



# The *bidi Package*

Source documentation for *version 25.09.20*

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

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

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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 25.09.20](#)

Vafa Khalighi\*

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## 1 File amsart-xetex-bidi.def

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for
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\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else
13    \if@RTL\leftskip\else\rightskip\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   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29   \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35   \insert\footins{%
36     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
37     \reset@font%
38     \bidi@footnotetext@font% \normalfont\footnotesize
39     \interlinepenalty\interfootnotelinepenalty
40     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41     \floatingpenalty\@MM \hsize\columnwidth
42     \@parboxrestore \parindent\normalparindent \sloppy
43     \protected@edef\@currentlabel{%
44       \csname p@footnote\endcsname\@thefnmark}%
45     \@makefntext{%
46       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}%
47
48 \long\def\@RTLfootnotetext#1{%
49   \insert\footins{%
50     \@RTLtrue%
51     \reset@font%
52     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
```



```

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

```



```

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

```

## 2 File adjmulticol-xetex-bidi.def

```

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

```





```

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

```

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

```

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

```

### 4 File amsbook-xetex-bidi.def



```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class fo
207 \def\tocline#1#2#3#4#5#6#7{\relax
208   \ifnum #1>\c@tocdepth % then omit
209   \else
210     \par \addpenalty\@secpenalty\addvspace{#2}%
211     \begingroup \hyphenpenalty\@M
212     \@ifempty{#4}{%
213       \@tempdima\csname r@tocindent\number#1\endcsname\relax
214     }{%
215       \@tempdima#4\relax
216     }%
217     \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else
218     \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221     \nobreak
222   \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229   \columnseprule\z@ \columnsep 35\p@
230   \@indextitlestyle
231   \thispagestyle{plain}%
232   \let\item\@idxitem
233   \parindent\z@ \parskip\z@\@plus.3\p@\relax
234   \if@RTL\raggedleft\else\raggedright\fi
235   \hyphenpenalty\@M
236   \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241   \kern-.4\p@
242   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243   \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248   \insert\footins{%
249     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
250     \reset@font%
251     \bidi@footnotetext@font% \normalfont\footnotesize
252     \interlinepenalty\interfootnotelinepenalty
253     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254     \floatingpenalty\@MM \hsize\columnwidth
255     \@parboxrestore \parindent\normalparindent \sloppy
256     \protected@edef\@currentlabel{%
257       \csname p@footnote\endcsname\@thefnmark}%
258     \@makefntext{%
259       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}

```



```

260
261 \long\def\@RTLfootnotetext#1{%
262   \insert\footins{%
263     \@RTLtrue%
264     \reset@font%
265     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
266     \interlinepenalty\interfootnotelinepenalty
267     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
268     \floatingpenalty\@MM \hsize\columnwidth
269     \@parboxrestore \parindent\normalparindent \sloppy
270     \protected@edef\@currentlabel{%
271       \csname p@footnote\endcsname\@thefnmark}%
272     \@makefntext{%
273       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
274
275
276 \long\def\@LTRfootnotetext#1{%
277   \insert\footins{%
278     \@RTLfalse%
279     \reset@font%
280     \bidi@LTRfootnotetext@font% \normalfont\footnotesize
281     \interlinepenalty\interfootnotelinepenalty
282     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
283     \floatingpenalty\@MM \hsize\columnwidth
284     \@parboxrestore \parindent\normalparindent \sloppy
285     \protected@edef\@currentlabel{%
286       \csname p@footnote\endcsname\@thefnmark}%
287     \@makefntext{%
288       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
289
290
291
292 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
293 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
294 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
295
296 \renewenvironment{thebibliography}[1]{%
297   \@bibtitlestyle
298   \normalfont\bibliofont\labelsep .5em\relax
299   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\empty
300   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
301   \bidi@thebibliography@font@hook%
302   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
303     \leftmargin\labelwidth \advance\leftmargin\labelsep
304     \usecounter{enumiv}}%
305   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
306   \sfcode`\.=\@m
307 }{%
308   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
309   \endlist
310 }
311 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
312   \begingroup
313   \fontsize{\xivpt}{18}\bfseries\centering

```



```

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

```

## 5 File amsmath-xetex-bidi.def

```

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

```

## 6 File amstext-xetex-bidi.def

```

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

```

## 7 File amsthm-xetex-bidi.def



```

359 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
360 \def\@thmcountersep{\@SepMark}

```

## 8 File array-xetex-bidi.def

```

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

```



```

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

```

## 9 File article-xetex-bidi.def

```

457 \ProvidesFile{article-xetex-bidi.def}[2025/09/08 v1.1 bidi adaptations for standard article]
458 \IfClassLoadedT{svmult}{\endinput}
459 \if@titlepage
460   \renewcommand\maketitle{\begin{titlepage}%

```



```

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

```



```

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

```





```

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

```



```

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

```

## 10 File artikel1-xetex-bidi.def

```

649 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class]
650 \renewenvironment{theindex}{%
651   \if@twocolumn
652     \@restonecolfalse
653   \else
654     \@restonecoltrue
655   \fi
656   \columnseprule \z@
657   \columnsep 35\p@
658   \twocolumn[\section*{\indexname}]}%
659   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
660   \thispagestyle{plain}\parindent\z@
661   \parskip\z@ \@plus .3\p@\relax
662   \let\item\@idxitem
663 }{%
664   \if@restonecol\onecolumn\else\clearpage\fi}
665 \renewcommand*{\head@style}{%
666   \interlinepenalty \@M
667   \hyphenpenalty=\@M \exhyphenpenalty=\@M
668   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
669 \if@titlepage
670   \renewenvironment{abstract}{%
671     \titlepage
672     \null\vfil
673     \section*{\SectFont\abstractname}

```



```

674     \noindent\ignorespaces}
675     {\par\vfil\null\endtitlepage}
676 \else
677   \renewenvironment{abstract}{%
678     \if@twocolumn
679       \section*{\abstractname}%
680     \else
681       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
682       \section*{\small\SectFont\abstractname}%
683       \noindent\ignorespaces
684     \fi}
685     {\if@twocolumn\else\par\egroup\fi}
686 \fi
687 \renewcommand*{@regtocline[3]}{%
688   \ifnum #1>\c@tocdepth
689   \else
690     \vskip\z@\@plus.2\p@
691     {\hangindent\z@ \@afterindenttrue \interlinepenalty\M
692     \if@RTL\rightskip\else\leftskip\fi\unitindent
693     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
694     \parfillskip\z@
695     \@tempdima\unitindent
696     \parindent\z@
697     \leavevmode
698     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
699     \hskip 1em \nobreak{\slshape #3}\par
700   }%
701   \fi}
702 \if@oldtoc
703 \renewcommand*{\l@part[2]}{%
704   \ifnum \c@tocdepth >-2\relax
705     \addpenalty\@secpenalty
706     \addvspace{2.25em \@plus\p@}%
707     \begingroup
708       \setlength\@tempdima{3em}%
709       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
710       \parfillskip -\@pnumwidth
711       {\leavevmode
712         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
713         \nobreak
714         \if@compatibility
715           \global\@nobreaktrue
716           \everypar{\global\@nobreakfalse\everypar{}}%
717         \fi
718       \endgroup
719   \fi}
720 \else
721   \renewcommand*{\l@part}{%
722     \ifnum \c@tocdepth >-2\relax
723       \addpenalty\@secpenalty
724       \addvspace{2.25em \@plus \p@}%
725       \@regtocline{0}%
726     \fi}
727 \fi

```



```

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

```



```

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

```



```

836 \futurelet\@tempa\uc@ax}
837 \def\uc@ax{%
838 \ifx\@tempa\relax
839 \else
840 \\\ \andname \\\ \expandafter\uc@authornothanks
841 \fi}
842 \def\uc@tx{\ifx\@tempa\relax
843 \else \expandafter\uc@ty \fi}
844 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
845 \else
846 \renewcommand*\maketitle{\par
847 \begin{group}
848 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
849 \def\@makefnmark{\rlap{%
850 \textsuperscript{\normalfont\@thefnmark}}}%
851 \long\def\@makefntext{\@xmakefntext{%
852 \textsuperscript{\normalfont\@thefnmark}}}%
853 \if@twocolumn
854 \ifnum \col@number=\@one
855 \maketitle
856 \else
857 \twocolumn[\maketitle]%
858 \fi
859 \else
860 \newpage
861 \global\@topnum\z@
862 \maketitle
863 \fi
864 \thispagestyle{plain}\@thanks
865 \end{group}
866 \setcounter{footnote}{0}%
867 \global\let\thanks\relax
868 \global\let\maketitle\relax
869 \global\let\@maketitle\relax
870 \global\let\@thanks\@empty
871 \global\let\@author\@empty
872 \global\let\@title\@empty
873 \global\let\@date\@empty
874 \global\let\title\relax
875 \global\let\author\relax
876 \global\let\date\relax
877 \global\let\and\relax
878 }
879 \def\@maketitle{%
880 \newpage
881 \null
882 \vskip 2em%
883 \begin{center}%
884 \let \footnote \thanks
885 {\LARGE \TitleFont \@title \par}%
886 \vskip 1.5em%
887 {\large \TitleFont
888 \lineskip .5em%
889 \begin{tabular}[t]{c}%

```



```

890         \@author
891         \end{tabular}\par}%
892     \vskip 1em%
893     {\large \TitleFont \@date}%
894 \end{center}%
895 \par
896 \vskip 1.5em}
897 \fi

```

## 11 File artikel2-xetex-bidi.def

```

898 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class]
899 \renewenvironment{theindex}{%
900     \if@twocolumn
901         \@restonecolfalse
902     \else
903         \@restonecoltrue
904     \fi
905     \columnseprule \z@
906     \columnsep 35\p@
907     \twocolumn[\section*{\indexname}]{%
908         \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
909         \thispagestyle{plain}\parindent\z@
910         \parskip\z@ \@plus .3\p@\relax
911         \let\item\@idxitem
912     }{%
913         \if@restonecol\onecolumn\else\clearpage\fi}
914 \renewcommand*{@regtocline}[3]{%
915     \ifnum #1>\c@tocdepth
916     \else
917         \vskip\z@ \@plus .2\p@
918         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
919         \if@RTL\righskip\else\leftskip\fi\unitindent
920         \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
921         \parfillskip\z@
922         \@tempdima\unitindent
923         \advance\@tempdima by \othermargin
924         \parindent\z@
925         \leavevmode
926         \hbox{\hspace -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
927         \hspace 1em \nobreak{\slshape #3}\par
928         }%
929     \fi}
930 \if@oldtoc
931 \renewcommand*{\l@section}[2]{%
932     \addpenalty\@secpenalty
933     \addvspace{1.0em \@plus\p@}%
934     \setlength\@tempdima{1.5em}%
935     \begingroup
936     \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
937     \parfillskip -\@pnumwidth
938     \leavevmode \bfseries
939     \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
940     \hspace -\if@RTL\righskip\else\leftskip\fi

```



```

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

```





```

995     \fi}
996     {\if@twocolumn\else\par\endlist\fi}
997 \fi
998 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
999 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1000 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1001 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1002 \renewcommand*\left@footnoterule{%
1003     \kern-3\p@
1004     \hrule\@width 3\unitindent
1005     \kern 2.6\p@
1006 }
1007 \renewcommand*\right@footnoterule{%
1008     \kern-3\p@
1009     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1010     \kern 2.6\p@}
1011 \renewenvironment{thebibliography}[1]
1012     {\section*{\refname}%
1013         \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1014         \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1015         \bidi@thebibliography@font@hook%
1016         \list{\@biblabel{\@arabic\c@enumiv}}%
1017             {\settowidth\labelwidth{\@biblabel{#1}}%
1018             \leftmargin\labelwidth
1019             \advance\leftmargin\labelsep
1020             \@openbib@code
1021             \usecounter{enumiv}%
1022             \let\p@enumiv\@empty
1023             \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1024     \sloppy\clubpenalty4000\widowpenalty4000%
1025     \sfcode\.\@M}
1026 {\def\@noitemerr
1027     {\@latex@warning{Empty `thebibliography' environment}}%
1028     \endlist}
1029 \if@titlepage
1030 \renewcommand*\TitleFont{\rmfamily}
1031 \renewcommand*\maketitle{%
1032     \begin{titlepage}%
1033         \let\footnotesize\small
1034         \let\right@footnoterule\relax
1035         \let\left@footnoterule\relax
1036         \let\textwidth\footnoterule\relax
1037         \let \footnote \thanks
1038         \long\def\@makefnmark##1{\parindent\z@
1039             \def\labelitemi{\textendash}\@revlabeltrue
1040             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1041         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1042         \if@compatibility\setcounter{page}{0}\fi
1043         \null\vfil
1044         \vskip 60\p@
1045         \begin{center}%
1046             \TitleFont
1047             {\LARGE \def\{\{\penalty -\@M}
1048             \if@allcaps

```



```

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

```



```

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

```

## 12 File artikel3-xetex-bidi.def

```

1150 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class]
1151 \renewenvironment{theindex}{%
1152   \if@twocolumn
1153     \@restonecolfalse

```



```

1154 \else
1155 \@restonecoltrue
1156 \fi
1157 \columnseprule \z@
1158 \columnsep 35\p@
1159 \twocolumn[\section*{\indexname}]{%
1160 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
1161 \thispagestyle{plain}\parindent\z@
1162 \parskip\z@ \@plus .3\p@\relax
1163 \let\item\@idxitem
1164 }{%
1165 \if@restonecol\onecolumn\else\clearpage\fi}
1166 \renewcommand*{\head@style}{%
1167 \interlinepenalty \@M
1168 \hyphenpenalty=\@M \exhyphenpenalty=\@M
1169 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1170 \renewcommand*{\@regtocline[3]}{%
1171 \ifnum #1>\c@tocdepth
1172 \else
1173 \vskip\z@ \@plus .2\p@
1174 {\hangindent\z@ \afterindenttrue \interlinepenalty \@M
1175 \if@RTL\rightskip\else\leftskip\fi\unitindent
1176 \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
1177 \parfillskip\z@
1178 \@tempdima\unitindent
1179 \parindent\z@
1180 \leavevmode
1181 \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1182 \hskip 1em \nobreak{\slshape #3}\par
1183 }%
1184 \fi}
1185 \if@oldtoc
1186 \renewcommand*{\l@part[2]}{%
1187 \ifnum \c@tocdepth >-2\relax
1188 \addpenalty\@secpenalty
1189 \addvspace{2.25em \@plus\p@}%
1190 \begingroup
1191 \setlength{\@tempdima}{3em}%
1192 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1193 \parfillskip -\@pnumwidth
1194 {\leavevmode
1195 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1196 \nobreak
1197 \if@compatibility
1198 \global\@nobreaktrue
1199 \everypar{\global\@nobreakfalse\everypar{}}%
1200 \fi
1201 \endgroup
1202 \fi}
1203 \else
1204 \renewcommand*{\l@part}{%
1205 \ifnum \c@tocdepth >-2\relax
1206 \addpenalty\@secpenalty
1207 \addvspace{2.25em \@plus \p@}%

```



```

1208     \@regtocline{0}%
1209     \fi}
1210 \fi
1211
1212 \if@oldtoc
1213 \renewcommand*\l@section[2]{%
1214     \addpenalty\@secpenalty
1215     \addvspace{1.0em \@plus\p@}%
1216     \setlength\@tempdima{1.5em}%
1217     \begingroup
1218     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1219     \parfillskip -\@pnumwidth
1220     \leavevmode \bfseries
1221     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1222     \hskip -\if@RTL\rightskip\else\leftskip\fi
1223     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1224     \endgroup}
1225 \else
1226     \renewcommand*\l@section{\@regtocline{1}}
1227 \fi
1228 \if@titlepage
1229     \renewenvironment{abstract}{%
1230         \titlepage
1231         \null\vfil
1232         \section*\SectFont\abstractname}%
1233         \noindent\ignorespaces
1234         {\par\vfil\null\endtitlepage}
1235 \else
1236     \renewenvironment{abstract}{%
1237         \if@twocolumn
1238             \section*\abstractname}%
1239         \else
1240             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1241             \section*\small\SectFont\abstractname}%
1242             \noindent\ignorespaces
1243             \fi}
1244         {\if@twocolumn\else\par\egroup\fi}
1245 \fi
1246 \renewcommand*\left@footnoterule{%
1247     \kern-3\p@
1248     \kern.5\baselineskip
1249     \hrule\@width\unitindent
1250     \kern.4\baselineskip
1251 }
1252 \renewcommand*\right@footnoterule{%
1253     \kern-3\p@
1254     \kern.5\baselineskip
1255     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1256     \kern.4\baselineskip}
1257 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1258 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1259 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1260 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1261 \renewenvironment{thebibliography}[1]

```



```

1262 {\section*{\refname}%
1263   \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1264   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1265   \bidi@thebibliography@font@hook%
1266   \list{\@biblabel{\@arabic\c@enumiv}}%
1267     {\settowidth\labelwidth{\@biblabel{#1}}%
1268     \leftmargin\labelwidth
1269     \advance\leftmargin\labelsep
1270     \@openbib@code
1271     \usecounter{enumiv}%
1272     \let\p@enumiv\@empty
1273     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1274   \sloppy\clubpenalty4000\widowpenalty4000%
1275   \sfcode\.\@m}
1276 {\def\@noitemerr
1277   {\@latex@warning{Empty `thebibliography' environment}}%
1278   \endlist}
1279 \if@titlepage
1280 \renewcommand*\TitleFont{\rmfamily}
1281 \renewcommand*\maketitle{%
1282   \begin{titlepage}%
1283     \let\footnotesize\small
1284     \let\right@footnoterule\relax
1285     \let\left@footnoterule\relax
1286     \let\textwidth@footnoterule\relax
1287     \let\footnote\thanks
1288     \long\def\@makefnmark##1{\parindent\z@
1289       \def\labelitemi{\textendash}\@revlabeltrue
1290       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1291     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1292     \if@compatibility\setcounter{page}{0}\fi
1293     \null\vfil
1294     \vskip 60\p@
1295     \begin{center}%
1296       \TitleFont
1297       {\LARGE \def\{\penalty -\@M}
1298       \if@allcaps
1299         \expandafter\uc@nothanks\@title\thanks\relax
1300       \else
1301         \@title
1302       \fi\par}%
1303     \vskip 3em%
1304     {\large
1305     \lineskip .75em \parindent\z@
1306     \begin{tabular}[t]{c}%
1307       \if@allcaps
1308         \expandafter\uc@authornothanks\@author\and\relax
1309       \else
1310         \@author
1311       \fi
1312     \end{tabular}\par}%
1313     \vskip 1.5em%
1314     {\large
1315     \if@allcaps

```



```

1316         \uppercase\expandafter{\@date}%
1317     \else
1318         \@date
1319     \fi\par}%
1320 \end{center}\par
1321 \@thanks
1322 \vfil\null
1323 \end{titlepage}%
1324 \setcounter{footnote}{0}%
1325 \global\let\thanks\relax
1326 \global\let\maketitle\relax
1327 \global\let\@thanks\@empty
1328 \global\let\@author\@empty
1329 \global\let\@title\@empty
1330 \global\let\@date\@empty
1331 \global\let\title\relax
1332 \global\let\author\relax
1333 \global\let\date\relax
1334 \global\let\and\relax
1335 }
1336 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1337 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1338     \futurelet\@tempa\uc@ax}
1339 \def\uc@ax{%
1340     \ifx\@tempa\relax
1341     \else
1342         \\\andname \\\expandafter\uc@authornothanks
1343     \fi}
1344 \def\uc@tx{\ifx\@tempa\relax
1345     \else \expandafter\uc@ty \fi}
1346 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1347 \else
1348 \renewcommand*\maketitle{\par
1349     \begingroup
1350     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1351     \def\@makefnmark{\rlap{%
1352         \@textsuperscript{\normalfont\@thefnmark}}}%
1353     \long\def\@makefntext{\@xmakefntext{%
1354         \@textsuperscript{\normalfont\@thefnmark}}}%
1355     \if@twocolumn
1356         \ifnum \col@number=\@one
1357             \@maketitle
1358         \else
1359             \twocolumn[\@maketitle]%
1360         \fi
1361     \else
1362         \newpage
1363         \global\@topnum\z@
1364         \@maketitle
1365     \fi
1366     \thispagestyle{plain}\@thanks
1367 \endgroup
1368 \setcounter{footnote}{0}%
1369 \global\let\thanks\relax

```



```

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

```

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

```

1410 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln packag
1411 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \ifRTLtab\egroup\endR\egroup\fi\egro
1412 \def\endtabular{\endarray $\ifRTLtab\endR\fi\egroup}
1413 \expandafter\let\csname endtabular*\endcsname\endtabular
1414 \let\adl@array\@array
1415 \def\@array{\adl@everyvbox\everyvbox
1416 \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1417 \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1418 \let\adl@noalign\noalign
1419 \adl@array}
1420 \ifadl@usingarypkg

```





```

1421 \def\@testpach{\@chclass
1422 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1423 \ifnum \@lastchclass=7 5 \else
1424 \ifnum \@lastchclass=8 \tw@ \else
1425 \ifnum \@lastchclass=9 \thr@@
1426 \else \z@
1427 \ifnum \@lastchclass = 10 \else
1428 \edef\@nextchar{\expandafter\string\@nextchar}%
1429 \@chnum
1430 \if \@nextchar c\z@ \else
1431 \if \@nextchar \ifRTLTa b r\else l\fi\@ne \else
1432 \if \@nextchar \ifRTLTa b l\else r\fi\tw@ \else
1433 \z@ \@chclass
1434 \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1435 \if\@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1436 \if\@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1437 \if \@nextchar !6 \else
1438 \if \@nextchar @7 \else
1439 \if \@nextchar <8 \else
1440 \if \@nextchar >9 \else
1441 10
1442 \@chnum
1443 \if \@nextchar m\thr@@\else
1444 \if \@nextchar p4 \else
1445 \if \@nextchar b5 \else
1446 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1447 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
1448
1449 \def\@classz{\@classx
1450 \@tempcnta \count@
1451 \prepnext@tok
1452 \@addtopreamble{\ifcase \@chnum
1453 \hfil
1454 \adl@putlrc{\dollarbegin \insert@column \dollarend}\hfil \or
1455 \hskip1sp\adl@putlrc{\dollarbegin \insert@column \dollarend}\hfil \or
1456 \hfil\hskip1sp\adl@putlrc{\dollarbegin \insert@column \dollarend}\or
1457 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1458 \adl@endmbox\or
1459 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1460 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1461 \fi}\prepnext@tok}
1462 \def\adl@class@start{4}
1463 \def\adl@class@iiiorvii{7}
1464
1465 \else
1466 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1467 \ifnum \@lastchclass=\thr@@ 5\relax \else
1468 \z@ \if #1c\@chnum \z@ \else
1469 \if \ifRTLTa b#1r\else#1l\fi\@chnum \@ne \else
1470 \if \ifRTLTa b#1l\else#1r\fi\@chnum \tw@ \else
1471 \@chclass
1472 \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
1473 \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
1474 \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else

```



```

1475         \if #1@ \tw@ \else
1476         \if #1p \thr@@ \else \z@ \@preamerr 0 \fi
1477     \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1478
1479 \def \@arrayclassz {\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1480     \or \or \@addamp \or
1481     \@acolampacol \or \@firstampfalse \@acol \fi
1482 \edef \@preamble {\@preamble
1483     \ifcase \@chnum
1484     \hfil \adl@putlrc {\$ \relax \@sharp$} \hfil
1485     \or \adl@putlrc {\$ \relax \@sharp$} \hfil
1486     \or \hfil \adl@putlrc {\$ \relax \@sharp$} \fi}}
1487 \def \@tabclassz {\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1488     \or \or \@addamp \or
1489     \@acolampacol \or \@firstampfalse \@acol \fi
1490 \edef \@preamble {\@preamble
1491     \ifcase \@chnum
1492     \hfil \adl@putlrc {\@sharp \unskip} \hfil
1493     \or \adl@putlrc {\@sharp \unskip} \hfil
1494     \or \hfil \hskip \z@ \adl@putlrc {\@sharp \unskip} \fi}}
1495 \def \adl@class@start {6}
1496 \def \adl@class@iiiorvii {3}
1497 \fi
1498 \ApplyPatchCodeToPackage {colortbl} {%
1499 \def \adl@inactivate {\adl@org@inactivate \let \CT@setup \adl@CT@setup}
1500 \def \adl@activate {\adl@org@activate \let \CT@setup \adl@act@CT@setup
1501     \let \endpbox \adl@org@endpbox}
1502 \let \adl@CT@setup \CT@setup
1503 \def \CT@setup {\adl@CT@setup
1504     \@tempdima \ht \z@ \advance \@tempdima \minrowclearance
1505     \ifdim \adl@height < \@tempdima \global \adl@height \@tempdima \fi
1506     \ifdim \adl@depth < \dp \z@ \global \adl@depth \dp \z@ \fi}
1507 \let \adl@act@CT@setup \CT@setup
1508 \def \@classz {\@classx
1509     \@tempcnta \count@ \prepnext@tok
1510     \expandafter \CT@extract \the \toks \@tempcnta \columncolor ! \@nil
1511     \expandafter \adl@extract \arc \the \toks \@tempcnta \arrayrulecolor ! \@nil
1512     \expandafter \adl@extract \drsc
1513     \the \toks \@tempcnta \doublerulesepcolor ! \@nil
1514     \expandafter \adl@extract @dgc \the \toks \@tempcnta \dashgapcolor ! \@nil
1515     \@addtopreamble {\if RTL \begin L \fi%
1516         \setbox \z@ \hbox \bgroup \bgroup \if RTL \begin R \fi
1517         \ifcase \@chnum
1518         \hskip \stretch { .5 } \kern \z@
1519         \dollarbegin
1520         \insert @column
1521         \dollarend \hskip \stretch { .5 }%
1522         \or \dollarbegin \insert @column \dollarend \hfill
1523         \or \hfill \kern \z@ \dollarbegin \insert @column \dollarend
1524         \or $\vcenter
1525             \@startpbox {\@nextchar} \insert @column \endpbox $%
1526         \or \vtop \@startpbox {\@nextchar} \insert @column \endpbox
1527         \or \vbox \@startpbox {\@nextchar} \insert @column \endpbox
1528         \fi

```



```

1529             \if@RTL\endR\fi\egroup\egroup
1530         \begingroup
1531             \CT@setup
1532             \CT@column@color
1533             \CT@row@color
1534             \CT@cell@color
1535             \CT@do@color
1536         \endgroup
1537         \@tempdima\ht\z@
1538         \advance\@tempdima\minrowclearance
1539         \vrule\@height\@tempdima\@width\z@
1540         \unhbox\z@\if@RTL\endL\fi}%
1541     \prepnext@tok}
1542 \let\adl@act@classz\@classz
1543 \let\adl@org@classz\@classz
1544 }

```

## 14 File beamer-xetex-bidi.def

```

1545 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for
1546 \AtBeginDocument{%
1547     \if@RTLmain
1548         \raggedleft
1549     \else
1550         \raggedright
1551     \fi
1552 }
1553
1554 \renewcommand*{\bidi@beamer@ragged}{%
1555     \if@RTL
1556         \raggedleft
1557     \else
1558         \raggedright
1559     \fi
1560 }
1561
1562

```

## 15 File beamerbaseauxtemplates-xetex-bidi.def

```

1563 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for b
1564 \bidi@csundef{beamer@@tmpop@subsection in toc@sections numbered}
1565
1566 \bidi@csundef{beamer@@tmpop@subsubsection in toc@sections numbered}
1567
1568 \bidi@csundef{beamer@@tmpop@section in toc@subsections numbered}
1569
1570 \bidi@csundef{beamer@@tmpop@subsection in toc@subsections numbered}
1571
1572 \bidi@csundef{beamer@@tmpop@subsubsection in toc@subsections numbered}
1573
1574 \defbeamertemplate{subsection in toc}{sections numbered}
1575 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1576

```



```

1577 \defbeamertemplate{subsubsection in toc}{sections numbered}
1578 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3.5em\usebeam
1579 \inserttocsubsubsection\par}
1580
1581 \defbeamertemplate{section in toc}{subsections numbered}
1582 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsection\par}
1583
1584 \defbeamertemplate{subsection in toc}{subsections numbered}
1585 {\leavevmode\bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubs
1586
1587 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1588 {\leavevmode\normalsize\usebeamerfont{subsection in
1589 toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1590 \inserttocsubsubsection\par}
1591
1592 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1593
1594 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1595
1596 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1597
1598 \defbeamertemplate{section in toc}{circle}
1599 {\leavevmode\bidi@beamer@leftskip=2ex%
1600 \llap{%
1601 \usebeamerfont*{section number projected}%
1602 \usebeamercolor{section number projected}%
1603 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1604 \color{bg}
1605 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1606 \pgfusepath{fill}
1607 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1608 \end{pgfpicture}\kern1.25ex%
1609 }%
1610 \inserttocsection\par}
1611
1612 \defbeamertemplate{subsection in toc}{circle}
1613 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1614
1615 \defbeamertemplate{subsubsection in toc}{circle}
1616 {\leavevmode\normalsize\usebeamerfont{subsection in
1617 toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1618 \inserttocsubsubsection\par}
1619
1620 \bidi@csundef{beamer@@tmpop@section in toc@square}
1621
1622 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1623
1624 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1625
1626 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1627
1628 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1629
1630 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}

```



```

1631
1632 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1633
1634 \defbeamertemplate{section in toc}{square}
1635 {\leavevmode\bidi@beamer@leftskip=3ex%
1636   \llap{%
1637     \usebeamerfont*{section number projected}%
1638     \usebeamercolor[bg]{section number projected}%
1639     \if@RTL
1640     \else
1641       \vrule width2.25ex height1.85ex depth.4ex%
1642       \hskip-2.25ex%
1643     \fi
1644     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}}%
1645     \if@RTL
1646       \hskip-2.25ex%
1647       \vrule width2.25ex height1.85ex depth.4ex%
1648     \fi
1649   }\kern1.25ex}%
1650 \inserttocsection\par}
1651
1652 \defbeamertemplate{subsection in toc}{square}
1653 {\leavevmode\bidi@beamer@leftskip=5ex\llap{%
1654   \usebeamercolor[bg]{subsection number projected}%
1655   \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1656
1657 \defbeamertemplate{subsubsection in toc}{square}
1658 {\leavevmode\normalsize\usebeamerfont{subsection in
1659   toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1660   \llap{%
1661     \usebeamercolor[bg]{subsubsection number projected}%
1662     \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1663
1664 \defbeamertemplate{enumerate item}{square}
1665 {
1666   \hbox{%
1667     \usebeamerfont*{item projected}%
1668     \usebeamercolor[bg]{item projected}%
1669     \if@RTL
1670     \else
1671       \vrule width2.25ex height1.85ex depth.4ex%
1672       \hskip-2.25ex%
1673     \fi
1674     \hbox to2.25ex{%
1675       \hfil%
1676       \color{fg}\insertenumlabel%
1677       \hfil}}%
1678     \if@RTL
1679       \hskip-2.25ex%
1680       \vrule width2.25ex height1.85ex depth.4ex%
1681     \fi
1682   }%
1683 }
1684 [action]

```



```

1685 {\setbeamerfont{item projected}{size=\scriptsize}}
1686
1687 \defbeamertemplate{enumerate subitem}{square}
1688 {
1689   \hbox{%
1690     \usebeamerfont*{subitem projected}%
1691     \usebeamercolor[bg]{subitem projected}%
1692     \if@RTL
1693     \else
1694       \vrule width2.25ex height1.85ex depth.4ex%
1695       \hskip-2.25ex%
1696     \fi
1697     \hbox to2.25ex{%
1698       \hfil%
1699       \color{fg}\insertsubenumlabel%
1700       \hfil}%
1701     \if@RTL
1702       \hskip-2.25ex%
1703       \vrule width2.25ex height1.85ex depth.4ex%
1704     \fi
1705   }%
1706 }
1707
1708 \defbeamertemplate{enumerate subsubitem}{square}
1709 {
1710   \hbox{%
1711     \usebeamerfont*{subitem projected}%
1712     \usebeamercolor[bg]{subsubitem projected}%
1713     \if@RTL
1714     \else
1715       \vrule width2.25ex height1.85ex depth.4ex%
1716       \hskip-2.25ex%
1717     \fi
1718     \hbox to2.25ex{%
1719       \hfil%
1720       \color{fg}\insertsubsubenumlabel%
1721       \hfil}%
1722     \if@RTL
1723       \hskip-2.25ex%
1724       \vrule width2.25ex height1.85ex depth.4ex%
1725     \fi
1726   }%
1727 }
1728
1729 \defbeamertemplate{enumerate mini template}{square}
1730 {
1731   \hbox{%
1732     \usebeamerfont*{\beameritemnestingprefix item projected}%
1733     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1734     \if@RTL
1735     \else
1736       \vrule width2.25ex height1.85ex depth.4ex%
1737       \hskip-2.25ex%
1738     \fi

```



```

1739 \hbox to2.25ex{%
1740 \hfil%
1741 \color{fg}\insertenumlabel%
1742 \hfil}}%
1743 \if@RTL
1744 \hskip-2.25ex%
1745 \vrule width2.25ex height1.85ex depth.4ex%
1746 \fi
1747 }}%
1748 }
1749
1750 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1751
1752 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1753
1754 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1755
1756 \defbeamertemplate{section in toc}{ball unnumbered}
1757 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1758 \llap{%
1759 \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1760 \inserttocsection\par}
1761
1762 \defbeamertemplate{subsection in toc}{ball unnumbered}
1763 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1764 \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\insertt
1765
1766 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1767 {\leavevmode\normalsize\usebeamerfont{subsection in
1768 toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1769 \llap{%
1770 \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsub
1771
1772 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1773
1774 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1775
1776 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1777
1778 \defbeamertemplate{section in toc}{ball}
1779 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1780 \llap{%
1781 \normalsize%
1782 \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1783 \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1784 \pgftext{%
1785 \usebeamerfont*{section number projected}%
1786 \usebeamerfont*{section number projected}%
1787 \color{fg!90!bg}%
1788 \inserttocsectionnumber}
1789 \end{pgfpicture}%
1790 \kern1.25ex}%
1791 \inserttocsection\par
1792 }

```



```

1793 [action]
1794 {\setbeamerfont{section number projected}{size=\scriptsize}}
1795
1796 \defbeamertemplate{subsection in toc}{ball}
1797 {\leavevmode\bidibeamer@leftskip=5ex%
1798   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1799   \inserttocsubsection\par%
1800 }
1801
1802 \defbeamertemplate{subsubsection in toc}{ball}
1803 {\leavevmode\normalsize\usebeamerfont{subsection in
1804   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1805   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1806   \inserttocsubsubsection\par%
1807 }
1808
1809 \bidi@csundef{beamer@@tmpop@block begin@rounded}
1810
1811 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1812
1813 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1814
1815 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1816 {%
1817   \par\vskip\medskipamount%
1818   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1819     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1820     \bidi@beamer@ragged%
1821     \usebeamerfont{block body}%
1822   }%
1823
1824 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1825 {%
1826   \par\vskip\medskipamount%
1827   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1828     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1829     \bidi@beamer@ragged%
1830     \usebeamerfont{block body alerted}%
1831   }%
1832
1833 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1834 {%
1835   \par\vskip\medskipamount%
1836   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1837     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1838     \bidi@beamer@ragged%
1839     \usebeamerfont{block body example}%
1840   }%
1841
1842 \bidi@csundef{beamer@@tmpop@caption@numbered}
1843
1844 \defbeamertemplate{caption}{numbered}
1845 {%
1846   \leavevmode

```





```

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

```

## 16 File beamerbaseboxes-xetex-bidi.def

```

1883 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerba
1884 \renewcommand\beamerboxesrounded[2] [] {%
1885   \global\let\beamer@firstlineitemizeunskip=\relax%
1886   \vbox\bgroup%
1887   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1888   \setkeys{beamerboxes}{#1}%
1889   {%
1890     \usebeamercolor{\bmb@lower}%
1891     \globalcolorstrue%
1892     \colorlet{lower.bg}{bg}%
1893   }%
1894   {%
1895     \usebeamercolor{\bmb@upper}%
1896     \globalcolorstrue%
1897     \colorlet{upper.bg}{bg}%

```



```

1898 }%
1899 %
1900 % Typeset head
1901 %
1902 \vskip4bp
1903 \setbox\bmb@box=\hbox{%
1904   \begin{minipage}[b]{\bmb@width}%
1905     \usebeamercolor[fg]{\bmb@upper}%
1906     #2%
1907   \end{minipage}}%
1908 \ifdim\wd\bmb@box=0pt%
1909   \setbox\bmb@box=\hbox{%
1910     \ht\bmb@box=1.5pt%
1911     \bmb@prevheight=-4.5pt%
1912   \else%
1913     \wd\bmb@box=\bmb@width%
1914     \bmb@temp=\dp\bmb@box%
1915     \ifdim\bmb@temp<1.5pt%
1916       \bmb@temp=1.5pt%
1917     \fi%
1918     \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1919     \dp\bmb@box=0pt%
1920     \bmb@prevheight=\ht\bmb@box%
1921   \fi%
1922   \bmb@temp=\bmb@width%
1923   \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1924   \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1925   \hbox{%
1926     \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1927       \ifdim\wd\bmb@box=0pt%
1928         \color{lower.bg}%
1929       \else%
1930         \color{upper.bg}%
1931       \fi%
1932       \pgfpathmoveto{-4bp}{-1bp}
1933       \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1934       \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1935       \pgfpathcurveto%
1936         {\pgfpoint{\bmb@dima}{3bp}}%
1937         {\pgfpoint{\bmb@dimb}{1.2bp}}%
1938         {\pgfpoint{\bmb@dimb}{-1bp}}%
1939       \bmb@dima=-\ht\bmb@box%
1940       \advance\bmb@dima by-2pt%
1941       \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1942       \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1943       \pgfusepath{fill}
1944     \end{pgfpicture}%
1945     \copy\bmb@box%
1946   }%
1947   \nointerlineskip%
1948   \vskip-1pt%
1949   \ifdim\wd\bmb@box=0pt%
1950     \else%
1951     \hbox{%

```



```

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

```

## 17 File beamerbasecolor-xetex-bidi.def

```

1979 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerba
1980 \renewenvironment{beamercolorbox}[2][{}]{%
1981 \def\beamer@vmode{\leavevmode}%
1982 \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1983 leftskip=0pt,rightskip=0pt plus1fil,%
1984 sep=0pt,colsep=0pt,colsep*=0pt,%
1985 shadow=false,rounded=false,ignorebg=false}%
1986 \if@RTL
1987 \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1988 \else
1989 \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1990 \fi
1991 \setkeys{beamercolbox}{#1}%
1992 \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1993 \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1994 \def\beamer@colbox@color{#2}%
1995 \setbox\beamer@tempbox=\hbox\bgroup\color@bebegin{group}
1996 \ifbeamer@colbox@ignorebg%
1997 \colorlet{beamer@temp@color}{bg}%
1998 \usebeamercolor[fg]{#2}%
1999 \colorlet{bg}{beamer@temp@color}%
2000 \else%
2001 \usebeamercolor[fg]{#2}%
2002 \fi%

```



```

2003 \beginL
2004 \vbox\bgroup%
2005 \hsize=\beamer@colbox@wd%
2006 \@arrayparboxrestore%
2007 \leftskip=\beamer@colbox@ls%
2008 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2009 \rightskip=\beamer@colbox@rs%
2010 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2011 \if@tempswa\ifdim\beamer@colbox@colsep>\z%
2012 \advance\leftskip by\beamer@colbox@colsep%
2013 \advance\rightskip by\beamer@colbox@colsep%
2014 \vskip\beamer@colbox@colsep%
2015 \fi%
2016 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2017 \fi%
2018 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2019 \beamer@vmode\ignorespaces}{%
2020 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2021 \if@tempswa
2022 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2023 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2024 \fi%
2025 \egroup\endL\color@endgroup\egroup%
2026 \wd\beamer@tempbox=\beamer@colbox@wd%
2027 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2028 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2029 \ifbeamer@colbox@rounded%
2030 \if@tempswa%
2031 \begin{beamerboxesrounded}[%
2032 shadow=\beamer@colbox@shadow,%
2033 lower=\beamer@colbox@color,%
2034 upper=normal text,%
2035 width=\beamer@colbox@wd]{%
2036 \box\beamer@tempbox%
2037 \end{beamerboxesrounded}%
2038 \else%
2039 \ifdim\wd\beamer@tempbox>\textwidth%
2040 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2041 \fi%
2042 \box\beamer@tempbox%
2043 \fi%
2044 \else%
2045 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2046 \usebeamercolor{\beamer@colbox@color}%
2047 \hskip-\beamer@colbox@colseps%
2048 \fboxsep=\z@\colorbox{bg}{%
2049 \hskip\beamer@colbox@colseps%
2050 \box\beamer@tempbox%
2051 \hskip\beamer@colbox@colseps%
2052 }%
2053 \hskip-\beamer@colbox@colseps%
2054 }\fi%
2055 \ifdim\wd\beamer@tempbox>\textwidth%
2056 \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box

```



```

2057     \fi%
2058     \box\beamer@tempbox%
2059     \fi%
2060 }
2061
2062

```

## 18 File beamerbasecompatibility-xetex-bidi.def

```

2063 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for
2064 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\
2065
2066

```

## 19 File beamerbaseframecomponents-xetex-bidi.def

```

2067 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations fo
2068 \renewcommand{\setbeamersize}[1]{%
2069     \beamer@dogeometryfalse%
2070     \setkeys{beamer@margin}{#1}%
2071     \ifbeamer@dogeometry%
2072         % Reset left margin now
2073         \beamer@tempdim=\beamer@leftmargin%
2074         \advance\beamer@tempdim by\beamer@leftsidebar%
2075         \if@RTLmain
2076             \geometry{right=\the\beamer@tempdim}%
2077         \else
2078             \geometry{left=\the\beamer@tempdim}%
2079         \fi
2080         % Reset right margin now
2081         \beamer@tempdim=\beamer@rightmargin%
2082         \advance\beamer@tempdim by\beamer@rightsidebar%
2083         \if@RTLmain
2084             \geometry{left=\the\beamer@tempdim}%
2085         \else
2086             \geometry{right=\the\beamer@tempdim}%
2087         \fi
2088     \fi%
2089 }
2090
2091 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2092     \if@RTLmain
2093         \Gm@rmargin
2094     \else
2095         \Gm@lmargin
2096     \fi
2097 }
2098
2099 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2100     \if@RTLmain
2101         \Gm@lmargin
2102     \else
2103         \Gm@rmargin
2104     \fi

```



```

2105 }
2106
2107 \def\ps@navigation{
2108   \def\@oddhead{%
2109     \begingroup%
2110     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransit
2111     \beamer@tempdim=\ht\beamer@tempbox%
2112     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2113     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2114     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2115     \beamer@tempdim=\ht\@tempboxa%
2116     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2117     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2118     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2119       \hbox{%
2120         {%
2121           \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2122           \if@RTLmain
2123             {%
2124               \vbox to \sidebarheight{%
2125                 \usebeamertemplate***{sidebar left}%
2126                 \vfil%
2127               }}%
2128               \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2129                 \hskip-\textwidth
2130               }%
2131             \fi
2132             {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2133               \usebeamercolor*{sidebar left}%
2134               \usebeamertemplate{sidebar canvas left}%
2135               \vss%
2136             }}%
2137               \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2138               \box\beamer@tempbox}%
2139             \if@RTLmain
2140             \else
2141             {%
2142               \vbox to \sidebarheight{%
2143                 \usebeamertemplate***{sidebar left}%
2144                 \vfil%
2145               }}\fi}%
2146             \beamer@tempdim=\ht\beamer@tempbox%
2147             \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2148             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2149             \box\beamer@tempbox%
2150           }%
2151           {% print right sidebar first, since it should be overwritten by headline
2152             \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2153             \if@RTLmain
2154               {%
2155                 \vbox to \sidebarheight{%
2156                   \usebeamertemplate***{sidebar right}%
2157                   \vfil%
2158                 }}%

```



