty
24841 \global\let\@setmarks\relax
24842 \else
24843 \gdef\@setmarks{%
24844 \let\firstmark\@firstcolfirstmark
24845 \let\topmark\@firstcoltopmark}%
24846 \fi
24847 \else
24848 \global\@firstcolumntrue
24849 \setbox\@outputbox\vbox{%
24850 \hb@xt@\textwidth{%
24851 \hb@xt@\columnwidth{%
24852 \bidi@firstcolumn@status@write%
24853 \box\@leftcolumn \hss}%
24854 \hfil
24855 {\normalcolor\vrule \@width\columnseprule}%
24856 \hfil
24857 \hb@xt@\columnwidth{%
24858 \bidi@lastcolumn@status@write%
24859 \box\@outputbox \hss}}}%
24860 \@combinedblfloats
24861 \@setmarks
24862 \@outputpage
24863 \begingroup
24864 \@dblfloatplacement
24865 \@startdblcolumn
24866 \@whilesw\if@colmade \fi{\@outputpage
24867 \@startdblcolumn}%
24868 \endgroup
24869 \fi}%
24870
24871
24872 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
24873 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
24874 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
24875
24876 \bidi@appto\@outputbox@appendfootnotes{%
24877 \ifvoid\@bidi@copyins@
24878 \else
24879 \@outputbox@append{%
24880 \vskip \skip\@bidi@copyins@
24881 \color@begingroup
24882 \normalcolor
24883 \unvbox \@bidi@copyins@
24884 \color@endgroup
24885 }%
24886 \fi
24887 }

```



```

24888
24889 \def\LTRmarginpar{%
24890   \ifhmode
24891     \@bsphack
24892     \@floatpenalty -\@Mii
24893   \else
24894     \@floatpenalty-\@Miii
24895   \fi
24896   \ifinner
24897     \@parmoderr
24898     \@floatpenalty\z@
24899   \else
24900     \@next\@currbox\@freelist{}\{}%
24901     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24902     {\@floatpenalty\z@
24903       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
24904   \fi
24905   \ifnextchar [\@LTRxmpar\@LTRYmpar}
24906 \long\def\@LTRxmpar[#1]#2{%
24907   \@LTRsavemarbox\@marbox{#1}%
24908   \@LTRsavemarbox\@currbox{#2}%
24909   \@xympar}
24910 \long\def\@LTRYmpar#1{%
24911   \@LTRsavemarbox\@marbox{#1}%
24912   \global\setbox\@currbox\copy\@marbox
24913   \@xympar}
24914 \long\def \@LTRsavemarbox #1#2{%
24915   \global\setbox #1%
24916     \color@vbox
24917     \vtop{%
24918       \hsize\marginparwidth
24919       \@parboxrestore
24920       \@LTRmarginparreset
24921       #2%
24922       \@minipagefalse
24923       \outer@nobreak
24924     }%
24925   \color@endbox
24926 }
24927 \def \@LTRmarginparreset {%
24928   \reset@font
24929   \normalsize
24930   \@minipagetrue
24931   \everypar{\@minipagefalse\everypar{}\beginL}%
24932 }
24933 \def\RTLmarginpar{%
24934   \ifhmode
24935     \@bsphack
24936     \@floatpenalty -\@Mii
24937   \else
24938     \@floatpenalty-\@Miii
24939   \fi
24940   \ifinner
24941     \@parmoderr

```



```

24942 \floatpenalty\z@
24943 \else
24944 \@next\@currbox\@freelist{}\{}%
24945 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24946 {\floatpenalty\z@
24947 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24948 \fi
24949 \ifnextchar [\@RTLxmpar\@RTLympar}
24950 \long\def\@RTLxmpar[#1]#2{%
24951 \@RTLSavemarbox\@marbox{#1}%
24952 \@RTLSavemarbox\@currbox{#2}%
24953 \@xympar}
24954 \long\def\@RTLympar#1{%
24955 \@RTLSavemarbox\@marbox{#1}%
24956 \global\setbox\@currbox\copy\@marbox
24957 \@xympar}
24958 \long\def \@RTLSavemarbox #1#2{%
24959 \global\setbox #1%
24960 \color@vbox
24961 \vtop{%
24962 \hsize\marginparwidth
24963 \@parboxrestore
24964 \@RTLMarginparreset
24965 #2%
24966 \@minipagefalse
24967 \outer@nobreak
24968 }%
24969 \color@endbox
24970 }
24971 \def \@RTLMarginparreset {%
24972 \reset@font
24973 \normalsize
24974 \@minipagetrue
24975 \everypar{\@minipagefalse\everypar{}\beginR}%
24976 }
24977 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
24978 \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@one
24979 \if@twocolumn
24980 \if@firstcolumn \@tempcnta\m@ne \fi
24981 \else
24982 \if@mparswitch
24983 \ifodd\c@page \else\@tempcnta\m@ne \fi
24984 \fi
24985 \if@reversemargin \@tempcnta -\@tempcnta \fi
24986 \fi
24987 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
24988 \@tempdima\@mparbottom
24989 \advance\@tempdima -\@pageht
24990 \advance\@tempdima\ht\@marbox
24991 \ifdim\@tempdima >\z@
24992 \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
24993 \else
24994 \@tempdima\z@
24995 \fi

```