```

2159         \hskip-\textwidth
2160     \fi
2161     {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2162         \usebeamercolor*{sidebar right}%
2163         \usebeamertemplate{sidebar canvas right}%
2164         \vss%
2165         }}%
2166     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2167     \box\beamer@tempbox}%
2168     \if@RTLmain
2169     \else
2170     {%
2171     \vbox to \sidebarheight{%
2172     \usebeamertemplate***{sidebar right}%
2173     \vfil%
2174     }}\fi}%
2175     \beamer@tempdim=\ht\beamer@tempbox%
2176     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2177     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2178     \box\beamer@tempbox%
2179     }%
2180     \beamer@typesetheadorfoot{headline}%
2181     }%
2182     \hfil}%
2183     \endgroup}
2184     \def\@oddfoot{%
2185     \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2186     \hfil}\hbox{}}\hfil
2187     }%
2188     \let\@evenhead\@oddhead
2189     \let\@evenfoot\@oddfoot}
2190
2191     \AtBeginDocument{%
2192     \pagestyle{navigation}%
2193     }
2194
2195     \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2196     {\parskip0pt\offinterlineskip%
2197     \hbox{%
2198     \hskip-\bidi@beamer@Gm@lmargin%
2199     \hbox{%
2200     \vbox{%
2201     \@tempdima=\textwidth%
2202     \textwidth=\paperwidth%
2203     \hsize=\textwidth%
2204     \def\{,\}%
2205     \usebeamertemplate***{#1}%
2206     }}%
2207     \hskip-\bidi@beamer@Gm@rmargin%
2208     }}\hfil%
2209     }
2210
2211     \def\ps@empty{%
2212     \let\@mkboth\@gobbletwo%

```



```

2213 \def\@oddhead{\begingroup%
2214 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransit
2215 \beamer@tempdim=\ht\beamer@tempbox%
2216 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2217 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2218 \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2219 \beamer@tempdim=\ht\@tempboxa%
2220 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2221 \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2222 \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box
2223 \endgroup%
2224 }
2225 \def\@oddfoot{{\normalcolor{\hfil%
2226 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beam
2227 \ht\beamer@tempbox=0pt%
2228 \dp\beamer@tempbox=0pt%
2229 \box\beamer@tempbox}}}%
2230 \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2231
2232 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2233 \beamer@colclose\def\beamer@colclose{}%
2234 \begin{actionenv}#3%
2235 \setkeys{beamer@col}{#1}%
2236 \begin{minipage}[\beamer@colalign]{#2}%
2237 \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2238 {\end{minipage}\hfill\end{actionenv}\@ignoretrue}
2239 \let\endcolumn\endbeamer@columnenv
2240
2241 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2242 \beamer@colclose%
2243 \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2244 \begin{actionenv}#3%
2245 \setkeys{beamer@col}{#1}%
2246 \begin{minipage}[\beamer@colalign]{#2}%
2247 \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2248
2249 \renewenvironment<>{columns}[1][]{%
2250 \begin{actionenv}#2%
2251 \ifbeamer@onlytextwidth
2252 \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2253 \def\beamer@colexitcode{\unskip\egroup}
2254 \else%
2255 \def\beamer@colentrycode{%
2256 \hbox to\textwidth\bgroup%
2257 \leavevmode%
2258 \hskip-\beamer@leftmargin%
2259 \nobreak%
2260 \beamer@tempdim=\textwidth%
2261 \advance\beamer@tempdim by\beamer@leftmargin%
2262 \advance\beamer@tempdim by\beamer@rightmargin%
2263 \hbox to\beamer@tempdim\bgroup%
2264 \hbox{\hfill\ignorespaces}%
2265 \def\beamer@colexitcode{\egroup%
2266 \nobreak%

```





```

2267     \hskip-\beamer@rightmargin\egroup}%
2268 \fi%
2269 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2270 \setkeys{beamer@col}{#1}%
2271 \par%
2272 \leavevmode
2273 \beamer@colentrycode%
2274 \def\beamer@colclose{}\ignorespaces}%
2275 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2276
2277
2278 \def\@makeRTLfntext#1{%
2279   \def\insertfootnotetext{#1}%
2280   \def\insertfootnotemark{\@makefnmark}%
2281   \usebeamertemplate***{RTLfootnote}}
2282
2283 \def\@makeLTRfntext#1{%
2284   \def\insertfootnotetext{#1}%
2285   \def\insertfootnotemark{\@makefnmark}%
2286   \usebeamertemplate***{LTRfootnote}}
2287
2288 \renewcommand<>\beamer@framefootnotetext[1]{%
2289   \global\setbox\beamer@footins\vbox{%
2290     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2291     \hsize\framewidth
2292     \textwidth\hsize
2293     \columnwidth\hsize
2294     \unvbox\beamer@footins
2295     \reset@font
2296     \bidi@@footnotetext@font
2297     \@parboxrestore
2298     \protected@edef\@currentlabel
2299       {\csname p@footnote\endcsname\@thefnmark}%
2300     \color@begingroup
2301       \uncover#2{\@makefntext{%
2302         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2303     \color@endgroup}}
2304
2305 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2306   \global\setbox\beamer@footins\vbox{%
2307     \@RTLtrue
2308     \hsize\framewidth
2309     \textwidth\hsize
2310     \columnwidth\hsize
2311     \unvbox\beamer@footins
2312     \reset@font
2313     \bidi@RTLfootnotetext@font
2314     \@parboxrestore
2315     \protected@edef\@currentlabel
2316       {\csname p@footnote\endcsname\@thefnmark}%
2317     \color@begingroup
2318       \uncover#2{\@makeRTLfntext{%
2319         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2320     \color@endgroup}}

```



```

2321
2322 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2323   \global\setbox\beamer@footins\vbox{%
2324     \RTLfalse
2325     \hsize\framewidth
2326     \textwidth\hsize
2327     \columnwidth\hsize
2328     \unvbox\beamer@footins
2329     \reset@font
2330     \bidi@LTRfootnotetext@font
2331     \@parboxrestore
2332     \protected@edef\@currentlabel
2333       {\csname p@footnote\endcsname\@thefnmark}%
2334     \color@begingroup
2335       \uncover#2{\@makeLTRfntext{%
2336         \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2337     \color@endgroup}}
2338
2339 \renewcommand<>\@mpfootnotetext[1]{%
2340 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnote
2341   \global\setbox\@mpfootins\vbox{%
2342     \unvbox\@mpfootins
2343     \ifRTL@footnote\RTLtrue\else\RTLfalse\fi
2344     \reset@font
2345     \bidi@footnotetext@font
2346     \hsize\columnwidth
2347     \@parboxrestore
2348     \protected@edef\@currentlabel
2349       {\csname p@mpfootnote\endcsname\@thefnmark}%
2350     \color@begingroup
2351       \uncover#2{\@makefntext{%
2352         \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2353     \color@endgroup}}
2354
2355 \renewcommand<>\@mpRTLfootnotetext[1]{%
2356 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@mpfoo
2357   \global\setbox\@mpfootins\vbox{%
2358     \unvbox\@mpfootins
2359     \RTLtrue
2360     \reset@font
2361     \bidi@RTLfootnotetext@font
2362     \hsize\columnwidth
2363     \@parboxrestore
2364     \protected@edef\@currentlabel
2365       {\csname p@mpfootnote\endcsname\@thefnmark}%
2366     \color@begingroup
2367       \uncover#2{\@makeRTLfntext{%
2368         \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2369     \color@endgroup}}
2370
2371 \renewcommand<>\@mpLTRfootnotetext[1]{%
2372 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footno
2373   \global\setbox\@mpfootins\vbox{%
2374     \unvbox\@mpfootins

```



```

2375 \@RTLfalse
2376 \reset@font
2377 \bidi@LTRfootnotetext@font
2378 \hsize\columnwidth
2379 \@parboxrestore
2380 \protected@edef\@currentlabel
2381 {\csname p@mpfootnote\endcsname\@thefnmark}%
2382 \color@begingroup
2383 \uncover#2{\@makeLTRfntext{%
2384 \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2385 \color@endgroup}}
2386
2387 \let\@footnotetext=\beamer@framefootnotetext
2388 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2389 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2390
2391 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2392 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2393 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2394
2395 \renewcommand<>{\footnote}[1][]{%
2396 \let\beamer@footnotetext=\@footnotetext%
2397 \let\beamer@mpfn=\@mpfn%
2398 \let\beamer@thempfn=\thempfn%
2399 \let\beamer@kvorig=KV@errx%
2400 \let\beamer@xkvorig=XKV@err
2401 \def\beamer@footarg{}%
2402 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2403 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2404 \setkeys{beamerfootnote}{#1}%
2405 \let\KV@errx=\beamer@kvorig%
2406 \let\XKV@errx=\beamer@xkvorig%
2407 \ifx\beamer@footarg\empty%
2408 \def\beamer@next{\stepcounter\beamer@mpfn
2409 \protected@xdef\@thefnmark{\beamer@thempfn}%
2410 \@footnotemark\beamer@footnotetext#2}%
2411 \else%
2412 \def\beamer@next{%
2413 \begingroup
2414 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2415 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2416 \endgroup
2417 \@footnotemark\beamer@footnotetext#2}%
2418 \fi%
2419 \beamer@next}
2420
2421 \renewcommand<>{\RTLfootnote}[1][]{%
2422 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2423 \let\beamer@mpfn=\@mpfn%
2424 \let\beamer@thempfn=\thempfn%
2425 \let\beamer@kvorig=KV@errx%
2426 \let\beamer@xkvorig=XKV@err
2427 \def\beamer@footarg{}%
2428 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%

```



```

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

```

## 20 File beamerbaseframesize-xetex-bidi.def

```

2474 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beam
2475 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2476   \par\nointerlineskip%
2477   \global\beamer@slidehaszoomtrue%
2478   \advance\beamer@zoomcount by1\relax%
2479   \def\beamer@zoomborderwidth{0}%

```



```

2480 \edef\beamer@labelzoomed{\beamer@labelzoomed@the\beamer@zoomframecount @the\beamer@zoomcount}%
2481 \setkeys{beamerzoom}{#3}%
2482 \only<#1>{%
2483   {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2484   \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2485     \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2486       \vbox to #7{%
2487         \hbox to#6{\hfil}%
2488         \vfil%
2489       }%
2490     \else%
2491       \begingroup%
2492         \normalsize%
2493         \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2494           \pgfsetfillopacity{0}
2495           \pgftext[x=0cm,y=3pt]{.}
2496           \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2497         \end{pgfpicture}%
2498       \endgroup%
2499       \fi%
2500     }%
2501     \ht\@tempboxa=0pt%
2502     \wd\@tempboxa=0pt%
2503     \dp\@tempboxa=0pt%
2504     \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}}}%
2505     \ht\@tempboxa=0pt%
2506     \wd\@tempboxa=0pt%
2507     \dp\@tempboxa=0pt%
2508     \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2509   }%
2510   \only<#2>{%
2511     \ifundefined{\beamer@labelzoomed}%
2512     {%
2513       \hypertarget{\beamer@labelzoomed}{}%
2514       \expandafter\gdef\csname\beamer@labelzoomed\endcsname{%
2515         }%
2516       \gdef\beamer@zoomer{%
2517         % compute zoom factor
2518         \@tempdima=\beamer@frametextheight%
2519         \@tempdimb=#7\relax%
2520         \@tempcnta=\@tempdimb%
2521         \divide\@tempcnta by4096\relax%
2522         \multiply\@tempdima by16\relax%
2523         \divide\@tempdima by\@tempcnta%
2524         \@tempdimb=\paperwidth%
2525         \ifbeamer@plainframe%
2526         \else%
2527           \advance\@tempdimb by-\beamer@leftsidebar%
2528           \advance\@tempdimb by-\beamer@rightsidebar\relax%
2529         \fi%
2530         \@tempdimc=#6\relax%
2531         \@tempcntb=\@tempdimc%
2532         \divide\@tempcntb by4096\relax%
2533         \multiply\@tempdimb by16\relax%

```



```

2534 \divide\@tempdimb by\@tempcntb%
2535 \ifdim\@tempdimb<\@tempdima%
2536 \@tempdima=\@tempdimb%
2537 \fi%
2538 \edef\beamer@temp{\strip@pt\@tempdima}%
2539 \@tempdimc=\beamer@frametextheight%
2540 \advance\@tempdimc by4pt%
2541 \@tempdimb=\paperwidth%
2542 \ifbeamer@plainframe%
2543 \else%
2544 \advance\@tempdimb by-\beamer@leftsidebar%
2545 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2546 \fi%
2547 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2548 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2549 \ht\@tempboxa=0pt%
2550 \wd\@tempboxa=0pt%
2551 \dp\@tempboxa=0pt%
2552 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2553 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2554 \ifRTL
2555 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pap
2556 \pgftext[right,top]{\box\@tempboxa}
2557 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2558 \pgfusepath{clip}
2559 \begingroup
2560 \pgftransformscale{\beamer@temp}
2561 \@tempdima=#4\relax%
2562 \@tempdimb=#5\relax%
2563 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2564 \pgftext[right,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}
2565 \endgroup
2566 \end{pgfpicture}%
2567 \else
2568 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmarg
2569 \pgftext[left,top]{\box\@tempboxa}
2570 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2571 \pgfusepath{clip}
2572 \begingroup
2573 \pgftransformscale{\beamer@temp}
2574 \@tempdima=#4\relax%
2575 \@tempdimb=#5\relax%
2576 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2577 \pgftext[left,top]{\vbox{\vbox{}\nointerlineskip\unvbox\beamer@framebox}}
2578 \endgroup
2579 \end{pgfpicture}%
2580 \fi
2581 }}%
2582 \setbox\beamer@framebox=\vbox{%
2583 \nobreak\vbox{}\nobreak\par\nobreak\beamer@entrycode\nobreak%
2584 \nointerlineskip\unvbox\beamer@frametitlebox%
2585 \nobreak%
2586 \box\beamer@framebox%
2587 \nobreak%

```



```

2588         \vss%
2589         \beamer@exitcode%
2590     }%
2591     \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2592 }%
2593 }%
2594 }
2595
2596

```

## 21 File beamerbaselocalstructure-xetex-bidi.def

```

2597 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2598 \def\beamer@enum@{%
2599     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2600     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2601     \bgroup
2602     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2603     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2604     \egroup
2605     \expandafter
2606     \list
2607         {\usebeamertemplate{\beamer@enumtempl}}
2608         {\usecounter\@enumctr%
2609             \def\makelabel##1{{\hss\llap{%
2610                 \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2611                 \usebeamerfont{itemize/enumerate \beameritemnestingprefix item}##1}}}%
2612             \beamer@cramped%
2613             \bidi@beamer@ragged%
2614             \beamer@firstlineitemizeunskip%
2615         }
2616
2617 \renewcommand{\itemize}[1][ ]{%
2618     \ifblank{#1}{\def\beamer@defaultospec{#1}}%
2619     \ifnum \@itemdepth >2\relax\@toodeep\else
2620         \advance\@itemdepth\@ne
2621         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2622         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2623         \bgroup
2624         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2625         \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2626         \egroup
2627         \list
2628             {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2629             {\def\makelabel##1{%
2630                 {%
2631                     \hss\llap{%
2632                         \usebeamerfont*{itemize \beameritemnestingprefix item}%
2633                         \usebeamerfont{itemize \beameritemnestingprefix item}##1}}%
2634                 }%
2635             }%
2636         }
2637     \fi%
2638     \beamer@cramped%

```



```

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

```

## 22 File beamerbasemisc-xetex-bidi.def

```

2683 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbas
2684 \define@key{beamerst}{width}{%
2685 \def\beamer@ststart{%
2686 \begin{minipage}[t]{#1}%
2687 \bidi@beamer@ragged
2688 \beamer@stalign
2689 \beamer@stlinebreakrule

```





```

2690 }%
2691 \def\beamer@stend{\end{minipage}}
2692
2693

```

## 23 File beamerbasenavigation-xetex-bidi.def

```

2694 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for bea
2695 \def\slideentry#1#2#3#4#5#6{%
2696   %section number, subsection number, slide number, first/last frame, page number, part num
2697   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2698     \ifbeamer@compress%
2699       \advance\beamer@xpos by1\relax%
2700     \else%
2701       \ifnum#2=0%
2702         \beamer@ypos@offset=1\relax%
2703       \fi
2704       \beamer@xpos=#3\relax%
2705       \beamer@ypos=#2\relax%
2706       \advance\beamer@ypos by \beamer@ypos@offset\relax
2707     \fi%
2708     \hbox to 0pt{%
2709       \beamer@tempdim=-\beamer@vboxoffset%
2710       \advance\beamer@tempdim by-\beamer@boxsize%
2711       \multiply\beamer@tempdim by\beamer@ypos%
2712       \advance\beamer@tempdim by -.05cm%
2713       \raise\beamer@tempdim\hbox{%
2714         \beamer@tempdim=\beamer@boxsize%
2715         \multiply\beamer@tempdim by\beamer@xpos%
2716         \advance\beamer@tempdim by -\beamer@boxsize%
2717         \advance\beamer@tempdim by 1pt%
2718         \kern\beamer@tempdim
2719         \global\beamer@section@min@dim\beamer@tempdim
2720         \hbox{\beamer@link(#4){}%
2721           \usebeamerfont{mini frame}%
2722           \ifnum\c@section=#1%
2723             \ifnum\c@subsection=#2%
2724               \usebeamercolor{fg}{mini frame}%
2725               \ifnum\c@subsectionslide=#3%
2726                 \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2727               \else%
2728                 \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhi
2729             \fi%
2730           \else%
2731             \usebeamercolor{mini frame}%
2732             %\color{fg!50!bg}%
2733             \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2734           \fi%
2735         \else%
2736           \usebeamercolor{mini frame}%
2737           %\color{fg!50!bg}%
2738           \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2739         \fi%
2740       }}}} \hskip-10cm plus 1fil%

```



```

2741 } \fi \fi %
2742 \else %
2743 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2744 \fi \ignorespaces
2745 }
2746
2747 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2748 {
2749   \pgfpathqmoveto{3.5bp}{0.5bp}
2750   \pgfpathqlineto{1.5bp}{2bp}
2751   \pgfpathqlineto{3.5bp}{3.5bp}
2752   \pgfusepathqfill
2753 }
2754
2755 \def\insertgotosymbol{%
2756 \if@RTL
2757   \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2758     \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2759   \end{pgfpicture}%
2760 \else
2761   \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2762     \pgfuseobject{beamer@gotosymbol}%
2763   \end{pgfpicture}%
2764 \fi
2765 }
2766
2767 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2768 {
2769   \pgfpathqmoveto{5.5bp}{0.5bp}
2770   \pgfpathqlineto{3.5bp}{2bp}
2771   \pgfpathqlineto{5.5bp}{3.5bp}
2772   \pgfpathqmoveto{3.5bp}{0.5bp}
2773   \pgfpathqlineto{1.5bp}{2bp}
2774   \pgfpathqlineto{3.5bp}{3.5bp}
2775   \pgfusepathqfill
2776 }
2777
2778 \def\insertskipsymbol{%
2779 \if@RTL
2780   \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2781     \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2782   \end{pgfpicture}%
2783 \else
2784   \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2785     \pgfuseobject{beamer@skipsymbol}%
2786   \end{pgfpicture}%
2787 \fi
2788 }
2789
2790 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2791 {
2792   \pgfpathqmoveto{1.5bp}{0.5bp}
2793   \pgfpathqlineto{3.5bp}{2bp}
2794   \pgfpathqlineto{1.5bp}{3.5bp}

```



```

2795 \pgfusepathqfill
2796 }
2797
2798 \def\insertreturnsymbol{%
2799 \if@RTL
2800 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2801 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2802 \end{pgfpicture}%
2803 \else
2804 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2805 \pgfuseobject{beamerreturnsymbol}%
2806 \end{pgfpicture}%
2807 \fi
2808 }
2809
2810

```

## 24 File beamerbaseoverlay-xetex-bidi.def

```

2811 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2812 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2813
2814

```

## 25 File beamerinnerthemedefault-xetex-bidi.def

```

2815 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2816 \newcommand*{\bidi@beamer@leftskip}{%
2817 \if@RTL
2818 \rightskip
2819 \else
2820 \leftskip
2821 \fi
2822 }
2823
2824 \newcommand*{\bidi@beamer@rightskip}{%
2825 \if@RTL
2826 \leftskip
2827 \else
2828 \rightskip
2829 \fi
2830 }
2831
2832 \bidi@csundef{beamer@@tmpop@subsection in toc@default}
2833
2834 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2835
2836 \defbeamertemplate*{subsection in toc}{default}
2837 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2838
2839 \defbeamertemplate*{subsubsection in toc}{default}
2840 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2841 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2842

```



```

2843 \newcommand*{\bidi@beamer@blacktriangle}{%
2844   \if@RTL
2845     $\blacktriangleleft$%
2846   \else
2847     $\blacktriangleright$%
2848   \fi
2849 }
2850
2851 \bidi@csundef{beamer@@tmpop@itemize item@default}
2852
2853 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2854
2855 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2856
2857 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\
2858 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\h
2859 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1
2860
2861 \bidi@undef\beamer@@tmpop@footnote@default
2862
2863 \defbeamertemplate*{footnote}{default}
2864 {
2865   \parindent 1em\noindent%
2866   \bidi@beamer@ragged
2867   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2868 }
2869
2870 \defbeamertemplate*{RTLfootnote}{default}
2871 {
2872   \parindent 1em\noindent%
2873   \raggedleft
2874   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2875 }
2876
2877 \defbeamertemplate*{LTRfootnote}{default}
2878 {
2879   \parindent 1em\noindent%
2880   \raggedright
2881   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2882 }
2883
2884 \bidi@undef\beamer@@tmpop@caption@default
2885
2886 \defbeamertemplate*{caption}{default}
2887 {%
2888   \bidi@beamer@ragged
2889   {%
2890     \leavevmode
2891     \usebeamerfont[fg]{caption name}%
2892     \usebeamerfont*{caption name}%
2893     \insertcaptionname
2894     \usebeamertemplate{caption label separator}%
2895   }%
2896   \insertcaption\par

```



```

2897 }
2898
2899 \bidi@csundef{beamer@@tmpop@block begin@default}
2900
2901 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2902
2903 \bidi@csundef{beamer@@tmpop@block example begin@default}
2904
2905 \defbeamertemplate*{block begin}{default}
2906 {
2907   \par\vskip\medskipamount%
2908   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2909     \usebeamerfont*{block title}\insertblocktitle%
2910   \end{beamercolorbox}%
2911   {\parskip0pt\par}%
2912   \ifbeamercoloreempty[bg]{block title}
2913   {}
2914   {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2915   \usebeamerfont{block body}%
2916   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2917     \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\base
2918 }
2919
2920 \defbeamertemplate*{block alerted begin}{default}
2921 {
2922   \par\vskip\medskipamount%
2923   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2924     \usebeamerfont*{block title alerted}\insertblocktitle%
2925   \end{beamercolorbox}%
2926   {\parskip0pt\par}%
2927   \ifbeamercoloreempty[bg]{block title alerted}
2928   {}
2929   {\ifbeamercoloreempty[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2930   \usebeamerfont{block body alerted}%
2931   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2932     \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75
2933 }
2934
2935 \defbeamertemplate*{block example begin}{default}
2936 {
2937   \par\vskip\medskipamount%
2938   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2939     \usebeamerfont*{block title example}\insertblocktitle%
2940   \end{beamercolorbox}%
2941   {\parskip0pt\par}%
2942   \ifbeamercoloreempty[bg]{block title example}
2943   {}
2944   {\ifbeamercoloreempty[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2945   \usebeamerfont{block body example}%
2946   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2947     \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75
2948 }
2949
2950 \bidi@csundef{beamer@@tmpop@abstract begin@default}

```



```

2951
2952 \defbeamertemplate*{abstract begin}{default}
2953 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fi}
2954
2955 \bidi@undef\beamer@@tmpop@button@default
2956
2957 \defbeamertemplate*{button}{default}
2958 {%
2959   \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2960   \ht\beamer@tempbox=6pt%
2961   \dp\beamer@tempbox=0pt%
2962   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2963   \beamer@tempdim=\wd\beamer@tempbox%
2964   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2965   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2966   \if@RTL
2967     \kern4pt%
2968     \box\beamer@tempbox%
2969     \hskip-\beamer@tempdim%
2970   \fi
2971   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2972     \color{bg}
2973     \pgfsetlinewidth{0.8pt}
2974     \pgfpathqmoveto{0pt}{0pt}
2975     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2976     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2977     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2978     \pgfpathcurveto%
2979     {\pgfpoint{\the\beamer@dima}{8pt}}%
2980     {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2981     {\pgfpoint{\the\beamer@dimb}{4pt}}
2982     \pgfpathcurveto%
2983     {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2984     {\pgfpoint{\the\beamer@dima}{0pt}}%
2985     {\pgfpoint{\the\beamer@tempdim}{0pt}}
2986     \pgfpathclose
2987     \pgfusepathqfill
2988     \colorlet{bg}{parent.bg}
2989     \usebeamercolor[fg]{button border}
2990     \pgfpathqmoveto{0pt}{0pt}
2991     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2992     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2993     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2994     \pgfpathcurveto%
2995     {\pgfpoint{\the\beamer@dima}{8pt}}%
2996     {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2997     {\pgfpoint{\the\beamer@dimb}{4pt}}
2998     \pgfpathcurveto%
2999     {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3000     {\pgfpoint{\the\beamer@dima}{0pt}}%
3001     {\pgfpoint{\the\beamer@tempdim}{0pt}}
3002     \pgfpathclose
3003     \pgfusepathqstroke
3004   \end{pgfpicture}%

```



```

3005 \if@RTL
3006 \else
3007     \hskip-\beamer@tempdim%
3008     \box\beamer@tempbox%
3009     \kern4pt%
3010 \fi
3011 }
3012
3013

```

## 26 File beamerinnerthemecircles-xetex-bidi.def

```

3014 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for be
3015 \setbeamertemplate{sections/subsections in toc}[circle]
3016

```

## 27 File beamerinnerthemefocus-xetex-bidi.def

```

3017 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for be
3018 \setbeamertemplate{section in toc}[square]
3019 \setbeamertemplate{subsection in toc}[square]
3020
3021 \setbeamertemplate{itemize items}[square]
3022 \setbeamertemplate{itemize subitem}[triangle]
3023
3024 \bidi@csundef{beamer@@tmpop@title page@focus}
3025
3026 \defbeamertemplate*{title page}{focus}{%
3027     {%
3028         \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3029         \begin{tikzpicture}[overlay, remember picture]
3030             \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.
3031         \end{tikzpicture}
3032     }
3033
3034     \vspace{-1.65\baselineskip}
3035     \begin{minipage}[b][0.35\paperheight]{\textwidth}
3036         \vspace{\baselineskip}
3037         \usebeamerfont{title}
3038         \usebeamercolor[fg]{frametitle}
3039         \inserttitle
3040     \end{minipage}
3041
3042     \begin{minipage}[t][0.1\paperheight]{\textwidth}
3043         \usebeamerfont{subtitle}
3044         \usebeamercolor[fg]{frametitle}
3045         \insertsubtitle
3046     \end{minipage}
3047
3048     % Set the title graphic in a zero-height box, so that
3049     % the position of other elements is not affected.
3050     {\vfuzz=9999pt\vbox to 0pt {
3051         \if@RTL
3052         \raggedright

```



```

3053         \else
3054             \raggedleft
3055         \fi
3056         \inserttitlegraphic
3057     }}
3058
3059     \begin{minipage}[t]{\textwidth}
3060         \usebeamerfont{author}
3061         \insertauthor
3062     \end{minipage}
3063
3064     \vspace*{\baselineskip}
3065     \begin{minipage}[t]{\textwidth}
3066         \usebeamerfont{institute}
3067         \insertinstitute
3068     \end{minipage}
3069
3070     \vspace*{\baselineskip}
3071     \begin{minipage}[t]{\textwidth}
3072         \usebeamerfont{date}
3073         \insertdate
3074     \end{minipage}
3075
3076     \vspace*{0pt plus 100fill}
3077
3078     \addtocounter{framenummer}{-1}
3079     \addtocounter{realframenummer}{-1}
3080 }
3081
3082
3083

```

## 28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3084 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3085 \AtBeginDocument{%
3086     \setbeamsize{sidebar width left=.25\paperwidth}%
3087 }
3088
3089 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3090
3091 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3092
3093 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3094
3095 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3096
3097 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3098
3099 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3100
3101 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3102
3103 \bidi@csundef{beamer@@tmpop@block example end@inmargin}

```





```

3104
3105 \defbeamertemplate*{section in toc}{inmargin}
3106 {\leavevmode
3107   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3108
3109 \defbeamertemplate*{title page}{inmargin}
3110 {
3111   \begin{block}{\inserttitleindicator}
3112     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3113     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3114   \end{block}
3115   \vfill
3116   \ifx\insertauthor\@empty
3117   \else
3118     \begin{block}{\insertauthorindicator}
3119       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3120     \end{block}
3121   \fi
3122   \ifx\insertinstitute\@empty
3123   \else
3124     \begin{block}{\insertinstituteindicator}
3125       \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3126     \end{block}
3127   \fi
3128   \ifx\insertdate\@empty
3129   \else
3130     \begin{block}{\insertdateindicator}
3131       \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3132     \end{block}
3133   \fi
3134 }
3135
3136 \defbeamertemplate*{block begin}{inmargin}
3137 {
3138   \par\vskip\medskipamount%
3139   \leavevmode%
3140   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}}\par}
3141   \beginL\beamer@putright
3142   %\usebeamercolor[fg]{block body}% to be done!
3143 }
3144
3145 \defbeamertemplate*{block end}{inmargin}
3146 {\endbeamer@putright\endL\vskip\smallskipamount}
3147
3148 \defbeamertemplate*{block alerted begin}{inmargin}
3149 {
3150   \par\vskip\medskipamount%
3151   \leavevmode%
3152   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block title alerted}}\par}
3153   \beginL\beamer@putright
3154   %\usebeamercolor[fg]{block body alerted}% to be done!
3155 }
3156
3157 \defbeamertemplate*{block alerted end}{inmargin}

```



```

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

```

## 29 File beamerinnerthememetropolis-xetex-bidi.def

```

3179 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations f
3180 \setbeamertemplate{title}{
3181   \bidi@beamer@ragged%
3182   \linespread{1.0}%
3183   \inserttitle%
3184   \par%
3185   \vspace*{0.5em}
3186 }
3187
3188 \setbeamertemplate{subtitle}{
3189   \bidi@beamer@ragged%
3190   \insertsubtitle%
3191   \par%
3192   \vspace*{0.5em}
3193 }
3194
3195 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3196
3197 \defbeamertemplate{section page}{progressbar}{
3198   \centering
3199   \begin{minipage}{22em}
3200     \bidi@beamer@ragged
3201     \usebeamercolor[fg]{section title}
3202     \usebeamerfont{section title}
3203     \insertsectionhead\[-lex]
3204     \usebeamertemplate*{progress bar in section page}
3205     \par
3206     \ifx\insertsubsectionhead\@empty\else%
3207       \usebeamercolor[fg]{subsection title}%
3208       \usebeamerfont{subsection title}%

```



```

3209     \insertsubsectionhead
3210     \fi
3211 \end{minipage}
3212 \par
3213 \vspace{\baselineskip}
3214 }
3215
3216 \setbeamertemplate{progress bar in section page}{
3217   \setlength{\metropolis@progressonsectionpage}{%
3218     \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3219   }%
3220   \begin{tikzpicture}
3221     \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3222 \if@RTLmain
3223     \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3224 \else
3225     \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3226 \fi
3227   \end{tikzpicture}%
3228 }
3229
3230 \renewcommand{\metropolis@block}[1]{
3231   \par\vskip\medskipamount%
3232   \setlength{\parskip}{0pt}
3233   \ifbeamercoloreempty[bg]{block title#1}{%
3234     \if@RTL
3235       \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3236     \else
3237       \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3238     \fi
3239   }{%
3240     \ifbeamercoloreempty[bg]{block title}{%
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   }%
3248   \if@RTL
3249     \begin{beamercolorbox}[
3250       sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3251       rightskip=\metropolis@blockadjust,
3252       leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3253     ]{block title#1}%
3254   \else
3255     \begin{beamercolorbox}[
3256       sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3257       leftskip=\metropolis@blockadjust,
3258       rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3259     ]{block title#1}%
3260   \fi
3261 }}%
3262   \usebeamerfont*{block title#1}%

```



```

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

```

## 30 File beamerinnerthemerectangles-xetex-bidi.def

```

3304 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations f
3305 \setbeamertemplate{sections/subsections in toc}[square]
3306 \setbeamertemplate{items}[square]
3307

```

## 31 File beamerinnerthemrounded-xetex-bidi.def

```

3308 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for
3309 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3310 \setbeamertemplate{items}[ball]

```



```

3311 \setbeamertemplate{sections/subsections in toc}[ball]
3312

```

## 32 File beamerouterthemedefault-xetex-bidi.def

```

3313 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for
3314 \def\beamer@ftelleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.7cm}
3315
3316 \def\beamer@fterright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.7cm}
3317
3318 \AtBeginDocument{%
3319   \if@RTLmain
3320     \setbeamertemplate{frametitle}[default][right]
3321   \fi
3322 }
3323
3324 \bidi@csundef{beamer@@tmpop@note page@default}
3325
3326 \newcommand*{\bidi@beamer@today}{%
3327   \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3328
3329 \defbeamertemplate*{note page}{default}
3330 {%
3331   {%
3332     \scriptsize
3333     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3334     \ifbeamercolorempy[bg]{note title}{\%
3335       \insertvrule{.25\paperheight}{note title.bg}%
3336       \vskip-.25\paperheight%
3337       \nointerlineskip%
3338     }%
3339     \vbox{
3340       \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3341       \vskip-0.25\paperheight%
3342       \nointerlineskip
3343       \if@RTL
3344         \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3345           \begin{pgflowlevelscope}{\pgftransformrotate{-90}}
3346             {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3347             \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3348           \end{pgflowlevelscope}
3349         \end{pgfpicture}%
3350       \else
3351         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3352           \begin{pgflowlevelscope}{\pgftransformrotate{90}}
3353             {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3354             \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3355           \end{pgflowlevelscope}
3356         \end{pgfpicture}%
3357       \fi}
3358     \nointerlineskip
3359     \vbox to .25\paperheight{\vskip0.5em
3360     \if@RTL
3361       \moveright0.25\textwidth

```



```

3362 \fi
3363 \hbox{\insertshorttitle[width=0.75\textwidth]}\%
3364 \setbox\beamer@tempbox=\hbox{\insertsection}\%
3365
3366 \if@RTL
3367 \moveright\dimexpr0.29\textwidth-14pt\relax
3368 \fi
3369 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3370 width0.4pt height7pt\vrule width 9pt
3371 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}
3372 \if@RTL\endR\fi}\%
3373 \setbox\beamer@tempbox=\hbox{\insertsubsection}\%
3374
3375 \if@RTL
3376 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3377 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3378 width0.4pt height7pt\vrule width 9pt
3379 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}
3380 \if@RTL\endR\fi}\%
3381 \setbox\beamer@tempbox=\hbox{\insertshortframetitle}\%
3382
3383 \if@RTL
3384 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3385 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3386 width0.4pt height7pt\vrule width 9pt
3387 height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3388 \if@RTL\endR\fi}\%
3389 \vfil}\%
3390 }%
3391 \ifbeamercolorempy[bg]{note page}{-}{-}\%
3392 \nointerlineskip%
3393 \insertvrule{.75\paperheight}{note page.bg}%
3394 \vskip-.75\paperheight%
3395 }%
3396 \vskip.25em
3397 \nointerlineskip
3398 \insertnote
3399 }
3400
3401
3402

```

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

```

3403 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for be
3404 \bidi@undef\beamer@@tmpop@footline@progressbar
3405
3406 \defbeamertemplate*{footline}{progressbar}{%
3407 % If not appendix.
3408 \ifnum\mainend<0% From package appendixnumberbeamer.
3409 %
3410 \settowidth{\focus@pbar@leftoffset}{1}%
3411 \addtolength{\focus@pbar@leftoffset}{1.5em}%
3412 %

```



```

3413 \ifx\beamer@focus@totalframenumbering\no%
3414 \settowidth{\focus@pbar@rightoffset}{}%
3415 \addtolength{\focus@pbar@rightoffset}{0.5em}%
3416 \else%
3417 \settowidth{\focus@pbar@rightoffset}{\inserttotalframenumber}%
3418 \addtolength{\focus@pbar@rightoffset}{1.5em}%
3419 \fi%
3420 %
3421 % If not title page.
3422 \ifnum\value{realframenumber}>0%
3423 \ifnum\value{framenumber}<\inserttotalframenumber%
3424 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footline}
3425 \pgfmathsetmacro{\focus@pbar@progress}%
3426 {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inserttotalframenumber-\value{framenumber})/\value{realframenumber}}
3427
3428 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3429 \if@RTLmain
3430 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3431 \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle ++(0,\the\focus@pbar@height) node[anchor=west];
3432
3433 \else
3434 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3435 \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\the\focus@pbar@rightoffset,0) node[anchor=east];
3436
3437 \fi
3438 \ifx\beamer@focus@totalframenumbering\no%
3439 \else%
3440 \if@RTLmain
3441 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=west];
3442
3443 \else
3444 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east];
3445
3446 \fi
3447 \fi%
3448 \end{tikzpicture}%
3449 \else%
3450 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3451 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3452 \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3453 \if@RTLmain
3454 \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenumber-\value{framenumber}};
3455 \else
3456 \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenumber-\value{framenumber}};
3457 \fi
3458 \ifx\beamer@focus@totalframenumbering\no%
3459 \else%
3460 \if@RTLmain
3461 \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenumber-\value{framenumber}};
3462 \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenumber-\value{framenumber}};
3463 \else
3464 \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenumber-\value{framenumber}};
3465 \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenumber-\value{framenumber}};
3466 \fi

```



```

3467             \fi%
3468         \end{tikzpicture}%
3469     \fi%
3470 \fi%
3471 \fi%
3472 }
3473
3474

```

## 34 File beamerouterthemeinfolines-xetex-bidi.def

```

3475 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations fo
3476 \bidi@csundef{beamer@@tmpop@footline@infolines theme}
3477
3478 \defbeamertemplate*{footline}{infolines theme}
3479 {%
3480     \leavevmode%
3481     \hbox{%
3482         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}
3483         \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\
3484         \end{beamercolorbox}%
3485         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}
3486         \usebeamerfont{title in head/foot}\insertshorttitle
3487         \end{beamercolorbox}%
3488         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,
3489         \hfill%
3490         \usebeamerfont{date in head/foot}%
3491         \insertshortdate}%
3492         \hfill%
3493         \bgroup
3494         \usebeamerfont[fg]{page number in head/foot}%
3495         \usebeamerfont{page number in head/foot}%
3496         \usebeamertemplate{page number in head/foot}%
3497         \egroup
3498         \end{beamercolorbox}}%
3499     \vskip0pt%
3500 }
3501
3502 \bidi@csundef{beamer@@tmpop@headline@infolines theme}
3503
3504 \defbeamertemplate*{headline}{infolines theme}
3505 {%
3506     \leavevmode%
3507     \hbox{%
3508         \if@RTL
3509         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3510         \else
3511         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3512         \fi
3513         \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3514         \end{beamercolorbox}%
3515         \if@RTL
3516         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}
3517         \else

```





```

3518 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/footer}
3519 \fi
3520 \usebeamerfont{subsection in head/footer}\hspace*{2ex}\insertsubsectionhead
3521 \end{beamercolorbox}}%
3522 \vskip0pt%
3523 }
3524
3525 \bidi@AfterFile{beamerouterthememsplit-xetex-bidi.def}{%
3526 \setbeamertemplate{footline}[infolines theme]%
3527 }
3528

```

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

```

3529 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations f
3530 \setbeamertemplate{progress bar in head/footer}{
3531 \nointerlineskip
3532 \setlength{\metropolis@progressinheadfoot}{%
3533 \paperwidth * \ratio{\insertframenum pt}{\inserttotalframenum pt}%
3534 }%
3535 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/footer}
3536 \begin{tikzpicture}
3537 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3538 \if@RTLmain
3539 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \met
3540 \else
3541 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinhead
3542 \fi
3543 \end{tikzpicture}%
3544 \end{beamercolorbox}
3545 }
3546
3547 \AtBeginDocument{%
3548 \setbeamertemplate{frametitle}[plain]%
3549 }
3550
3551

```

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

```

3552 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3553 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3554
3555 \defbeamertemplate*{headline}{miniframes theme}
3556 {%
3557 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3558 \end{beamercolorbox}
3559 \begin{beamercolorbox}{section in head/footer}
3560 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3561 \end{beamercolorbox}%
3562 \ifbeamer@theme@subsection%
3563 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3564 \end{beamercolorbox}
3565 \if@RTL

```



```

3566 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3567 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3568 \else
3569 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3570 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3571 \fi
3572 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3573 \end{beamercolorbox}%
3574 \fi%
3575 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3576 \end{beamercolorbox}
3577 }
3578
3579

```

## 37 File beamerouterthemesidebar-xetex-bidi.def

```

3580 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for
3581 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3582
3583 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3584
3585 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3586
3587 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3588
3589 \ifdim\beamer@headheight>0pt
3590
3591 \defbeamertemplate*{frametitle}{sidebar theme}
3592 {%
3593 \nointerlineskip%
3594 \ifbeamer@plainframe%
3595 \hbox{\usebeamercolor[bg]{frametitle}%
3596 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3597 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3598 \nointerlineskip%
3599 \fi%
3600 \vskip-\beamer@headheight%
3601 \vbox to \beamer@headheight{%
3602 \vfil
3603 \bidi@beamer@leftskip=-\beamer@leftmargin%
3604 \advance\bidi@beamer@leftskip by0.3cm%
3605 \bidi@beamer@rightskip=-\beamer@rightmargin%
3606 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3607 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par
3608 \ifx\insertframesubtitle\@empty\else%
3609 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframes
3610 \fi%
3611 \vbox{}%
3612 \vskip-1em%
3613 \vfil
3614 }%
3615 }
3616

```



```

3617 \AtBeginDocument{%
3618   \setbeamertheme{frametitle}[sidebar theme]%
3619 }
3620
3621 \defbeamertemplate*{headline}{sidebar theme}
3622 {%
3623   \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3624     \ifx\beamer@sidebarside\beamer@lefttext%
3625       \else%
3626         \hfill%
3627       \fi%
3628     \ifdim\beamer@sidebarwidth>0pt%
3629       \bgroup
3630       \usebeamercolor[bg]{logo}%
3631       \if@RTLmain
3632       \else
3633         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3634         \hskip-\beamer@sidebarwidth%
3635       \fi
3636       \hbox to \beamer@sidebarwidth{\hss\vbox to
3637         \beamer@headheight{\vss\hbox{\color{fg}\insertlogo}\vss}\hss}%
3638       \if@RTLmain
3639         \hskip-\beamer@sidebarwidth%
3640         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3641       \fi
3642       \egroup
3643     \else%
3644       \vrule width0pt height \beamer@headheight%
3645     \fi%
3646   \end{beamercolorbox}
3647 }
3648 \fi
3649
3650 \def\beamer@sidebarformat#1#2#3{%
3651 \if@RTL
3652   \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{
3653   \else
3654     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{
3655   \fi
3656     \vbox{}%
3657     #3\par%
3658     \vbox{}%
3659     \vskip-1.5ex%
3660   \end{beamercolorbox}
3661 }
3662
3663 \ifdim\beamer@sidebarwidth>0pt
3664
3665 \AtBeginDocument{%
3666   \setbeamertheme{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3667 }
3668
3669 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
3670 {

```



```

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

```

## 38 File beamerouterthemesplit-xetex-bidi.def

```

3700 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for be
3701 \bidi@csundef{beamer@@tmpop@footline@split theme}
3702
3703 \defbeamertemplate*{footline}{split theme}
3704 {%
3705 \leavevmode%
3706 \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm p
3707 \else
3708 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightsk
3709 \fi
3710 \usebeamerfont{author in head/foot}\insertshortauthor
3711 \end{beamercolorbox}%
3712 \if@RTL
3713 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3714 \else
3715 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm
3716 \fi
3717 \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor
3718 \end{beamercolorbox}}%
3719 \vskip0pt%
3720 }
3721

```



3722

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

```

3723 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for b
3724 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitles
3725   color(0pt)=(frametitle right.bg);
3726   color(\paperwidth)=(frametitle.bg)
3727 }
3728
3729 \newcommand*{\bidi@beamer@frametitleshade}{%
3730   \if@RTLmain
3731     \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3732   \else
3733     \pgfuses shading{beamer@frametitleshade}%
3734   \fi
3735 }
3736
3737 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3738
3739 \defbeamertemplate*{frametitle}{shadow theme}
3740 {%
3741   \nointerlineskip%
3742   \vskip-2pt%
3743   \hbox{\leavevmode
3744     \advance\beamer@leftmargin by -12bp%
3745     \advance\beamer@rightmargin by -12bp%
3746     \beamer@tempdim=\textwidth%
3747     \advance\beamer@tempdim by \beamer@leftmargin%
3748     \advance\beamer@tempdim by \beamer@rightmargin%
3749     \hskip-\Gm@lmargin\hbox{%
3750       \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3751         \vbox{\vskip-.75ex%
3752           \bidi@beamer@leftskip0.3cm%
3753           \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3754           \bgroup\usebeamerfont[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertfram
3755           \ifx\insertframesubtitle\empty\else%
3756             {\usebeamerfont*{framesubtitle}{\usebeamerfont[fg]{framesubtitle}\insertframes
3757           \fi%
3758           \nointerlineskip
3759           \vbox{}}%
3760         \end{minipage}}}%
3761       \beamer@tempdim=\ht\beamer@tempbox%
3762       \advance\beamer@tempdim by 2pt%
3763       \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3764         \begin{pgfscope}
3765           \pgfsetfillcolor{black}%
3766           \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3767           \pgfsetfading{beamer@topshadowmask}{}%
3768           \pgfusepath{fill}%
3769         \end{pgfscope}
3770         \begin{pgfscope}
3771           \usebeamerfont{frametitle right}%
3772           \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%

```



```

3773         \pgfusepath{clip}%
3774         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3775         \end{pgfscope}
3776     \end{pgfpicture}
3777     \hskip-\paperwidth%
3778     \box\beamer@tempbox%
3779 }%
3780 \hskip-\Gm@rmargin%
3781 }%
3782 \vskip-2pt
3783 }
3784
3785 \AtBeginDocument{%
3786     \setbeamertemplate{frametitle}[shadow theme]%
3787 }
3788
3789

```

## 40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3790 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3791 \bidi@csundef{beamer@@tmpop@headline@smoothbars theme}
3792
3793 \bidi@csundef{beamer@@tmpop@frametitle@smoothbars theme}
3794
3795 \defbeamertemplate*{headline}{smoothbars theme}
3796 {%
3797     \pgfuseshading{beamer@barshade}%
3798     \vskip-0.05ex%
3799     \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3800     \begin{pgfpicture}
3801         \begin{pgfscope}%
3802             \ifbeamer@sb@subsection%
3803                 \pgfsetfillcolor{subsection in head/foot.bg}%
3804             \else%
3805                 \pgfsetfillcolor{section in head/foot.bg}%
3806             \fi%
3807             \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3808             \pgfsetfading{beamer@belowframetitlemask}{}%
3809             \pgfusepath{fill}%
3810         \end{pgfscope}%
3811     \end{pgfpicture}%
3812     \end{beamercolorbox}%
3813     \ifbeamer@sb@subsection%
3814         \vskip-9.75ex%
3815     \else%
3816         \vskip-6.85ex%
3817     \fi%
3818     \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3819         \insertnavigation{\paperwidth}
3820     \end{beamercolorbox}%
3821     \ifbeamer@sb@subsection%
3822     \ifRTL
3823         \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%

```



```

3824     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3825 \else
3826 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3827     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3828 \fi
3829 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3830 \end{beamercolorbox}%
3831 \fi%
3832 }%
3833
3834 \defbeamertemplate*{frametitle}{smoothbars theme}
3835 {%
3836 \nointerlineskip%
3837 \vskip-0.19ex%
3838 \usebeamerfont{headline}%
3839 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3840 \pgfuses shading{beamer@aboveframetitle}%
3841 \end{beamercolorbox}%
3842 \vskip-1ex%
3843 \nointerlineskip%
3844 \if@RTL
3845 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{framet
3846 \else
3847 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{framet
3848 \fi
3849 \vskip0.5ex%
3850 \usebeamerfont*{frametitle}\strut\insertframetitle%
3851 \ifx\insertframesubtitle\@empty%
3852 \strut\par%
3853 \else
3854 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insert
3855 \fi%%
3856 \usebeamerfont{headline}%
3857 \vskip0.05ex%
3858 \end{beamercolorbox}%
3859 \nointerlineskip%
3860 \vskip-0.05ex%
3861 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3862 \begin{pgfpicture}
3863 \begin{pgfscope}%
3864 \pgfsetfillcolor{frametitle.bg}%
3865 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3866 \pgfsetfading{beamer@belowframetitlemask}{}%
3867 \pgfusepath{fill}%
3868 \end{pgfscope}%
3869 \end{pgfpicture}%
3870 \end{beamercolorbox}%
3871 }
3872
3873 \AtBeginDocument{%
3874 \setbeamertemplate{frametitle}[smoothbars theme]%
3875 }
3876
3877

```



## 41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3878 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3879 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3880
3881 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3882
3883 \defbeamertemplate*{headline}{smoothtree theme}
3884 {%
3885   \pgfuses shading{beamer@treeshade}%
3886   \vskip-0.05ex%
3887   \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3888   \begin{pgf picture}
3889     \begin{pgf scope}%
3890       \pgfset fillcolor{subsection in head/foot.bg}%
3891       \pgfpath rectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3892       \pgfset fading{beamer@belowframetitlemask}{}%
3893       \pgfuse path{fill}%
3894     \end{pgf scope}%
3895   \end{pgf picture}%
3896   \end{beamer colorbox}%
3897   \vskip-9.15ex%
3898   \if@RTL
3899     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3900       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3901     \else
3902     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3903       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3904     \fi
3905     \usebeamerfont{title in head/foot}\insertshorttitle
3906   \end{beamer colorbox}
3907   \if@RTL
3908     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3909       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3910     \else
3911     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3912       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3913     \fi
3914     \usebeamerfont{section in head/foot}%
3915     \hskip6pt\insertsectionhead
3916   \end{beamer colorbox}
3917   \if@RTL
3918     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3919       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3920     \else
3921     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3922       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3923     \fi
3924     \usebeamerfont{subsection in head/foot}%
3925     \hskip12pt\insertsubsectionhead
3926   \end{beamer colorbox}
3927   \vskip-0.4ex%
3928 }
3929

```





```

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

```

## 42 File beamerouterthemetree-xetex-bidi.def

```

3973 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3974 \bidi@csundef{beamer@tmpop@headline@tree theme}
3975
3976 \defbeamertemplate*{headline}{tree theme}
3977 {%
3978   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3979   \end{beamercolorbox}
3980   \if@RTL

```



```

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

```

## 43 File beamerthemeHannover-xetex-bidi.def



```

4032 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beam
4033 \AtBeginDocument{%
4034   \if@RTLmain
4035     \setbeamertemplate{frametitle}[default][left]%
4036   \else
4037     \setbeamertemplate{frametitle}[default][right]%
4038   \fi
4039 }
4040
4041

```

## 44 File beamerthemeSingapore-xetex-bidi.def

```

4042 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for bea
4043 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{ }
4044
4045 \beamertemplatedotitem
4046
4047 \AtBeginDocument{%
4048   \setbeamertemplate{frametitle}[default][center]%
4049 }
4050
4051

```

## 45 File bidi.sty

```

4052 \NeedsTeXFormat{LaTeX2e}
4053 \def\bidiidate{2025/09/20}
4054 \def\bidi@version{25.09.20}
4055 \def\bidi@releasename{Iran}
4056 \newcommand*{\bidi@releasename}{\bidi@releasename}
4057 \ProvidesPackage{bidi}[\bidiidate\space v\bidi@version\space (Release \bidi@releasename)\spa
4058 Bidirectional typesetting in plain TeX and LaTeX]
4059 \newif\if@bidi@banner
4060 \newif\if@bidi@pdfbanner
4061 \newif\iffootdir@debug
4062 \newif\if@extrafootnotefeatures
4063 \newif\if@nonlatin
4064 \newif\if@bidi@pdfm@mark
4065 \newif\if@bidi@perpage@footnote
4066 \ExplSyntaxOn
4067 \msg_new:nnn {bidi} {cannot-use-engine}
4068 {
4069   Oops!~can~not~use~\c_sys_engine_str.\\\
4070   The~bidi~package~requires~XeTeX.
4071 }
4072 \sys_if_engine_xetex:F
4073 {
4074   \msg_fatal:nn {bidi} {cannot-use-engine}
4075 }
4076
4077 \keys_define:nn { bidi }
4078 {
4079   banner .choice: ,

```



```

4080     banner / on .code:n = \@bidi@bannertrue ,
4081     banner / off .code:n = \@bidi@bannerfalse ,
4082     banner .default:n = on
4083 }
4084 \keys_define:nn { bidi }
4085 {
4086     PDFbanner .choice: ,
4087     PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4088     PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4089     PDFbanner .default:n = on
4090 }
4091 \keys_define:nn { bidi }
4092 {
4093     RTLdocument .choice: ,
4094     RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4095     RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4096     RTLdocument .default:n = on
4097 }
4098 \keys_define:nn { bidi }
4099 {
4100     rldocument .choice: ,
4101     rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4102     rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4103     rldocument .default:n = on
4104 }
4105 \keys_define:nn { bidi }
4106 {
4107     documentdirection .choice: ,
4108     documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4109     documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4110 }
4111 \keys_define:nn { bidi }
4112 {
4113     tabledirection .choice: ,
4114     tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4115     tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4116 }
4117 \keys_define:nn { bidi }
4118 {
4119     footnotedirection .choice: ,
4120     footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4121     footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4122 }
4123 \keys_define:nn { bidi }
4124 {
4125     debugfootnotedirection .choice: ,
4126     debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4127     debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4128     debugfootnotedirection .default:n = on
4129 }
4130 \keys_define:nn { bidi }
4131 {
4132     footnoterule .choice: ,
4133     footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,

```



```

4134     footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4135     footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4136     footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4137     footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4138 }
4139 \keys_define:nn { bidi }
4140 {
4141     extrafootnotefeatures .choice: ,
4142     extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4143     extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4144     extrafootnotefeatures .default:n = on
4145 }
4146 \keys_define:nn { bidi }
4147 {
4148     script .choice: ,
4149     script / latin .code:n = \@nonlatinfalse ,
4150     script / nonlatin .code:n = \@nonlatintrue ,
4151     script .default:n = latin
4152 }
4153 \keys_define:nn { bidi }
4154 {
4155     DetectColumn .choice: ,
4156     DetectColumn / on .code:n =
4157         \def\bidi@firstcolumn@status@write{%
4158             \protected@write\@auxout{%
4159                 {\string\bidi@column@status
4160                     {1}}}
4161         \def\bidi@lastcolumn@status@write{%
4162             \protected@write\@auxout{%
4163                 {\string\bidi@column@status{2}}} ,
4164     DetectColumn / off .code:n =
4165         \let\bidi@firstcolumn@status@write\relax
4166         \let\bidi@lastcolumn@status@write\relax ,
4167     DetectColumn .default:n = on
4168 }
4169 \keys_define:nn { bidi }
4170 {
4171     logo .choice: ,
4172     logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4173     logo / off .code:n = \AtEndOfPackage{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4174     logo .default:n = on
4175 }
4176 \keys_define:nn { bidi }
4177 {
4178     pdfinfo .choice: ,
4179     pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4180     pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4181     pdfinfo .default:n = on
4182 }
4183 % The 'perpagefootnote' option is documented in UK TeX FAQ at
4184 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4185 \keys_define:nn { bidi }
4186 {
4187     perpagefootnote .choice: ,

```



```

4188     perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4189     perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4190     perpagefootnote .default:n = on
4191   }
4192 \keys_set:nn { bidi }
4193   {
4194     banner = on ,
4195     PDFbanner = on ,
4196     DetectColumn = off
4197   }
4198 }
4199 \ExplSyntaxOff
4200 \ProcessKeyOptions
4201 \edef\@bidi@info{*****^J%
4202 * ^^J%
4203 * bidi package (Bidirectional typesetting with^^J%
4204 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)^J%
4205 * ^^J%
4206 * Description: A convenient interface for^^J%
4207 * typesetting bidirectional texts in plain TeX^^J%
4208 * and LaTeX. The package includes adaptations^^J%
4209 * for use with many other commonly-used packages.^J%
4210 * ^^J%
4211 * Copyright (c) 2007--2025 Vafa Khalighi^^J%
4212 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4213 * ^^J%
4214 * v\bidi@version\space (Release \bidi@releasename), \bidi@date^^J%
4215 * ^^J%
4216 * License: LaTeX Project Public License, version^^J%
4217 * 1.3c or higher (your choice)^J%
4218 * ^^J%
4219 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4220 * ^^J%
4221 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4222 * ^^J%
4223 * Primary author of bidi package: Vafa Khalighi.^J%
4224 * ^^J%
4225 *****}
4226 \edef\bidi@everyjob{\the\everyjob}
4227 \if@bidi@banner
4228   \typeout{\@bidi@info}
4229   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4230 \fi
4231 \newcommand*\bidiversion{\ensurerm\bidi@version}
4232 \RequirePackage{biditools}
4233 \RequirePackage{zref-abspage}
4234 \RequirePackage{auxhook}
4235 \RequirePackage{ltxcmds}
4236 \eqnewif{\if@RTLmain}{\if@rlmain}
4237 \eqnewif{\if@RTL}{\if@rl}
4238 \newcommand*\setlatin{\@nonlatinfalse}
4239 \newcommand*\setnonlatin{\@nonlatintrue}
4240 \eqnewif{\if@RTLtab}{\if@tab@rl}
4241 \newif\if@hboxRconstruct

```



```

4242 \newif\if@bidi@pdfencrypt
4243 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4244 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4245 \newif\if@RTLmarginpar
4246 \newif\if@LTRmarginpar
4247 \newif\if@LTRbibitems
4248 \newif\if@RTLbibitems
4249 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4250 \newif\if@bidi@list@minipage@parbox
4251 \newif\if@bidi@list@minipage@parbox@not@nob
4252 \newcommand*{\@bidi@pdfcreator}{%
4253   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4254 }
4255 \newcommand*{\@bidi@pdfproducer}{%
4256   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4257 }
4258 \newcommand*{\@bidi@pdfcustomproperties}{%
4259   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4260   Released September 20, 2025.
4261 }
4262 \newcommand*{\bidi@beamer@ragged}{%}
4263 \@RTLmainfalse
4264 \AtBeginDocument{%
4265   \if@RTLmain\else
4266     \if@RTL\@RTLmaintrue%
4267     \else\@RTLmainfalse%
4268     \fi%
4269   \fi%
4270 }
4271 \let\n@xt=\
4272 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4273 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4274 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4275 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4276 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4277   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4278 \newinsert\@bidi@copyins@
4279 \skip\@bidi@copyins@=12\p@
4280 \dimen\@bidi@copyins@=40pc
4281 \count\@bidi@copyins@=1000
4282 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4283 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4284   \if@RTLmain
4285     \if@twocolumn
4286       \hboxR to \columnwidth
4287     \else
4288       \hboxR to \textwidth
4289     \fi
4290   \else
4291     \if@twocolumn
4292       \hboxL to \columnwidth
4293     \else
4294       \hboxL to \textwidth
4295     \fi

```



```

4296 \fi
4297 }
4298 \newcommand*{\@bidi@logo}[1]{%
4299 \toks@{%
4300 \setbox\z@\hbox{%
4301 \special{%
4302 pdf:image width 50pt height 50pt (#1)%
4303 }
4304 }%
4305 \dp\z@\z@
4306 \ht\z@=50pt
4307 \wd\z@=50pt
4308 \beginL
4309 \lower20pt\box\z@
4310 \endL
4311 }%
4312 \the\toks@
4313 }
4314 \newcount\bidi@typesethour
4315 \newcount\bidi@typesetminute
4316 \bidi@typesethour=\time
4317 \divide\bidi@typesethour 60
4318 \bidi@typesetminute=-\bidi@typesethour
4319 \multiply\bidi@typesetminute 60
4320 \advance\bidi@typesetminute \time
4321 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4322 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4323 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4324 \newcommand*{\@bidi@logo@}{%
4325 \@bidi@logo@hb@xt@columnwidth
4326 {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4327 package\quad\@bidi@logo{bidi-logo.pdf}}}}
4328 \ExplSyntaxOn
4329 \keys_define:nn { bidi / pdfencrypt }
4330 {
4331 userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4332 userpassword .default:n =
4333 }
4334 \keys_define:nn { bidi / pdfencrypt }
4335 {
4336 ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4337 ownerpassword .default:n =
4338 }
4339 \keys_define:nn { bidi / pdfencrypt }
4340 {
4341 keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4342 keylength .default:n = 128
4343 }
4344 \keys_define:nn { bidi / pdfencrypt }
4345 {
4346 permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4347 permissionflags .default:n = 2052
4348 }
4349 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }

```





```

4350 \ExplSyntaxOff
4351 \@onlypreamble\pdfencryptsetup
4352 \input{latex-xetex-bidi.def}
4353
4354 \pdfencryptsetup{%
4355   userpassword,%
4356   ownerpassword,%
4357   keylength,%
4358   permissionflags%
4359 }
4360
4361 \if@extrafootnotefeatures
4362 \input{extrafootnotefeatures-xetex-bidi.def}
4363 \fi
4364 \newcount\ bidi@digits
4365 \XeTeXinterchartokenstate=\@ne
4366 \newXeTeXintercharclass\ bidi@digits@charclass
4367 \newXeTeXintercharclass\ bidi@sepmark@charclass
4368 \XeTeXcharclass \. \ bidi@sepmark@charclass
4369 \XeTeXcharclass \- \ bidi@sepmark@charclass
4370 \ bidi@digits=\0 \loop \XeTeXcharclass \ bidi@digits \ bidi@digits@charclass \ifnum\ bidi@digits<10\relax
4371 \ bidi@digits=\ \loop \XeTeXcharclass \ bidi@digits \ bidi@digits@charclass \ifnum\ bidi@digits<256\relax
4372 \ bidi@digits=\ \loop \XeTeXcharclass \ bidi@digits \ bidi@digits@charclass \ifnum\ bidi@digits<65536\relax
4373 \XeTeXinterchartoks \ bidi@sepmark@charclass \ bidi@digits@charclass = {\DigitsDotDashInterCharToks}
4374 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4375 \ bidi@AtEndPreamble{%
4376   \if@bidi@perpage@footnote
4377     \RequirePackage{bidi-perpage}%
4378     \ResetCounterPerPage{footnote}%
4379   \fi
4380   \ifx\ bidi@pdfencrypt@ownerpassword\ bidi@empty
4381     \ifx\ bidi@pdfencrypt@userpassword\ bidi@empty
4382       \@bidi@pdfencryptfalse
4383     \else
4384       \@bidi@pdfencrypttrue
4385     \fi
4386   \else
4387     \@bidi@pdfencrypttrue
4388   \fi
4389   \if@bidi@pdfencrypt
4390     \special{pdf:encrypt
4391       userpw (\ bidi@pdfencrypt@userpassword)
4392       ownerpw (\ bidi@pdfencrypt@ownerpassword)
4393       length \ bidi@pdfencrypt@keylength
4394       perm \ bidi@pdfencrypt@permissionflags
4395     }%
4396   \fi
4397 }
4398 \if@bidi@pdfbanner
4399 \if@bidi@pdfm@mark
4400 \AtEndDocument{%
4401 \special{pdf:
4402 docinfo<<%
4403 /Creator(\@bidi@pdfcreator)%

```



```

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

```

## 46 File bidi.tex

```

4436 \def\biddate{2025/09/20}
4437 \catcode`\@=11
4438 \def\bidi@version{25.09.20}
4439 \def\bidi@releasename{Iran}
4440 \def\bidi@releasename{\bidi@releasename}
4441 \let \protect \relax
4442 \newlinechar`\^^J
4443 \edef\@bidi@info{*****~J%
4444 * ~J%
4445 * bidi package (Bidirectional typesetting with~J%
4446 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4447 * ~J%
4448 * Description: A convenient interface for~J%
4449 * typesetting bidirectional texts in plain TeX~J%
4450 * and LaTeX. The package includes adaptations~J%
4451 * for use with many other commonly-used packages.~J%
4452 * ~J%
4453 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4454 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%

```



```

4455 * ^^J%
4456 * v\bid@version\space (Release \bid@releasename), \bid@date^^J%
4457 * ^^J%
4458 * License: LaTeX Project Public License, version^^J%
4459 * 1.3c or higher (your choice)^^J%
4460 * ^^J%
4461 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4462 * ^^J%
4463 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4464 * ^^J%
4465 * Primary author of bidi package: Vafa Khalighi.^^J%
4466 * ^^J%
4467 *****}
4468 \edef\bid@everyjob{\the\everyjob}
4469 \message{\@bid@info}
4470 \everyjob{\bid@everyjob\message{\@bid@info}}
4471 \def\bid@version{%
4472   \relax
4473   \ifmmode
4474     \bid@version
4475   \else
4476     $\bid@version$
4477   \fi
4478 }
4479 \input iftex.sty
4480 \RequireXeTeX
4481 \newif\if@bid@pdfm@mark
4482 \newif\if@RTLmain
4483 \newif\if@RTL
4484 \newif\if@hboxRconstruct
4485 \newif\if@sentdir
4486 \newif\if@RTL@footnote
4487 \@RTLmainfalse
4488 \def\setRTLmain{%
4489   \if@RTLmain\else
4490     \if@RTL\@RTLmaintrue%
4491     \else\@RTLmainfalse%
4492     \fi%
4493   \fi%
4494 }
4495 \let\n@xt=\
4496 \protected\def\LRE{\protect\pLRE}%
4497 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4498 \protected\def\RLE{\protect\pRLE}
4499 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4500 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4501   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4502 \newinsert\@bid@copyins@
4503 \skip\@bid@copyins@=12p@
4504 \dimen\@bid@copyins@=40pc
4505 \count\@bid@copyins@=1000
4506 \def\@bid@inslogo@{\insert\@bid@copyins@{\@bid@logo@}}
4507 \def\@bid@logo@hb@xt@{%
4508   \if@RTLmain

```



```

4509 \hboxR to
4510 \else
4511 \hboxL to
4512 \fi
4513 }
4514 \def\@bidi@logo#1{%
4515 \toks@{%
4516 \setbox\z@\hbox{%
4517 \special{%
4518 pdf:image width 50pt height 50pt (#1)%
4519 }
4520 }%
4521 \dp\z@\z@
4522 \ht\z@=50pt
4523 \wd\z@=50pt
4524 \beginL
4525 \lower20pt\box\z@
4526 \endL
4527 }%
4528 \the\toks@
4529 }
4530 \def\today{\ifcase\month\or
4531 January\or February\or March\or April\or May\or June\or
4532 July\or August\or September\or October\or November\or December\fi
4533 \space\number\day, \number\year}
4534 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4535 \newcount\bidi@typesethour
4536 \newcount\bidi@typesetminute
4537 \bidi@typesethour=\time
4538 \divide\bidi@typesethour 60
4539 \bidi@typesetminute=-\bidi@typesethour
4540 \multiply\bidi@typesetminute 60
4541 \advance\bidi@typesetminute \time
4542 \def\TypesetHour{\two@digits\bidi@typesethour}
4543 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4544 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4545 \def\@bidi@logo@{\@bidi@logo@hb@xt@hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} b
4546 \def\bidilogo{\@bidi@inslogo@}
4547 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4548 \def\@bidi@pdfcreator{%
4549 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4550 }
4551 \def\@bidi@pdfproducer{%
4552 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4553 }
4554 \def\@bidi@pdfcustomproperties{%
4555 This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4556 Released September 20, 2025.
4557 }
4558 \def\bidi@pdfm@mark{%
4559 \special{pdf:
4560 docinfo<<%
4561 \if\@bidi@pdfm@mark
4562 /Creator(\@bidi@pdfcreator)%

```



```

4563      /Producer(\@bidi@pdfproducer)%
4564      \fi
4565      /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4566      >>%
4567      }%
4568 }
4569 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4570 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4571 \input plain-xetex-bidi.def
4572 \outer\def\bye{\bidi@pdfm@mark\par\vfill\supereject\end}
4573 \catcode`\@=12
4574 \bidipdfinfoon

```

## 47 File bidi2in1.sty

```

4575 \NeedsTeXFormat{LaTeX2e}
4576 \ProvidesPackage{bidi2in1}
4577 \pagestyle{plain}
4578 \newcount\evenpage
4579 \newcount\oddpager
4580 \twocolumn
4581 \def\@oddfoot{\evenpage=\thepage%
4582 \multiply\evenpage by 2%
4583 \oddpager=\thepage%
4584 \advance\oddpager by -1%
4585 \hfil\thepage\hfil\thepage\hfil}%
4586 \def\@evenfoot{\evenpage=\thepage%
4587 \multiply\evenpage by 2%
4588 \oddpager=\thepage%
4589 \advance\oddpager by -1%
4590 \hfil\thepage\hfil\thepage\hfil}%
4591 \textwidth 9.49in
4592 \textheight 6.7in
4593 \columnsep 0.9in
4594 \columnseprule 0.125pt
4595 \headheight 0cm
4596 \topmargin 0in
4597 \marginparwidth 0in
4598 \marginparsep 0in
4599 \hoffset 0.05in % Corrected
4600 \voffset -0.5in %top margin space is 1.0in by default
4601 \oddsidemargin 0in
4602 \evensidemargin 0in
4603 \headsep 0cm
4604 \topskip 0cm
4605 \parskip 0.15in %
4606 \headsep 0pt
4607 \special{papersize=11.69in,8.26in}
4608 \renewcommand\maketitle{\par
4609 \begingroup
4610 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4611 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4612 \long\def\@makefntext##1{\parindent 1em\noindent
4613 \hb@xt@1.8em{

```



```

4614 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4615 \@maketitle
4616 \@thanks
4617 \endgroup
4618 \setcounter{footnote}{0}%
4619 \global\let\thanks\relax
4620 \global\let\maketitle\relax
4621 \global\let\@maketitle\relax
4622 \global\let\@thanks\@empty
4623 \global\let\@author\@empty
4624 \global\let\@date\@empty
4625 \global\let\@title\@empty
4626 \global\let\title\relax
4627 \global\let\author\relax
4628 \global\let\date\relax
4629 \global\let\and\relax
4630 }

```

## 48 File `bidicode.sty`

```

4631 \NeedsTeXFormat{LaTeX2e}
4632 \ProvidesPackage{bidicode}
4633 \RequirePackage{xcolor}
4634 \RequirePackage{showexpl}
4635 \definecolor{hellgelb}{rgb}{1,1,0.85}
4636 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4637 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4638 \definecolor{colIdentifier}{rgb}{0,0,0}
4639 \definecolor{colComments}{rgb}{1,0,0}
4640 \definecolor{colString}{rgb}{0,0.5,0}
4641 \lstset{%
4642     language=[LaTeX]TeX,%
4643     float=hbp,%
4644     basicstyle=\ttfamily\small,%
4645     identifierstyle=\color{colIdentifier},%
4646     keywordstyle=\color{colKeys},%
4647     texcsstyle=\color{colCS},%
4648     stringstyle=\color{colString},%
4649     commentstyle=\color{colComments},%
4650     backgroundcolor=\color{hellgelb},%
4651     columns=flexible,%
4652     tabsize=4,%
4653     extendedchars=true,%
4654     showspace=false,%
4655     showstringspaces=false,%
4656     numbers=left,%
4657     numbersep=0.9em,%
4658     numberstyle=\tiny,%
4659     frame=single,%
4660     captionpos=b,%
4661     xleftmargin=1em,%
4662     breaklines=true,%
4663     breakautoindent=false,%
4664     breakindent=0pt,%

```



```

4665     escapeinside=**,%
4666     pos=r,%
4667     explpreset={%
4668         xleftmargin=1em,%
4669         columns=flexible,%
4670         language=[LaTeX]TeX%
4671     },%
4672     moretexcs={%
4673         bididate,%
4674         bidiversion,%
4675         deflatinfont,%
4676         defpersianfont,%
4677         ding,%
4678         endLTR,%
4679         endRTL,%
4680         false,%
4681         falsesymbol,%
4682         junicode,%
4683         lr,%
4684         LR,%
4685         LRE,%
4686         LTR,%
4687         maketitle,%
4688         Nastaliq,%
4689         newfontfamily,%
4690         Parsifont,%
4691         part,%
4692         RL,%
4693         RLE,%
4694         RTL,%
4695         RTLcases,%
4696         SepMark,%
4697         setLR,%
4698         setLTR,%
4699         setRL,%
4700         setRTL,%
4701         settextfont,%
4702         subsection,%
4703         subsubsection,%
4704         tableofcontents,%
4705         text,%
4706         theequation,%
4707         thesection,%
4708         true,%
4709         truesymbol,%
4710         XePersian,%
4711         xepersiandate,%
4712         xepersianversion%
4713     }%
4714 }
4715 \newcommand\HLON{%
4716     \gdef\lst@alloverstyle##1{%
4717         \fboxrule=0pt
4718         \fboxsep=0pt

```



```

4719 \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4720 }}
4721 \newcommand\HLOFF{%
4722 \xdef\lst@alloverstyle##1{##1}%
4723 }
4724 \newcommand\Larg [1]{\normalfont\itshape#1/}
4725 \newcommand\Larga[1]{\angle$\Larg{#1}$\rangle$}
4726 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4727 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4728 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4729 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}
4730 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}
4731
4732 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4733 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4734 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`\}}
4735 \DeclareRobustCommand\lsb{\normalfont\ttfamily[]}
4736 \DeclareRobustCommand\rsb{\normalfont\ttfamily[]}}
4737 \DeclareRobustCommand\lrb{\normalfont\ttfamily{}}
4738 \DeclareRobustCommand\rrb{\normalfont\ttfamily{}}
4739
4740 \def\Lcs#1{\nxLcs{#1}}
4741 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4742 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4743
4744 \def\Coordx#1{$x_{#1}$}
4745 \def\Coordy#1{$y_{#1}$}
4746 \def\Coordz#1{$z_{#1}$}
4747 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4748 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4749 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4750 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4751 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4752 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4753 \def\coordin{(\Coordx{n},\kern 1pt\Coordy{n})}
4754 \def\coordi#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4755 \def\coordx#1{($x_{#1}$)}
4756 \def\coordy#1{($y_{#1}$)}
4757 \def\coordz#1{($z_{#1}$)}
4758 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4759 \def\ciiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4760
4761 \newsavebox{\boxdef}
4762 \newenvironment{BDef}
4763 {\begin{lrbox}\boxdef
4764 \def\arraystretch{1.0}
4765 \begin{tabular}{@{}l@{}l@{}l@{}}
4766 }
4767 {\end{tabular}\end{lrbox}}
4768
4769 {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4770 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4771 }
4772

```





```

4773 \newenvironment{BDef*}
4774   {\begin{lrbox}\boxdef
4775     \def\arraystretch{1.0}
4776     \begin{tabular}{@{}l@{}l@{}l@{}}
4777   }
4778   {\end{tabular}\end{lrbox}
4779   {\begin{BCmd*}\fbox{\usebox\boxdef}\end{BCmd*}}
4780   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4781 }
4782 \newenvironment{BCmd*}{
4783   \@beginparpenalty-\@lowpenalty
4784   \topsep\BDefaboveskip
4785   \fboxsep3pt
4786   \flushleft}
4787 {\@endparpenalty\@M
4788  \topsepadd\BDefbelowskip
4789  \endflushleft}
4790
4791 \newenvironment{BCmd*}{
4792   \@beginparpenalty\@M
4793   \topsep\BDefinlineskip
4794   \fboxsep3pt
4795   \flushleft}
4796 {\@endparpenalty5000
4797  \endflushleft}
4798
4799 \newskip\BDefaboveskip
4800 \newskip\BDefbelowskip
4801 \newskip\BDefinlineskip
4802 \setlength\BDefaboveskip{10pt plus 4pt}
4803 \setlength\BDefbelowskip{6pt}
4804 \setlength\BDefinlineskip{6pt}
4805
4806 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4807 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
4808 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4809 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 49 File bidiftnxtra.sty

```

4810 \NeedsTeXFormat{LaTeX2e}
4811 \ProvidesPackage{bidiftnxtra}
4812 \newtoks\bidip@ftn
4813 \let\FN@sff@footnote\footnote
4814 \let\FN@sff@LTRfootnote\LTRfootnote
4815 \let\FN@sff@RTLfootnote\RTLfootnote
4816 \def\footnote{\ifx\protect\@typeset@protect
4817   \expandafter\FN@sff@footnote
4818   \else
4819     \expandafter\FN@sff@gobble@opt
4820   \fi
4821 }
4822 \def\LTRfootnote{\ifx\protect\@typeset@protect
4823   \expandafter\FN@sff@LTRfootnote

```



```

4824 \else
4825 \expandafter\FN@sfgobble@opt
4826 \fi
4827 }
4828 \def\RTLfootnotef{\ifx\protect\@typeset@protect
4829 \expandafter\FN@sfgobble@RTLfootnote
4830 \else
4831 \expandafter\FN@sfgobble@opt
4832 \fi
4833 }
4834 \edef\FN@sfgobble@opt{\noexpand\protect
4835 \expandafter\noexpand\csname FN@sfgobble@opt \endcsname}
4836 \expandafter\def\csname FN@sfgobble@opt \endcsname{%
4837 \@ifnextchar [%]
4838 \FN@sfgobble@twobrace
4839 \@gobble
4840 }
4841 \def\FN@sfgobble@twobrace[#1]#2{}
4842 \let\FN@sfgobble@footnotemark\footnotemark
4843 \def\footnotemark{\ifx\protect\@typeset@protect
4844 \expandafter\FN@sfgobble@footnotemark
4845 \else
4846 \expandafter\FN@sfgobble@optonly
4847 \fi
4848 }
4849 \edef\FN@sfgobble@optonly{\noexpand\protect
4850 \expandafter\noexpand\csname FN@sfgobble@optonly \endcsname}
4851 \expandafter\def\csname FN@sfgobble@optonly \endcsname{%
4852 \@ifnextchar [%]
4853 \FN@sfgobble@brace
4854 {}%
4855 }
4856 \def\FN@sfgobble@brace[#1]{}
4857 \def\@tabular{%
4858 \leavevmode \hbox \bgroup
4859 \let\@footnotetext\bidip@ftntext
4860 \let\@LTRfootnotetext\bidip@LTRftntext
4861 \let\@RTLfootnotetext\bidip@RTLftntext
4862 \let\@xfootnotenext\bidip@xftntext
4863 \let\@xfootnote\bidip@xfootnote
4864 \let\@xLTRfootnotenext\bidip@xLTRftntext
4865 \let\@xLTRfootnote\bidip@xLTRfootnote
4866 \let\@xRTLfootnotenext\bidip@xRTLftntext
4867 \let\@xRTLfootnote\bidip@xRTLfootnote
4868 \if@RTLtab\beginR \fi
4869 $\let\@acol\@tabacol
4870 \let\@classz\@tabclassz
4871 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4872 \def\endtabular{\crr\egroup\if@RTLtab\endR\egroup\fi
4873 \egroup $\if@RTLtab\endR\fi\egroup
4874 \ifx\@captive\undefined
4875 \global\bidip@ftn\expandafter{\expandafter}\the\bidip@ftn\fi}
4876 \long\def\bidip@ftntext#1{%
4877 \edef\@tempy{\the\bidip@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%

```



```

4878 \global\bidip@ftn\expandafter{\@tempy{#1}}}%
4879 \long\def\bidip@LTRftntext#1{%
4880 \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}%
4881 \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4882 \long\def\bidip@RTLftntext#1{%
4883 \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}%
4884 \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4885
4886
4887 \long\def\bidip@xftntext[#1]#2{%
4888 \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4889
4890 \long\def\bidip@xLTRftntext[#1]#2{%
4891 \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4892
4893 \long\def\bidip@xRTLftntext[#1]#2{%
4894 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4895
4896
4897 \def\bidip@xfootnote[#1]{%
4898 \begingroup
4899 \csname c@\mpfn\endcsname #1\relax
4900 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4901 \endgroup
4902 \@footnotemark\bidip@xftntext[#1]}
4903
4904
4905 \def\bidip@xLTRfootnote[#1]{%
4906 \begingroup
4907 \csname c@\mpfn\endcsname #1\relax
4908 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4909 \endgroup
4910 \@footnotemark\bidip@xLTRftntext[#1]}
4911
4912
4913 \def\bidip@xRTLfootnote[#1]{%
4914 \begingroup
4915 \csname c@\mpfn\endcsname #1\relax
4916 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4917 \endgroup
4918 \@footnotemark\bidip@xRTLftntext[#1]}
4919
4920 \def\@xfloat #1[#2]{%
4921 \@nodocument
4922 \def \@captive {#1}%
4923 \def \@fps {#2}%
4924 \@onelevel@sanitize \@fps
4925 \def \reserved@b {!}%
4926 \ifx \reserved@b \@fps
4927 \@fpsadddefault
4928 \else
4929 \ifx \@fps \@empty
4930 \@fpsadddefault
4931 \fi

```



```

4932 \fi
4933 \ifhmode
4934 \@bsphack
4935 \@floatpenalty -\@Mii
4936 \else
4937 \@floatpenalty-\@Miii
4938 \fi
4939 \ifinner
4940 \@parmoderr\@floatpenalty\z@
4941 \else
4942 \@next\@currbox\@freelist
4943 {%
4944 \@tempcnta \sixt@@n
4945 \expandafter \@tfor \expandafter \reserved@a
4946 \expandafter :\expandafter =\@fps
4947 \do
4948 {%
4949 \if \reserved@a h%
4950 \ifodd \@tempcnta
4951 \else
4952 \advance \@tempcnta \@ne
4953 \fi
4954 \fi
4955 \if \reserved@a t%
4956 \@setfpsbit \tw@
4957 \fi
4958 \if \reserved@a b%
4959 \@setfpsbit 4%
4960 \fi
4961 \if \reserved@a p%
4962 \@setfpsbit 8%
4963 \fi
4964 \if \reserved@a !%
4965 \ifnum \@tempcnta>15
4966 \advance\@tempcnta -\sixt@@n\relax
4967 \fi
4968 \fi
4969 }%
4970 \@tempcntb \csname ftype@\@capytype \endcsname
4971 \multiply \@tempcntb \@xxxii
4972 \advance \@tempcnta \@tempcntb
4973 \global \count\@currbox \@tempcnta
4974 }%
4975 \@fltovf
4976 \fi
4977 \global \setbox\@currbox
4978 \color@vbox
4979 \normalcolor
4980 \vbox \bgroup
4981 \let\@footnotetext\@bidi@p@ftntext
4982 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4983 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4984 \let\@xfootnotenext\@bidi@p@xftntext
4985 \let\@xfootnote\@bidi@p@xfootnote

```



```

4986 \let\@xLTRfootnotenext\@xLTRftntext
4987 \let\@xLTRfootnote\@xLTRfootnote
4988 \let\@xRTLfootnotenext\@xRTLftntext
4989 \let\@xRTLfootnote\@xRTLfootnote
4990 \hsize\columnwidth
4991 \@parboxrestore
4992 \@floatboxreset
4993 }
4994 \def \endfloatbox{%
4995 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
4996 \minipagefalse
4997 \outer@nobreak
4998 \egroup %% end of vbox
4999 \global\@xL@ftn\expandafter{\expandafter}\the\@xL@ftn
5000 \color@endbox
5001 }

```

## 50 File bidimoderncv.cls

```

5002 \NeedsTeXFormat{LaTeX2e}
5003 \ProvidesClass{bidimoderncv}
5004 \newif\if@DEBUG\@DEBUGfalse
5005 \DeclareOption{a4paper}{
5006 \setlength\paperheight{297mm}
5007 \setlength\paperwidth{210mm}}
5008 \DeclareOption{a5paper}{
5009 \setlength\paperheight{210mm}
5010 \setlength\paperwidth{148mm}}
5011 \DeclareOption{b5paper}{
5012 \setlength\paperheight{250mm}
5013 \setlength\paperwidth{176mm}}
5014 \DeclareOption{letterpaper}{
5015 \setlength\paperheight{11in}
5016 \setlength\paperwidth{8.5in}}
5017 \DeclareOption{legalpaper}{
5018 \setlength\paperheight{14in}
5019 \setlength\paperwidth{8.5in}}
5020 \DeclareOption{executivepaper}{
5021 \setlength\paperheight{10.5in}
5022 \setlength\paperwidth{7.25in}}
5023 \DeclareOption{landscape}{
5024 \setlength\@tempdima{\paperheight}
5025 \setlength\paperheight{\paperwidth}
5026 \setlength\paperwidth{\@tempdima}}
5027 \newcommand\@ptsize{}
5028 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5029 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5030 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5031 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5032 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5033 \newif\if@colour\@colourtrue
5034 \DeclareOption{nocolour}{\@colourfalse}
5035 \ExecuteOptions{a4paper,11pt,colour,final}
5036 \ProcessOptions\relax

```