```

24996 \global\@mparbottom\@pageht
24997 \global\advance\@mparbottom\@tempdima
24998 \global\advance\@mparbottom\dp\@marbox
24999 \global\advance\@mparbottom\marginparpush
25000 \advance\@tempdima -\ht\@marbox
25001 \global\setbox \@marbox
25002 \vbox {\vskip \@tempdima
25003 \box \@marbox}%
25004 \global \ht\@marbox \z@
25005 \global \dp\@marbox \z@
25006 \kern -\@pagedp
25007 \nointerlineskip
25008 \hb@xt@\columnwidth
25009 {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL\fi
25010 \hskip\columnwidth \hskip\marginparsep
25011 \else
25012 \hskip -\marginparsep \hskip -\marginparwidth
25013 \fi
25014 \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR\fi
25015 \nointerlineskip
25016 \hbox{\vrule \height\z@ \width\z@ \depth\@pagedp}}
25017 \long\def\@ympar#1{%
25018 \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
25019 \global\setbox\@currbox\copy\@marbox
25020 \@xympar}
25021 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
25022 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
25023 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
25024 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
25025 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
25026 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
25027 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
25028 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
25029 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
25030 \fi}
25031
25032 \newcommand*{\bidi@font@outputpage}{\}
25033
25034 \def\@outputpage{%
25035 \begingroup % the \endgroup is put in by \aftergroup
25036 \let \protect \noexpand
25037 \@resetactivechars
25038 \global\let\@if@newlist\if@newlist
25039 \global\@newlistfalse
25040 \@parboxrestore
25041 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
25042 \bidi@beforeoutputpageshipouthook
25043 \shipout \vbox{%
25044 \set@typeset@protect
25045 \aftergroup \endgroup
25046 \aftergroup \set@typeset@protect
25047 % correct? or just restore by ending
25048 % the group?
25049 \if@specialpage

```



```

25050 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
25051 \fi
25052 \if@twoside
25053 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
25054 \if@RTLmain
25055 \let\@themargin\evensidemargin
25056 \else
25057 \let\@themargin\oddsidemargin
25058 \fi
25059 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
25060 \if@RTLmain
25061 \let\@themargin\oddsidemargin
25062 \else
25063 \let\@themargin\evensidemargin
25064 \fi
25065 \fi
25066 \ifx\@thehead\@empty \let\@thehead\hfil \fi
25067 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
25068 \else %% not @twoside
25069 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
25070 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
25071 \fi
25072 \reset@font
25073 \normalsize
25074 \bidi@font@@outputpage
25075 \normalsfcodes
25076 \let\label\@gobble
25077 \let\index\@gobble
25078 \let\glossary\@gobble
25079 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
25080 \@beginndvi
25081 \vskip \topmargin
25082 \moveright\@themargin \vbox {%
25083 \global\let\@bidi@BeforeHeader\@firstofone
25084 \bidi@beforeheaderhook
25085 \setbox\@tempboxa \vbox to\headheight{%
25086 \vfil
25087 \color@hbox
25088 \normalcolor
25089 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if
25090 \color@endbox
25091 }% %% 22 Feb 87
25092 \dp\@tempboxa \z@
25093 \box\@tempboxa
25094 \vskip \headsep
25095 \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
25096 \bidi@beforeoutputboxoutputpagehook
25097 \box\@outputbox
25098 \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
25099 \bidi@afteroutputboxoutputpagehook
25100 \global\let\@bidi@BeforeFooter\@firstofone
25101 \bidi@beforefooterhook
25102 \baselineskip \footskip
25103 \color@hbox

```



```

25104      \normalcolor
25105      \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@R
25106      \color@endbox
25107      \global\let\@bidi@AfterFooter\@firstofone
25108      \bidi@afterfooterhook
25109      }%
25110      }%
25111      \global\let\@bidi@AfterOutputPageShipOut\@firstofone
25112      \bidi@afteroutputpageshipouthook
25113      \global\let\if@newlist\@if@newlist
25114      \global \colht \textheight
25115      \stepcounter{page}%
25116      \let\firstmark\botmark
25117      \global\let\@bidi@AtEndOutputPage\@firstofone
25118      \bidi@atendoutputpagehook
25119  }
25120  \long\def\@makecaption#1#2{%
25121    \vskip\abovecaptionskip
25122    \sbox\@tempboxa{#1: #2}%
25123    \ifdim \wd\@tempboxa >\hsize
25124      \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
25125    \else
25126      \global \minipagefalse
25127      \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
25128      \fi
25129      \vskip\belowcaptionskip}
25130  \let\@bidi@saved@eqno=\eqno
25131  \let\@bidi@saved@leqno=\leqno
25132  \def\eqno{\ifnum\predisplaydirection<\z@ \@bidi@saved@eqno \else \@bidi@saved@eqno \fi}
25133  \def\leqno{\ifnum\predisplaydirection<\z@ \@bidi@saved@eqno \else \@bidi@saved@leqno \fi}
25134  \ApplyPatchIfPackageLoadedF{amsmath}{
25135  \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
25136  }
25137  \input{footnote-xetex-bidi.def}
25138  \if@twocolumn
25139    \let\autofooterule\relax
25140    \let\leftfootnoterule\relax
25141    \let\rightfootnoterule\relax
25142    \textwidthfootnoterule
25143  \fi
25144  \if@bidi@csundef{\@idxitem}{\fi}%
25145  \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}%
25146  }
25147
25148  \ApplyPatchToClassesIfPackageLoadedF{%
25149    book, %
25150    report %
25151  }{flowfram}
25152
25153  \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
25154
25155  \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
25156    fleqn, %
25157    leqno%

```