```

5037 \input{size1\@ptsize.clo}
5038 \RequirePackage{color}
5039 \RequirePackage{graphicx}
5040 \RequirePackage{ifthen}
5041 \RequirePackage{marvosym}
5042 \addtolength{\oddsidemargin}{-54pt}
5043 \addtolength{\textwidth}{109pt}
5044 \addtolength{\topmargin}{-70pt}
5045 \addtolength{\textheight}{122pt}
5046 \addtolength{\marginparsep}{-5pt}
5047 \addtolength{\marginparwidth}{-10pt}
5048 \RequirePackage{url}
5049 \RequirePackage{hyperref}
5050 \hypersetup{%
5051   breaklinks,
5052   baseurl      = http://,%
5053   pdfborder    = 0 0 0,%
5054   pdfpagemode  = UseNone,%
5055   pdfstartpage = 1}
5056 \AtEndOfClass{%
5057   \AtBeginDocument{%
5058     \hypersetup{%
5059       pdfauthor    = \@firstname~\@familyname,%
5060       pdftitle     = \@title,%
5061       pdfsubject   = \@firstname~\@familyname,%
5062       pdfkeywords  = \@resumename~\@firstname~\@familyname}}}
5063 \urlstyle{tt}
5064 \RequirePackage{fancyhdr}
5065 \fancypagestyle{plain}{%
5066   \renewcommand{\headrulewidth}{0pt}
5067   \renewcommand{\footrulewidth}{0pt}
5068   \fancyhf{}}
5069 \pagestyle{plain}
5070 \setlength\lineskip{1\p@}
5071 \setlength\normallineskip{1\p@}
5072 \renewcommand\baselinestretch{}
5073 \setlength{\parindent}{0pt}
5074 \setlength{\parskip}{0pt}
5075 \setlength\columnsep{10\p@}
5076 \setlength\columnseprule{0\p@}
5077 \pagestyle{empty}
5078 \pagenumbering{arabic}
5079 \raggedbottom
5080 \onecolumn
5081 \providecommand*\listitemsymbol{\textbullet}
5082 \providecommand*\addresssymbol{}
5083 \providecommand*\mobilesymbol{\Mobilefone}
5084 \providecommand*\phonesymbol{\Telefon}
5085 \providecommand*\faxsymbol{\FAX}
5086 \providecommand*\emailsymbol{\Letter}
5087 \definecolor{firstnamecolour}{rgb}{0,0,0}
5088 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5089 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
5090 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}

```



```

5091 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5092 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5093 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5094 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5095 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5096 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5097 \providecommand*\{firstnamedfont}{\font}
5098 \providecommand*\{familynamedfont}{\font}
5099 \providecommand*\{titledfont}{\font}
5100 \providecommand*\{addressfont}{\font}
5101 \providecommand*\{quoteftfont}{\font}
5102 \providecommand*\{sectionfont}{\font}
5103 \providecommand*\{subsectionfont}{\font}
5104 \providecommand*\{hintfont}{\font}
5105 \providecommand*\{firstnamedstyle}[1]{\font\@firstnamedfont\@firstnamedcolour#1}
5106 \providecommand*\{familynamedstyle}[1]{\font\@familynamedfont\@familynamedcolour#1}
5107 \providecommand*\{titledstyle}[1]{\font\@titledfont\@titledcolour#1}
5108 \providecommand*\{addresstyle}[1]{\font\@addressfont\@addresscolour#1}
5109 \providecommand*\{quotestyle}[1]{\font\@quoteftfont\@quoteftcolour#1}
5110 \providecommand*\{sectionstyle}[1]{\font\@sectionfont\@sectiontitlecolour#1}
5111 \providecommand*\{subsectionstyle}[1]{\font\@subsectionfont\@subsectioncolour#1}
5112 \providecommand*\{hintstyle}[1]{\font\@hintfont\@hintcolour#1}
5113 \newcommand*\{cvtheme}[2][\font]{
5114   \def\@cvtheme{#2}
5115   \def\@cvthemeoptions{#1}
5116   \cvtheme{bidi-casual}
5117 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5118 \newcommand*\{resumename}[1]{\def\@resumename{#1}}
5119 \newcommand*\{firstname}[1]{\def\@firstname{#1}}
5120 \newcommand*\{familyname}[1]{\def\@familyname{#1}}
5121 \renewcommand*\{title}[1]{\def\@title{#1}}
5122 \newcommand*\{address}[1]{\def\@address{#1}}
5123 \newcommand*\{mobile}[1]{\def\@mobile{#1}}
5124 \newcommand*\{phone}[1]{\def\@phone{#1}}
5125 \renewcommand*\{fax}[1]{\def\@fax{#1}}
5126 \newcommand*\{email}[1]{\def\@email{#1}}
5127 \newcommand*\{extrainfo}[1]{\def\@extrainfo{#1}}
5128 \def\@photowidth{0pt}
5129 \newcommand*\{photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5130 \newcommand*\{quote}[1]{\def\@quote{#1}}
5131 \newlength{\quotewidth}
5132 \newlength{\hintscolumnwidth}
5133 \newlength{\separatorcolumnwidth}
5134 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5135 \newlength{\maincolumnwidth}
5136 \newlength{\doubleitemmaincolumnwidth}
5137 \newlength{\listitemsymbolwidth}
5138 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}
5139 \newlength{\listitemmaincolumnwidth}
5140 \newlength{\listdoubleitemmaincolumnwidth}
5141 \newcommand*\{recomputethemelengths}{\font}
5142 \newcommand*\{recomputelengths}{\font}
5143 \setlength{\quotewidth}{0.65\textwidth}%
5144 \setlength{\maincolumnwidth}{\textwidth}%

```



```

5145 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5146 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5147 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5148 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5149 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5150 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5151 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5152 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5153 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5154 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5155 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5156 \renewcommand{\headwidth}{\textwidth}%
5157 \recomputethemelengths}
5158 \setlength{\hintscolumnwidth}{0.15\textwidth}
5159 \recomputelengths
5160 \title{}
5161 \renewcommand*{\maketitle}{}
5162 \newcommand*{\section}[1]{%
5163 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5164 \phantomsection}%
5165 \addcontentsline{toc}{part}{#1}%
5166 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5167 \hspace{\separatorcolumnwidth}%
5168 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\[\[1ex]}
5169 \newcommand*{\subsection}[1]{%
5170 \cvline[0.45em]{\subsectionstyle{#1}}
5171 \newcommand*{\cvline}[3][.25em]{%
5172 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5173 \bidi@raggedleft\hintfont{#2} &{#3}%
5174 \end{tabular}\[\[1]}
5175 \newcommand*{\cvdoubleitem}[4]{%
5176 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5177 \hfill%
5178 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{
5179 \newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
5180 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5181 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
5182 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5183 \hfill%
5184 \ifthenelse{\equal{#3}{}}{
5185 {}%
5186 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
5187 \newcommand*{\cventry}[6]{%
5188 \cvline{#1}{%
5189 {\bfseries#2}%
5190 \ifx#3\else{, {\slshape#3}}\fi%
5191 \ifx#4\else{, #4}\fi%
5192 \ifx#5\else{, #5}\fi%
5193 .%
5194 \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5195 }%
5196 \newcommand*{\cvlanguage}[3]{%
5197 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{
5198 \newcommand*{\cvcomputer}[4]{%

```





```

5199 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5200 \newcommand*{\link}[2] [] {%
5201 \ifthenelse{\equal{#1}{}}{%
5202 {\href{#2}{#2}}%
5203 {\href{#2}{#1}}}
5204 \newcommand*{\httplink}[2] [] {%
5205 \ifthenelse{\equal{#1}{}}{%
5206 {\href{http://#2}{#2}}%
5207 {\href{http://#2}{#1}}}
5208 \newcommand*{\emaillink}[2] [] {%
5209 \ifthenelse{\equal{#1}{}}{%
5210 {\href{mailto:#2}{#2}}%
5211 {\href{mailto:#2}{#1}}}
5212 \newif\if@displaypagenumbers\@displaypagenumberstrue
5213 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5214 \AtBeginDocument{%
5215 \if@displaypagenumbers%
5216 \ifundefined{r@lastpage}{\fi}%
5217 \ifthenelse{\pageref{lastpage} > 1}{%
5218 \fancypagestyle{plain}{%
5219 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL\endL\pa
5220 \pagestyle{plain}}}%}%
5221 \AtEndDocument{\label{lastpage}}%
5222 \fi}
5223 \newlength{\bibindent}
5224 \setlength{\bibindent}{1.5em}
5225 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5226 \newenvironment{thebibliography}[1]%
5227 {%
5228 \section{\refname}%
5229 \small%
5230 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5231 \bidi@thebibliography@font@hook%
5232 \begin{list}{\bibliographyitemlabel}%
5233 {%
5234 \setlength{\topsep}{0pt}%
5235 \setlength{\labelwidth}{\hintscolumnwidth}%
5236 \setlength{\labelsep}{\separatorcolumnwidth}%
5237 \leftmargin\labelwidth%
5238 \advance\leftmargin\labelsep%
5239 \@openbib@code%
5240 \usecounter{enumiv}%
5241 \let\p@enumiv\@empty%
5242 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5243 \sloppy\clubpenalty4000\widowpenalty4000
5244 }%
5245 {%
5246 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5247 \end{list}%
5248 }
5249 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5250 \let\@openbib@code\@empty

```



## 51 File bidi-perpage.sty

```

5251 \NeedsTeXFormat{LaTeX2e}
5252 \ProvidesPackage{bidi-perpage}[2025/09/15 v0.5 Reset counter(s) on every page]
5253 \newcommand*{\bidi@checkvlist}{%
5254   \ifcase
5255     \ifvmode
5256       \ifx\lastnodetype\bidi@undefined
5257         \ifdim-\@m\p@=\prevdepth
5258           \ifdim\lastskip=\z@
5259             \ifnum\lastpenalty=\z@
5260               \@ne
5261             \fi
5262           \fi
5263         \fi
5264       \else
5265         \ifnum\lastnodetype=\m@ne
5266           \@ne
5267         \fi
5268       \fi
5269     \fi
5270     \z@
5271   \or
5272     \PackageWarning{bidi-perpage}{%
5273       '\string\stepcounter' is probably at the beginning of vertical
5274       list.
5275       You may need to use '\string\leavevmode' before it to avoid
5276       vertical shifts%
5277     }%
5278   \fi
5279 }
5280 \newcount\bidi@page@count
5281 \bidi@page@count\@ne
5282 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5283   \if@bidi@csundef\bidi@stepcounterhook@#2}{%
5284     \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{%
5285     }%
5286   \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5287     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5288   }%
5289   \if@bidi@csundef\bidi@#2@count}{%
5290     \expandafter\newcount\csname bidi@#2@count\endcsname
5291   }%
5292   \csname bidi@#2@count\endcsname\z@
5293   \if@bidi@csundef\bidi@previous@page@#2@count}{%
5294     \expandafter\newcount\csname
5295       bidi@previous@page@#2@count\endcsname
5296   }%
5297   \csname bidi@previous@page@#2@count\endcsname\z@
5298   \if@bidi@csundef\bidi@reset@#2@perpage}{%
5299     \bidi@AfterEndDocumentCheckLabelsRerun{%
5300       \csname if@bidi@reset@#2@rerun\endcsname
5301       \PackageWarningNoLine{bidi-perpage}{%
5302         Counter `#2' may not have been reset per page.

```



```

5303         Rerun to reset counter `#2' per page%
5304     }%
5305 \fi
5306 }%
5307 }{}%
5308 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5309     \global\advance\csname bidi@#2@count\endcsname\@ne
5310     \if@filesw
5311         \edef\@tempa{%
5312             \write\@auxout{%
5313                 \string\bidi@counter@page{#2}%
5314                 {\number\csname bidi@#2@count\endcsname}%
5315                 {\noexpand\number\noexpand\bidi@page@count}%
5316             }%
5317         }%
5318         \bidi@checkvlist
5319         \dimen@=\lastkern
5320         \ifdim\dimen@=\z@
5321             \else
5322                 \unkern
5323             \fi
5324             \count@=\lastpenalty
5325             \@tempa
5326             \ifdim\dimen@=\z@
5327                 \penalty
5328                 \ifnum\count@<\@M
5329                     \@M
5330                 \else
5331                     \count@
5332                 \fi
5333             \else
5334                 \kern\dimen@
5335             \fi
5336         \fi
5337     \begingroup\expandafter\expandafter\expandafter\endgroup
5338     \expandafter\ifx\csname bidi@#2@@\number\csname
5339         bidi@#2@count\endcsname\endcsname\relax
5340         \global\csname @bidi@reset@#2@reruntrue\endcsname
5341     \else
5342         \global\csname @bidi@reset@#2@rerunfalse\endcsname
5343         \expandafter\@tempcnta\csname bidi@#2@@\number
5344             \csname bidi@#2@count\endcsname\endcsname\relax
5345         \ifnum\@tempcnta=\csname
5346             bidi@previous@page@@#2@count\endcsname
5347         \else
5348             \global\csname
5349                 bidi@previous@page@@#2@count\endcsname\@tempcnta
5350             \global\csname c@#2\endcsname#1\relax
5351         \fi
5352     \fi
5353 }%
5354 \expandafter\bidi@gappto\csname
5355     bidi@stepcounterhook@@#2\endcsname{%
5356     \csname bidi@reset@#2@perpage\endcsname

```



```

5357 }%
5358 }
5359 \def\ bidi@counter@page#1#2#3{\ bidi@namegdef{\ bidi@#1@@#2}{#3}}
5360 \bidi@AtEndOutputPage{%
5361   \global\advance\ bidi@page@count\@ne
5362 }

```

## 52 File biditools.sty

```

5363 \NeedsTeXFormat{LaTeX2e}
5364 \ProvidesPackage{biditools}[2025/02/02 v2.7 Programming tools for bidi package]
5365 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5366   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5367   \ifx\@tempa\@tempb \global\let#2#1%
5368   \else
5369     \edef\@tempb{\meaning#2}%
5370     \ifx\@tempa\@tempb
5371     \else
5372       \@latex@error{Unable to properly define \string#2; primitive
5373       \noexpand#1no longer primitive}\@eha
5374     \fi
5375   \fi
5376   \endgroup}
5377 \newtoks\@bidi@envbody
5378 \newtoks\@bidi@emptytoks
5379 \def\ bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5380 \def\ bidi@collect@body#1{%
5381   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}}%
5382   \edef\ bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}}%
5383   \@bidi@envbody\@bidi@emptytoks \def\ begin@bidi@stack{b}%
5384   \begingroup
5385   \expandafter\let\csname\@currenvir\endcsname\ bidi@collect@@body
5386   \edef\ bidi@process@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
5387   \bidi@process@envbody
5388 }
5389 \def\ bidi@push@begins#1\begin#2{%
5390   \ifx\end#2\else b\expandafter\ bidi@push@begins\fi
5391 }
5392 \def\ bidi@collect@@body#1\end#2{%
5393   \edef\ begin@bidi@stack{\ bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5394   \ifx\@empty\begin@bidi@stack
5395     \endgroup
5396     \@checkend{#2}%
5397     \bidi@addto@envbody{#1}%
5398   \else
5399     \bidi@addto@envbody{#1\end{#2}}%
5400   \fi
5401   \bidi@process@envbody % A little tricky! Note the grouping
5402 }
5403 \long\def\ bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5404 \long\def\ bidi@collect@long@body#1{%
5405   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}}%
5406   \edef\ bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}}%
5407   \@bidi@envbody\@bidi@emptytoks \def\ begin@bidi@stack{b}%

```



```

5408 \begingroup
5409 \expandafter\let\csname\@currentenv\endcsname\@bidicollect@long@@body
5410 \edef\@bidiprocess@envbody{\expandafter\noexpand\csname\@currentenv\endcsname}%
5411 \@bidiprocess@envbody
5412 }
5413 \long\def\@bidipush@long@begins#1\begin#2{%
5414 \ifx\end#2\else \@bidipush@long@begins\fi
5415 }
5416 \long\def\@bidicollect@long@@body#1\end#2{%
5417 \edef\begin@bidistack{\@bidipush@long@begins#1\begin\end \expandafter\@gobble\begin@bidistack}
5418 \ifx\empty\begin@bidistack
5419 \endgroup
5420 \@checkend{#2}%
5421 \@bidicollect@long@@body#1\end#2}%
5422 \else
5423 \@bidicollect@long@@body#1\end#2}%
5424 \fi
5425 \@bidiprocess@envbody % A little tricky! Note the grouping
5426 }
5427 \long\def\@bidinew@ifnextchar#1#2#3{%
5428 \let\reserved@a= #1%
5429 \def\reserved@a{#2}\def\reserved@b{#3}%
5430 \futurelet\@let@token\@bidinew@ifnch
5431 }
5432 \def\@bidinew@ifnch{%
5433 \ifx\@let@token\reserved@a \let\reserved@b\reserved@a \fi
5434 \reserved@b
5435 }
5436 \def\@bidimatrix@check#1{%
5437 \expandafter\ifx\csname\@currentenv\endcsname#1%
5438 \else\@bidimatrix@error#1%
5439 \expandafter\@gobble
5440 \fi
5441 }
5442 \def\@bidimatrix@error#1{%
5443 \PackageError{biditools}{%
5444 Old form '\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5445 }{%
5446 '\string#1{...}' is old bidi package syntax whose use is
5447 ill-advised in the old versions of bidi package.%
5448 }%
5449 }
5450 \def\eqnewif#1#2{%
5451 \count@\escapechar \escapechar\m@ne
5452 \let#1\iffalse
5453 \let#2\iffalse
5454 \eq@if#1#2\iftrue
5455 \eq@if#1#2\iffalse
5456 \escapechar\count@}
5457 \def\eq@if#1#2#3{%
5458 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5459 \expandafter\@gobbletwo\string#3\endcsname
5460 {\let#1#3%
5461 \let#2#3}%

```



```

5462 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5463 \expandafter\@gobbletwo\string#3\endcsname
5464 {\let#2#3%
5465 \let#1#3}}
5466 \def\noteqnewif#1#2{%
5467 \count@\escapechar \escapechar\m@ne
5468 \let#1\iffalse
5469 \let#2\iffalse
5470 \not@eq@if#1#2\iftrue\iffalse
5471 \escapechar\count@}
5472 \def\not@eq@if#1#2#3#4{%
5473 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5474 \expandafter\@gobbletwo\string#3\endcsname
5475 {\let#1#3%
5476 \let#2#4}%
5477 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5478 \expandafter\@gobbletwo\string#4\endcsname
5479 {\let#1#4%
5480 \let#2#3}%
5481 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5482 \expandafter\@gobbletwo\string#3\endcsname
5483 {\let#2#3%
5484 \let#1#4}%
5485 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5486 \expandafter\@gobbletwo\string#4\endcsname
5487 {\let#2#4%
5488 \let#1#3}}
5489 \newcommand*{\SetBoolean}[2]{%
5490 \lowercase{\def\@tempa{#2}}%
5491 \@ifundefined{@tempa}{%
5492 {\PackageError{biditools}%
5493 {You can only set a boolean to `true' or `false'}\@ehc}%
5494 {\@ifundefined{#1\@tempa}%
5495 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5496 {\csname#1\@tempa\endcsname}}}%
5497 \newcommand*{\GlobalSetBoolean}[2]{%
5498 \lowercase{\def\@tempa{#2}}%
5499 \@ifundefined{@tempa}{%
5500 {\PackageError{biditools}%
5501 {You can only set a boolean to `true' or `false'}\@ehc}%
5502 {\@ifundefined{#1\@tempa}%
5503 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5504 {\global\csname#1\@tempa\endcsname}}}%
5505 \newcommand*{\SetatBoolean}[2]{%
5506 \lowercase{\def\@tempa{#2}}%
5507 \@ifundefined{@tempa}{%
5508 {\PackageError{biditools}%
5509 {You can only set a boolean to `true' or `false'}\@ehc}%
5510 {\@ifundefined{@#1\@tempa}%
5511 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5512 {\csname @#1\@tempa\endcsname}}}%
5513 \newcommand*{\GlobalSetatBoolean}[2]{%
5514 \lowercase{\def\@tempa{#2}}%
5515 \@ifundefined{@tempa}{%

```



```

5516 {\PackageError{biditools}%
5517 {You can only set a boolean to `true' or `false'}\@ehc}%
5518 {\@ifundefined{@#1\@tempa}%
5519 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5520 {\global\csname @#1\@tempa\endcsname}}}
5521 \def\@bidi@removefromreset#1#2{%
5522 \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5523 \def\@elt##1{%
5524 \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5525 \else
5526 \noexpand\@elt{##1}%
5527 \fi}%
5528 \expandafter\xdef\csname cl@#2\endcsname{%
5529 \csname cl@#2\endcsname}}}
5530 \newcommand*\@ifRtoL{%
5531 \if@RTL
5532 \expandafter\@firstoftwo
5533 \else
5534 \expandafter\@secondoftwo
5535 \fi}
5536 \newcommand*\@ifLtoR{%
5537 \if@RTL
5538 \expandafter\@secondoftwo
5539 \else
5540 \expandafter\@firstoftwo
5541 \fi}
5542 \newcommand*\@ifRtoLtable{%
5543 \if@RTLtab
5544 \expandafter\@firstoftwo
5545 \else
5546 \expandafter\@secondoftwo
5547 \fi}
5548 \newcommand*\@ifLtoRtable{%
5549 \if@RTLtab
5550 \expandafter\@secondoftwo
5551 \else
5552 \expandafter\@firstoftwo
5553 \fi}
5554 \newcommand*\@ifRtoLhboxconstruct{%
5555 \if@hboxRconstruct
5556 \expandafter\@firstoftwo
5557 \else
5558 \expandafter\@secondoftwo
5559 \fi}
5560 \newcommand*\@ifLtoRhboxconstruct{%
5561 \if@hboxRconstruct
5562 \expandafter\@secondoftwo
5563 \else
5564 \expandafter\@firstoftwo
5565 \fi}
5566 \newcommand*\@iflatin{%
5567 \if@nonlatin
5568 \expandafter\@secondoftwo
5569 \else

```



```

5570 \expandafter\@firstoftwo
5571 \fi}
5572 \newcommand*\ifnonlatin}{%
5573 \ifnonlatin
5574 \expandafter\@firstoftwo
5575 \else
5576 \expandafter\@secondoftwo
5577 \fi}
5578
5579 \newcommand*\bidi@convert@dimen@t@unit}[2]{%
5580 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5581
5582 \newcommand*\bidi@convert@dimen@t@pt}[1]{%
5583 \dimexpr #1*65536/\dimexpr 1pt\relax}
5584
5585 \newcommand*\IfPackageVersionAtLeastTF}[1]{%
5586 \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5587 }
5588 \newcommand*\@if@ver@pkg@least}[2]{%
5589 \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5590 \expandafter\@secondoftwo
5591 \else
5592 \expandafter\@firstoftwo
5593 \fi
5594 }
5595 \newcommand*\bidi@parse@ver@[1]{\bidi@parse@ver0#1}
5596 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5597 \if\relax#2\relax\else#1\fi#2#3#4
5598 }
5599 \newcommand*\IfPackageVersionAtMostTF}[1]{%
5600 \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5601 }
5602 \newcommand*\@if@ver@pkg@most}[2]{%
5603 \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5604 \expandafter\@secondoftwo
5605 \else
5606 \expandafter\@firstoftwo
5607 \fi
5608 }
5609 \newcommand*\IfPackageVersionTF}[1]{%
5610 \expandafter\@if@ver@pkg@\csname #1@version\endcsname
5611 }
5612 \newcommand*\@if@ver@pkg@[2]{%
5613 \ifnum\expandafter\bidi@parse@ver@#100\@nil=\expandafter\bidi@parse@ver@#200\@nil
5614 \expandafter\@firstoftwo
5615 \else
5616 \expandafter\@secondoftwo
5617 \fi
5618 }
5619
5620 \newcommand*\if@bidi@csdef}[1]{%
5621 \ifcsname#1\endcsname
5622 \expandafter\@firstoftwo
5623 \else

```





```

5624 \expandafter\@secondoftwo
5625 \fi}
5626 \newcommand*\if@bidi@csundef}[1]{%
5627 \ifcsname#1\endcsname
5628 \expandafter\ifx\csname#1\endcsname\relax
5629 \expandafter\expandafter
5630 \expandafter\@firstoftwo
5631 \else
5632 \expandafter\expandafter
5633 \expandafter\@secondoftwo
5634 \fi
5635 \else
5636 \expandafter\@firstoftwo
5637 \fi}
5638 \newcommand\if@bidi@def}[1]{%
5639 \ifdefined#1%
5640 \expandafter\@firstoftwo
5641 \else
5642 \expandafter\@secondoftwo
5643 \fi}
5644 \newcommand\if@bidi@undef}[1]{%
5645 \ifdefined#1%
5646 \ifx#1\relax
5647 \expandafter\expandafter
5648 \expandafter\@firstoftwo
5649 \else
5650 \expandafter\expandafter
5651 \expandafter\@secondoftwo
5652 \fi
5653 \else
5654 \expandafter\@firstoftwo
5655 \fi}
5656 \newcommand\if@bidi@blank}[1]{% from url.sty
5657 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5658 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5659 \newcommand\bidi@notblank}[1]{%
5660 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5661 \newcommand\if@bidi@defmacro}{%
5662 \long\edef\if@bidi@defmacro#1{%
5663 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5664 \noexpand\meaning#1\detokenize{macro}:&}
5665 \edef\bidi@ifdefmacro{%
5666 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5667 \bidi@ifdefmacro{\bidi@notblank{#2}}
5668 \newcommand*\if@bidi@csmacro}[1]{%
5669 \if@bidi@csdef{#1}
5670 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5671 {\@secondoftwo}}
5672 \newcommand\if@bidi@defprimitive}[1]{%
5673 \ifprimitive#1%
5674 \expandafter\@firstoftwo
5675 \else
5676 \expandafter\@secondoftwo
5677 \fi}

```



```

5678 \newcommand{\if@bidi@csprimitive}[1]{%
5679 \begingroup\expandafter\expandafter\expandafter\endgroup%
5680 \expandafter\ifprimitive\csname#1\endcsname%
5681 \expandafter\@firstoftwo
5682 \else
5683 \expandafter\@secondoftwo
5684 \fi}
5685 \newcommand*{\bidi@csdefcs}[2]{%
5686 \expandafter\@ifdefinable \csname#1\endcsname{%
5687 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5688 \newcommand*{\bidi@csletcs}[2]{%
5689 \expandafter\@ifdefinable \csname#1\endcsname{%
5690 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5691 \newcommand*{\bidi@cslet}[2]{%
5692 \expandafter\@ifdefinable \csname#1\endcsname{%
5693 \expandafter\let\csname#1\endcsname#2}}
5694 \newcommand{\bidi@namelongdef}[1]{%
5695 \long\expandafter\def\csname #1\endcsname}
5696 \newcommand{\bidi@namelonggdef}[1]{%
5697 \long\expandafter\gdef\csname #1\endcsname}
5698 \newcommand{\bidi@namelongedef}[1]{%
5699 \long\expandafter\edef\csname #1\endcsname}
5700 \newcommand{\bidi@namelongxdef}[1]{%
5701 \long\expandafter\xdef\csname #1\endcsname}
5702 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5703 \def\bidi@ensure@new@command#1{%
5704 \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5705 \expandafter\if@bidi@csundef\@gtempa
5706 {\new@command#1}{\relax%
5707 \let\@ifdefinable\@rc@ifdefinable%
5708 \new@command#1}}
5709 \def\bidi@ensure@newlength#1{\if@bidi@undef#1\newskip#1{}}
5710
5711 \protected\def\bidi@error{\PackageError\bidi}
5712 \protected\def\bidi@warning{\PackageWarning\bidi}
5713 \protected\def\bidi@warningnoline{\PackageWarningNoLine\bidi}
5714 \protected\def\bidi@info{\PackageInfo\bidi}
5715
5716 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@@#2@#3}{#4}
5717
5718 \newcount\bidi@poscount
5719
5720 \newcommand*{\WriteStartXPostoaux}{%
5721 \global\advance\bidi@poscount\@ne
5722 \edef\@tempa{%
5723 \write\@auxout{%
5724 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdfstart}
5725 }%
5726 }%
5727 \ifvmode
5728 \leavevmode
5729 \fi
5730 \if@RTL
5731 \if@files

```



```

5732 \@tempa
5733 \fi
5734 \pdfsavepos
5735 \else
5736 \pdfsavepos
5737 \if@filesw
5738 \@tempa
5739 \fi
5740 \fi
5741 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5742 \PackageWarningNoLine{biditools}{%
5743 The start x position '\number\bidi@poscount' is not known yet.
5744 Rerun to get this x position%
5745 }%
5746 }{}%
5747 }
5748
5749 \newcommand*\WriteEndXPostoaux{%
5750 \edef\@tempa{%
5751 \write\@auxout{%
5752 \string\bidi@pos{x}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5753 }%
5754 }%
5755 \if@RTL
5756 \if@filesw
5757 \@tempa
5758 \fi
5759 \pdfsavepos
5760 \else
5761 \pdfsavepos
5762 \if@filesw
5763 \@tempa
5764 \fi
5765 \fi
5766 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5767 \PackageWarningNoLine{biditools}{%
5768 The end x position '\number\bidi@poscount' is not known yet.
5769 Rerun to get this x position%
5770 }%
5771 }{}%
5772 }
5773
5774 \newcommand*\WriteStartYPostoaux{%
5775 \global\advance\bidi@poscount\@ne
5776 \edef\@tempa{%
5777 \write\@auxout{%
5778 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5779 }%
5780 }%
5781 \ifvmode
5782 \leavevmode
5783 \fi
5784 \if@RTL
5785 \if@filesw

```



```

5786 \@tempa
5787 \fi
5788 \pdfsavepos
5789 \else
5790 \pdfsavepos
5791 \if@filesw
5792 \@tempa
5793 \fi
5794 \fi
5795 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5796 \PackageWarningNoLine{biditools}{%
5797 The start y position '\number\bidi@poscount' is not known yet.
5798 Rerun to get this y position%
5799 }%
5800 }{}%
5801 }
5802
5803 \newcommand*{\WriteEndYPostoaux}{%
5804 \edef\@tempa{%
5805 \write\@auxout{%
5806 \string\bidi@pos{y}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5807 }%
5808 }%
5809 \if@RTL
5810 \if@filesw
5811 \@tempa
5812 \fi
5813 \pdfsavepos
5814 \else
5815 \pdfsavepos
5816 \if@filesw
5817 \@tempa
5818 \fi
5819 \fi
5820 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5821 \PackageWarningNoLine{biditools}{%
5822 The end y position '\number\bidi@poscount' is not known yet.
5823 Rerun to get this y position%
5824 }%
5825 }{}%
5826 }
5827
5828 \newcommand*{\WriteStartXYPostoaux}{%
5829 \global\advance\bidi@poscount\@ne
5830 \edef\@tempa{%
5831 \write\@auxout{%
5832 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5833 }%
5834 \write\@auxout{%
5835 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5836 }%
5837 }%
5838 \ifvmode
5839 \leavevmode

```



```

5840 \fi
5841 \if@RTL
5842 \if@filesw
5843 \@tempa
5844 \fi
5845 \pdfsavepos
5846 \else
5847 \pdfsavepos
5848 \if@filesw
5849 \@tempa
5850 \fi
5851 \fi
5852 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5853 \PackageWarningNoLine{biditools}{%
5854 The start x position `\'number\bidi@poscount' is not known yet.
5855 Rerun to get this x position%
5856 }%
5857 }{}%
5858 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5859 \PackageWarningNoLine{biditools}{%
5860 The start y position `\'number\bidi@poscount' is not known yet.
5861 Rerun to get this y position%
5862 }%
5863 }{}%
5864 }
5865
5866 \newcommand*{\WriteEndXYPostoaux}{%
5867 \edef\@tempa{%
5868 \write\@auxout{%
5869 \string\bidi@pos{x}{end}{\'number\bidi@poscount}{\'noexpand\number\noexpand\pdflast
5870 }%
5871 \write\@auxout{%
5872 \string\bidi@pos{y}{end}{\'number\bidi@poscount}{\'noexpand\number\noexpand\pdflast
5873 }%
5874 }%
5875 \if@RTL
5876 \if@filesw
5877 \@tempa
5878 \fi
5879 \pdfsavepos
5880 \else
5881 \pdfsavepos
5882 \if@filesw
5883 \@tempa
5884 \fi
5885 \fi
5886 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5887 \PackageWarningNoLine{biditools}{%
5888 The end x position `\'number\bidi@poscount' is not known yet.
5889 Rerun to get this x position%
5890 }%
5891 }{}%
5892 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5893 \PackageWarningNoLine{biditools}{%

```



```

5894         The end y position '\number\bidiposcount' is not known yet.
5895         Rerun to get this y position%
5896     }%
5897 }{}%
5898 }
5899
5900 \newcommand*{\currentposxwidth}{%
5901     \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{\z@}
5902     {%
5903         \ifnum\csname bidi@xpos@@start@\number\bidiposcount
5904         \endcsname < \csname bidi@xpos@@end@\number\bidiposcount
5905         \endcsname
5906         \dimexpr \csname bidi@xpos@@end@\number\bidiposcount
5907         \endcsname sp - \csname bidi@xpos@@start@\number\bidiposcount
5908         \endcsname sp\relax
5909     \else
5910         \dimexpr \csname bidi@xpos@@start@\number\bidiposcount
5911         \endcsname sp - \csname bidi@xpos@@end@\number\bidiposcount
5912         \endcsname sp\relax
5913     \fi
5914     }%
5915 }
5916
5917 \newcommand*{\currentposyheight}{%
5918     \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{\z@}
5919     {%
5920         \dimexpr \csname bidi@ypos@@start@\number\bidiposcount
5921         \endcsname sp - \csname bidi@ypos@@end@\number\bidiposcount
5922         \endcsname sp\relax
5923     }%
5924 }
5925
5926
5927
5928 \newcommand*{\setbaselineskip}[1]{%
5929     \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5930     \selectfont
5931 }
5932
5933
5934 \newcommand*{\bidi@newrobustcmd}{}
5935 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5936
5937 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5938
5939 \def\bidi@newcommand#1[#2]{%
5940     \@ifnextchar[%]
5941     {\bidi@xargdef#1[#2]}
5942     {\ifx\l@ngrel@x\relax
5943         \let\l@ngrel@x\protected
5944     \else
5945         \protected\def\l@ngrel@x{\protected\long}%
5946     \fi
5947     \@argdef#1[#2]}}

```



```

5948
5949 \long\def\bidixargdef#1[#2][#3]#4{%
5950   \@ifdefinable#1{%
5951     \expandafter\protected
5952     \expandafter\def
5953     \expandafter#1%
5954     \expandafter{%
5955       \expandafter\@testopt
5956       \csname\string#1\endcsname{#3}}}%
5957   \expandafter\@yargdef\csname\string#1\endcsname\tw{#2}{#4}}%
5958
5959 \bidixnewrobustcmd*{\bidixrenewrobustcmd}{\@star@or@long\bidixrenew@command}
5960
5961 \def\bidixrenew@command#1{%
5962   \if@bidixundef{#1}
5963     {\bidixerror{\string#1 undefined}\@ehc}
5964     {}%
5965   \let\@ifdefinable\@rc@ifdefinable
5966   \bidixnew@command#1}
5967
5968
5969
5970 \bidixnewrobustcmd*{\bidixproviderobustcmd}{\@star@or@long\bidixprovide@command}
5971
5972 \def\bidixprovide@command#1{%
5973   \if@bidixundef{#1}
5974     {\def\reserved@a{\bidixnew@command#1}}
5975     {\def\reserved@a{\bidixrenew@command\reserved@a}}%
5976   \reserved@a}
5977
5978 \newcommand*{\bidixcsuse}[1]{%
5979   \ifcsname#1\endcsname
5980     \csname#1\expandafter\endcsname
5981     \fi}
5982
5983 \newcommand{\bidixexpandonce}[1]{%
5984   \unexpanded\expandafter{#1}}
5985
5986 \def\bidixprotected{%
5987   \let\@protect\protect
5988   \let\protect\@unexpandable@protect
5989   \afterassignment\restore@protect}
5990
5991 \bidixnewrobustcmd{\bidixappto}[2]{%
5992   \if@bidixundef{#1}
5993     {\edef#1{\unexpanded{#2}}}
5994     {\edef#1{\bidixexpandonce#1\unexpanded{#2}}}}
5995 \bidixnewrobustcmd{\bidixeappto}[2]{%
5996   \if@bidixundef{#1}
5997     {\edef#1{#2}}
5998     {\edef#1{\bidixexpandonce#1#2}}}
5999 \bidixnewrobustcmd{\bidixgappto}[2]{%
6000   \if@bidixundef{#1}
6001     {\xdef#1{\unexpanded{#2}}}

```



```

6002     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
6003 \bidi@newrobustcmd{\bidi@xappto}[2]{%
6004     \if@bidi@undef{#1}
6005         {\xdef#1{#2}}
6006         {\xdef#1{\bidi@expandonce#1#2}}}}
6007
6008 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
6009 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
6010
6011
6012
6013 \bidi@newrobustcmd{\bidi@preto}[2]{%
6014     \if@bidi@undef{#1}
6015         {\edef#1{\unexpanded{#2}}}
6016         {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}}
6017 \bidi@newrobustcmd{\bidi@epreto}[2]{%
6018     \if@bidi@undef{#1}
6019         {\edef#1{#2}}
6020         {\edef#1{#2\bidi@expandonce#1}}}}
6021 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
6022     \if@bidi@undef{#1}
6023         {\xdef#1{\unexpanded{#2}}}
6024         {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}}
6025 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
6026     \if@bidi@undef{#1}
6027         {\xdef#1{#2}}
6028         {\xdef#1{#2\bidi@expandonce#1}}}}
6029
6030 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
6031 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
6032
6033
6034
6035 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
6036 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
6037 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
6038 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
6039 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
6040 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
6041
6042
6043
6044 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6045 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
6046 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
6047 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6048 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6049 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6050
6051
6052
6053 \bidi@newrobustcmd{\if@bidi@patchable}{%
6054     \bidi@dbg@trce\if@bidi@patchable
6055     \begingroup

```





```

6056 \@makeother\#%
6057 \ifstar\bid@ifpatchable@i\bid@ifpatchable}
6058
6059 \long\def\bid@ifpatchable#1#2{%
6060 \endgroup
6061 \bid@dbg@init#1%
6062 \if@bid@undef{#1}
6063 {\bid@dbg@fail{def}\@secondoftwo}
6064 {\bid@dbg@info{def}%
6065 \if@bid@defmacro{#1}
6066 {\bid@dbg@info{mac}%
6067 \bid@ifscanable{#1}
6068 {\bid@ifhashcheck{#2}
6069 {\bid@dbg@info{tok}%
6070 \bid@ifpattern#1{#2}
6071 {\bid@dbg@info{pat}%
6072 \bid@dbg@info{pos}\@firstoftwo}
6073 {\bid@dbg@fail{pat}\@secondoftwo}}
6074 {\bid@dbg@fail{hsh}\@secondoftwo}}
6075 {\bid@dbg@fail{tok}\@secondoftwo}}
6076 {\bid@dbg@fail{mac}\@secondoftwo}}}
6077
6078 \long\def\bid@ifpatchable@i#1{%
6079 \endgroup
6080 \bid@dbg@init#1%
6081 \if@bid@undef{#1}
6082 {\bid@dbg@fail{def}\@secondoftwo}
6083 {\bid@dbg@info{def}%
6084 \if@bid@defmacro{#1}
6085 {\bid@dbg@info{mac}%
6086 \if@bid@defparam{#1}
6087 {\bid@dbg@info{prm}%
6088 \bid@ifscanable{#1}
6089 {\bid@dbg@info{tok}%
6090 \bid@dbg@info{pos}\@firstoftwo}
6091 {\bid@dbg@fail{tok}\@secondoftwo}}
6092 {\bid@dbg@info{prl}%
6093 \if@bid@defprotected{#1}
6094 {\bid@dbg@info{pro}}
6095 {}%
6096 \bid@dbg@info{pos}\@firstoftwo}}
6097 {\bid@dbg@fail{mac}\@secondoftwo}}}
6098
6099 \bid@newrobustcmd*\bid@patchcmd}{%
6100 \bid@dbg@trce\bid@patchcmd
6101 \begingroup
6102 \@makeother\#%
6103 \bid@@patchcmd}
6104
6105 \newcommand{\bid@@patchcmd}[4][#####1]{%
6106 \bid@ifpatchable#2{#3}
6107 {\bid@dbg@succ{ret}%
6108 \begingroup
6109 \edef\bid@resrvda{%

```



```

6110 \def\noexpand\bidiresrvda####1\detokenize{macro:}####2->####3&{%
6111 #1\def\string\bidiresrvda\space####2{\noexpand\bidiresrvdb####3&}}%
6112 \def\noexpand\bidiresrvdb####1\detokenize{#3}####2&{%
6113 ####1\detokenize{#4}####2}%
6114 \edef\noexpand\bidiresrvda{%
6115 \noexpand\bidiresrvda\meaning#2&}}%
6116 \bidiresrvda
6117 \bidipatchcmd@scantoks\bidiresrvda
6118 \let#2\bidiresrvda
6119 \bidiundef\bidiresrvda
6120 \@firstoftwo}
6121 {\@secondoftwo}}
6122
6123 \def\bidipatchcmd@scantoks#1{%
6124 \edef\bidiresrvda{\endgroup
6125 \unexpanded{\makeatletter\scantokens}{#1}%
6126 \catcode\number`\@=\the\catcode`\@relax}%
6127 \bidiresrvda}
6128
6129 \protected\def\bidifscanable#1{%
6130 \begingroup
6131 \edef\bidiresrvda{%
6132 \def\noexpand\bidiresrvda####1\detokenize{macro:}####2->####3&{%
6133 ####1\def\string\bidiresrvda####2{####3}}}%
6134 \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda\meaning#1&}}%
6135 \bidiresrvda
6136 \makeatletter
6137 \scantokens\expandafter{\bidiresrvda}%
6138 \expandafter\endgroup\ifx#1\bidiresrvda
6139 \expandafter\@firstoftwo
6140 \else
6141 \expandafter\@secondoftwo
6142 \fi}
6143
6144
6145 \protected\long\def\bidifhashcheck#1{%
6146 \begingroup
6147 \edef\bidiresrvda{\detokenize{#1}}%
6148 \expandafter\endgroup
6149 \expandafter\bidifhashcheck@i\meaning\bidiresrvda&}
6150
6151 \edef\bidifhashcheck@i#1&{%
6152 \noexpand\expandafter
6153 \noexpand\bidifhashcheck@ii
6154 \noexpand\strip@prefix#1\string#\string#&}
6155
6156 \edef\bidifhashcheck@ii{%
6157 \def\noexpand\bidifhashcheck@ii##1\string#\string##2&}
6158 \bidifhashcheck@ii{\if@bidi@blank{#2}}
6159
6160
6161 \protected\long\def\bidifpattern#1#2{%
6162 \begingroup
6163 \edef\bidiresrvda{%

```



```

6164 \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
6165 \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
6166 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
6167 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6168 \noexpand\bidi@resrvda}
6169 \bidi@resrvda\@secondoftwo\@firstoftwo}
6170
6171
6172 \newcommand{\if@bidi@defparam}{%
6173 \long\edef\if@bidi@defparam#1{%
6174 \noexpand\expandafter\noexpand\bidi@ifdefparam
6175 \noexpand\meaning#1\detokenize{macro}:->&}
6176 \edef\bidi@ifdefparam{%
6177 \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
6178 \bidi@ifdefparam{\bidi@notblank{#2}}
6179
6180
6181 \newcommand{\if@bidi@defprotected}{%
6182 \long\edef\if@bidi@defprotected#1{%
6183 \noexpand\expandafter\noexpand\bidi@ifdefprotected
6184 \noexpand\meaning#1\string\protected&}
6185 \edef\bidi@ifdefprotected{%
6186 \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
6187 \bidi@ifdefprotected{\bidi@notblank{#2}}
6188
6189
6190 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6191 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6192 \expandafter\let\csname #1\endcsname\bidi@undefined
6193 }
6194
6195 \let\bidi@dbg@trce\@gobble
6196 \let\bidi@dbg@init\@gobble
6197 \let\bidi@dbg@info\@gobble
6198 \let\bidi@dbg@succ\@gobble
6199 \let\bidi@dbg@fail\@gobble
6200
6201
6202
6203 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6204 \bidi@dbg@trce\bidi@apptocmd
6205 \begingroup
6206 \@makeoother\#%
6207 \bidi@hooktocmd\bidi@append}
6208
6209
6210
6211 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6212 \bidi@dbg@trce\bidi@pretocmd
6213 \begingroup
6214 \@makeoother\#%
6215 \bidi@hooktocmd\bidi@prepend}
6216
6217 \long\def\bidi@hooktocmd#1#2#3{%

```



```

6218 \endgroup
6219 \bidi@dbg@init#2%
6220 \if@bidi@undef{#2}
6221   {\bidi@dbg@fail{def}\@secondoftwo}
6222   {\bidi@dbg@info{def}%
6223     \if@bidi@defmacro{#2}
6224       {\bidi@dbg@info{mac}%
6225         \if@bidi@defparam{#2}
6226           {\bidi@dbg@info{prm}%
6227             \bidi@ifscanable{#2}
6228               {\bidi@ifhashcheck{#3}
6229                 {\bidi@dbg@info{tok}%
6230                   \bidi@dbg@succ{ret}%
6231                   \bidi@hooktocmd@i#1#2{#3}%
6232                   \@firstoftwo}
6233                 {\bidi@dbg@fail{hsh}\@secondoftwo}}
6234               {\bidi@dbg@fail{tok}\@secondoftwo}}
6235             {\bidi@dbg@info{prl}%
6236               \if@bidi@defprotected{#2}
6237                 {\bidi@dbg@info{pro}%
6238                   \bidi@dbg@succ{red}%
6239                   \protected}
6240                 {\bidi@dbg@succ{red}}}%
6241             \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6242             \@firstoftwo}}
6243     {\bidi@dbg@fail{mac}\@secondoftwo}}
6244
6245 \long\def\bidi@hooktocmd@i#1#2#3{%
6246   \begingroup
6247   \edef\bidi@resrvda{%
6248     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6249       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}%
6250     \edef\noexpand\bidi@resrvda{%
6251       \noexpand\bidi@resrvda\meaning#2&}}%
6252   \bidi@resrvda
6253   \bidi@patchcmd@scantoks\bidi@resrvda
6254   \let#2\bidi@resrvda
6255   \bidi@undef\bidi@resrvda}
6256
6257 \long\def\bidi@append#1#2{#1#2}
6258 \long\def\bidi@prepend#1#2{#2#1}
6259
6260 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6261 %\newcommand*{\bidi@endpreamblehook}{ }
6262
6263 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6264
6265 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipou
6266 \newcommand*{\bidi@beforeoutputpageshipouthook}{ }
6267
6268 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6269 \newcommand*{\bidi@beforeheaderhook}{ }
6270
6271 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutpu

```



```

6272 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{\}
6273
6274 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputp
6275 \newcommand*{\bidi@afteroutputboxoutputpagehook}{\}
6276
6277 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6278 \newcommand*{\bidi@beforefooterhook}{\}
6279
6280 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6281 \newcommand*{\bidi@afterfooterhook}{\}
6282
6283
6284 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouth
6285 \newcommand*{\bidi@afteroutputpageshipouthook}{\}
6286
6287 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6288 \newcommand*{\bidi@atendoutputpagehook}{\}
6289
6290 %\bidi@preto\document{%
6291 % \endgroup
6292 % \let\bidi@AtEndPreamble\@firstofone
6293 % \bidi@endpreamblehook
6294 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6295 % \bidi@undef\bidi@endpreamblehook
6296 % \begingroup}
6297
6298 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6299 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6300
6301 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterrendpreamblehook}
6302 %\newcommand*{\bidi@afterrendpreamblehook}{\}
6303
6304 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}}%
6305
6306 %\bidi@appto\document{%
6307 % \let\bidi@AfterEndPreamble\@firstofone
6308 % \bidi@afterrendpreamblehook
6309 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6310 % \bidi@undef\bidi@afterrendpreamblehook
6311 % \ignorespaces}
6312
6313 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterrenddocum
6314 \newcommand*{\bidi@afterrenddocumentchecklabelsrerunhook}{\}
6315
6316 \bidi@patchcmd\enddocument
6317 {\fi}
6318 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6319 \bidi@afterrenddocumentchecklabelsrerunhook
6320 \fi}
6321 {}
6322 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6323
6324 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6325

```



```

6326 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6327 \newcommand*{\bidi@afterlastshipouthook}{}
6328
6329 \bidi@patchcmd\enddocument
6330 {\clearpage}
6331 {\clearpage
6332 \let\bidi@AfterLastShipout\@firstofone
6333 \bidi@afterlastshipouthook}
6334 {}
6335 {\let\bidi@clearpage\clearpage
6336 \def\clearpage{%
6337 \bidi@clearpage
6338 \let\bidi@AfterLastShipout\@firstofone
6339 \bidi@afterlastshipouthook}}
6340
6341 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterendddocumenthook}
6342 %\newcommand*{\bidi@afterendddocumenthook}{}
6343
6344 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6345
6346 %\bidi@patchcmd\enddocument
6347 % {\deadcycles}
6348 % {\let\bidi@AfterEndDocument\@firstofone
6349 % \bidi@afterendddocumenthook
6350 % \deadcycles}
6351 % {}
6352 % {\let\bidi@@end@@end
6353 % \def@@end{%
6354 % \let\bidi@AfterEndDocument\@firstofone
6355 % \bidi@afterendddocumenthook
6356 % \bidi@@end}}
6357
6358 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6359 \bidi@csgappto{@bidi@begin@#1@hook}}
6360
6361 % Patch \begin<space> and \end<space> in newer LaTeX releases
6362 % \begin and \end in older ones.
6363 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6364 {\csname #1\endcsname}
6365 {\bidi@csuse{@bidi@begin@#1@hook}}%
6366 \csname #1\endcsname}
6367 {}
6368 {\bidi@warning{%
6369 Patching '\string\begin' failed!\MessageBreak
6370 '\string\bidi@AtBeginEnvironment' will not work@gobble}}
6371
6372
6373
6374 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6375 \bidi@csgappto{@bidi@end@#1@hook}}
6376
6377 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6378 {\csname end#1\endcsname}
6379 {\bidi@csuse{@bidi@end@#1@hook}}%

```



```

6380 \csname end#1\endcsname}
6381 {}
6382 {\bidi@warning{%
6383   Patching '\string\end' failed!\MessageBreak
6384   '\string\bidi@AtEndEnvironment' will not work\@gobble}}
6385
6386
6387
6388 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6389   \bidi@csgappto{\bidi@beforebegin@#1@hook}}
6390
6391 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6392 {\bidi@csuse{\bidi@beforebegin@#1@hook}}
6393 {}
6394 {\bidi@warning{%
6395   Patching '\string\begin' failed!\MessageBreak
6396   '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}
6397
6398 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6399   \bidi@csgappto{\bidi@afterend@#1@hook}}
6400
6401 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6402 {\if@ignore}
6403 {\bidi@csuse{\bidi@afterend@#1@hook}}%
6404 \if@ignore}
6405 {}
6406 {\bidi@warning{%
6407   Patching '\string\end' failed!\MessageBreak
6408   '\string\bidi@AfterEndEnvironment' will not work\@gobble}}
6409
6410 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6411 \def\bidi@namedef#1{\expandafter\gdef\csname #1\endcsname}
6412 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6413 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6414
6415 % From David Carlisle:
6416 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6417 % See also https://github.com/ho-tex/oberdiek/issues/26
6418
6419 \let\@bidi@stepcounter\stepcounter
6420 \let\@bidi@@stpelt\@stpelt
6421
6422 \def\@stpelt#1{%
6423   \ifcsname bidi@reset@#1@perpage\endcsname
6424     \begingroup
6425       \let\stepcounter\@bidi@stepcounter
6426       \@bidi@@stpelt{#1}%
6427     \endgroup
6428     \expandafter\@gobbletwo
6429   \fi
6430   \@bidi@@stpelt{#1}%
6431 }
6432
6433 \bidi@pretocmd\stepcounter

```



```

6434 {%
6435     \if@bidi@csundef{bidi@stepcounterhook@@#1}{}%
6436     \csname bidi@stepcounterhook@@#1\endcsname
6437 }%
6438 }{}%
6439 {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6440
6441 \chardef\bidi@backslash`\\
6442 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6443
6444 % anonymous control sequences
6445 \newcount\bidi@tempcountb
6446 \newtoks\bidi@temptoksa
6447 \newtoks\bidi@temptoksb
6448
6449 % Catcode (re)storing
6450 %
6451 \def\bidi@storecatcode#1%
6452     {\escapechar\m@ne
6453     \bidi@csarg\edef\bidi@restorecatcode\string#1}%
6454     {\catcode`\string#1=
6455     \the\catcode\expandafter`\string#1}%
6456     \catcode\expandafter`\string#1=12\relax
6457     \escapechar`\\ \relax}
6458 \def\bidi@restorecatcode#1%
6459     {\escapechar\m@ne
6460     \csname bidi@restorecatcode\string#1\endcsname
6461     \escapechar`\\ \relax}
6462
6463 % Construct a control sequence inside \edef
6464 %
6465 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6466
6467 % Construct a control sequence out of #2, and give it to #1
6468 %
6469 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6470
6471 % Pick an escapecharacter
6472 % this presumes that its argument is a character.
6473 %
6474 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6475
6476 % Equality of strings.
6477 % the fast approach: does not work in expansion-only environment.
6478 %
6479 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
6480     \ifx\bidi@eqs@a\bidi@eqs@b}
6481
6482 % Test by expansion only
6483 %
6484 \def\bidi@EqualStringX#1#2{00\fi
6485     \csname if\@bidi@EqualStringX#1&#2&\endcsname}
6486 \def\@bidi@EqualStringX#1#2$#3#4${\ifx#1#3%
6487     \ifx#1&true\else\bidi@hop@ES\@bidi@EqualStringX#2$#4$\fi

```





```

6488     \else false\fi}
6489 \def\bidihop@ES#1\fi#2\fi{\fi\fi#1}
6490
6491 % Lexicographic ordering
6492 % note the use of \def
6493 % also note the characters 0,127,255 that are used,
6494 % these are not supposed to appear in the strings
6495 %
6496 {\catcode0=12 \catcode255=12 \catcode127=12
6497 \gdef\bidistringbeforeNC#1#2{00\fi
6498   \bidicharsbefore#1^^@^^?#2^^ff^^?}
6499 \gdef\bidicharsbeforeNC#1#2^^?#3#4^^?{%
6500   \ifcat#1\relax\def\bidinext{\bidicharsbefore#2^^@^^?#3#4^^ff^^?}%
6501   \else\ifcat#3\relax\def\bidinext{\bidicharsbefore#1#2^^@^^?#4^^ff^^?}%
6502     \else\ifnum\lccode`#1<\lccode`#3
6503       \def\bidinext{\csname iftrue\endcsname}%
6504     \else\ifnum\lccode`#1>\lccode`#3
6505       \def\bidinext{\csname iffalse\endcsname}%
6506     \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6507   \fi \fi \fi \fi
6508   \bidinext}
6509 \gdef\bidistringbefore#1#2{00\fi
6510   \bidicharsbefore#1^^@^^?#2^^ff^^?}
6511 \gdef\bidicharsbefore#1#2^^?#3#4^^?{%
6512   \ifnum`#1<`#3
6513     \def\bidinext{\csname iftrue\endcsname}%
6514   \else\ifnum`#1>`#3
6515     \def\bidinext{\csname iffalse\endcsname}%
6516   \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6517   \fi\fi
6518   \bidinext}
6519 }
6520
6521 % Null argument test
6522 %
6523 \def\bidiepty{}
6524 \def\bidiepty#1{00\fi\expandafter\ifx\csname bidi@#1\endcsname\bidiepty\fi}
6525 \def\bidieptyX#1{\expandafter\ifx\csname bidi@#1\endcsname\bidiepty\fi}
6526 %\def\bidiepty#1{\def\bidiepty{\ifx\csname bidi@#1\endcsname\bidiepty\fi}}
6527 \def\bidieptylist#1{00\fi\def\bidiepty{\ifx\csname bidi@#1\endcsname\bidiepty\fi}}
6528
6529 % Next character test
6530 %
6531 \def\bidinextchar#1#2#3{00\fi
6532   \let\bidinxtch#1\def\bidinxta{#2}\def\bidinxtb{#3}%
6533   \futurelet\bidinxtc\@bidieptyifnxtc}
6534 \def\bidieptyifnextchar#1#2#3{%
6535   \let\bidinxtch#1\def\bidinxta{#2}\def\bidinxtb{#3}%
6536   \futurelet\bidinxtc\@bidieptyifnxtc}
6537 \def\@bidieptyifnxtc{\ifx\bidinxtch\bidinxtc \expandafter\bidinxta
6538   \else \expandafter\bidinxtb \fi}
6539
6540 % Test for defined-ness of string as control sequence.
6541 % works inside \edef

```



```

6542 %
6543 \def\bid@undefinedcs#1{00\fi\bid@csarg\ifx{#1}\relax}
6544
6545 % Define uniquely defined dummy macros,
6546 % usually to serve as bumper blocks at the end of a list
6547 %
6548 \newcount\bid@dummies
6549 \def\DefNewDummy#1{
6550     \if\bid@undefinedcs{#1}\bid@csarg\edef{#1}{\bid@dum\the\bid@dummies}
6551     \advance\bid@dummies\@ne
6552     \else
6553     \bid@error{Attempt at second definition of `#1'}
6554     \fi}
6555
6556 % string case statement
6557 % use: \bid@switch \iftest{...} in:
6558 %     item1 action1
6559 %     ...
6560 %     itemn actionn
6561 %     default defaultaction [optional]
6562 %     \endbid@switch
6563 % inspired by Jonathan Fine: Some Basic Control Macros
6564 % Tugboat 12 #4
6565 %
6566 \let\@bid@fi\fi \let\endbid@switch\relax \DefNewDummy{\bid@default}
6567 \def\bid@switch@exit #1 \@bid@fi #2 \endbid@switch {\fi #1}
6568 \def\bid@switch #1#2#3{\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6569 #1{#2}\bid@switch@exit #3 \@bid@fi
6570 \bid@switch {#1}
6571 }
6572 % this version puts the test object in {}
6573 \def\bid@oswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6574 #1{#2}\bid@switch@exit #3 \@bid@fi
6575 \bid@switch #1 in:
6576 }
6577 % this version assumes that the test object is just one character
6578 \def\bid@cswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6579 #1#2\bid@switch@exit #3 \@bid@fi
6580 \bid@cswitch #1 in:
6581 }
6582 % this version assumes that the test object can have an optional space
6583 \def\bid@bswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6584 #1#2 \bid@switch@exit #3 \@bid@fi
6585 \bid@bswitch #1 in:
6586 }
6587 % this version can cope with significant spaces at the start of #3;
6588 % #2 is macro argument
6589 \def\bid@mswitch #1 in: #2:#3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6590 #1{#2}\bid@switch@exit #3 \@bid@fi
6591 \bid@mswitch #1 in:
6592 }
6593 % idem; #2 does not have to be enclosed in braces
6594 \def\bid@fswitch #1 in: #2:#3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6595 #1#2 \bid@switch@exit #3 \@bid@fi

```



```

6596 \bidi@fswitch #1 in:
6597 }
6598
6599 % Routines for taking the value of a string:
6600 % if the string is defined as control sequence
6601 % take the value of that, otherwise take the string itself
6602
6603 % String or value of control sequence
6604 %
6605 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6606
6607 % String or control sequence
6608 %
6609 \def\bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6610
6611 % String or \noexpand-ed control sequence;
6612 % for use in \edef
6613 %
6614 \newif\ifbidi@in@label
6615 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6616 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6617 \newtoks\bidi@are@these@correct
6618 \def\bidi@t@w@w#1{%
6619 \if\bidi@undefinedcs{#1}#1%
6620 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1}\fi
6621 \else
6622 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6623
6624 % List Manipulation .....
6625 % this assumes that #1 is a list of tokens, #2 is the name of a list
6626 %
6627 % Names of lists (and of items to pop into) are given as strings;
6628 % not as control sequences.
6629 %
6630 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6631 % basic append/prepend macro
6632 \long\def\bidi@append@to@clist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6633 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@lista}
6634 \long\def\bidi@prepend@to@clist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6635 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lista}
6636 \def\bidi@append@to@list{\bidi@csarg\bidi@append@to@clist}
6637 \def\bidi@prepend@to@list{\bidi@csarg\bidi@prepend@to@clist}
6638 % variations:
6639 \long\def\bidi@append@to@list#1#2{\bidi@append@to@list{#1}\fi{#2}}
6640 \long\def\bidi@prepend@to@list#1#2{\bidi@prepend@to@list{#1}\fi{#2}}
6641 \def\bidi@append@list@to@list#1#2{%
6642 \bidi@append@to@list{#1}\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname\bidi@toks@lista}
6643 \def\bidi@prepend@list@to@list#1#2{%
6644 \bidi@prepend@to@list{#1}\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname\bidi@toks@listb}
6645 \def\bidi@append@clist@to@clist#1#2{%
6646 \bidi@append@to@clist{#1}\expandafter\the#2}}
6647 \def\bidi@prepend@clist@to@clist#1#2{%
6648 \bidi@prepend@to@clist{#1}\expandafter\the#2}}
6649 \def\bidi@append@toks@cs@to@list#1#2{\bidi@append@to@list{#1}\expandafter\the#2}}

```



```

6650 \def\bidiprepend@toks@cs@to@list#1#2{\@bidiprepend@to@list{#1}\expandafter{\the#2}}
6651
6652 \let\bidibillbeunhskip\unhskip
6653
6654 % A few list macros for the user
6655 \def\NewTokenList:#1 {\bidicsarg\newtoks{#1}\global\csname#1\endcsname{}}
6656 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6657 \long\def\AppendToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6658 \long\def\PrependToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6659 \def\TheTokenList:#1 {\let\bidibillbeunhskip\bidibillbeunhskip \let\bidibillbeunhskip\empt
6660 \if\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip
6661 \else\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip
6662 \let\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip
6663
6664 \def\bididel@tok@from@list#1#2{\begingroup
6665 \long\def\bidics@list#1#2#3\biditok@SM
6666 {\biditoks@list#1\biditoks@listb{#2}}%
6667 \edef\bidics@listb{\global\bidicsname{#1}=
6668 {\the\biditoks@list\the\biditoks@listb}}%
6669 \bidics@listb}%
6670 \edef\bidics@list{\noexpand\bidics@list#1\expandafter\the\csname#1\endcsname\noexpand
6671 \bidics@listb\endgroup}
6672 \def\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip
6673 \bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip
6674 \long\def\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip
6675 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list
6676 \endgroup}
6677 \long\def\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip
6678 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6679 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6680 \expandafter\the\csname#1\endcsname}%
6681 }
6682 \def\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip
6683 \bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip
6684 \long\def\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip\bidibillbeunhskip
6685 \global#1=\expandafter\the\biditoks@list\endgroup}
6686
6687 %%%%%%%%%%%%%%% Stack macros
6688 %
6689 % push in terms of prepending of lists
6690 \def\bidipush@cs@onto@cs#1#2{\@bidiprepend@to@cslist#1\expandafter{\expandafter\\expandafter
6691 \def\bidipush@onto#1{\bidicsarg\bidipush@onto@cs{#1}}
6692 \def\bidipush@onto@cs#1#2{\@bidiprepend@to@cslist#1}{\{#2}}
6693 \def\bidilocal@push@onto#1#2{\let\relax
6694 \bidilocal@in@front@of@list{#1}{\{#2}}
6695 % pop via auxiliary macro: #1 is result, #2 is stack
6696 % two cs arguments
6697 \def\bidipop@cs@into#1#2{\edef\bidics@e
6698 {\noexpand\@bidipopinto\noexpand#1\noexpand#2\the#2\noexpand\@bidipop}\bidics@e}
6699 % two string arguments
6700 \def\bidipop@into#1#2{\edef\bidics@e
6701 {\noexpand\@bidipopinto\bidicsname{#1}\bidicsname{#2}\bidicsarg\the{#2}\noexpand\@
6702 \long\def\@bidipopinto#1#2\#3#4\@bidipop{#1{#3}#2{#4}}
6703 \def\bidicopy@stacktop#1#2{%

```



```

6704 \edef\bidics@e{\noexpand\@bidi@copy@stacktop
6705 {#1}\bidi@csarg\the{#2}\noexpand\@bidi@pop}%
6706 \bidi@cs@e}
6707 \def\@bidi@copy@stacktop#1\\#2#3\@bidi@pop{\csname#1\endcsname#2\relax}
6708 \newcount\bidi@stack@length \newtoks\bidi@empty@stack \bidi@empty@stack{\{\}}
6709 \def\bidi@length@of@stack#1{\bidi@csarg\bidi@length@of@csstack{#1}}
6710 \def\bidi@length@of@csstack#1{\def\\##1{\advance\bidi@stack@length\@ne}%
6711 \bidi@stack@length\m@ne \the#1}
6712 % turn a stack upside down
6713 \def\bidi@invert@csstack#1{\bidi@length@of@csstack{#1}%
6714 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@stack
6715 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6716 \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length\m@ne
6717 \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6718 % \bidi@append@cslst@to@cslst\bidi@temptoksb\bidi@temptoksa% append a to b
6719 % \bidi@temptoksa\bidi@temptoksb
6720 \repeat% copy b to a
6721 #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6722 % invert a stack into a list
6723 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6724 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6725 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6726 \bidi@pop@into{\bidi@temptoksb}{#1}\advance\bidi@stack@length\m@ne
6727 \bidi@append@list@to@list{\bidi@temptoksb}{\bidi@temptoksa}\repeat
6728 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6729
6730
6731 % General loop macro:
6732 % \looprepeat
6733 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6734 % \untilcondition{<cond>} \whilecondition{<cond>}
6735 % \doloopbody { <loop body> }
6736 % where all control sequences in between \looprepeat and \doloopbody are optional.
6737 %
6738 % var: characters to form a control sequence;
6739 % after \forvariable{index} you can access the loop counter as \index.
6740 % This is a count register; to print it use \number\index.
6741 % start,step,end: integers with obvious relations to the loop counter;
6742 % start and step have a default value of 1
6743 % cond: (sequence of commands ending in) any TeX \if... test.
6744 %
6745 % Count down instead of up with \downtovalue; the increment given in \bystep
6746 % is always positive, and is added or subtracted accordingly.
6747 %
6748 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6749 % at the beginning of the loop body.
6750 %
6751 % Exit from middle of loop: \breaklooprepeat
6752 % use this at any place in the loop; in case of a conditional use
6753 % \ifsomething ... \expandafter \breaklooprepeat \fi
6754 %
6755 % Note that the line ends do not cause spaces in the output.
6756 %
6757 % Technical details:

```



```

6758 % The loop body is not executed in a group: the braces are those
6759 % of a token list.
6760 % The 'forvariable' variable is \let to a \count register.
6761
6762
6763
6764 % Auxiliary stuff
6765 \def\bidi@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6766 \def\bidi@looprepeat@csromannumeral#1{\csname #1\romannumeral\bidi@looprepeat@depth\endcsname}
6767 \def\bidi@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidi@looprepeat@depth\endcsname}
6768
6769 \newcount\bidi@looprepeat@depth
6770 \let\endlooprepeat\relax \def\bidi@csprotect{}
6771 % Trace switches may later be defined by PAC_utils
6772 \let\bidi@looprepeat@traceinit\relax \let\bidi@looprepeat@traceexit\relax
6773
6774 % Main repeatloop macro
6775 % - go to next level and allocate unique counter/toks if this is the
6776 %   first time we visit this level
6777 % - setup: gather bounds and termination conditions
6778 % - scoop up body in token list; after the assignment define and
6779 %   execute body
6780 \def\looprepeat#1\doloopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop
6781   \advance\bidi@looprepeat@depth\@ne\relax
6782   \bidi@looprepeat@csargromannumeral\ifx\bidi@looprepeat@count}\relax
6783     \bidi@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}\bidi@looprepeat@depth\relax
6784     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}\bidi@looprepeat@depth\relax
6785     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}\bidi@looprepeat@depth\relax
6786     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}\bidi@looprepeat@depth\relax
6787   \fi \bidi@looprepeat@zero \def\bidi@looprepeat@sign{}\def\bidi@looprepeat@comp{>}\bidi@looprepeat@depth\relax
6788   \edef\bidi@looprepeat@tmp
6789     {\def\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@looprepeat}\bidi@looprepeat@depth\relax
6790   \afterassignment\bidi@looprepeat@dxbody\bidi@looprepeat@csromannumeral\bidi@looprepeat@depth\relax
6791
6792 % Define and execute loop body
6793 % This is done with an \edef to construct the actual sequence
6794 \def\bidi@looprepeat@dxbody{\bidi@looprepeat@csargromannumeral\edef\bidi@looprepeat@body{\bidi@looprepeat@body}\bidi@looprepeat@depth\relax
6795   \bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@wtest}%
6796   \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@toks}%
6797   \bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@utest}%
6798   \global\bidi@looprepeat@csargromannumeral\advance\bidi@looprepeat@count by \bidi@looprepeat@depth\relax
6799   \noexpand\endlooprepeat
6800   \bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@looprepeat}}%
6801   \bidi@looprepeat@csromannumeral\bidi@looprepeat@body\ignorespaces}
6802
6803 % Stop test
6804 %% In order to stop, issue a
6805 %% \breaklooprepeat which scoops up the rest of the body and exits
6806 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral\edef\bidi@looprepeat@body{\bidi@looprepeat@body}\bidi@looprepeat@depth\relax
6807   \advance\bidi@looprepeat@depth\@m\@ne \bidi@looprepeat@traceexit
6808   }
6809
6810
6811 % Setup

```



```

6812 % gather bounds and termination conditions
6813 \def\bidilooprepeat@setup#1{%
6814   \beginingroup
6815   \def\forvariable##1{%
6816     \edef\bidilooprepeat@tmp{%
6817       \global\let\bidilooprepeat@csarg\noexpand{##1}\bidilooprepeat@csromannumeral{\bidilooprepeat@tmp}%
6818       \bidilooprepeat@tmp}%
6819     \def\fromvalue##1{\bidilooprepeat@csargromannumeral\global{\bidilooprepeat@count}##1\i
6820     \def\tovalue##1{%
6821       \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6822       {\bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}}%
6823       \noexpand\ifnum\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@count}>\bidilooprepeat@wtest%
6824       \noexpand\expandafter\noexpand\breaklooprepeat
6825       \noexpand\fi}\ignorespaces}%
6826     \bidilooprepeat@tmp}%
6827   \def\dwntovalue##1{%
6828     \gdef\bidilooprepeat@sign{-}\gdef\bidilooprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6829   \def\bystep##1{\ifnum##1<0\bidioerror{LOOPREPEAT: increment has to be a positive value}\fi}%
6830     \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{-##1}\else
6831     \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{##1}\fi\ignorespaces}%
6832   \def\untilcondition##1{%
6833     \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6834     {\noexpand##1\relax
6835     \noexpand\expandafter\noexpand\breaklooprepeat\noexpand\fi}\ignorespaces}%
6836     \bidilooprepeat@tmp}%
6837   \def\whilecondition##1{%
6838     \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6839     {\noexpand##1\relax\noexpand\else
6840     \noexpand\expandafter\noexpand\breaklooprepeat\noexpand\fi}\ignorespaces}%
6841     \bidilooprepeat@tmp}%
6842     \fromvalue{\@ne}\bystep{\@ne}#1%
6843   \endgroup}
6844 \def\bidilooprepeat@zero
6845   {\bidilooprepeat@csromannumeral{\bidilooprepeat@toks}{}}\bidilooprepeat@csromannumeral{\bidilooprepeat@tmp}%
6846   \bidilooprepeat@csargromannumeral\def{\bidilooprepeat@body}{}}
6847
6848 %\tracingmacros2
6849 %\newcount\tmpcount % used in some examples below
6850
6851 %\looprepeat \forvariable{i}
6852 %   \bystep{2}
6853 % \doloopbody {%
6854 %   \ifnum i=13 \expandafter\breaklooprepeat \fi
6855 %   \number i}%
6856 %}%
6857
6858 %\looprepeat \forvariable{iii}
6859 %   \tovalue{8}
6860 % \doloopbody {}
6861 %After loop: \number iii%
6862
6863 %\looprepeat \forvariable{i}
6864 %   \fromvalue{10}
6865 %   \bystep{2}

```



```

6866 %          \downtovalue{0}
6867 %    \doloopbody {\number\i{ } }
6868
6869 %\looprepeat \forvariable{x} \whilecondition{\ifnum\x<7}
6870 %    \doloopbody {\number\x{ } }
6871
6872 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6873
6874 %\looprepeat \forvariable{j}
6875 %          \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6876 %    \doloopbody {\number\j{ } }
6877
6878 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6879 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6880 %   \doloopbody {(\number\i.\number\j) }
6881 % }
6882
6883 % infinite loop
6884 %\looprepeat \doloopbody {}
6885
6886 \ExplSyntaxOn
6887 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6888 {
6889   \IfBooleanTF { #1 }
6890   {
6891     \@ifclassloaded{ #2 }
6892     { #4 }
6893     {
6894       \hook_gput_code:nnn
6895         { file / #2.\@clsextension / after }
6896         { #3 }
6897         { #4 }
6898     }
6899   }
6900   {
6901     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6902   }
6903 }
6904
6905 \seq_new:N \g__biditools_input_file_seq
6906
6907 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6908 {
6909   \str_set:Nx \l_tmpa_str { #1 }
6910   \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }
6911   { \prg_return_true: }
6912   { \prg_return_false: }
6913 }
6914
6915 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6916 {
6917   \@ifclassloaded { #1 }
6918   {
6919     \__bidi_if_loading:nTF { #1.\@clsextension }

```





```

6920         { \prg_return_false: }
6921         { \prg_return_true: }
6922     }
6923     {
6924         \prg_return_false:
6925     }
6926 }
6927
6928 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6929 {
6930     \@ifpackageloaded { #1 }
6931     {
6932         \_bidi_if_loading:nTF { #1.\@pkgextension }
6933         { \prg_return_false: }
6934         { \prg_return_true: }
6935     }
6936     {
6937         \prg_return_false:
6938     }
6939 }
6940
6941 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6942 {
6943     \IfBooleanTF { #1 }
6944     {
6945         \bidi_if_class_loaded:nTF { #2 }
6946         { #4 }
6947         { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6948     }
6949     {
6950         \bidi_if_class_loaded:nF
6951         { #2 }
6952         { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6953     }
6954 }
6955
6956 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6957 {
6958     \IfBooleanTF { #1 }
6959     {
6960         \@ifpackageloaded{ #2 }
6961         { #4 }
6962         {
6963             \hook_gput_code:nnn
6964             { file / #2.\@pkgextension / after }
6965             { #3 }
6966             { #4 }
6967         }
6968     }
6969     {
6970         \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6971     }
6972 }
6973

```



```

6974 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6975 {
6976   \IfBooleanTF { #1 }
6977   {
6978     \bidi_if_package_loaded:nTF { #2 }
6979     { #4 }
6980     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6981   }
6982   {
6983     \bidi_if_package_loaded:nF
6984     { #2 }
6985     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6986   }
6987 }
6988
6989 \clist_new:N \l__biditools_package_clist
6990 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6991 {
6992   Can-not-prevent-package-`#1'-from-being-loaded,~
6993   since-it-has-been-loaded-already-before-line~\msg_line_number:
6994 }
6995 \clist_new:N \g__biditools_prevent_clist
6996
6997 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6998 {
6999   \clist_set:Nx \l__biditools_package_clist { #3 }
7000   \clist_map_inline:Nn \l__biditools_package_clist
7001   {
7002     \@ifpackageloaded { ##1 }
7003     {
7004       \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
7005       { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
7006     }
7007     {
7008       \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
7009       { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
7010       \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
7011       {
7012         \tl_new:c { g__biditools_exclude_package_##1_tl }
7013       }
7014       \IfValueT { #2 }
7015       {
7016         \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
7017       }
7018       \disable@package@load { ##1 }
7019       { \tl_use:c { g__biditools_exclude_package_##1_tl } }
7020     }
7021   }
7022   \clist_clear:N \l__biditools_package_clist
7023 }
7024
7025 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
7026 {
7027   \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load

```



```

7028 \clist_gclear:N \g__biditools_prevent_clist
7029 }
7030
7031 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
7032 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
7033
7034 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
7035 {
7036 \clist_set:Nx \l__biditools_package_clist { #2 }
7037 \clist_map_inline:Nn \l__biditools_package_clist
7038 {
7039 \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
7040 {
7041 \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7042 \reenable@package@load { ##1 }
7043 \IfBooleanT { #1 }
7044 { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7045 }
7046 }
7047 }
7048
7049 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7050 {
7051 \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7052 {
7053 \debug_suspend:
7054 \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7055 \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7056 \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7057 #2
7058 \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7059 \debug_resume:
7060 }
7061 }
7062
7063 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7064 {
7065 \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7066 {
7067 \debug_suspend:
7068 \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7069 \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7070 \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7071 #2
7072 \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7073 \debug_resume:
7074 }
7075 }
7076
7077 \clist_new:N \l__biditools_file_patch_clist
7078
7079 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7080 {
7081 \clist_set:Nx \l__biditools_file_patch_clist { #1 }

```



```

7082 \clist_map_inline:Nn \l__biditools_file_patch_clist
7083 {
7084   \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7085 }
7086 \clist_clear:N \l__biditools_file_patch_clist
7087 }
7088
7089 \clist_new:N \l__biditools_package_patch_clist
7090
7091 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7092 {
7093   \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7094   \clist_map_inline:Nn \l__biditools_package_patch_clist
7095   {
7096     \ApplyPatchToPackage { ##1 } [ #2 ]
7097   }
7098   \clist_clear:N \l__biditools_package_patch_clist
7099 }
7100
7101 \clist_new:N \l__biditools_class_patch_clist
7102
7103 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7104 {
7105   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7106   \clist_map_inline:Nn \l__biditools_class_patch_clist
7107   {
7108     \ApplyPatchToClass { ##1 } [ #2 ]
7109   }
7110   \clist_clear:N \l__biditools_class_patch_clist
7111 }
7112
7113 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7114 {
7115   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7116   \clist_map_inline:Nn \l__biditools_class_patch_clist
7117   {
7118     \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7119   }
7120   \clist_clear:N \l__biditools_class_patch_clist
7121 }
7122 \ExplSyntaxOff
7123
7124 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7125 \newcommand*{\bidi@UnReplaceInput}
7126 {\undeclare@file@substitution}
7127 \newcommand*{\bidi@ReplacePackage}[2]{%
7128   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7129 }
7130 \newcommand*{\bidi@UnReplacePackage}[1]{%
7131   \undeclare@file@substitution{#1.\@pkgextension}%
7132 }
7133 \newcommand*{\bidi@ReplaceClass}[2]{%
7134   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7135 }

```



```

7136 \newcommand*{\bidi@UnReplaceClass}[1]{%
7137   \undecore@file@substitution{#1.\@clsextension}%
7138 }
7139 \newcommand*{\bidi@BeforeFile}[1]{%
7140   \AddToHook{file/#1/before}%
7141 }
7142 \newcommand*{\bidi@AfterFile}[1]{%
7143   \AddToHook{file/#1/after}%
7144 }
7145 \newcommand*{\bidi@BeforeClass}[1]{%
7146   \bidi@BeforeFile{#1.\@clsextension}%
7147 }
7148 \newcommand*{\bidi@BeforePackage}[1]{%
7149   \bidi@BeforeFile{#1.\@pkgextension}%
7150 }
7151
7152 \long\def\bidi@protected@immediate@write#1#2#3{%
7153   \begingroup
7154     #2%
7155     \let\protect\@unexpandable@protect
7156     \edef\reserved@a{\immediate\write#1{#3}}%
7157     \reserved@a
7158   \endgroup
7159   \if@nobreak\ifvmode\nobreak\fi\fi
7160 }
7161
7162 \def\bidi@patch@AfterPackage#1{%
7163   \@ifpackageloaded{#1}{%
7164     \@firstofone
7165   }{%
7166     \AddToHook{package/#1/after}%
7167   }%
7168 }
7169
7170 \def\bidi@patch@AfterFile#1{%
7171   \IfFileLoadedTF{#1}{%
7172     \@firstofone
7173   }{%
7174     \AddToHook{file/#1/after}%
7175   }%
7176 }
7177
7178 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7179 {
7180   \bidi@patch@AfterFile{#1.#2}{%
7181     \ifnum\catcode`\@=11
7182       \input{#1-xetex-#3.def}%
7183     \else
7184       \bidi@storecatcode\@
7185       \makeatletter
7186       \input{#1-xetex-#3.def}%
7187       \bidi@restorecatcode\@
7188     \fi
7189   }%

```



```

7190 }
7191
7192 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7193 {
7194   \bidi@patch@AfterFile{#1.#3}{#2}%
7195 }
7196
7197 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7198 {
7199   \AddToHook{begindocument/before}{%
7200     \IfPackageLoadedF{#1}{%
7201       \ApplyPatchToFiles{#2}[#3][#4]%
7202     }%
7203   }
7204 }
7205
7206 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7207 {
7208   \AddToHook{begindocument/before}{%
7209     \IfPackageLoadedF{#2}{%
7210       \ifnum\catcode`\@=11
7211         \@ifclassloaded{#1}{%
7212           \input{#1-xetex-#3.def}%
7213         }{%
7214           \else
7215             \bidi@storecatcode\@
7216             \makeatletter
7217             \@ifclassloaded{#1}{%
7218               \input{#1-xetex-#3.def}%
7219             }{%
7220               \bidi@restorecatcode\@
7221             }%
7222           \fi
7223         }%
7224       }
7225     }
7226 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7227 {
7228   \AddToHook{begindocument/before}{%
7229     \IfPackageLoadedF{#2}{%
7230       \IfPackageLoadedT{#1}{%
7231         \ifnum\catcode`\@=11
7232           \input{#1-xetex-#3.def}%
7233         \else
7234           \bidi@storecatcode\@
7235           \makeatletter
7236           \input{#1-xetex-#3.def}%
7237           \bidi@restorecatcode\@
7238         \fi
7239       }%
7240     }%
7241   }
7242 }
7243

```



```

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

```

## 53 File `bidituftefloat.sty`

```

7282 \NeedsTeXFormat{LaTeX2e}
7283 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7284 bidi implementation of tufte float]
7285 \RequirePackage{xifthen}
7286 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7287 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7288 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@bidituftefloat@debug}}{\bi
7289 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
7290 \newboolean{\@bidituftefloat@reversegeometry}
7291 \setboolean{\@bidituftefloat@reversegeometry}{false}
7292 \DeclareOption{reversegeometry}{\setboolean{\@bidituftefloat@reversegeometry}{true}}
7293 \newboolean{\@bidituftefloat@a4paper}
7294 \DeclareOption{a4paper}{\setboolean{\@bidituftefloat@a4paper}{true}}

```



```

7295 \newboolean{@biditytfloat@bfivepaper}
7296 \DeclareOption{b5paper}{\setboolean{@biditytfloat@bfivepaper}{true}}
7297 \newboolean{@biditytfloat@symmetric}
7298 \newboolean{@biditytfloat@twoside}
7299 \DeclareOption{twoside}{%
7300 \@twosidettrue \@mparswitchtrue%
7301 \setboolean{@biditytfloat@twoside}{true}%
7302 \setboolean{@biditytfloat@symmetric}{true}%
7303 }
7304 \DeclareOption{oneside}{%
7305 \@twosidefalse \@mparswitchfalse%
7306 \setboolean{@biditytfloat@twoside}{false}%
7307 \setboolean{@biditytfloat@symmetric}{false}%
7308 }
7309 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7310 \newboolean{@biditytfloat@debug}
7311 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodet
7312 \ProcessOptions
7313 %% Globally sets the length
7314 \newcommand*{\gsetlength}[2]{%
7315 \setlength{#1}{#2}%
7316 \global#1=#1\relax%
7317 }
7318
7319 %% Set the font sizes and baselines to match biditytfloat's books
7320 \renewcommand\normalsize{%
7321 \@setfontsize\normalsize\@xpt{14}%
7322 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7323 \abovedisplayshortskip \z@ \@plus3\p@
7324 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7325 \belowdisplayskip \abovedisplayskip
7326 \let\@listi\@listI}
7327 \normalbaselineskip=14pt
7328 \normalsize
7329 \renewcommand\footnotesize{%
7330 \@setfontsize\footnotesize\@viipt{10}%
7331 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7332 \abovedisplayshortskip \z@ \@plus\p@
7333 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7334 \def\@listi{\leftmargin\leftmargini
7335 \topsep 3\p@ \@plus\p@ \@minus\p@
7336 \parsep 2\p@ \@plus\p@ \@minus\p@
7337 \itemsep \parsep}%
7338 \belowdisplayskip \abovedisplayskip
7339 }
7340 %% Paragraph indentation and separation for marginal text
7341 \newcommand{\@biditytfloat@margin@par}{%
7342 \setlength{\RaggedRightParindent}{0.5pc}%
7343 \setlength{\JustifyingParindent}{0.5pc}%
7344 \setlength{\parindent}{0.5pc}%
7345 \setlength{\parskip}{0pt}%
7346 }
7347 \RequirePackage{ragged2e}
7348 \ifthenelse{boolean{@biditytfloat@reversegeometry}}{%

```





```

7349 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginp
7350 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7351   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginp
7352   {}
7353 \ifthenelse{\boolean{@biditytfloat@b5paper}}
7354   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7355   {}}%
7356 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginp
7357 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7358   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginp
7359   {}
7360 \ifthenelse{\boolean{@biditytfloat@b5paper}}
7361   {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm
7362   {}%
7363 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7364   {}
7365   {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7366 \setlength\marginparpush{10pt}
7367 %% Font for margin items
7368 \newcommand{@biditytfloat@marginfont}{\normalfont\footnotesize}
7369 \newcommand*{@biditytfloat@caption@font}{@biditytfloat@marginfont}
7370 \newcommand*{\setcaptionfont}[1]{\renewcommand*{@biditytfloat@caption@font}{#1}}
7371 \newcommand{@biditytfloat@justification}{\justifying}%
7372 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7373 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7374 \newboolean{@biditytfloat@changepage}
7375 \IfFileExists{changepage.sty}{%
7376   \biditytfloatDebugInfoNL{Found changepage.sty}
7377   \RequirePackage[strict]{changepage}
7378   \setboolean{@biditytfloat@changepage}{true}
7379 }{%
7380   \biditytfloatDebugInfoNL{Found chngpage.sty}
7381   \RequirePackage[strict]{chngpage}
7382   \setboolean{@biditytfloat@changepage}{false}
7383 }
7384 \newboolean{@biditytfloat@odd@page}
7385 \setboolean{@biditytfloat@odd@page}{true}
7386 \newcommand*{@biditytfloat@checkoddpag}{%
7387   \checkoddpag%
7388   \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7389     \ifoddpag%
7390       \setboolean{@biditytfloat@odd@page}{true}%
7391     \else%
7392       \setboolean{@biditytfloat@odd@page}{false}%
7393     \fi%
7394   }{%
7395     \ifcpoddpag%
7396       \setboolean{@biditytfloat@odd@page}{true}%
7397     \else%
7398       \setboolean{@biditytfloat@odd@page}{false}%
7399     \fi%
7400   }%
7401 }
7402 \newlength{@biditytfloat@overhang}% used by the fullwidth environment and the running he

```