```

25158}[clo]
25159
25160\ApplyPatchToClasses{%
25161  amsart, %
25162  amsbook, %
25163  article, %
25164  artikel1, %
25165  artikel2, %
25166  artikel3, %
25167  beamer, %
25168  boek, %
25169  boek3, %
25170  bookest, %
25171  combine, %
25172  extbook, %
25173  extletter, %
25174  extarticle, %
25175  extreport, %
25176  imsproc, %
25177  letter, %
25178  memoir, %
25179  rapport1, %
25180  rapport3, %
25181  refrep, %
25182  scrartcl, %
25183  scrbook, %
25184  screprt %
25185}
25186
25187\ApplyPatchToPackages{%
25188  algorithm2e, %
25189  amsmath, %
25190  amstext, %
25191  amsthm, %
25192  array, %
25193  arydshln, %
25194  beamerbaseauxtemplates, %
25195  beamerbaseboxes, %
25196  beamerbasecolor, %
25197  beamerbasecompatibility, %
25198  beamerbaseframecomponents, %
25199  beamerbaseframesize, %
25200  beamerbaselocalstructure, %
25201  beamerbasemisc, %
25202  beamerbasenavigation, %
25203  beamerbaseoverlay, %
25204  beamerinnerthemecircles, %
25205  beamerinnerthemedefault, %
25206  beamerinnerthemefocus, %
25207  beamerinnerthemeinmargin, %
25208  beamerinnerthememetropolis, %
25209  beamerinnerthemerectangles, %
25210  beamerinnerthemerounded, %
25211  beamerouterthemedefault, %

```



```

25212 beamerouterthemefocus, %
25213 beamerouterthemeinfoclines, %
25214 beamerouterthememetropolis, %
25215 beamerouterthememiniframes, %
25216 beamerouterthemesidebar, %
25217 beamerouterthemesplit, %
25218 beamerouterthemeshadow, %
25219 beamerouterthesmoothbars, %
25220 beamerouterthesmoothtree, %
25221 beamerouterthemetree, %
25222 beamerthemeHannover, %
25223 beamerthemeSingapore, %
25224 breqn, %
25225 cal, %
25226 caption, %
25227 caption3, %
25228 color, %
25229 colortbl, %
25230 crop, %
25231 cuted, %
25232 cutwin, %
25233 dblfnote, %
25234 diagbox, %
25235 draftwatermark, %
25236 eso-pic, %
25237 empheq, %
25238 fancybox, %
25239 fancyhdr, %
25240 fix2col, %
25241 float, %
25242 floatrow, %
25243 flowfram, %
25244 fnpct, %
25245 footnotebackref, %
25246 framed, %
25247 ftnright, %
25248 geometry, %
25249 graphicx, %
25250 hvfloat, %
25251 hyperref, %
25252 lettrine, %
25253 lineno, %
25254 listings, %
25255 longtable, %
25256 lscape, %
25257 mathtools, %
25258 mdframed, %
25259 media9, %
25260 midfloat, %
25261 minitoc, %
25262 multicol, %
25263 adjmulticol, %
25264 multienum, %
25265 natbib, %

```



```

25266 newfloat, %
25267 nicematrix, %
25268 ntheorem, %
25269 ntheorem-hyper, %
25270 overpic, %
25271 pdfbase, %
25272 pdfscape, %
25273 pgfsys, %
25274 picinpar, %
25275 quotchap, %
25276 ragged2e, %
25277 rotating, %
25278 sidecap, %
25279 soul, %
25280 stabular, %
25281 subfigure, %
25282 tabs, %
25283 tabularx, %
25284 tabulary, %
25285 tcolorbox, %
25286 thmbox, %
25287 titlesec, %
25288 titletoc, %
25289 tocbasic, %
25290 tocbibind, %
25291 tocloft, %
25292 toctstyle, %
25293 todonotes, %
25294 wrapfig, %
25295 xcolor, %
25296 xltextra %
25297 }
25298
25299 \ApplyPatchToFiles{%
25300   pgfcorescopes.code, %
25301   pstricks %
25302 }[tex]
25303
25304 \ApplyPatchToFiles{%
25305   hgeneric-testphase, %
25306   tc-xetex %
25307 }
25308

```

## 165 File xltextra-xetex-bidi.def

```

25309 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
25310 \let\@XeTeX\XeTeX
25311 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
25312 \let\@XeLaTeX\XeLaTeX
25313 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

```



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