```

7403 \newlength{\@biditytfloat@fullwidth}
7404 \newlength{\@biditytfloat@caption@fill}
7405 \newcommand{\biditytfloatRecalculate}{%
7406   \setlength{\@biditytfloat@overhang}{\marginparwidth}
7407   \addtolength{\@biditytfloat@overhang}{\marginparsep}
7408
7409   \setlength{\@biditytfloat@fullwidth}{\textwidth}
7410   \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7411   \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7412
7413   \setlength{\@biditytfloat@caption@fill}{\textwidth}
7414   \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7415 }
7416 \AtBeginDocument{\biditytfloatRecalculate}
7417 \RequirePackage{optparams}% provides multiple optional arguments for commands
7418 \RequirePackage{placeins}
7419 \newsavebox{\@biditytfloat@margin@floatbox}
7420 \newenvironment{\@biditytfloat@margin@float}[2][1.2ex]{%
7421   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in
7422   \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7423   \begin{minipage}{\marginparwidth}%
7424     \@biditytfloat@caption@font%
7425     \def\@capttype{#1}%
7426     \hbox{} \vspace*{#1}%
7427     \@biditytfloat@caption@justification%
7428     \@biditytfloat@margin@par%
7429     \noindent%
7430   }
7431   {\end{minipage}%
7432   \end{lrbox}%
7433   \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7434 }
7435 \newenvironment{marginfigure}[1][1.2ex]{%
7436   {\begin{\@biditytfloat@margin@float}[#1]{figure}}
7437   {\end{\@biditytfloat@margin@float}}
7438 \newenvironment{margintable}[1][1.2ex]{%
7439   {\begin{\@biditytfloat@margin@float}[#1]{table}}
7440   {\end{\@biditytfloat@margin@float}}
7441 \newcommand*{\@biditytfloat@justification@autodetect}{\justifying}%
7442
7443 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
7444 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7445   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}{%
7446     {\def\@biditytfloat@float@debug@info{#1}}%
7447     {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7448 }
7449 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7450 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@deb
7451 \newboolean{\@biditytfloat@float@recto}
7452 \newcommand{\forcerectofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@bidityf
7453 \newcommand{\forceversofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@bidityf
7454 \newsavebox{\@biditytfloat@figure@box}
7455 \newsavebox{\@biditytfloat@caption@box}
7456 \let\@biditytfloat@orig@float\float

```



```

7457 \let\@biditytfloat@orig@endfloat\endfloat
7458 \newlength{\@biditytfloat@caption@vertical@offset}
7459 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7460 \newcommand{\@biditytfloat@stored@shortcaption}{ }
7461 \newcommand{\@biditytfloat@stored@caption}{ }
7462 \newcommand{\@biditytfloat@stored@label}{ }
7463 \long\def\@biditytfloat@caption[#1][#2]#3{%
7464   \ifthenelse{\isempty{#1}}%
7465     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7466     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7467   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to
7468   \gdef\@biditytfloat@stored@caption{#3}%
7469 }
7470 \newcommand{\@biditytfloat@label}[1]{%
7471   \gdef\@biditytfloat@stored@label{#1}%
7472 }
7473 \newcommand{\@biditytfloat@fps}{ }
7474 \newboolean{\@biditytfloat@float@star}
7475 \newlength{\@biditytfloat@float@contents@width}
7476 \newenvironment{\@biditytfloat@float}[3][htbp]%
7477 {% begin \@biditytfloat@float
7478   % Should this float be full-width or just text-width?
7479   \ifthenelse{\equal{#3}{star}}%
7480     {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
7481     {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
7482   % Check page side (recto/verso) and store detected value -- can be overridden in environ
7483   \@biditytfloat@checkoddpage%
7484   \ifthenelse{\boolean{\@biditytfloat@odd@page}}%
7485     {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug{Det
7486     {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug{De
7487   % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-page
7488   \renewcommand{\@biditytfloat@fps}{#1}%
7489   \@biditytfloat@float@debug{Allowed positions: [ #1 ]}%
7490   \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7491     {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bo
7492     {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [to
7493   % Capture the contents of the \caption and \label commands to use later
7494   \global\let\@biditytfloat@orig@caption\caption%
7495   \global\let\@biditytfloat@orig@label\label%
7496   \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[ ] [Opt]}}%
7497   \renewcommand{\label}[1]{\@biditytfloat@label{#1}}%
7498   % Handle subfigure package compatibility
7499   \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7500     \bidi@patchcmd{\subfigure}{%
7501       \let\subfig@oldlabel=\label
7502     }{%
7503       \let\subfig@oldlabel=\@biditytfloat@orig@label
7504     }
7505   }
7506   {}
7507   \let\subtable=\subfigure
7508 }{}% subfigure package is not loaded
7509 \@biditytfloat@orig@float{#2}[#1]%
7510 \ifthenelse{\boolean{\@biditytfloat@float@star}}%

```



```

7511     {\setlength{\@bituftefloat@float@contents@width}{\@bituftefloat@fullwidth}}%
7512     {\setlength{\@bituftefloat@float@contents@width}{\textwidth}}%
7513     \begin{lrbox}{\@bituftefloat@figure@box}%
7514     \begin{minipage}[\floatalignment]{\@bituftefloat@float@contents@width}\hbox{%
7515 }{% end @bituftefloat@float
7516     \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}%
7517     \end{minipage}%
7518     \end{lrbox}%
7519     % build the caption box
7520     \begin{lrbox}{\@bituftefloat@caption@box}%
7521     \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7522     \ifthenelse{\NOT\equal{\@bituftefloat@stored@caption}}{\@bituftefloat@orig@ca
7523     \ifthenelse{\NOT\equal{\@bituftefloat@stored@label}}{\@bituftefloat@orig@labe
7524     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7525     \end{minipage}%
7526     \end{lrbox}%
7527     % now typeset the stored boxes
7528     \begin{fullwidth}%
7529     \begin{minipage}[\floatalignment]{\linewidth}%
7530     \ifthenelse{\boolean{\@bituftefloat@float@star}}%
7531     {\@bituftefloat@float@fullwidth[\@bituftefloat@caption@vertical@offset]{\@bid
7532     {\@bituftefloat@float@textwidth[\@bituftefloat@caption@vertical@offset]{\@bid
7533     \end{minipage}%
7534     \end{fullwidth}%
7535     \@bituftefloat@orig@endfloat% end original LaTeX float environment
7536     % output debug info
7537     \ifthenelse{\boolean{\@bituftefloat@debug}}{%
7538     \typeout{^^J^^J----- bituftefloat package float information -----}%
7539     \ifthenelse{\equal{\@bituftefloat@stored@label}}{%
7540     {\typeout{Warning: Float unlabeled!}}%
7541     {\typeout{Float label: [\@bituftefloat@stored@label]}}%
7542     \typeout{Page number: [\thepage]}%
7543     \def\MessageBreak{^^J}%
7544     \typeout{\@bituftefloat@float@debug@info}%
7545     \ifthenelse{\boolean{\@bituftefloat@symmetric}}%
7546     {\typeout{Symmetric: [true]}}%
7547     {\typeout{Symmetric: [false]}}%
7548     \typeout{-----^^J^^J}%
7549     }{}%
7550     % reset commands and temp boxes and captions
7551     \gdef\@bituftefloat@float@debug@info{}%
7552     \let\caption\@bituftefloat@orig@caption%
7553     \let\label\@bituftefloat@orig@label%
7554     \begin{lrbox}{\@bituftefloat@figure@box}\hbox{}\end{lrbox}%
7555     \begin{lrbox}{\@bituftefloat@caption@box}\hbox{}\end{lrbox}%
7556     \gdef\@bituftefloat@stored@shortcaption{}%
7557     \gdef\@bituftefloat@stored@caption{}%
7558     \gdef\@bituftefloat@stored@label{}%
7559     \gsetlength{\@bituftefloat@caption@vertical@offset}{0pt}% reset caption offset
7560     }
7561     \newcommand{\@bituftefloat@float@textwidth}[3][0pt]{%
7562     \ifthenelse{\NOT\boolean{\@bituftefloat@symmetric}}\OR\boolean{\@bituftefloat@float@rect
7563     % asymmetric or page is odd, so caption is on the right
7564     \hbox{%

```



```

7565     \usebox{#2}%
7566     \hspace{\marginparsep}%
7567     \smash{\raisebox{#1}{\usebox{#3}}}%
7568   }
7569   \@bituftefloat@float@debug{Caption position: [right]]%
7570 }{% symmetric pages and page is even, so caption is on the left
7571   \hbox{%
7572     \smash{\raisebox{#1}{\usebox{#3}}}%
7573     \hspace{\marginparsep}%
7574     \usebox{#2}%
7575   }
7576   \@bituftefloat@float@debug{Caption position: [left]]%
7577 }%
7578 }
7579 \newcommand{\@bituftefloat@float@fullwidth}[3][Opt]{%
7580   \ifthenelse{\equal{\floatalignment}{b}}{%
7581     {% place caption above figure
7582       \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@
7583         {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@bituftefloat@float@debu
7584         {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@bituftefloat@float@debu
7585     }{% place caption below figure
7586       \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@
7587         {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@bituftefloat@float@debu
7588         {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@bituftefloat@float@debu
7589     }%
7590   }
7591 \renewenvironment{figure}[1][htbp]{%
7592   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{}}
7593   {\end{@bituftefloat@float}}
7594 \renewenvironment{table}[1][htbp]{%
7595   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{}}
7596   {\end{@bituftefloat@float}}
7597 \renewenvironment{figure*}[1][htbp]{%
7598   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{star}}
7599   {\end{@bituftefloat@float}}
7600 \renewenvironment{table*}[1][htbp]{%
7601   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{star}}
7602   {\end{@bituftefloat@float}}
7603 \newenvironment{fullwidth}{%
7604   {\ifthenelse{\boolean{@bituftefloat@symmetric}}{%
7605     {\ifthenelse{\boolean{@bituftefloat@changepage}}{\begin{adjustwidth*}}{-\@bituftef
7606     {\begin{adjustwidth}}{-\@bituftefloat@overhang}}%
7607   }%
7608   {\ifthenelse{\boolean{@bituftefloat@symmetric}}{%
7609     {\ifthenelse{\boolean{@bituftefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth
7610     {\end{adjustwidth}}}%
7611   }
7612 \long\def\@caption#1[#2]#3{%
7613   \par%
7614   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7615     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7616   \begingroup%
7617     \@parboxrestore%
7618     \if@minipage%

```



```

7619     \@setminipage%
7620     \fi%
7621     \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7622     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7623     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7624     \endgroup}
7625 %%
7626 % Turns newlines into spaces. Based on code from the `titlesec' package.
7627 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
7628   \@ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}%
7629 }
7630 \def\@biditytfloat@newlinetospace@i{%
7631   \ifdim\lastskip>\z@\else\space\fi
7632   \ignorespaces%
7633 }
7634 \DeclareRobustCommand{\newlinetospace}[1]{%
7635   \let\@biditytfloat@orig@cr\\% save the original meaning of \\
7636   \def\\{\@biditytfloat@newlinetospace}% turn \\ and \\* into \space
7637   \let\newline\\% turn \newline into \space
7638   #1%
7639   \let\\\\@biditytfloat@orig@cr% revert to original meaning of \\
7640 }
7641 \RequirePackage{fancyhdr}
7642 \pagestyle{fancy}
7643 \AtBeginDocument{%
7644   \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7645     {\fancyhfoffset[LE,RO]{\@biditytfloat@overhang}}{
7646     {\fancyhfoffset[RE,RO]{\@biditytfloat@overhang}}
7647 }
7648 % The running heads/feet don't have rules
7649 \renewcommand{\headrulewidth}{0pt}
7650 \renewcommand{\footrulewidth}{0pt}
7651 % The 'fancy' page style is the default style for all pages.
7652 \fancyhf{} % clear header and footer fields
7653   \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7654     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7655     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7656     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7657 % The `plain' page style is used on chapter opening pages.
7658 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7659 % bottom of pages -- the folios are unexpressed.
7660 \fancypagestyle{plain}{
7661   \fancyhf{} % clear header and footer fields
7662   % Uncomment the following five lines of code if you want the opening page
7663   % of the chapter to express the folio in the lower outside corner.
7664   % \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7665   %   {\fancyfoot[LE,RO]{\thepage}}{
7666   %   {\fancyfoot[RE,RO]{\thepage}}
7667 }
7668 % The `empty' page style suppresses all headers and footers.
7669 % It's used on title pages and `intentionally blank' pages.
7670 \fancypagestyle{empty}{
7671   \fancyhf{} % clear header and footer fields
7672 }

```



```

7673 \def\morefloats{% provides a total of 52 floats
7674 \ifthenelse{\isundefined{\bx@S}}{%
7675 \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7676 \newinsert\bx@S
7677 \newinsert\bx@T
7678 \newinsert\bx@U
7679 \newinsert\bx@V
7680 \newinsert\bx@W
7681 \newinsert\bx@X
7682 \newinsert\bx@Y
7683 \newinsert\bx@Z
7684 \newinsert\bx@a
7685 \newinsert\bx@b
7686 \newinsert\bx@c
7687 \newinsert\bx@d
7688 \newinsert\bx@e
7689 \newinsert\bx@f
7690 \newinsert\bx@g
7691 \newinsert\bx@h
7692 \newinsert\bx@i
7693 \newinsert\bx@j
7694 \newinsert\bx@k
7695 \newinsert\bx@l
7696 \newinsert\bx@m
7697 \newinsert\bx@n
7698 \newinsert\bx@o
7699 \newinsert\bx@p
7700 \newinsert\bx@q
7701 \newinsert\bx@r
7702 \newinsert\bx@s
7703 \newinsert\bx@t
7704 \newinsert\bx@u
7705 \newinsert\bx@v
7706 \newinsert\bx@w
7707 \newinsert\bx@x
7708 \newinsert\bx@y
7709 \newinsert\bx@z
7710 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7711 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7712 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7713 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7714 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7715 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7716 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7717 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7718 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7719 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7720 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7721 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7722 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7723 \ifthenelse{\isundefined{\bx@AA}}{%
7724 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7725 \newinsert\bx@AA
7726 \newinsert\bx@BB

```





```

7727 \newinsert\bx@CC
7728 \newinsert\bx@DD
7729 \newinsert\bx@EE
7730 \newinsert\bx@FF
7731 \newinsert\bx@GG
7732 \newinsert\bx@HH
7733 \newinsert\bx@II
7734 \newinsert\bx@JJ
7735 \newinsert\bx@KK
7736 \newinsert\bx@LL
7737 \newinsert\bx@MM
7738 \newinsert\bx@NN
7739 \newinsert\bx@OO
7740 \newinsert\bx@PP
7741 \newinsert\bx@QQ
7742 \newinsert\bx@RR
7743 \newinsert\bx@SS
7744 \newinsert\bx@TT
7745 \newinsert\bx@UU
7746 \newinsert\bx@VV
7747 \newinsert\bx@WW
7748 \newinsert\bx@XX
7749 \newinsert\bx@YY
7750 \newinsert\bx@ZZ
7751 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7752 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7753 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7754 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7755 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7756 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7757 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7758 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7759 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7760 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7761 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7762 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7763 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7764 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7765 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7766 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7767 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7768 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7769 }{%
7770 \bidituftefloatError{You may only call \string\morefloats\space twice. See the\Messag
7771 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space o
7772 }%
7773 }%
7774 }
7775 \newboolean{@bidituftefloat@packages@subfigure}
7776 \setboolean{@bidituftefloat@packages@subfigure}{false}
7777 \AtBeginDocument{%
7778 \@ifpackageloaded{subfigure}
7779 {\GlobalSetBoolean{@bidituftefloat@packages@subfigure}{true}}
7780 {\GlobalSetBoolean{@bidituftefloat@packages@subfigure}{false}}}%

```





```

7781 }
7782 \AtBeginDocument{%
7783   \@ifpackageloaded{float}{%
7784     % Save the redefined float environment (instead of the LaTeX float environment)
7785     \let\@bittuftefloat@orig@float\@float
7786     \let\@bittuftefloat@orig@endfloat\end@float
7787
7788     % Define Tuftian float styles (with the caption in the margin)
7789     \newcommand{\floatc@bittuftefloatplain}[2]{%
7790       \begin{lrbox}{\@bittuftefloat@caption@box}%
7791         \begin{minipage}[floatalignment]{\marginparwidth}\hbox{%
7792           \@bittuftefloat@caption@font{\@fs@cfont #1:} #2\par%
7793         }\end{minipage}%
7794       \end{lrbox}%
7795       \smash{\hspace{\@bittuftefloat@caption@fill}}\usebox{\@bittuftefloat@caption@box}}%
7796   }
7797   \newcommand{\fs@bittuftefloatplain}{%
7798     \def\@fs@cfont{\@bittuftefloat@caption@font}%
7799     \let\@fs@capt\floatc@bittuftefloatplain%
7800     \def\@fs@pre{}%
7801     \def\@fs@post{}%
7802     \def\@fs@mid{}%
7803     \let\@fs@iftopcapt\iftrue%
7804   }
7805   \let\fs@bittuftefloatplaintop=\fs@bittuftefloatplain
7806   \let\floatc@bittuftefloatplaintop=\floatc@bittuftefloatplain
7807   \newcommand\floatc@bittuftefloatruled[2]{%
7808     {\@fs@cfont #1} #2\par%
7809   }
7810   \newcommand\fs@bittuftefloatruled{%
7811     \def\@fs@cfont{\@bittuftefloat@caption@font}%
7812     \let\@fs@capt\floatc@bittuftefloatplain%
7813     \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7814     \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7815     \def\@fs@mid{}%
7816     \let\@fs@iftopcapt\iftrue%
7817   }
7818   \newcommand\fs@bittuftefloatboxed{%
7819     \def\@fs@cfont{}%
7820     \let\@fs@capt\floatc@bittuftefloatplain%
7821     \def\@fs@pre{%
7822       \setbox\@currbox\vbox{\hbadness10000
7823         \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7824           \hrule \hbox to\hsize{\vrule\kern3pt
7825             \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7826     }%
7827     \def\@fs@mid{\kern2pt}%
7828     \def\@fs@post{}%
7829     \let\@fs@iftopcapt\iftrue%
7830   }
7831 }{%
7832   % Nothing to do
7833 }
7834 }

```



```

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

```

## 54 File bidituftesidenote.sty

```

7848 \NeedsTeXFormat{LaTeX2e}
7849 \ProvidesPackage{bidiuftesidenote}[2017/08/09 v0.4
7850 bidi implementation of tufte sidenote]
7851 \RequirePackage{xifthen}
7852 \RequirePackage{ragged2e}
7853 \RequirePackage{setspace}
7854 \RequirePackage{bidiutols}
7855 \def\bidiuftesidenotemarginpar{%
7856   \ifhmode
7857     \@bsphack
7858     \@floatpenalty -\@Mii
7859   \else
7860     \@floatpenalty-\@Miii
7861   \fi
7862   \ifinner
7863     \@parmoderr
7864     \@floatpenalty\z@
7865   \else
7866     \@next\@currbox\@freelist{}{}%
7867     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7868     {\@floatpenalty\z@
7869       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7870   \fi
7871   \@ifnextchar [\@bidiuftesidenotexmpar\@bidiuftesidenoteympar]
7872 \long\def\@bidiuftesidenotexmpar[#1]#2{%
7873   \@bidiuftesidenotesavemarbox\@marbox{#1}%
7874   \@bidiuftesidenotesavemarbox\@currbox{#2}%
7875   \@xympar}
7876 \long\def\@bidiuftesidenoteympar#1{%
7877   \@bidiuftesidenotesavemarbox\@marbox{#1}%
7878   \global\setbox\@currbox\copy\@marbox
7879   \@xympar}
7880 \long\def \@bidiuftesidenotesavemarbox #1#2{%
7881   \global\setbox #1%
7882     \color@vbox
7883     \vtop{%
7884       \hsize\marginparwidth
7885       \@parboxrestore

```



```

7886         \@bidityftesidenotemarginparreset
7887         #2%
7888         \@minipagefalse
7889         \outer@nobreak
7890         }%
7891     \color@endbox
7892 }
7893 \def \@bidityftesidenotemarginparreset {%
7894     \reset@font
7895     \normalsize
7896     \@minipagetrue
7897     \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7898 }
7899 \def\LTRbidityftesidenotemarginpar{%
7900     \ifhmode
7901         \@bsphack
7902         \@floatpenalty -\@Mii
7903     \else
7904         \@floatpenalty-\@Miii
7905     \fi
7906     \ifinner
7907         \@parmoderr
7908         \@floatpenalty\z@
7909     \else
7910         \@next\@currbox\@freelist{}{}%
7911         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7912         {\@floatpenalty\z@
7913             \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7914     \fi
7915     \@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7916 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7917     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7918     \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7919     \@xympar}
7920 \long\def\@LTRbidityftesidenoteympar#1{%
7921     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7922     \global\setbox\@currbox\copy\@marbox
7923     \@xympar}
7924 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7925     \global\setbox #1%
7926         \color@vbox
7927         \vtop{%
7928             \hsize\marginparwidth
7929             \@parboxrestore
7930             \@LTRbidityftesidenotemarginparreset
7931             #2%
7932             \@minipagefalse
7933             \outer@nobreak
7934             }%
7935     \color@endbox
7936 }
7937 \def \@LTRbidityftesidenotemarginparreset {%
7938     \reset@font
7939     \normalsize

```



```

7940         \@minipagetrue
7941         \everypar{\@minipagefalse\everypar{}\beginL}%
7942 }
7943 \def\RTLbidityftesidenotemarginpar{%
7944     \ifhmode
7945         \@bsphack
7946         \@floatpenalty -\@Mii
7947     \else
7948         \@floatpenalty-\@Miii
7949     \fi
7950     \ifinner
7951         \@parmoderr
7952         \@floatpenalty\z@
7953     \else
7954         \@next\@currbox\@freelist{}\{}%
7955         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7956         {\@floatpenalty\z@
7957         \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7958     \fi
7959     \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteypar}
7960 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7961     \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7962     \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7963     \@xympar}
7964 \long\def\@RTLbidityftesidenoteypar#1{%
7965     \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7966     \global\setbox\@currbox\copy\@marbox
7967     \@xympar}
7968 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7969     \global\setbox #1%
7970     \color@vbox
7971     \vtop{%
7972         \hsize\marginparwidth
7973         \@parboxrestore
7974         \@RTLbidityftesidenotemarginparreset
7975         #2%
7976         \@minipagefalse
7977         \outer@nobreak
7978     }%
7979     \color@endbox
7980 }
7981 \def \@RTLbidityftesidenotemarginparreset {%
7982     \reset@font
7983     \normalsize
7984     \@minipagetrue
7985     \everypar{\@minipagefalse\everypar{}\beginR}%
7986 }
7987 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7988 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7989 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7990 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7991 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7992 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7993 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}

```



```

7994 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7995 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
7996 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7997 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7998 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
7999 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
8000 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
8001 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
8002 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
8003 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
8004 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
8005 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
8006 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
8007 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{#1}}
8008 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@normal}
8009 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@normal}
8010 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@normal}
8011 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
8012 \newcommand{\@bidityftesidenote@margin@par}{%
8013   \setlength{\RaggedRightParindent}{0.5pc}%
8014   \setlength{\JustifyingParindent}{0.5pc}%
8015   \setlength{\parindent}{0.5pc}%
8016   \setlength{\parskip}{0pt}%
8017 }
8018 %%
8019 % Globally sets the length
8020 \ifundefined{gsetlength}{%
8021 \newcommand*{gsetlength}[2]{%
8022   \setlength{#1}{#2}%
8023   \global#1=#1\relax%
8024 }%
8025 }{}
8026
8027 %%
8028 % A function that removes leading and trailing spaces from the supplied macro.
8029 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
8030 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
8031 % being trimmed of leading and trailing white space.
8032 \catcode`\Q=3
8033 \def\@bidityftesidenote@trim@spaces#1{%
8034   % Use grouping to emulate a multi-token afterassignment queue
8035   \begingroup%
8036   % Put ``\toks 0 {' into the afterassignment queue
8037   \aftergroup\toks\aftergroup0\aftergroup{%
8038     % Apply \trimb to the replacement text of #1, adding a leading
8039     % \noexpand to prevent brace stripping and to serve another purpose
8040     % later.
8041     \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8042   % Transfer the trimmed text back into #1.
8043   \edef#1{\the\toks0}%
8044 }
8045 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8046 % clean up any leftover bizarre Qs, and trim a leading space. In
8047 % order for \trimc to work properly we need to put back a Q first.

```



```

8048 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8049 % Execute \vfuzz assignment to remove leading space; the \noexpand
8050 % will now prevent unwanted expansion of a macro or other expandable
8051 % token at the beginning of the trimmed text. The \endgroup will feed
8052 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8053 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8054 \catcode`\Q=11
8055 %%
8056 % Citations should go in the margin as sidenotes
8057
8058 \RequirePackage{natbib}
8059 \RequirePackage{bibentry} % allows bibitems to be typeset outside the bibliography en
8060 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8061 \renewcommand\BR@b@bibitem[2] []{%
8062   \ifthenelse{\isempty{#1}}{%
8063     {\BR@bibitem{#2}}%
8064     {\BR@bibitem{#1}{#2}}%
8065     \BR@c@bibitem{#2}%
8066 }
8067 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8068 %%
8069 % Normal \cite behavior
8070 \newcounter{@bidityftesidenote@num@bibkeys}%
8071 \newcommand{\@bidityftesidenote@normal@cite}[2] [Opt]{%
8072   % Snag the last bibentry in the list for later comparison
8073   \let\@temp@last@bibkey\@empty%
8074   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8075   \sidenote[] [1]{%
8076     % Loop through all the bibentries, separating them with semicolons and spaces
8077     \normalsize\normalfont\@bidityftesidenote@citation@font%
8078     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8079     \@for\@temp@bibkeyx:=#2\do{%
8080       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8081       {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }%
8082       \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8083       \bibentry{\@temp@bibkeyx}}%
8084       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8085       \bibentry{\@temp@bibkeyx};\ }%
8086       \stepcounter{@bidityftesidenote@num@bibkeys}%
8087     }%
8088   }%
8089 }
8090 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2] [Opt]{%
8091   % Snag the last bibentry in the list for later comparison
8092   \let\@temp@last@bibkey\@empty%
8093   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8094   \LTRsidenote[] [1]{%
8095     % Loop through all the bibentries, separating them with semicolons and spaces
8096     \normalsize\normalfont\@bidityftesidenote@LTRcitation@font%
8097     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8098     \@for\@temp@bibkeyx:=#2\do{%
8099       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8100       {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }%
8101       \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey

```



```

8102         \bibentry{\@temp@bibkeyx}}%
8103         {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8104         \bibentry{\@temp@bibkeyx};\ }%
8105         \stepcounter{\@bidituftesidenote@num@bibkeys}%
8106     }%
8107 }%
8108 }
8109 \newcommand{\@bidituftesidenote@normal@cite}[2][Opt]{%
8110     % Snag the last bibentry in the list for later comparison
8111     \let\@temp@last@bibkey\@empty%
8112     \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8113     \RTLsidenote[] [#1]{%
8114         % Loop through all the bibentries, separating them with semicolons and spaces
8115         \normalsize\normalfont\@bidituftesidenote@citation@font%
8116         \setcounter{\@bidituftesidenote@num@bibkeys}{0}%
8117         \@for\@temp@bibkeyx:=#2\do{%
8118             \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8119             {\ifthenelse{\equal{\value{\@bidituftesidenote@num@bibkeys}}{0}}{\and\ }%
8120             \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8121             \bibentry{\@temp@bibkeyx}}%
8122             {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8123             \bibentry{\@temp@bibkeyx};\ }%
8124             \stepcounter{\@bidituftesidenote@num@bibkeys}%
8125         }%
8126     }%
8127 }
8128 %%
8129 % Macros for holding the list of cite keys until after the \sidenote
8130 \gdef\@bidituftesidenote@citations{}% list of cite keys
8131 \newcommand{\@bidituftesidenote@add@citation}[1]{\relax% adds a new bibkey to the list of cit
8132     \ifx\@bidituftesidenote@citations\@empty\else
8133         \g@addto@macro\@bidituftesidenote@citations{,}% separate by commas
8134     \fi
8135     \g@addto@macro\@bidituftesidenote@citations{#1}
8136 }
8137 \newcommand{\@bidituftesidenote@print@citations}[1][Opt]{% puts the citations in a margin n
8138     % Snag the last bibentry in the list for later comparison
8139     \let\@temp@last@bibkey\@empty%
8140     \@for\@temp@bibkey:=\@bidituftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}
8141     \marginpar{%
8142         \hbox{} \vspace*{#1}%
8143         \@bidituftesidenote@citation@font%
8144         \@bidituftesidenote@citation@justification%
8145         \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
8146         \vspace*{-1\baselineskip}%
8147         % Loop through all the bibentries, separating them with semicolons and spaces
8148         \setcounter{\@bidituftesidenote@num@bibkeys}{0}%
8149         \@for\@temp@bibkeyx:=\@bidituftesidenote@citations\do{%
8150             \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8151             {\ifthenelse{\equal{\value{\@bidituftesidenote@num@bibkeys}}{0}}{\and\ }%
8152             \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8153             \bibentry{\@temp@bibkeyx}}%
8154             {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8155             \bibentry{\@temp@bibkeyx};\ }%

```



```

8156     \stepcounter{@biditytesidenote@num@bibkeys}%
8157   }%
8158 }%
8159 }
8160 %%
8161 % \cite behavior when executed within a sidenote
8162 \newcommand{@biditytesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8163 \newcommand{@biditytesidenote@infootnote@cite}[1]{%
8164   \@biditytesidenote@add@citation{#1}
8165 }
8166 %%
8167 % Set the default \cite style. This is set and reset by the \sidenote command.
8168 \let\cite\@biditytesidenote@normal@cite
8169 \let\LTRcite\@bidityteLTRsidenote@normal@cite
8170 \let\RTLcite\@bidityteRTLsidenote@normal@cite
8171 %%
8172 % Transform existing \footnotes into \sidenotes
8173 % Sidenote: ``Where God meant footnotes to go.''' ---biditytesidenote
8174 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arg
8175 \providecommand{\footnotelayout}{\@biditytesidenote@sidenote@font\@biditytesidenote@sidenote}
8176 \renewcommand{\footnotelayout}{\@biditytesidenote@sidenote@font\@biditytesidenote@sidenote}
8177 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8178 % sidenote's text block.
8179 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@biditytesidenote}
8180 % Set the in-text footnote mark in the same typeface as the body text itself.
8181 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnot
8182 \providecommand*\multiplefootnotemarker}{3sp}
8183 \providecommand*\multfootsep}{,}
8184 \bidi@patch@AfterPackage{bidi}{%
8185 \renewcommand{\@footnotemark}{%
8186   \leavevmode%
8187   \ifhmode%
8188     \edef\@x@sf{\the\spacefactor}%
8189     \@biditytesidenote@check@multiple@sidenotes%
8190     \nobreak%
8191     \fi%
8192     \@makefnmark%
8193     \ifhmode\spacefactor\@x@sf\fi%
8194     \relax%
8195 }%
8196 }
8197 \newcommand{@biditytesidenote@check@multiple@sidenotes}{%
8198   \ifdim\lastkern=\multiplefootnotemarker\relax%
8199     \edef\@x@sf{\the\spacefactor}%
8200     \unkern%
8201     \textsuperscript{\multfootsep}%
8202     \spacefactor\@x@sf\relax%
8203     \fi
8204 }
8205 \bidi@patch@AfterPackage{bidi}{%
8206 \renewcommand\@footnotetext[2][Opt]{%
8207   \biditytesidenotemarginpar{%
8208     \hbox{\vspace*{#1}}%
8209     \def\baselinestretch {\setspace@singlespace}%

```





```

8210 \reset@font%
8211 \bidi@@footnotetext@font% \reset@font\footnotesize%
8212 \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8213 \vspace*{-1\baselineskip}\noindent%
8214 \protected@edef\@currentlabel{%
8215     \csname p@footnote\endcsname\@thefnmark%
8216 }%
8217 \color@begingroup%
8218     \@makefntext{%
8219         \ignorespaces#2%
8220     }%
8221 \color@endgroup%
8222 }%
8223 }%
8224 \renewcommand\LTRfootnotetext[2][Opt]{%
8225     \LTRbidiuftesidenotemarginpar{%
8226         \hbox{}\vspace*{#1}%
8227         \def\baselinestretch {\setspace@singlespace}%
8228         \reset@font%
8229         \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
8230         \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8231         \vspace*{-1\baselineskip}\noindent%
8232         \protected@edef\@currentlabel{%
8233             \csname p@footnote\endcsname\@thefnmark%
8234         }%
8235         \color@begingroup%
8236             \@makefntext{%
8237                 \ignorespaces#2%
8238             }%
8239         \color@endgroup%
8240     }%
8241 }%
8242 \renewcommand\RTLfootnotetext[2][Opt]{%
8243     \RTLbidiuftesidenotemarginpar{%
8244         \hbox{}\vspace*{#1}%
8245         \def\baselinestretch {\setspace@singlespace}%
8246         \reset@font%
8247         \bidi@@RTLfootnotetext@font% \reset@font\footnotesize%
8248         \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8249         \vspace*{-1\baselineskip}\noindent%
8250         \protected@edef\@currentlabel{%
8251             \csname p@footnote\endcsname\@thefnmark%
8252         }%
8253         \color@begingroup%
8254             \@makefntext{%
8255                 \ignorespaces#2%
8256             }%
8257         \color@endgroup%
8258     }%
8259 }%
8260 }
8261 %
8262 % Define \sidenote command. Can handle \cite.
8263 \newlength{\@bidiuftesidenote@sidenote@vertical@offset}

```



```

8264 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8265 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8266 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8267   \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8268   \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8269   \ifthenelse{\NOT\isempty{#2}}{%
8270     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8271   }{%
8272     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8273   }%
8274   \ifthenelse{\isempty{#1}}{%
8275     % no specific footnote number provided
8276     \stepcounter\@mpfn%
8277     \protected@xdef\@thefnmark{\thempfn}%
8278     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8279   }{%
8280     % specific footnote number provided
8281     \begingroup%
8282       \csname c@\@mpfn\endcsname #1\relax%
8283       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8284     \endgroup%
8285     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8286   }%
8287   \@bidityftesidenote@print@citations%                print any citations
8288   \let\cite\@bidityftesidenote@normal@cite%           go back to using normal in-text \cite com
8289   \let\LTRcite\@bidityftelTRSidenote@normal@cite%     go back to using normal in-text \LT
8290   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%     go back to using normal in-text \RT
8291   \unskip\ignorespaces%                               remove extra white space
8292   \kern-\multiplefootnotemarker%                      remove \kern left behind by sidenote
8293   \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8294 }
8295 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8296   \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8297   \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8298   \ifthenelse{\NOT\isempty{#2}}{%
8299     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8300   }{%
8301     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8302   }%
8303   \ifthenelse{\isempty{#1}}{%
8304     % no specific footnote number provided
8305     \stepcounter\@mpfn%
8306     \protected@xdef\@thefnmark{\thempfn}%
8307     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8308   }{%
8309     % specific footnote number provided
8310     \begingroup%
8311       \csname c@\@mpfn\endcsname #1\relax%
8312       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8313     \endgroup%
8314     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8315   }%
8316   \@bidityftesidenote@print@citations%                print any citations
8317   \let\cite\@bidityftesidenote@normal@cite%           go back to using normal in-text \cite com

```



```

8318 \let\LTRcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \LT
8319 \let\RTLcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \RT
8320 \unskip\ignorespaces%                               remove extra white space
8321 \kern-\multiplefootnotemarker%                     remove \kern left behind by sidenote
8322 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8323 }
8324 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8325 \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8326 \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8327 \ifthenelse{\NOT\isempty{#2}}{%
8328 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8329 }{%
8330 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8331 }%
8332 \ifthenelse{\isempty{#1}}{%
8333 % no specific footnote number provided
8334 \stepcounter\@mpfn%
8335 \protected@xdef\@thefnmark{\thempfn}%
8336 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8337 }{%
8338 % specific footnote number provided
8339 \begingroup%
8340 \csname c@\@mpfn\endcsname #1\relax%
8341 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8342 \endgroup%
8343 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8344 }%
8345 \@bidityftesidenote@print@citations%                print any citations
8346 \let\cite\@bidityftesidenote@normal@cite%          go back to using normal in-text \cite com
8347 \let\LTRcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \LT
8348 \let\RTLcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \RT
8349 \unskip\ignorespaces%                               remove extra white space
8350 \kern-\multiplefootnotemarker%                     remove \kern left behind by sidenote
8351 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8352 }
8353 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8354 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8355 \newcommand{\RTLSidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8356 \bidi@patch@AfterPackage{bidi}{%
8357 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8358 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8359 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8360 }
8361 %%
8362 % Sidenote without the footnote mark
8363 \newcommand\marginnote[2][Opt]{%
8364 \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8365 \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8366 \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidity
8367 \@bidityftesidenote@print@citations%                print any citations
8368 \let\cite\@bidityftesidenote@normal@cite%          go back to using normal in-text \cite com
8369 \let\LTRcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \LT
8370 \let\RTLcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \RT
8371 }

```



```

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

```

## 55 File bidityftetoc.sty

```

8390 \NeedsTeXFormat{LaTeX2e}
8391 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8392 bidi implementation of tufte toc]
8393 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8394 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8395 \newcommand{\bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8396 %%
8397 % Turn off section numbering
8398 \setcounter{secnumdepth}{-1}
8399 \newboolean{@bidityftetoc@toc}
8400 \setboolean{@bidityftetoc@toc}{true}
8401 \DeclareOption{notoc}{\setboolean{@bidityftetoc@toc}{false}}
8402 \DeclareOption{toc}{\setboolean{@bidityftetoc@toc}{true}}
8403 \ProcessOptions
8404 %%
8405 % Make Tuftean-style section headings and TOC formatting
8406 \bidi@patch@AfterPackage{bidi}{%
8407   \titleformat{\chapter}%
8408     [display]% shape
8409     {\relax\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8410     {\itshape\huge\thechapter}% label
8411     {0pt}% horizontal separation between label and title body
8412     {\huge\rmfamily\itshape}% before the title body
8413     [\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the titl
8414   \titleformat{\section}%
8415     [hang]% shape
8416     {\normalfont\Large\itshape}% format applied to label+text
8417     {\thesection}% label
8418     {1em}% horizontal separation between label and title body
8419     {}% before the title body
8420     []% after the title body
8421   \titleformat{\subsection}%
8422     [hang]% shape

```



```

8423 {\normalfont\large\itshape}% format applied to label+text
8424 {\thesubsection}% label
8425 {1em}% horizontal separation between label and title body
8426 {}% before the title body
8427 []% after the title body
8428 \titleformat{\paragraph}%
8429 [runin]% shape
8430 {\normalfont\itshape}% format applied to label+text
8431 {\theparagraph}% label
8432 {1em}% horizontal separation between label and title body
8433 {}% before the title body
8434 []% after the title body
8435 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8436 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8437 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8438 }
8439 % Subsubsection and following section headings shouldn't be used.
8440 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8441 \renewcommand\subsubsection{%
8442   \biditytetocError{\noexpand\subsubsection is undefined by this class.%
8443     \MessageBreak See Robert Bringhurst's _The Elements of
8444     \MessageBreak Typographic Style_, section 4.2.2.
8445     \MessageBreak \noexpand\subsubsection was used}
8446     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8447     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the
8448     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8449 }
8450 \renewcommand\subparagraph{%
8451   \biditytetocError{\noexpand\subparagraph is undefined by this class.%
8452     \MessageBreak See Robert Bringhurst's _The Elements of
8453     \MessageBreak Typographic Style_, section 4.2.2.
8454     \MessageBreak \noexpand\subparagraph was used}
8455     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8456     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the
8457     \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8458 }
8459 % Formatting for main TOC (printed in front matter)
8460 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8461 \ifthenelse{\boolean{@biditytetoc@toc}}{%
8462   \bidi@patch@AfterPackage{bidi}{%
8463     \titlecontents{part}% FIXME
8464     [0em] % distance from left margin
8465     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global for
8466     {\contentslabel{2em}} % before w/label (label = ``II'')
8467     {} % before w/o label
8468     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8469     [\end{fullwidth}] % after
8470     \titlecontents{chapter}%
8471     [0em] % distance from left margin
8472     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global for
8473     {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8474     {\hspace*{0em}} % before w/o label
8475     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8476     [\end{fullwidth}] % after

```



```

8477 \titlecontents{section}% FIXME
8478 [0em] % distance from left margin
8479 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global forma
8480 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8481 {\hspace*{2em}} % before w/o label
8482 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8483 [\end{fullwidth}] % after
8484 \titlecontents{subsection}% FIXME
8485 [0em] % distance from left margin
8486 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global forma
8487 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8488 {\hspace*{4em}} % before w/o label
8489 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8490 [\end{fullwidth}] % after
8491 \titlecontents{paragraph}% FIXME
8492 [0em] % distance from left margin
8493 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global
8494 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8495 {\hspace*{6em}} % before w/o label
8496 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8497 [\end{fullwidth}] % after
8498 }%
8499 }{}
8500 %%
8501 % Format lists of figures/tables
8502 \renewcommand\listoffigures{%
8503 \ifundefined{chapter}%
8504 {\section*{\listfigurename}}%
8505 {\chapter*{\listfigurename}}%
8506 % \begin{fullwidth}%
8507 % \@starttoc{lof}%
8508 % \end{fullwidth}%
8509 }
8510 \renewcommand\listoftables{%
8511 \ifundefined{chapter}%
8512 {\section*{\listtablename}}%
8513 {\chapter*{\listtablename}}%
8514 % \begin{fullwidth}%
8515 % \@starttoc{lot}%
8516 % \end{fullwidth}%
8517 }
8518 \newcommand{\@biditytetoc@lof@line}[2]{%
8519 % #1 is the figure/table number and its caption text
8520 % #2 is the page number on which the figure/table appears
8521 \leftskip 0.0em
8522 \rightskip 0em
8523 \parfillskip 0em plus 1fil
8524 \parindent 0.0em
8525 \@afterindenttrue
8526 \interlinepenalty \@M
8527 \leavevmode
8528 \@tempdima 2.0em
8529 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8530 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi

```



```

8531 {#1}\nobreak\qqquad\nobreak#2%
8532 \par%
8533 }
8534 \renewcommand*\l@figure{\@bidityfttoc@lof@line}
8535 \let\l@table\l@figure

```

## 56 File `bidituftegeneralstructure.sty`

```

8536 \NeedsTeXFormat{LaTeX2e}
8537 \ProvidesPackage{bidituftegeneralstructure}[2011/06/18 v0.1
8538 bidi implementation of tufte general structure]
8539 \renewcommand\small{%
8540   \@setfontsize\small\@ixpt{12}%
8541   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8542   \abovedisplayskip \z@ \@plus2\p@
8543   \belowdisplayskip 4\p@ \@plus2\p@ \@minus2\p@
8544   \def\@listi{\leftmargin\leftmargini
8545             \topsep 4\p@ \@plus2\p@ \@minus2\p@
8546             \parsep 2\p@ \@plus\p@ \@minus\p@
8547             \itemsep \parsep}%
8548   \belowdisplayskip \abovedisplayskip
8549 }
8550 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
8551 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8552 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8553 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8554 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8555 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8556 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8557 \setlength\leftmargini {1pc}
8558 \setlength\leftmarginii {1pc}
8559 \setlength\leftmarginiii {1pc}
8560 \setlength\leftmarginiv {1pc}
8561 \setlength\leftmarginv {1pc}
8562 \setlength\leftmarginvi {1pc}
8563 \setlength\labelsep {.5pc}
8564 \setlength\labelwidth {\leftmargini}
8565 \addtolength\labelwidth{-\labelsep}
8566 \setlength{\parindent}{1.0pc}%
8567 \setlength{\parskip}{0pt}%
8568 \RequirePackage{ragged2e}
8569 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8570 % Paragraph indentation and separation for normal text
8571 \newcommand{\@bidityftegeneralstructure@reset@par}{%
8572   \setlength{\RaggedRightParindent}{1.0pc}%
8573   \setlength{\JustifyingParindent}{1.0pc}%
8574   \setlength{\parindent}{1pc}%
8575   \setlength{\parskip}{0pt}%
8576 }
8577 \@bidityftegeneralstructure@reset@par
8578 % Require paralist package for tighter lists
8579 \RequirePackage{paralist}
8580 % Add rightmargin to compactenum
8581 \def\@compactenum{%

```





```

8582 \expandafter\list\csname label\@enumctr\endcsname{%
8583 \usecounter{\@enumctr}%
8584 \rightmargin=2em% added this
8585 \parsep\plparsep
8586 \itemsep\plitemsep
8587 \topsep\pltopsep
8588 \partopsep\plpartopsep
8589 \def\makelabel##1{\hss\llap{##1}}}}
8590 %%
8591 % An environment for paragraph-style section
8592 \providecommand\newthought[1]{%
8593 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8594 \noindent\textbf{#1}%
8595 }
8596 %%
8597 % Redefine the display environments (quote, quotation, etc.)
8598 \renewenvironment{verse}
8599 {\let\\ \@centercr
8600 \list{}{\itemsep \z@
8601 \itemindent -1pc%
8602 \listparindent\itemindent
8603 \rightmargin \leftmargin
8604 \advance\leftmargin 1pc}%
8605 \small%
8606 \item\relax}
8607 {\endlist}
8608 \renewenvironment{quotation}
8609 {\list{}{\listparindent 1pc%
8610 \itemindent \listparindent
8611 \rightmargin \leftmargin
8612 \parsep \z@ \@plus\p@}%
8613 \small%
8614 \item\relax\noindent\ignorespaces}
8615 {\endlist}
8616 \renewenvironment{quote}
8617 {\list{}{\rightmargin\leftmargin}%
8618 \small%
8619 \item\relax}
8620 {\endlist}
8621 % Italicize description run-in headings (instead of the default bold)
8622 \renewcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8623 %%
8624 % Redefine \bibsection to not mark the running heads.
8625 % (Code modified from natbib.sty.)
8626 \@ifundefined{chapter}%
8627 {\renewcommand\bibsection{\section*{\refname}}}
8628 {\@ifundefined{NAT@sectionbib}%
8629 {\renewcommand\bibsection{\chapter{\bibname}}}
8630 {\renewcommand\bibsection{\section*{\bibname}}}}
8631 \RequirePackage{multicol}
8632 \renewenvironment{theindex}{%
8633 \@ifundefined{chapter}%
8634 {\section*{\indexname}}%
8635 {\chapter{\indexname}}%

```





```

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

```

## 57 File `bidituftehyperref.sty`

```

8652 \NeedsTeXFormat{LaTeX2e}
8653 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8654 bidi implementation of tufte hyperref]
8655 %%
8656 % Color
8657 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8658 \newboolean{@bidituftehyperref@loadhyper}
8659 \setboolean{@bidituftehyperref@loadhyper}{true}
8660 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8661 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8662 \ProcessOptions
8663 %% Loads the hyperref package and sets some default options.
8664 \newcommand{\bidituftehyperrefLoadHyperref}{%
8665 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8666 \hypersetup{%
8667     bookmarksdepth = section,
8668     citecolor = DarkGreen,
8669     linkcolor = DarkBlue,
8670 %     pagecolor = DarkBlue,
8671     urlcolor = DarkGreen,
8672 }%
8673 }
8674 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8675 \bidituftehyperrefLoadHyperref%
8676 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8677 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8678 }

```

## 58 File `bidituftetitle.sty`

```

8679 \NeedsTeXFormat{LaTeX2e}
8680 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8681 bidi implementation of tufte title]
8682 \RequirePackage{biditools}
8683 %%

```



```

8684 % `titlepage' option -- creates a full title page with \maketitle
8685 \newboolean{@bidityttitle@titlepage}
8686 \DeclareOption{titlepage}{\setboolean{@bidityttitle@titlepage}{true}}
8687 \DeclareOption{notitlepage}{\setboolean{@bidityttitle@titlepage}{false}}
8688 % Default `book' and `handout' options
8689 \@ifclassloaded{book}{%
8690 \ExecuteOptions{titlepage}}{%
8691 \@ifclassloaded{article}{%
8692 \ExecuteOptions{notitlepage}}%
8693 {}}
8694 \ProcessOptions
8695 %%
8696 % Modified \title, \author, and \date commands. These store the
8697 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8698 \newcommand{\plaintitle}{}% plain-text-only title
8699 \newcommand{\plainauthor}{}% plain-text-only author
8700 \newcommand{\plainpublisher}{}% plain-text-only publisher
8701 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8702 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8703 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8704 \newcommand{\@publisher}{}% full publisher with \thanks{}
8705 \newcommand{\thedata}{\today}
8706 \bidi@patch@AfterPackage{bidi}{%
8707 \renewcommand{\thanks}[1]{\footnote{#1}}
8708 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8709 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8710 }
8711 \renewcommand{\title}[2][]{%
8712 \gdef\@title{#2}%
8713 \begingroup%
8714 % TODO store contents of \thanks command
8715 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8716 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8717 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8718 \protected@xdef\thanklesstitle{#2}%
8719 \endgroup%
8720 \ifthenelse{\isempty{#1}}%
8721 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8722 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8723 \@ifundefined{hypersetup}%
8724 {}% hyperref is not loaded; do nothing
8725 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8726 }
8727 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8728 \renewcommand{\author}[2][]{%
8729 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8730 \begingroup%
8731 % TODO store contents of \thanks command
8732 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8733 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8734 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8735 \protected@xdef\thanklessauthor{#2}%
8736 \endgroup%
8737 \ifthenelse{\isempty{#1}}%

```



```

8738     {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8739     {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8740     \@ifundefined{hypersetup}%
8741     {}% hyperref is not loaded; do nothing
8742     {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8743 }
8744 \renewcommand{\date}[1]{%
8745     \gdef\@date{#1}%
8746     \begingroup%
8747     % TODO store contents of \thanks command
8748     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8749     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8750     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8751     \protected@xdef\thedata{#1}%
8752     \endgroup%
8753 }
8754 %%
8755 % Provides a \publisher command to set the publisher
8756 \newcommand{\publisher}[2][]{%
8757     \gdef\@publisher{#2}%
8758     \begingroup%
8759     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8760     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8761     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8762     \protected@xdef\thanklesspublisher{#2}%
8763     \endgroup%
8764     \ifthenelse{\isempty{#1}}{
8765         {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8766         {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8767     }
8768 %%
8769 % Produces a full title page
8770 \newcommand{\maketitlepage}[0]{%
8771     \cleardoublepage%
8772     {%
8773         \bfseries%
8774         \begin{fullwidth}%
8775         \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8776         \vspace{11.5pc}%
8777         \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8778         \vfill%
8779         \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8780         \end{fullwidth}%
8781     }
8782     \thispagestyle{empty}%
8783     \clearpage%
8784 }
8785 %%
8786 % Title block
8787 \bidi@AfterEndPreamble{%
8788 \renewcommand{\maketitle}{%
8789     \newpage%
8790     \global\@topnum\z@% prevent floats from being placed at the top of the page
8791     \begingroup%

```



```

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

```

## 59 File bidentufte-handout.cls

```

8828 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8829 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]
8830 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8831 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
8832 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}
8833 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftehyperref}}
8834 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetitle}}
8835 \ProcessOptions\relax
8836 \LoadClass{article}
8837 \RequirePackage{bidentuftefloat}
8838 \RequirePackage{bidentuftesidenote}
8839 \RequirePackage{bidentuftetoc}
8840 \RequirePackage{bidentuftegeneralstructure}
8841 \RequirePackage{bidentuftehyperref}
8842 \RequirePackage{bidentuftetitle}

```



```

8843 \renewenvironment{abstract}
8844   {\begin{quotation}}
8845   {\end{quotation}}
8846 \AtBeginDocument{%
8847 \IfFileExists{biditufte-handout.cfg}
8848   {\input{biditufte-handout.cfg}
8849     \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8850   }%
8851 }

```

## 60 File biditufte-book.cls

```

8852 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8853 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
8854 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8855 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8856 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8857 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8858 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8859 \ProcessOptions\relax
8860 \LoadClass{book}
8861 \RequirePackage{bidituftefloat}
8862 \RequirePackage{bidituftesidenote}
8863 \RequirePackage{bidituftetoc}
8864 \RequirePackage{bidituftegeneralstructure}
8865 \RequirePackage{bidituftehyperref}
8866 \RequirePackage{bidituftetitle}
8867 %%
8868 % Set up any book-specific stuff now
8869 %%
8870 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8871 % to the opening page of Chapter 1. The running heads, when they appear,
8872 % contain only the (arabic) page number in the outside corner.
8873 %\newif\if@mainmatter \@mainmattertrue
8874 \renewcommand\frontmatter{%
8875   \cleardoublepage%
8876   \@mainmatterfalse%
8877   \pagenumbering{arabic}%
8878   %\pagestyle{plain}%
8879   \fancyhf{}%
8880   \ifthenelse{\boolean{@bidituftefloat@twoside}}{%
8881     {\fancyhead[LE,RO]{\thepage}}%
8882     {\fancyhead[RE,RO]{\thepage}}%
8883   }
8884   %%
8885 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8886 % numbering---it continues where it left off in the front matter.
8887 \renewcommand\mainmatter{%
8888   \cleardoublepage%
8889   \@mainmattertrue%
8890   \fancyhf{}%
8891   \ifthenelse{\boolean{@bidituftefloat@twoside}}{%
8892     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8893     {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title

```



```

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

```

## 61 File bidipoem.sty

```

8917 \NeedsTeXFormat{LaTeX2e}
8918 \ProvidesPackage{bidipoem}%
8919 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8920
8921 % Usage:
8922 %
8923 % \Setversedim #1#2   % define the layout (within a group):
8924 % #1 = length of both half-verses
8925 % #2 = separation distance = length of a connection, if present
8926 % Variant:
8927 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8928 % #1 = length of first (=right) half-verse
8929 % #2 = length of second (=left) half-verse
8930 % #3 = separation distance = length of a connection, if present
8931 %
8932 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8933 % #1 = text of first (=right) half-verse
8934 % #2 = text of second (=left) half-verse
8935 % Variant:
8936 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8937 % #1 = text of first (=right) half-verse
8938 % #2 = text of connection
8939 % #3 = text of second (=left) half-verse
8940 %
8941 % Alternative (if preferred):
8942 %
8943 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8944

```



```

8945
8946 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8947
8948 % define the layout, verses will be centered
8949
8950 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8951 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8952
8953 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8954 \bidipoem@hvind \textwidth
8955 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8956 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8957 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipo
8958
8959 \def \bidipoem@set@verseI [#1]{% optional parameter
8960 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8961
8962 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8963 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8964 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8965
8966 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8967 \ifdim Opt > \bidipoem@hvind %
8968 \bidipoem@spreadbox \bidipoem@hvlen {#1}\\ \hfill % first block
8969 \else
8970 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8971 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8972 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8973 \par }
8974
8975 % macro for two half verses
8976 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8977 \ifx [#2\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[]}%
8978 \else\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8979 \bidipoem@half@verses@next}
8980
8981 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8982 \traditionalconnverses {#1}{#2}{#3}}
8983
8984
8985 {\catcode\^^M=\active % these lines must end with %
8986 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8987 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8988 {\catcode\^^M=\active % these lines must end with %
8989 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
8990 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8991 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8992 \def\poemmarginsskip{1em plus 1fil minus 1em}
8993 \def\poemextrabaselineskip{0\baselineskip}
8994 \def\poemskip{\medskip}
8995 \newcommand{\bidipoem@openbox}{\leavevmode
8996 \hbox to.77778em{%
8997 \hfil\vrule
8998 \vbox to.675em{\hrule width.6em\vfil\hrule}%

```



```

8999 \vrule\hfil}}
9000 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
9001 \newdimen\versewidth
9002 \newtoks\bidipoem@p@ftn
9003 \def\poem@verse#1{%
9004 \ifdim\wd#1>\new@poem@width
9005 \xdef\new@poem@width{\the\wd#1}%
9006 \ifdim\new@poem@width>\poem@width
9007 \xdef\poem@width{\new@poem@width}%
9008 \global\let\poem@needrun\relax
9009 \fi
9010 \fi
9011 \hbox to\poem@width{\unhbox#1}%
9012 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
9013 }
9014 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginskip\relax}
9015 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
9016 \def\poem@lineversesep{%
9017 \nobreak
9018 \hskip\z@ plus 1filll%
9019 \penalty600%
9020 \hskip\poemcolsepskip
9021 \hskip\z@ plus -2filll%
9022 \vadjust{}}%
9023 \nobreak
9024 \hskip\z@ plus 1filll%
9025 }
9026 \def\poem@lineparsebegin{%
9027 \halign\bgroup
9028 \global\setbox\verse@i=\hbox{%
9029 \let\@footnotetext\bidipoem@p@ftntext%
9030 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9031 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9032 \let\@xfootnotenext\bidipoem@p@xftntext%
9033 \let\@xfootnote\bidipoem@p@xfootnote%
9034 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9035 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9036 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9037 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9038 \ignorespaces##\unskip}&&
9039 \global\setbox\verse@ii=\hbox{%
9040 \let\@footnotetext\bidipoem@p@ftntext%
9041 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9042 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9043 \let\@xfootnotenext\bidipoem@p@xftntext%
9044 \let\@xfootnote\bidipoem@p@xfootnote%
9045 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9046 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9047 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9048 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9049 \ignorespaces##\unskip}
9050 \cr
9051 }
9052 \def\poem@lineparseend{%

```





```

9053 \crr\egroup
9054 \vskip-\baselineskip
9055 }
9056 \def\traditionalpoem@cr{%
9057   \cr\poem@line
9058 }
9059 \newbox\verse@i
9060 \newbox\verse@ii
9061 \newif\ifpoem@started
9062
9063 \def\poem@line{%
9064   \poem@lineparseend
9065   \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9066   \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9067   \ifpoem@started
9068     \ifdim\wd\verse@ii>\z@\else
9069       \nopagebreak[3]
9070     \fi
9071     \leavevmode
9072     \poem@linebegin
9073     \poem@verse\verse@i
9074     \ifdim\wd\verse@ii>\z@
9075       \poem@lineversesep
9076       \poem@verse\verse@ii
9077     \fi
9078     \poem@lineend
9079   % \nopagebreak
9080   \par
9081   \vskip\poemextrabaselineskip
9082 \fi
9083 \poem@lineparsebegin
9084 }
9085 \def\@traditionalpoem{%
9086   \stepcounter{poem@no}
9087   \ifnum\max@poem@no<\number\c@poem@no%
9088     \xdef\poem@width{\z@}%
9089   \else
9090     \xdef\poem@width{\poem@prop{poem@width}}%
9091   \fi
9092   \xdef\new@poem@width{\z@}%
9093   \global\versewidth=\poem@width
9094   \poemskip\par
9095   \begingroup
9096   \tabskip=\z@
9097   \parskip=\z@
9098   \parindent=\z@
9099   \parfillskip=\z@
9100   \rightskip=\z@
9101   \leftskip=\z@
9102   \widowpenalty=10000% No break between verses of the same line.
9103   \clubpenalty=10000% Same as above. Not really needed.
9104   \def\newblock{\hfil\poemblocksep\hfil\null}%
9105   \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9106   \def\{\global\poem@startedtrue\traditionalpoem@cr}%

```



```

9107 \global\poem@startedfalse
9108 \csname poem@obeylines\endcsname
9109 \let\poem@obeylines\relax
9110 \poem@lineparsebegin
9111 }
9112 \def\@endtraditionalpoem{%
9113 \cr
9114 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9115 \noalign{%
9116 \skip0=\poemextrabaseskip
9117 \vskip-\skip0
9118 \vskip-\baseskip
9119 }%
9120 \fi\fi
9121 \poem@lineparseend
9122 \endgroup
9123 \par
9124 \vskip\baseskip
9125 \poemskip
9126 \ifdim\new@poem@width<\poem@width
9127 \global\let\poem@needrun\relax
9128 \fi
9129 \poem@write@aux{\poem@width@romannumeral\c@poem@no}{\new@poem@width}%
9130 \ifx\AtEndDocument\undefined\poem@finish\fi
9131 \@endparenv
9132 }
9133
9134
9135 \long\def\bidipoem@p@ftntext#1{%
9136 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
9137 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
9138 \long\def\bidipoem@p@LTRftntext#1{%
9139 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9140 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9141 \long\def\bidipoem@p@RTLftntext#1{%
9142 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9143 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9144
9145 \long\def\bidipoem@p@xftntext[#1]#2{%
9146 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
9147
9148 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9149 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
9150
9151 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9152 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
9153
9154 \def\bidipoem@p@xfootnote[#1]{%
9155 \begingroup
9156 \csname c@\@mpfn\endcsname #1\relax
9157 \unrestored@protected@xdef\@thefnmark{\thempfn}%
9158 \endgroup
9159 \@footnotemark\bidipoem@p@xftntext[#1]}
9160

```



```

9161 \def\bidipoem@p@xLTRfootnote[#1]{%
9162   \begingroup
9163     \csname c@%mpfn\endcsname #1\relax
9164     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9165   \endgroup
9166   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9167
9168 \def\bidipoem@p@xRTLfootnote[#1]{%
9169   \begingroup
9170     \csname c@%mpfn\endcsname #1\relax
9171     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9172   \endgroup
9173   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9174
9175
9176
9177 \newenvironment{traditionalpoem}{\@traditionalpoem}{\endtraditionalpoem}
9178 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obe
9179 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9180 \def\poem@finish{%
9181 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9182 \ifx\poem@needrun\relax
9183 \PackageWarning{bidipoem}{Unjustified poem.  Rerun TeX to get poem right}%
9184 \global\let\poem@needrun\undefined
9185 \fi
9186 }
9187 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9188 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9189 \ifx\max@poem@no\undefined
9190   \def\max@poem@no{0}%
9191 \fi
9192 \newcommand{\poem@prop}[1]{\@nameuse{#1@romannumeral\c@poem@no}}
9193 \newcommand{\poem@write@aux}[2]{%
9194   \def\x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9195   \x
9196 }
9197 \def\@modernpoem{%
9198 \par
9199 \begingroup
9200 \parskip=\z@
9201 \parindent=\z@
9202 \def\[{ \@settab\@tabplus\ignorespaces}%
9203 \def\]{ \@tabminus\ignorespaces}%
9204 \def\newblock{\poemblocksep}%
9205 \let\newpoem@tabcr\@tabcr
9206 \def\modernpoem@par{% Redefine \par for possible \obeylines
9207   \ifpoem@started\else
9208     \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9209       \@stopfield
9210       \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9211       \@contfield
9212     \fi
9213   \fi
9214   \ifpoem@started\newpoem@tabcr\fi}%

```



```

9215 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9216 \global\poem@startedfalse
9217 \csname poem@obeylines\endcsname
9218 \let\poem@obeylines\relax
9219 \begin{tabbing}%
9220 }
9221 \def\@endmodernpoem{%
9222 \global\poem@startedfalse
9223 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9224   \@stopfield
9225   \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9226   \@contfield
9227 \fi
9228 \ifpoem@started\else\let\@stopline\@stopfield\fi
9229 \end{tabbing}%
9230 \endgroup
9231 \par
9232   \if@nparlist \else
9233     \ifdim\lastskip >\z@
9234       \@tempskipa\lastskip \vskip -\lastskip
9235       \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9236       \vskip\@tempskipa
9237     \fi
9238     \@endparenv
9239   \fi
9240 }
9241 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9242 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mod
9243 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9244 \gdef\@startfield{%
9245 \global\setbox\@curfield\hbox\bgroup%
9246 \let\@footnotetext\bidipoem@p@ftntext%
9247 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9248 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9249 \let\@xfootnotenext\bidipoem@p@xftntext%
9250 \let\@xfootnote\bidipoem@p@xfootnote%
9251 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9252 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9253 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9254 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9255 \color@begingroup}
9256 \gdef\@stopfield{%
9257   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn
9258 \gdef\@contfield{%
9259 \global\setbox\@curfield\hbox\bgroup%
9260 \let\@footnotetext\bidipoem@p@ftntext%
9261 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9262 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9263 \let\@xfootnotenext\bidipoem@p@xftntext%
9264 \let\@xfootnote\bidipoem@p@xfootnote%
9265 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9266 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9267 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9268 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%

```



```
9269 \color@begingroup\unhbox\@curfield}
```

## 62 File boek3-xetex-bidi.def

```
9270 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for Xe
9271 \renewenvironment{theindex}{%
9272   \if@twocolumn
9273     \@restonecolfalse
9274   \else
9275     \@restonecoltrue
9276   \fi
9277   \columnseprule \z@
9278   \columnsep 35\p@
9279   \twocolumn[\@makeschapterhead{\indexname}]{%
9280     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9281     \thispagestyle{plain}\parindent\z@
9282     \parskip\z@ \@plus .3\p@\relax
9283     \let\item\@idxitem
9284   }{%
9285     \if@restonecol\onecolumn\else\clearpage\fi}
9286 \renewcommand*{\head@style}{%
9287   \interlinepenalty \@M
9288   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9289   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9290 \renewcommand*{\regtocline}[3]{%
9291   \ifnum #1>\c@tocdepth
9292   \else
9293     \vskip\z@ \@plus .2\p@
9294     {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
9295     \if@RTL\rightskip\else\leftskip\fi\unitindent
9296     \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
9297     \parfillskip\z@
9298     \@tempdima\unitindent
9299     \parindent\z@
9300     \leavevmode
9301     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9302     \hskip 1em \nobreak{\slshape #3}\par
9303   }%
9304   \fi}
9305 \if@oldtoc
9306 \renewcommand*{\l@part}[2]{%
9307   \ifnum \c@tocdepth >-2\relax
9308     \addpenalty{-\@highpenalty}%
9309     \addvspace{2.25em \@plus\p@}%
9310     \begingroup
9311       \setlength\@tempdima{3em}%
9312       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9313       \parfillskip -\@pnumwidth
9314       {\leavevmode
9315         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9316         \nobreak
9317         \global\@nobreaktrue
9318         \everypar{\global\@nobreakfalse\everypar{}}%
9319       \endgroup
```



```

9320 \fi}
9321 \else
9322 \renewcommand*\l@part{%
9323 \ifnum \c@tocdepth >-2\relax
9324 \addpenalty{-\@highpenalty}%
9325 \addvspace{2.25em \@plus \p@}%
9326 \@regtocline{0}%
9327 \fi}
9328 \fi
9329 \if@oldtoc
9330 \renewcommand*\l@chapter[2]{%
9331 \addpenalty{-\@highpenalty}%
9332 \vskip 1.0em \@plus \p@
9333 \setlength\@tempdima{1.5em}%
9334 \begingroup
9335 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9336 \parfillskip -\@pnumwidth
9337 \leavevmode \bfseries
9338 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
9339 \hskip -\if@RTL\rightskip\else\leftskip\fi
9340 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9341 \penalty\@highpenalty
9342 \endgroup}
9343 \else
9344 \renewcommand*\l@chapter{\@regtocline{0}}
9345 \fi
9346 \renewenvironment{abstract}{%
9347 \titlepage
9348 \null\vfil
9349 \section*{\SectFont \abstractname}
9350 \noindent\ignorespaces}
9351 {\par\vfil\null\endtitlepage}
9352 \renewenvironment{thebibliography}[1]
9353 {\chapter*{\bibname}%
9354 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9355 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9356 \bidi@thebibliography@font@hook%
9357 \list{\@biblabel{\@arabic\c@enumiv}}%
9358 {\settowidth\labelwidth{\@biblabel{#1}}%
9359 \leftmargin\labelwidth
9360 \advance\leftmargin\labelsep
9361 \@openbib@code
9362 \usecounter{enumiv}%
9363 \let\p@enumiv\@empty
9364 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9365 \sloppy\clubpenalty4000\widowpenalty4000%
9366 \sfcode\.\@m}
9367 {\def\@noitemerr
9368 {\@latex@warning{Empty `thebibliography' environment}}%
9369 \endlist}
9370 \renewcommand*\left@footnoterule{%
9371 \kern-3\p@
9372 \kern.5\baselineskip
9373 \hrule\@width\unitindent

```



```

9374 \kern.4\baselineskip
9375 }
9376 \renewcommand*\right@footnoterule{%
9377 \kern-3\p@
9378 \kern.5\baselineskip
9379 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9380 \kern.4\baselineskip}
9381 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9382 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9383 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9384 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9385 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9386 \renewcommand*\theequation{%
9387 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9388 \renewcommand*\thefigure{%
9389 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9390 \renewcommand*\thetable{%
9391 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9392 \renewcommand*\maketitle{%
9393 \begin{titlepage}%
9394 \let\footnotesize\small
9395 \let\right@footnoterule\relax
9396 \let\left@footnoterule\relax
9397 \let\textwidth@footnoterule\relax
9398 \let \footnote \thanks
9399 \long\def\@makefnmark##1{\parindent\z@
9400 \def\labelitemi{\textendash}\@revlabeltrue
9401 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9402 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9403 \if@compatibility\setcounter{page}{0}\fi
9404 \null\vfil
9405 \vskip 60\p@
9406 \begin{center}%
9407 \TitleFont
9408 {\LARGE \def\\{\penalty -\@M}
9409 \if@allcaps
9410 \expandafter\uc@nothanks\@title\thanks\relax
9411 \else
9412 \@title
9413 \fi\par}%
9414 \vskip 3em%
9415 {\large
9416 \lineskip .75em \parindent\z@
9417 \begin{tabular}[t]{c}%
9418 \if@allcaps
9419 \expandafter\uc@authornothanks\@author\and\relax
9420 \else
9421 \@author
9422 \fi
9423 \end{tabular}\par}%
9424 \vskip 1.5em%
9425 {\large
9426 \if@allcaps
9427 \uppercase\expandafter{\@date}%

```



```

9428         \else
9429             \@date
9430         \fi\par}%
9431     \end{center}\par
9432     \@thanks
9433     \vfil\null
9434 \end{titlepage}%
9435 \setcounter{footnote}{0}%
9436 \global\let\thanks\relax
9437 \global\let\maketitle\relax
9438 \global\let\@thanks\@empty
9439 \global\let\@author\@empty
9440 \global\let\@title\@empty
9441 \global\let\@date\@empty
9442 \global\let\title\relax
9443 \global\let\author\relax
9444 \global\let\date\relax
9445 \global\let\and\relax
9446 }

```

## 63 File boek-xetex-bidi.def

```

9447 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9448 \renewenvironment{theindex}{%
9449     \if@twocolumn
9450         \@restonecolfalse
9451     \else
9452         \@restonecoltrue
9453     \fi
9454     \columnseprule \z@
9455     \columnsep 35\p@
9456     \twocolumn[\@makeschapterhead{\indexname}]{%
9457         \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9458         \thispagestyle{plain}\parindent\z@
9459         \parskip\z@ \@plus .3\p@\relax
9460         \let\item\@idxitem
9461     }{%
9462         \if@restonecol\onecolumn\else\clearpage\fi}
9463 \renewcommand*{\head@style}{%
9464     \interlinepenalty \@M
9465     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9466     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9467 \renewcommand*{\regtocline}[3]{%
9468     \ifnum #1>\c@tocdepth
9469     \else
9470         \vskip\z@\@plus.2\p@
9471         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9472         \if@RTL\rightskip\else\leftskip\fi\unitindent
9473         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9474         \parfillskip\z@
9475         \@tempdima\unitindent
9476         \parindent\z@
9477         \leavevmode
9478         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak

```





```

9479     \hskip 1em \nobreak{\slshape #3}\par
9480   }%
9481 \fi}
9482 \if@oldtoc
9483 \renewcommand*\l@part[2]{%
9484   \ifnum \c@tocdepth >-2\relax
9485     \addpenalty{-\@highpenalty}%
9486     \addvspace{2.25em \@plus\p@}%
9487     \begingroup
9488       \setlength\@tempdima{3em}%
9489       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9490       \parfillskip -\@pnumwidth
9491       {\leavevmode
9492         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9493         \nobreak
9494         \global\@nobreaktrue
9495         \everypar{\global\@nobreakfalse\everypar{}}%
9496       \endgroup
9497     \fi}
9498 \else
9499   \renewcommand*\l@part{%
9500     \ifnum \c@tocdepth >-2\relax
9501       \addpenalty{-\@highpenalty}%
9502       \addvspace{2.25em \@plus \p@}%
9503       \@regtocline{0}%
9504     \fi}
9505 \fi
9506 \if@oldtoc
9507 \renewcommand*\l@chapter[2]{%
9508   \addpenalty{-\@highpenalty}%
9509   \vskip 1.0em \@plus\p@
9510   \setlength\@tempdima{1.5em}%
9511   \begingroup
9512     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9513     \parfillskip -\@pnumwidth
9514     \leavevmode \bfseries
9515     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9516     \hskip -\if@RTL\rightskip\else\leftskip\fi
9517     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9518     \penalty\@highpenalty
9519   \endgroup}
9520 \else
9521   \renewcommand*\l@chapter{\@regtocline{0}}
9522 \fi
9523 \renewcommand*\left@footnoterule{%
9524   \kern-3\p@
9525   \kern.5\baselineskip
9526   \hrule\@width\unitindent
9527   \kern.4\baselineskip
9528 }
9529 \renewcommand*\right@footnoterule{%
9530   \kern-3\p@
9531   \kern.5\baselineskip
9532   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }

```



```

9533 \kern.4\baselineskip}
9534 \renewenvironment{abstract}{%
9535     \titlepage
9536     \null\vfil
9537     \section*{\SectFont \abstractname}
9538     \noindent\ignorespaces}
9539 {\par\vfil\null\endtitlepage}
9540 \renewenvironment{thebibliography}[1]
9541 {\chapter*{\bibname}%
9542     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9543     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9544     \bidi@thebibliography@font@hook%
9545     \list{\@biblabel{\@arabic\c@enumiv}}%
9546         {\settowidth\labelwidth{\@biblabel{#1}}%
9547         \leftmargin\labelwidth
9548         \advance\leftmargin\labelsep
9549         \@openbib@code
9550         \usecounter{enumiv}%
9551         \let\p@enumiv\empty
9552         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9553     \sloppy\clubpenalty4000\widowpenalty4000%
9554     \sfcode`. \m}
9555 {\def\@noitemerr
9556     {\@latex@warning{Empty `thebibliography' environment}}%
9557     \endlist}
9558 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9559 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
9560 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
9561 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\cparagraph}
9562 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\csubparagraph}
9563 \renewcommand*\theequation{%
9564     \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9565 \renewcommand*\thefigure{%
9566     \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9567 \renewcommand*\thetable{%
9568     \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@table}
9569 \renewcommand*\maketitle{%
9570     \begin{titlepage}%
9571         \let\footnotesize\small
9572         \let\right@footnoterule\relax
9573         \let\left@footnoterule\relax
9574         \let\textwidth@footnoterule\relax
9575         \let \footnote \thanks
9576         \long\def\@makefnmark##1{\parindent\z@
9577             \def\labelitemi{\textendash}\@revlabeltrue
9578             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9579         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9580         \if@compatibility\setcounter{page}{0}\fi
9581         \null\vfil
9582         \vskip 60\p@
9583         \begin{center}%
9584             \TitleFont
9585             {\LARGE \def\{\{\penalty -\m}
9586             \if@allcaps

```



```

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

```

## 64 File bookest-xetex-bidi.def

```

9624 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class fo
9625 \def\@makechapterhead#1{%
9626     \vspace*{20\p@}
9627     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9628     \ifnum \c@secnumdepth >\m@ne
9629         \if@mainmatter
9630             {\colorA\huge\scshape \@chapapp\space \thechapter}
9631             \par\nobreak
9632             \vskip 10\p@
9633         \fi
9634     \fi
9635     \interlinepenalty\@M
9636     {\colorB\hrule}
9637     \vskip 15\p@

```



```

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

```

## 65 File book-xetex-bidi.def

```

9657 \ProvidesFile{book-xetex-bidi.def}[2025/09/04 v1.3 bidi adaptations for standard book class]
9658 \renewenvironment{theindex}
9659 {\if@twocolumn
9660 \restonecolfalse
9661 \else
9662 \restonecoltrue
9663 \fi
9664 \columnseprule \z@
9665 \columnsep 35\p@
9666 \twocolumn[\@makeschapterhead{\indexname}]}%
9667 \mkboth{\MakeUppercase\indexname}%
9668 {\MakeUppercase\indexname}%
9669 \thispagestyle{plain}\parindent\z@
9670 \parskip\z@ \@plus .3\p@\relax
9671 \let\item\@idxitem}
9672 {\if@restonecol\onecolumn\else\clearpage\fi}
9673 \IfClassLoadedF{bookest}{%
9674 \if@titlepage
9675 \renewcommand\maketitle{\begin{titlepage}%
9676 \let\footnotesize\small
9677 \let\right@footnoterule\relax
9678 \let\left@footnoterule\relax
9679 \let\textwidth@footnoterule\relax
9680 \let \footnote \thanks
9681 \let \LTRfootnote \LTRthanks
9682 \let \RTLfootnote \RTLthanks
9683 \null\vfil
9684 \vskip 60\p@
9685 \begin{center}%
9686 {\LARGE \@title \par}%
9687 \vskip 3em%
9688 {\large

```



```

9689 \lineskip .75em%
9690 \begin{tabular}[t]{c}%
9691 \@author
9692 \end{tabular}\par}%
9693 \vskip 1.5em%
9694 {\large \@date \par}% % Set date in \large size.
9695 \end{center}\par
9696 \@thanks
9697 \vfil\null
9698 \end{titlepage}%
9699 \setcounter{footnote}{0}%
9700 \global\let\thanks\relax
9701 \global\let\LTRthanks\relax
9702 \global\let\RTLthanks\relax
9703 \global\let\maketitle\relax
9704 \global\let\@thanks\@empty
9705 \global\let\@author\@empty
9706 \global\let\@date\@empty
9707 \global\let\@title\@empty
9708 \global\let\title\relax
9709 \global\let\author\relax
9710 \global\let\date\relax
9711 \global\let\and\relax
9712 }
9713 \else
9714 \renewcommand\maketitle{\par
9715 \begingroup
9716 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9717 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9718 \long\def\@makefntext##1{\parindent 1em\noindent
9719 \hb@xt@1.8em{%
9720 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9721 \if@twocolumn
9722 \ifnum \col@number=\@ne
9723 \@maketitle
9724 \else
9725 \twocolumn[\@maketitle]%
9726 \fi
9727 \else
9728 \newpage
9729 \global\@topnum\z@ % Prevents figures from going at top of page.
9730 \@maketitle
9731 \fi
9732 \thispagestyle{plain}\@thanks
9733 \endgroup
9734 \setcounter{footnote}{0}%
9735 \global\let\thanks\relax
9736 \global\let\LTRthanks\relax
9737 \global\let\RTLthanks\relax
9738 \global\let\maketitle\relax
9739 \global\let\@maketitle\relax
9740 \global\let\@thanks\@empty
9741 \global\let\@author\@empty
9742 \global\let\@date\@empty

```



```

9743 \global\let\@title\@empty
9744 \global\let\title\relax
9745 \global\let\author\relax
9746 \global\let\date\relax
9747 \global\let\and\relax
9748 }
9749 \def\@maketitle{%
9750 \newpage
9751 \null
9752 \vskip 2em%
9753 \begin{center}%
9754 \let \footnote \thanks
9755 \let \LTRfootnote \LTRthanks
9756 \let \RTLfootnote \RTLthanks
9757 {\LARGE \@title \par}%
9758 \vskip 1.5em%
9759 {\large
9760 \lineskip .5em%
9761 \begin{tabular}[t]{c}%
9762 \@author
9763 \end{tabular}\par}%
9764 \vskip 1em%
9765 {\large \@date}%
9766 \end{center}%
9767 \par
9768 \vskip 1.5em}
9769 \fi}
9770 \IfPackageLoadedF{tocloft}{%
9771 \renewcommand*\l@part[2]{%
9772 \ifnum \c@tocdepth >-2\relax
9773 \addpenalty{-\@highpenalty}%
9774 \addvspace{2.25em \@plus\p@}%
9775 \setlength\@tempdima{3em}%
9776 \begingroup
9777 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9778 \parfillskip -\@pnumwidth
9779 {\leavevmode
9780 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9781 \nobreak
9782 \global\@nobreaktrue
9783 \everypar{\global\@nobreakfalse\everypar{}}%
9784 \endgroup
9785 \fi}
9786 \renewcommand*\l@chapter[2]{%
9787 \ifnum \c@tocdepth >\m@ne
9788 \addpenalty{-\@highpenalty}%
9789 \vskip 1.0em \@plus\p@
9790 \setlength\@tempdima{1.5em}%
9791 \begingroup
9792 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9793 \parfillskip -\@pnumwidth
9794 \leavevmode \bfseries
9795 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9796 \hskip -\if@RTL\rightskip\else\leftskip\fi

```



```

9797      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9798      \penalty\@highpenalty
9799      \endgroup
9800      \fi}
9801  }
9802  \renewcommand\left@footnoterule{%
9803      \kern-3\p@
9804      \hrule\@width.4\columnwidth
9805      \kern2.6\p@}
9806  \renewcommand\right@footnoterule{%
9807      \kern-3\p@
9808      \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9809      \kern2.6\p@}
9810  \renewcommand\theequation
9811      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9812  \renewcommand \thefigure
9813      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9814  \renewcommand \thetable
9815      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9816  \renewcommand \thechapter {\@arabic\c@chapter}
9817  \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9818  \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9819  \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9820  \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9821  \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9822  \def\@makechapterhead#1{%
9823      \vspace*{50\p@}%
9824      {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9825          \ifnum \c@secnumdepth >\m@ne
9826              \if@mainmatter
9827                  \huge\bfseries \@chapapp\space \thechapter
9828                  \par\nobreak
9829                  \vskip 20\p@
9830              \fi
9831              \fi
9832              \interlinepenalty\@M
9833              \Huge \bfseries #1\par\nobreak
9834              \vskip 40\p@
9835          }}
9836  \def\@makeschapterhead#1{%
9837      \vspace*{50\p@}%
9838      {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9839          \normalfont
9840          \interlinepenalty\@M
9841          \Huge \bfseries #1\par\nobreak
9842          \vskip 40\p@
9843      }}
9844  \renewcommand\backmatter{%
9845      \if@openright
9846          \cleardoublepage
9847      \else
9848          \clearpage
9849      \fi
9850      \@mainmatterfalse}

```



```

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

```

## 66 File breqn-xetex-bidi.def

```

9874 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for
9875 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9876   \everydisplay\expandafter{\the\everydisplay \display@setup}%
9877   \if@noskipsec \leavevmode \fi
9878   \if@inlabel \leavevmode \global\@inlabelfalse \fi
9879   \if@eq@group\else\eq@prelim\fi
9880   \setkeys{breqn}{#1}%
9881   \the\eqstyle
9882   \eq@setnumber
9883   \begin@group
9884   \eq@setup@a
9885   \eq@startup
9886 }
9887 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9888   \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9889   \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9890   \global\let\GRP@label\@empty
9891   \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9892   \global\grp@linewidth\z@\global\grp@wdNum\z@
9893   \global\let\grp@eqs@numbered\@False
9894   \global\let\grp@aligned\@True
9895   \global\let\grp@shiftnumber\@False
9896   \eq@prelim
9897   \setkeys{breqn}{#1}%
9898   \if\grp@hasNumber \grp@setnumber \fi
9899 }
9900 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9901   \let\display@setup\dseries@display@setup

```





```

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

```

## 67 File cals-xetex-bidi.def

```

9929 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for Xe
9930 \renewcommand\cals@setup@alignment[1]{%
9931 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9932 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9933 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9934 }
9935 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9936 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9937 \if@RTLtab\cals@activate@rtl\fi
9938 \let\cals@thead@tokens=\relax
9939 \let\cals@tfoot@tokens=\relax
9940 \let\cals@tbody@tokens=\relax
9941 \cals@tfoot@height=0pt \relax
9942 \let\cals@last@context=n%
9943 \let\cals@current@context=b%
9944 \parindent=0pt \relax%
9945 \cals@setup@alignment{#1}%
9946 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9947 }% Alignment inside is independent on center/flushright outside
9948 \parfillskip=0pt plus1fil\relax
9949 \let\cals@borderL=\relax
9950 \let\cals@borderR=\relax
9951 \let\cals@borderT=\relax
9952 \let\cals@borderB=\relax

```



```

9953 \setbox\cals@backup@row=\box\voidb@x\relax
9954 \cals@AtBeginTable
9955 }{% End of the table
9956 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9957 \renewcommand\alignL{%
9958 \if@RTLtab
9959   \cals@vfillAdd\cals@paddingL
9960 \else
9961   \cals@vfillDrop\cals@paddingL
9962 \fi
9963 \cals@vfillDrop\cals@paddingR}
9964 \renewcommand\alignR{%
9965 \if@RTLtab
9966   \cals@vfillDrop\cals@paddingL
9967 \else
9968   \cals@vfillAdd\cals@paddingL
9969 \fi
9970 \cals@vfillDrop\cals@paddingR}

```

## 68 File caption-xetex-bidi.def

```

9971 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package
9972 \let\@makecaption\caption@makecaption

```

## 69 File caption3-xetex-bidi.def

```

9973 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9974 \renewcommand*\caption@par{%
9975   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 70 File colortbl-xetex-bidi.def

```

9976 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9977 \def\CT@setup{%
9978   \@tempdimb\col@sep
9979   \@tempdimc\col@sep
9980   \def\CT@color{%
9981     \global\let\CT@do@color\CT@do@color
9982     \bidicolor}}
9983 \def\@classz{\@classx
9984   \@tempcnta\count@
9985   \prepnext@tok
9986 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9987   \@addtopreamble{\if@RTLtab\beginL\fi%
9988     \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9989     \ifcase \@chnum
9990       \hskip\stretch{.5}\kern\z@
9991       \d@llarbegin
9992       \insert@column
9993       \d@llarend\hskip\stretch{.5}\or
9994       \d@llarbegin \insert@column \d@llarend \hfill \or
9995       \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9996     $\vcenter
9997     \@startpbox{\@nextchar}\insert@column \@endpbox $\or

```



```

9998 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9999 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
10000 \fi
10001 \if@RTLtab\endR\fi\egroup\egroup
10002 \beginngroup
10003 \CT@setup
10004 \CT@column@color
10005 \CT@row@color
10006 \CT@cell@color
10007 \CT@do@color
10008 \endgroup
10009 \tempdima\ht\z@
10010 \advance\tempdima\minrowclearance
10011 \vrule\@height\tempdima\@width\z@
10012 \unhbox\z@\if@RTLtab\endL\fi}%
10013 \prepnext@tok}

```

## 71 File color-xetex-bidi.def

```

10014 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for
10015 \long\def\color@b@x#1#2#3{%
10016 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
10017 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
10018 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
10019 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
10020 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
10021 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
10022 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
10023 \DeclareRobustCommand\color{%
10024 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]{}
10025 \def\@declaredcolor#1{%
10026 \@ifundefined{string\color @#1}%
10027 {\c@lor@error{`#1'}}%
10028 {\expandafter\let\expandafter\current@color
10029 \csname string\color @#1\endcsname
10030 \set@color}%
10031 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10032 \def\@undeclaredcolor[#1]#2{%
10033 \@ifundefined{color@#1}%
10034 {\c@lor@error{model `#1'}}%
10035 {\csname color@#1\endcsname\current@color{#2}%
10036 \set@color}%
10037 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10038 \DeclareRobustCommand\bidicolor{%
10039 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]{}
10040 \def\@bidiundeclaredcolor[#1]#2{%
10041 \@ifundefined{color@#1}%
10042 {\c@lor@error{model `#1'}}%
10043 {\csname color@#1\endcsname\current@color{#2}%
10044 \set@color}%
10045 \ignorespaces}
10046 \def\@bidideclaredcolor#1{%
10047 \@ifundefined{string\color @#1}%
10048 {\c@lor@error{`#1'}}%

```



```

10049 {\expandafter\let\expandafter\current@color
10050 \csname\string\color @#1\endcsname
10051 \set@color}%
10052 \ignorespaces}
10053 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10054 \def\color@fbox#1#2#3{%
10055 \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
10056 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmo

```

## 72 File combine-xetex-bidi.def

```

10057 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class fo
10058 \renewcommand{\c@ll@chapsecii}[2]{%
10059 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10060 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10061 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10062 }
10063 \renewcommand{\c@ll@chapseci}{%
10064 \setlength\@tempdima{0em}%
10065 \begingroup
10066 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10067 \parfillskip -\@pnumwidth
10068 \leavevmode
10069 }
10070 \renewenvironment{tocindent}[1]{%
10071 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 73 File crop-xetex-bidi.def

```

10072 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for Xe
10073 \IfClassLoadedT{memoir}{\endinput}
10074 \RequirePackage{graphicx}
10075 \renewcommand*\CROP@ulc{%
10076 \if@RTLmain%
10077 \begin{picture}(0,0)
10078 \unitlength\p@\thinlines
10079 \put(-40,0){\circle{10}}
10080 \put(-30,-5){\line(0,1){10}}
10081 \put(-35,0){\line(1,0){30}}
10082 \put(-10,30){\circle{10}}
10083 \put(-5,30){\line(1,0){10}}
10084 \put(0,35){\line(0,-1){30}}
10085 \end{picture}%
10086 \else%
10087 \begin{picture}(0,0)
10088 \unitlength\p@\thinlines
10089 \put(-30,0){\circle{10}}
10090 \put(-30,-5){\line(0,1){10}}
10091 \put(-35,0){\line(1,0){30}}
10092 \put(0,30){\circle{10}}
10093 \put(-5,30){\line(1,0){10}}
10094 \put(0,35){\line(0,-1){30}}
10095 \end{picture}%
10096 \fi%

```



```

10097 }
10098 \renewcommand*\CROP@curc{%
10099   \if@RTLmain%
10100     \begin{picture}(0,0)
10101       \unitlength\p@\thinline
10102       \put(20,0){\circle{10}}
10103       \put(30,-5){\line(0,1){10}}
10104       \put(35,0){\line(-1,0){30}}
10105       \put(-10,30){\circle{10}}
10106       \put(-5,30){\line(1,0){10}}
10107       \put(0,35){\line(0,-1){30}}
10108     \end{picture}%
10109   \else%
10110     \begin{picture}(0,0)
10111       \unitlength\p@\thinline
10112       \put(30,0){\circle{10}}
10113       \put(30,-5){\line(0,1){10}}
10114       \put(35,0){\line(-1,0){30}}
10115       \put(0,30){\circle{10}}
10116       \put(-5,30){\line(1,0){10}}
10117       \put(0,35){\line(0,-1){30}}
10118     \end{picture}%
10119   \fi%
10120 }
10121 \renewcommand*\CROP@llc{%
10122   \if@RTLmain%
10123     \begin{picture}(0,0)
10124       \unitlength\p@\thinline
10125       \put(-40,0){\circle{10}}
10126       \put(-30,-5){\line(0,1){10}}
10127       \put(-35,0){\line(1,0){30}}
10128       \put(-10,-30){\circle{10}}
10129       \put(-5,-30){\line(1,0){10}}
10130       \put(0,-35){\line(0,1){30}}
10131     \end{picture}%
10132   \else%
10133     \begin{picture}(0,0)
10134       \unitlength\p@\thinline
10135       \put(-30,0){\circle{10}}
10136       \put(-30,-5){\line(0,1){10}}
10137       \put(-35,0){\line(1,0){30}}
10138       \put(0,-30){\circle{10}}
10139       \put(-5,-30){\line(1,0){10}}
10140       \put(0,-35){\line(0,1){30}}
10141     \end{picture}%
10142   \fi%
10143 }
10144 \renewcommand*\CROP@lrc{%
10145   \if@RTLmain%
10146     \begin{picture}(0,0)
10147       \unitlength\p@\thinline
10148       \put(20,0){\circle{10}}
10149       \put(30,-5){\line(0,1){10}}
10150       \put(35,0){\line(-1,0){30}}

```



```

10151      \put(-10,-30){\circle{10}}
10152      \put(-5,-30){\line(1,0){10}}
10153      \put(0,-35){\line(0,1){30}}
10154  \end{picture}%
10155  \else%
10156  \begin{picture}(0,0)
10157    \unitlength\p@\thinline
10158    \put(30,0){\circle{10}}
10159    \put(30,-5){\line(0,1){10}}
10160    \put(35,0){\line(-1,0){30}}
10161    \put(0,-30){\circle{10}}
10162    \put(-5,-30){\line(1,0){10}}
10163    \put(0,-35){\line(0,1){30}}
10164  \end{picture}%
10165  \fi%
10166 }
10167 \@ifpackagewith{crop}{cam}{%
10168 \CROP@execopt{cam}%
10169 }{}

```

## 74 File cutwin-xetex-bidi.def

```

10170 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for]
10171 \renewcommand*{\c@twcompctr}[2]{%
10172   \def\c@twfirst{1}
10173   \loop\advance\c@twwinlines\m@ne
10174   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10175   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10176   \c@twprune{\c@twslicea}{\c@twlftside}%
10177   \c@twprune{\c@twsliceb}{\c@twrtside}%
10178   \ifnum\c@twfirst=\@ne
10179     \setbox#2=\vbox{\unvbox#2\hbox
10180       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10181     \else
10182       \setbox#2=\vbox{\unvbox#2\hbox
10183       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\
10184     \fi
10185   \def\c@twfirst{2}
10186   \ifnum\c@twwinlines>\z@\repeat}
10187 \renewcommand*{\c@twcompoddctr}[2]{%
10188   \def\c@twrounds{1}
10189   \def\c@twfirst{1}
10190   \@for\c@twlspec:=\c@twb\do{%
10191     \ifnum\c@twrounds=1
10192       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10193       \c@twprune{\c@twslicea}{\c@twlspec}%
10194       \def\c@twrounds{2}
10195     \else
10196       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10197       \c@twprune{\c@twsliceb}{\c@twlspec}%
10198       \ifnum\c@twfirst=1
10199         \setbox#2=\vbox{\unvbox#2\hbox
10200         to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL
10201       \def\c@twfirst{2}

```



```

10202     \else
10203         \setbox#2=\vbox{\unvbox#2\hbox
10204             to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@twsliceb\fi}}
10205     \fi
10206     \def\c@twrounds{1}
10207     \fi}}

```

## 75 File cuted-xetex-bidi.def

```

10208 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for xetex]
10209
10210 \def\RTL@outputdblcol{%
10211     \if@firstcolumn
10212         \global\@firstcolumnfalse
10213         \global\setbox\@leftcolumn\copy\@outputbox
10214         \splitmaxdepth\maxdimen
10215         \vbadness\maxdimen
10216         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10217         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10218         \toks@\expandafter{\topmark}%
10219         \xdef\@firstcoltopmark{\the\toks@}%
10220         \toks@\expandafter{\splitfirstmark}%
10221         \xdef\@firstcolfirstmark{\the\toks@}%
10222         \ifx\@firstcolfirstmark\@empty
10223             \global\let\@setmarks\relax
10224         \else
10225             \gdef\@setmarks{%
10226                 \let\firstmark\@firstcolfirstmark
10227                 \let\topmark\@firstcoltopmark}%
10228         \fi
10229     \else
10230         \global\@firstcolumntrue
10231         \setbox\@outputbox\vbox{%
10232             \hb@xt@\textwidth{%
10233                 \hskip \columnwidth
10234                 \hfil
10235                 {\normalcolor\vrule \columnseprule}%
10236                 \hfil
10237                 \hb@xt@\columnwidth{%
10238                     \bidi@firstcolumn@status@write%
10239                     \box\@leftcolumn \hss}%
10240                 \hskip -\textwidth
10241                 \hb@xt@\columnwidth{%
10242                     \bidi@lastcolumn@status@write%
10243                     \box\@outputbox \hss}%
10244                 \hskip \columnsep
10245                 \hskip \columnwidth }%
10246             \ifvoid\hold@viper
10247             \else
10248                 \setbox\@outputbox \vbox to\textheight{%
10249                     \box\hold@viper
10250                     \box\@outputbox
10251                     \vss
10252                 }%

```



```

10253 \fi
10254 \@combinedblfloats
10255 \@setmarks
10256 \@outputpage
10257 \begingroup
10258 \@dblfloatplacement
10259 \@startdblcolumn
10260 \@whiles\if@fcolmade \fi{\@outputpage
10261 \@startdblcolumn}%
10262 \ifvoid\@viper
10263 \else
10264 \global\setbox\@viper\vbox{%
10265 \vskip-\stripsep
10266 \unvbox\@viper
10267 }%
10268 \@viperoutput
10269 \fi
10270 \endgroup
10271 \fi}%
10272
10273 \def\LTR@outputdblcol{%
10274 \if@firstcolumn
10275 \global\@firstcolumnfalse
10276 \global\setbox\@leftcolumn\copy\@outputbox
10277 \splitmaxdepth\maxdimen
10278 \vbadness\maxdimen
10279 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10280 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10281 \toks@\expandafter{\topmark}%
10282 \xdef\@firstcoltopmark{\the\toks@}%
10283 \toks@\expandafter{\splitfirstmark}%
10284 \xdef\@firstcolfirstmark{\the\toks@}%
10285 \ifx\@firstcolfirstmark\@empty
10286 \global\let\@setmarks\relax
10287 \else
10288 \gdef\@setmarks{%
10289 \let\firstmark\@firstcolfirstmark
10290 \let\topmark\@firstcoltopmark}%
10291 \fi
10292 \else
10293 \global\@firstcolumntrue
10294 \setbox\@outputbox\vbox{%
10295 \hb@xt@\textwidth{%
10296 \hb@xt@\columnwidth{%
10297 \bidi@firstcolumn@status@write%
10298 \box\@leftcolumn \hss}%
10299 \hfil
10300 {\normalcolor\vrule \@width\columnseprule}%
10301 \hfil
10302 \hb@xt@\columnwidth{%
10303 \bidi@lastcolumn@status@write%
10304 \box\@outputbox \hss}}}%
10305 \ifvoid\hold@viper
10306 \else

```





```

10307      \setbox\@outputbox \vbox to\textheight{%
10308                                \box\hold@viper
10309                                \box\@outputbox
10310                                \vss
10311                                }%
10312      \fi
10313      \@combinedblfloats
10314      \@setmarks
10315      \@outputpage
10316      \beginngroup
10317      \@dblfloatplacement
10318      \@startdblcolumn
10319      \@whiles\if@fcolmade \fi{\@outputpage
10320      \@startdblcolumn}%
10321      \ifvoid\@viper
10322      \else
10323      \global\setbox\@viper\vbox{%
10324                                \vskip-\stripsep
10325                                \unvbox\@viper
10326                                }%
10327      \@viperoutput
10328      \fi
10329      \endgroup
10330      \fi}%
10331
10332      \def\@addviper{%
10333      \@insertfalse
10334      \def\var@@thecol@num{2}%
10335      \if@firstcolumn
10336      \def\var@@thecol@num{1}%
10337      \@reqcolroom=.5\@pageht
10338      \ht@viper=\@reqcolroom
10339      \advance\@reqcolroom by\ht\@viper
10340      \advance\@reqcolroom by\stripsep
10341      \else
10342      \@reqcolroom=\@colht
10343      \advance\@reqcolroom by\@pageht
10344      \ht@viper.5\@reqcolroom
10345      \@reqcolroom=\ht@viper
10346      \advance\@reqcolroom by\ht\@viper
10347      \advance\@reqcolroom by\stripsep
10348      \global\setbox\@holdpg\vbox{%
10349      \setbox\cuted@@tempbox@a\vbox{%
10350      \aftergroup\unvbox
10351      \unvcopy\@leftcolumn
10352      \unskip\unkern\unpenalty
10353      \setbox\@tempbox@a\lastbox
10354      \ifdim\dimexpr\ht\@tempbox@a+\wd\@tempbox@a+\dp\@tempbox@a>\z@
10355      %% keeps lastbox
10356      \aftergroup\@leftcolumn
10357      \else
10358      %% removes lastbox
10359      \aftergroup\cuted@@tempbox@a
10360      \fi

```



```

10361         }%
10362         \unskip\unkern\unpenalty
10363         \on@stripcols@break
10364         \the\At@ViperColsBreak
10365         \unvbox\@holdpg
10366     }%
10367     \global\At@ViperColsBreak{}}%
10368     \ht@viper=.5\ht\@holdpg
10369     \ifdim\ht@viper>\@colht
10370         \ht@viper=\@colht
10371     \fi
10372 \fi
10373 %%
10374 %% calculations for breaking
10375 %%
10376 \ifvoid\hold@viper
10377     \ht@hold@viper=\z@
10378 \else
10379     \ht@hold@viper=\ht\hold@viper
10380 \fi
10381 \cuted@@tempdim@b\ht@viper
10382 \set@split@topskip@to\topskip
10383 \loop
10384     \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10385     \setbox\cuted@@varbox@a\copy\@holdpg
10386     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10387     %% set leftcolumn boxes
10388     \setbox\cuted@@tempbox@c\ vbox{\unvbox\cuted@@tempbox@a}%
10389     \setbox\cuted@@tempbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10390     \xdef\var@@leftcolumn@badness{\the\badness}%
10391     %% set rightcolumn boxes
10392     \setbox\cuted@@varbox@c\ vbox{\unvbox\cuted@@varbox@a}%
10393     \setbox\cuted@@varbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10394     \xdef\var@@rightcolumn@badness{\the\badness}%
10395     %% analyzing split goodness
10396     \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10397     \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10398     \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10399     \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10400     \cuted@@wlog@debug{CUTED [----]}%
10401     ^^JLeft: \the\ht\cuted@@tempbox@c
10402     +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10403     ^^JRight: \the\ht\cuted@@varbox@c
10404     +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10405     ^^JSplit: \the\cuted@@tempdim@b
10406     ^^JExtra height: \the\cuted@@tempdim@spread
10407     }%
10408     \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10409         \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10410             \cuted@@tempdim@spread=\z@
10411         \fi
10412     \fi
10413     \ifdim\cuted@@tempdim@spread<\z@
10414         \if@left@column@spread

```



```

10415         \if@right@column@shrink
10416             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10417                 \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread+\pageshrink>\z@
10418             \else
10419                 \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10420             \fi
10421             \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10422             \ifnum\badness<\cuted@@column@badness
10423                 \cuted@@tempdim@b=\cuted@@tempdim@a
10424                 \cuted@@tempdim@spread=\z@
10425             \fi
10426             \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on \the\cuted@@varbox@a}
10427             \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10428             \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on \the\cuted@@varbox@a}
10429         \else
10430             \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{%
10431                 \unvcopy\cuted@@tempbox@c
10432             }%
10433             \ifnum\badness<\cuted@@column@badness
10434                 \@tempdimb=\ht\cuted@@varbox@c
10435                 \cuted@@tempdim@spread=\z@
10436             \fi
10437             \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\cuted@@varbox@a}
10438             \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{%
10439                 \unvcopy\cuted@@tempbox@c
10440             }%
10441             \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\cuted@@varbox@a}
10442         \fi
10443     \else
10444         \if@right@column@shrink
10445             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10446                 \else
10447                     \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10448                     \cuted@@tempdim@spread=\z@
10449                 \fi
10450             \fi
10451         \fi
10452     \else
10453         \ifdim\cuted@@tempdim@spread>\z@
10454             \ifdim\dimexpr\@tempdimb+p@relax>\colht
10455                 \cuted@@tempdim@b=\colht
10456                 \cuted@@tempdim@spread=\z@
10457             \fi
10458         \fi
10459     \fi
10460     \ifdim\cuted@@tempdim@spread<\z@
10461         \advance\cuted@@tempdim@b 1\p@
10462     \repeat
10463     \wlog{CUTED [- LAST -]}%
10464     ^^JExtra skip:\the\cuted@@tempdim@spread
10465     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10466     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10467     ^^JSplit:\saved@tempdimb
10468     ^^JOutput:\the\cuted@@tempdim@b

```



```

10469      ^^JPageshrink: \the\pageshrink
10470      ^^JPagestretch: \the\pagestretch
10471      ^^Jcolht:\the\colht
10472      }%
10473      %%
10474      %% final construction of the cuted page above strip
10475      %%
10476      \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10477      \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10478        \cuted@@tempdim@a=\dimexpr
10479          \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10480          \relax
10481        \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10482        \unvbox\cuted@@tempbox@c
10483        \ifdim\cuted@@tempdim@spread>\dp\strutbox
10484        \else
10485          \vskip-\cuted@@tempdim@spread
10486        \fi
10487        \prevdepth\z@
10488        \hrule\@height\cuted@@page@rule width\textwidth
10489        \vskip-\cuted@@page@rule
10490        \ifdim\cuted@@tempdim@a>\z@
10491          \if@left@column@spread
10492          \else
10493            \vss
10494          \fi
10495        \else
10496          \ifdim\cuted@@tempdim@a<\z@
10497            \if@left@column@shrink
10498            \else
10499              \vss
10500            \fi
10501          \fi
10502        \fi
10503      }%
10504      \wlog{CUTED [output]: \the\cuted@@tempdim@b
10505      ^^JCUTED [leftcolumn badness]: \number\badness
10506      }%
10507      \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10508        \cuted@@tempdim@a=\dimexpr
10509          \cuted@@tempdim@b-\ht\@holdpg
10510          \relax
10511        \unvbox\@holdpg
10512        \ifdim\cuted@@tempdim@a>\z@
10513          \if@right@column@spread
10514          \else
10515            \vss
10516          \fi
10517        \else
10518          \ifdim\cuted@@tempdim@a<\z@
10519            \if@right@column@shrink
10520            \else
10521              \vss
10522            \fi

```



```

10523         \fi
10524     \fi
10525     }%
10526     \wlog{CUTED [rightcolumn badness]: \number\badness}%
10527     \setbox\cuted@@tempbox@var\vbox{%
10528         \hb@xt@\textwidth{%
10529             \if@RTLmain
10530                 \hskip \columnwidth
10531                 \hfil
10532                 {\normalcolor\vrule \@width\columnseprule}%
10533                 \hfil
10534                 \hb@xt@\columnwidth{%
10535                     \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10536                     \hss
10537                 }%
10538                 \hskip -\textwidth
10539                 \hb@xt@\columnwidth{%
10540                     \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10541                     \hss
10542                 }%
10543                 \hskip \columnsep
10544                 \hskip \columnwidth
10545             \else
10546                 \hb@xt@\columnwidth{%
10547                     \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10548                     \hss
10549                 }%
10550                 \hfil
10551                 {\normalcolor\vrule \@width\columnseprule}%
10552                 \hfil
10553                 \hb@xt@\columnwidth{%
10554                     \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10555                     \hss
10556                 }%
10557             \fi
10558         }%
10559     }%
10560     %%
10561     %% finalize cuted page
10562     %%
10563     \ifvoid\hold@viper
10564         \global\setbox\hold@viper\vbox{%
10565             \unvbox\cuted@@tempbox@var
10566             \penalty\interlinepenalty
10567             \vskip\stripsep
10568             \the\preCutedStrip
10569             \ifnum\outputpenalty<-\@Mii
10570                 \vskip -\parskip
10571             \fi
10572             \outputpenalty\z@
10573         }%
10574     \else
10575         \global\setbox\hold@viper\vbox{%
10576             \unvbox\hold@viper

```



```

10577         \cuted@@tempbox@var
10578         \penalty\interlinepenalty
10579         \vskip\stripsep
10580         \the\preCutedStrip
10581         \ifnum\outputpenalty<-\@Mii
10582             \vskip -\parskip
10583         \fi
10584         \outputpenalty\z@
10585     }%
10586 \fi
10587 \ifdim\@colht>\@reqcolroom
10588     \global\setbox\hold@viper\vbox{%
10589         \unvbox\hold@viper
10590         \box\@viper
10591         \penalty\interlinepenalty
10592         \the\postCutedStrip
10593         \vskip\stripsep
10594         \ifnum\outputpenalty<-\@Mii
10595             \vskip -\parskip
10596         \fi
10597         \outputpenalty\z@
10598     }%
10599     \@inserttrue
10600     \global\@firstcolumntrue
10601     \advance\ht@hold@viper by-\ht\hold@viper
10602     \global\advance\@colht by\ht\hold@viper
10603     \ifdim\@colht<2.5\baselineskip
10604         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10605             too tall on page \thepage (\var@@thecol@num column)}}%
10606         \@emptycol
10607         \if@firstcolumn
10608             \else
10609                 \@emptycol
10610             \fi
10611         \global\@lastvipertrue
10612     \else
10613         \global\vsizel\@colht
10614         \global\@colroom\@colht
10615         \check@floats\cuted@@tempdim@a
10616         \ifdim\cuted@@tempdim@a>\z@
10617             \global\advance\@colroom by-\cuted@@tempdim@a
10618         \fi
10619         \ifdim\@colroom<\z@
10620             \global\@colroom1\p@
10621             \ifdim\cuted@@tempdim@a>\@colht
10622                 \@latex@warning@no@line{TOP and/or BOT FLOAT's
10623                     to large on \thepage (\var@@thecol@num column)}}%
10624             \fi
10625             \@emptycol
10626             \if@firstcolumn
10627                 \else
10628                     \@emptycol
10629                 \fi
10630             \global\@lastvipertrue

```



```

10631         \fi
10632     \fi
10633 \fi
10634 \if@insert
10635 \else
10636     \advance\ht@hold@viper by-\ht\hold@viper
10637     \global\advance\@colht by\ht@hold@viper
10638     \global\setbox\hold@viper\ vbox{%
10639         \unvbox\hold@viper
10640         \set@split@topskip@to{\z@ plus2\p@}%
10641         \vsplit\@viper to\@colht
10642         \vss
10643     }%
10644     \vbox{}%
10645     \global\@firstcolumnfalse
10646     \newpage
10647 \fi
10648 }

```

## 76 File cvthemebidicasual.sty

```

10649 \NeedsTeXFormat{LaTeX2e}
10650 \ProvidesPackage{cvthemebidicasual}
10651 \DeclareOption{blue}{}
10652 \newif\if@colourorange\@colourorangefalse
10653 \DeclareOption{orange}{\@colourorange true}
10654 \newif\if@colourgreen\@colourgreenfalse
10655 \DeclareOption{green}{\@colourgreentrue}
10656 \newif\if@colourred\@colourredfalse
10657 \DeclareOption{red}{\@colourred true}
10658 \newif\if@colourgrey\@colourgreyfalse
10659 \DeclareOption{grey}{\@colourgrey true}
10660 \DeclareOption*{
10661     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10662 \ExecuteOptions{colour}
10663 \ProcessOptions\relax
10664 \renewcommand*{\listitemsymbol}{\textbullet}
10665 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10666 \familynamecolour{808080}
10667 \firstnamecolour{A9A9A9}
10668 \quotecolour{696969}
10669 \addresscolour{696969}
10670 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10671 \sectiontitlecolour{1E90FF}
10672 \subsectioncolour{4682B4}
10673 \definecolor{rulecolour}{gray}{0.6}
10674 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10675 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10676 \if@colourorange
10677     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10678     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10679     \sectiontitlecolour{FF8C00}
10680     \subsectioncolour{FF8C00}
10681     \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}

```



```

10682 \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10683 \if@colourgreen
10684 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10685 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10686 \sectiontitlecolour{008000}
10687 \subsectioncolour{008000}
10688 \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10689 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10690 \if@coloured
10691 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10692 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10693 \sectiontitlecolour{FF0000}
10694 \subsectioncolour{FF0000}
10695 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10696 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10697 \if@colourgrey
10698 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10699 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10700 \sectiontitlecolour{808080}
10701 \subsectioncolour{808080}
10702 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10703 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10704 \renewcommand*{\ttdefault}{pcr}
10705 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10706 \renewcommand*{\familynamefont}{\firstnamefont}
10707 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10708 \renewcommand*{\quoteftfont}{\large\slshape}
10709 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10710 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10711 \renewcommand*{\maketitle}{%
10712   {%
10713     \ifthenelse{\isundefined{\@photo}}{%
10714       {%
10715         {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10716         \hfill%
10717         \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\ll[-.35em]
10718         {\color{firstnamecolor}\rule{\textwidth}{.25ex}\ll[2.5em]}}%
10719       \ifthenelse{\isundefined{\@quote}}{%
10720         {%
10721           {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\ll[2.5em]
10722         }%
10723       \newif\if@firstfooterelement\@firstfooterelementtrue
10724       \providecommand*{\footersymbol}{%
10725         \renewcommand*{\footersymbol}{%
10726           \if@firstfooterelement%
10727           \else%
10728             {~~\color{footersymbolcolor}\textbullet~~}\fi}
10729       \providecommand*{\makefooter}{%
10730         \renewcommand*{\makefooter}{%
10731           \fancypagestyle{plain}{%
10732             \fancyfoot[c]{%
10733               \parbox{0.8\textwidth}{%
10734                 \centering%
10735                 \addressfont\@addresscolour%

```





```

10736 \ifthenelse{\isundefined{\@address}}{\}%
10737 \addresssymbol~\@address\\%
10738 \@firstfooterelementfalse}%
10739 \ifthenelse{\isundefined{\@mobile}}{\}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10740 \ifthenelse{\isundefined{\@phone}}{\}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10741 \ifthenelse{\isundefined{\@fax}}{\}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10742 \ifthenelse{\isundefined{\@email}}{\}{\footersymbol\emailsymbol~\email\@firstfooterelementfalse}%
10743 \ifthenelse{\isundefined{\@extrainfo}}{\}{\footersymbol\@extrainfo\@firstfooterelementfalse}%
10744 }%
10745 \pagestyle{plain}}
10746 \AtBeginDocument{\makefooter}

```

## 77 File cvthemebidiclassic.sty

```

10747 \NeedsTeXFormat{LaTeX2e}
10748 \ProvidesPackage{cvthemebidiclassic}
10749 \DeclareOption{blue}{}
10750 \newif\if@colourorange\@colourorangefalse
10751 \DeclareOption{orange}{\@colourorange>true}
10752 \newif\if@colourgreen\@colourgreenfalse
10753 \DeclareOption{green}{\@colourgreentruer}
10754 \newif\if@colourred\@colourredfalse
10755 \DeclareOption{red}{\@colourredtrue}
10756 \newif\if@colourgrey\@colourgreyfalse
10757 \DeclareOption{grey}{\@colourgreytrue}
10758 \DeclareOption*{
10759 \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10760 \ExecuteOptions{colour}
10761 \ProcessOptions\relax
10762 \renewcommand*{\listitemsymbol}{\textbullet}
10763 \firstnamecolour{}
10764 \familynamecolour{}
10765 \titlecolour{808080}
10766 \quotecolour{696969}
10767 \addresscolour{696969}
10768 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10769 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10770 \sectiontitlecolour{1E90FF}
10771 \subsectioncolour{4682B4}
10772 \if@colourorange
10773 \addresscolour{FF8C00}
10774 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10775 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10776 \sectiontitlecolour{FF8C00}
10777 \subsectioncolour{FF8C00}\fi
10778 \if@colourgreen
10779 \addresscolour{008000}
10780 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10781 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10782 \sectiontitlecolour{008000}
10783 \subsectioncolour{008000}\fi
10784 \if@colourred
10785 \addresscolour{FF0000}
10786 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}

```



```

10787 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10788 \sectiontitlecolour{FF0000}
10789 \subsectioncolour{FF0000}\fi
10790 \if@colourgrey
10791 \addresscolour{808080}
10792 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10793 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10794 \sectiontitlecolour{808080}
10795 \subsectioncolour{808080}\fi
10796 \renewcommand*{\ttdefault}{pcr}
10797 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10798 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10799 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10800 \renewcommand*{\familynamefont}{\firstnamefont}
10801 \renewcommand*{\quoteftfont}{\large\slshape}
10802 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10803 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10804 \newlength{\maketitlenamemaxwidth}
10805 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10806 \newlength{\maketitlenamewidth}
10807 \settowidth{\maketitlenamewidth}{\firstnamestyle{\@firstname-}\familynamestyle{\@familyname-}}
10808 \newlength{\maketitlepicturewidth}
10809 \ifnum\maketitlenamewidth<\maketitlenamewidth\setlength{\maketitlenamewidth}{\maketitlepicturewidth}
10810 \setlength{\maketitlepicturewidth}{\@photowidth}
10811 \newlength{\maketitledetailwidth}
10812 \renewcommand*{\recomputethemelengths}{%
10813 \setlength{\maketitledetailwidth}{\textwidth}%
10814 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10815 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10816 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10817 \recomputethemelengths
10818 \newif\if@firstdetailselement\@firstdetailselementtrue
10819 \newcommand*{\maketitledetailsnewline}{%
10820 \if@firstdetailselement%
10821 \@firstdetailselementfalse%
10822 \else%
10823 \\\[.2em]\fi}
10824 \renewcommand*{\maketitle}{%
10825 % name and title
10826 \begin{minipage}[b]{\maketitlenamewidth}%
10827 \firstnamestyle{\@firstname-}\familynamestyle{\@familyname}%
10828 \ifthenelse{equal{\@title}{}}{\\\[1.25em]\titlestyle{\@title}}%
10829 \end{minipage}%
10830 % optional data
10831 \begin{minipage}[b]{\maketitledetailwidth}%
10832 \bidi@raggedleft\addressfont\@addresscolour%
10833 \ifthenelse{\isundefined{\@address}}{\%
10834 \maketitledetailsnewline%
10835 \addresssymbol~\\\@address}%
10836 \ifthenelse{\isundefined{\@mobile}}{\%
10837 \maketitledetailsnewline\mobilesymbol~\@mobile}%
10838 \ifthenelse{\isundefined{\@phone}}{\%
10839 \maketitledetailsnewline\phonesymbol~\@phone}%
10840 \ifthenelse{\isundefined{\@fax}}{\%
10841 \maketitledetailsnewline\faxsymbol~\@fax}%
10842 \ifthenelse{\isundefined{\@email}}{\%
10843 \maketitledetailsnewline\emailsymbol~\@email}%

```



```

10841 \ifthenelse{\isundefined{\@extrainfo}}{\maketitledetailsnewline\@extrainfo}%
10842 \end{minipage}%
10843 % optional photo
10844 \ifthenelse{\isundefined{\@photo}}%
10845 {}%
10846 {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10847 % optional quote
10848 \ifthenelse{\isundefined{\@quote}}%
10849 {}%
10850 {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\
10851 }

```

## 78 File dblfnote-xetex-bidi.def

```

10852 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote packag
10853 \let\autofootnoterule\relax
10854 \let\rightfootnoterule\relax
10855 \let\leftfootnoterule\relax
10856 \let\textwidthfootnoterule\relax
10857 \let\LRfootnoterule\relax
10858 \def\footnoterule{\kern-3\p@
10859 \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10860 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10861 \let\@footnotetext\dfn@footnotetext}
10862 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
10863 \let\insert\dfn@gobble
10864 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10865 \def\@makefnmark{\smash{\dfn@makefnmark}}
10866 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10867 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10868 \ifdim\dfn@dima>\z@\else
10869 \dfn@dima1sp\relax
10870 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10871 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10872 \ifvoid\dfn@ins\else
10873 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10874 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10875 \setbox\dfn@boxa\copy\dfn@ins
10876 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10877 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10878 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10879 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10880 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10881 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10882 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10883 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10884 \let\insert\dfn@gobble
10885 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10886 \def\@makefnmark{\smash{\dfn@makefnmark}}
10887 \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10888 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10889 \ifdim\dfn@dima>\z@\else
10890 \dfn@dima1sp\relax
10891 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi

```



```

10892 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10893 \ifvoid\dfn@ins\else
10894 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10895 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10896 \setbox\dfn@boxa\copy\dfn@ins
10897 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10898 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10899 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10900 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10901 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}\number\@tempdima}}}}
10902 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10903 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10904 \def\dfn@RTLmakecol{\ifvoid\footins\else
10905 \dfn@dima\ht\footins
10906 \@tempcnta\z@ \dfn@countins
10907 \@tempdima\z@ \let\@elt\dfn@elt@getht
10908 \dfn@list\@nil
10909 \ifdim\@tempdima=\z@\else
10910 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10911 \global\setbox\dfn@ins\box\dfn@ins
10912 \@tempswatrue
10913 \ifdfn@trysingle
10914 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10915 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10916 \advance\@tempdima-\skip\footins
10917 \advance\@tempdima-\ht\dfn@boxa
10918 \ifdim\@tempdima<\z@\else \@tempswafalse
10919 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10920 \footnoterule \unvbox\dfn@boxa}\fi\fi
10921 \if@tempswa
10922 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10923 \global\setbox\footins\vbox{\hbox{%
10924 \hskip \DFNcolumnwidth
10925 \hskip \DFNcolumnsep
10926 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10927 \unvbox\dfn@boxb\vss}\hss}
10928 \hskip -\textwidth
10929 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10930 \vbox to\@tempdima{
10931 \setbox\@tempboxa\vbox{\footnoterule}
10932 \ifdfn@ruleboth \unvbox\@tempboxa
10933 \else \@tempdima\ht\@tempboxa
10934 \advance\@tempdima\dp\@tempboxa
10935 \vskip\@tempdima
10936 \prevdepth\dp\@tempboxa \fi
10937 \unvbox\dfn@boxa\vss}\fi\hss}
10938 \hskip \DFNcolumnsep
10939 \hskip \DFNcolumnwidth}}\fi\fi
10940 \global\dfn@fnht\z@
10941 \ifx\dfn@list\@empty\else
10942 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10943 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10944 \let\@elt\relax
10945 \ifdim\dfn@dimb>\z@

```



```

10946 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10947 \insert\footins{\floatingpenalty\@MM
10948 \vbox to\dfn@dimb{}}\fi
10949 \ifdim\dfn@fnht>\@tempdima
10950 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10951 \global\dfn@fnht\@tempdima
10952 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10953 \xdef\dfn@afteroutput{\insert\footins{
10954 \floatingpenalty\@MM
10955 \vbox to\number\@tempdimb sp{}}%
10956 \global\let\noexpand\dfn@afteroutput\relax}%
10957 \fi\fi
10958 \fi}%
10959 \let\footnoterule\relax \dfn@latex@makecol
10960 \let\footnoterule\dfn@footnoterule}
10961 \def\dfn@LTRmakecol{\ifvoid\footins\else
10962 \dfn@dim\ht\footins
10963 \@tempcnta\z@ \dfn@countins
10964 \@tempdima\z@ \let\@elt\dfn@elt@getht
10965 \dfn@list\@nil
10966 \ifdim\@tempdima=\z@\else
10967 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10968 \global\setbox\dfn@ins\box\dfn@ins
10969 \@tempswatrue
10970 \ifdfn@trysingle
10971 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10972 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10973 \advance\@tempdima-\skip\footins
10974 \advance\@tempdima-\ht\dfn@boxa
10975 \ifdim\@tempdima<\z@\else \@tempswafalse
10976 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10977 \footnoterule \unvbox\dfn@boxa}\fi\fi
10978 \if@tempswa
10979 \dfn@split{\dfn@dim}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10980 \global\setbox\footins\vbox{\hbox{%
10981 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10982 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10983 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10984 \vbox to\@tempdima{
10985 \setbox\@tempboxa\vbox{\footnoterule}
10986 \ifdfn@ruleboth \unvbox\@tempboxa
10987 \else \@tempdima\ht\@tempboxa
10988 \advance\@tempdima\dp\@tempboxa
10989 \vskip\@tempdima
10990 \prevdepth\dp\@tempboxa \fi
10991 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10992 \global\dfn@fnht\z@
10993 \ifx\dfn@list\@empty\else
10994 \let\@elt\dfn@elt@adjust \dfn@dim\z@ \dfn@dimb\z@
10995 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10996 \let\@elt\relax
10997 \ifdim\dfn@dimb>\z@
10998 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10999 \insert\footins{\floatingpenalty\@MM

```



```

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

```

## 79 File diagbox-xetex-bidi.def

```

11017 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package]
11018 \bidi@patchcmd{\diagbox@double}{%
11019 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11020 }{\bidi@@diagbox@double@ii}{-}{-}
11021 \bidi@patchcmd{\diagbox@double}{%
11022 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11023 }{\bidi@@diagbox@double@iii}{-}{-}
11024 \newcommand*{\bidi@@diagbox@double@ii}{%
11025 \if@RTL
11026 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
11027 \else
11028 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11029 \fi
11030 }
11031 \newcommand*{\bidi@@diagbox@double@iii}{%
11032 \if@RTL
11033 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11034 \else
11035 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11036 \fi
11037 }
11038 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11039 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11040 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11041 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11042 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11043 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11044 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11045 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11046 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11047 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
11048 \if@RTL
11049 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
11050 \else

```



```

11051 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11052 \fi}
11053 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
11054 \if@RTL
11055 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11056 \else
11057 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11058 \fi}
11059 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11060 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11061 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11062 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}%
11063 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11064 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11065 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}%
11066 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11067 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11068 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}%
11069 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
11070 \if@RTL
11071 \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}}
11072 \else
11073 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11074 \fi
11075 }
11076 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11077 \if@RTL
11078 \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11079 \else
11080 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}}
11081 \fi
11082 }
11083 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11084 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11085 \diagbox@setlinecolor
11086 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11087 }{%
11088 {\diagbox@setlinecolor
11089 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11090 }{-}{-}
11091 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11092 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11093 \diagbox@setlinecolor
11094 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11095 }{%
11096 {\diagbox@setlinecolor
11097 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11098 }{-}{-}
11099 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11100 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11101 \diagbox@setlinecolor
11102 \Line(0,\yym)(\x,0)
11103 \Line(\xm,\y)(\x,0)%
11104 }{%

```





```

11105 {\diagbox@setlinecolor
11106 \Line(0,\yym)(\x,0)
11107 \Line(\xm,\y)(\x,0)}%
11108 }{}{}
11109 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11110 \diagbox@setlinecolor
11111 \Line(0,0)(\xxm,\y)
11112 \Line(0,0)(\x,\yym)%
11113 }{%
11114 {\diagbox@setlinecolor
11115 \Line(0,0)(\xxm,\y)
11116 \Line(0,0)(\x,\yym)}%
11117 }{}{}
11118 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11119 \diagbox@setlinecolor
11120 \Line(0,\ym)(\x,\y)
11121 \Line(\xm,0)(\x,\y)%
11122 }{%
11123 {\diagbox@setlinecolor
11124 \Line(0,\ym)(\x,\y)
11125 \Line(\xm,0)(\x,\y)}%
11126 }{}{}
11127 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11128 \diagbox@setlinecolor
11129 \Line(0,\y)(\xxm,0)
11130 \Line(0,\y)(\x,\ym)%
11131 }{%
11132 {\diagbox@setlinecolor
11133 \Line(0,\y)(\xxm,0)
11134 \Line(0,\y)(\x,\ym)}%
11135 }{}{}

```

## 80 File draftwatermark-xetex-bidi.def

```

11136 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwatermark]
11137 \renewcommand\SetWatermarkText[1]{%
11138 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

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

```

11139 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package]
11140 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11141 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}
11142
11143 \ESO@isMEMOIR{%
11144 \renewcommand\AtTextUpperLeft[1]{%
11145 \begingroup
11146 \ifodd\c@page
11147 \if@RTLmain
11148 \ESO@tempdima=\paperwidth
11149 \advance\ESO@tempdima-\textwidth
11150 \advance\ESO@tempdima-\spinewidth
11151 \else
11152 \ESO@tempdima=\spinewidth

```





```

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

```

## 82 File empheq-xetex-bidi.def

```

11200 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package fo
11201 \MHInternalSyntaxOn
11202 \def\EQ_tag_plus_endmark:{%
11203   \iftagsleft@

```



```

11204 \gdef\maketag@@@##1{%
11205 \hfuzz\displaywidth
11206 \ifRTL\makebox[\widthof{##1}][r]{%
11207 \hbox to \displaywidth{\m@th\normalfont##1\hss
11208 \raisebox{-\dp\EQ_mathdisplay_box
11209 -\depthof{\EQ_outerbox:}}{
11210 {\PotEndMark{\hss}}}}
11211 \else\makebox[\widthof{##1}][l]{%
11212 \hbox to \displaywidth{\m@th\normalfont##1\hss
11213 \raisebox{-\dp\EQ_mathdisplay_box
11214 -\depthof{\EQ_outerbox:}}{
11215 {\PotEndMark{\hss}}}}}\fi}%
11216 \MH_else:
11217 \gdef\maketag@@@##1{%
11218 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11219 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11220 \MH_addtolength:dn \@tempdima
11221 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11222 \setlength{\@tempdimb}
11223 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11224 +\depthof{\EQ_innerbox:}}}}
11225 \MH_if_dim:w \@tempdima>\@tempdimb
11226 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11227 -\@tempdima+\g_EQ_bottomrow_depth_dim}
11228 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11229 \def\EQ_next:{\raisebox{\@tempdima}}%
11230 \MH_else:
11231 \def\EQ_next:{
11232 \raisebox{-\dp\EQ_mathdisplay_box
11233 -\depthof{\EQ_outerbox:}}}%
11234 \MH_fi:\EQ_next:}}}%
11235 \MH_fi:}
11236 \def\EQ_post_process:{%
11237 \EQ_initialize:
11238 \EQ_begin_equation:
11239 \MH_if_boolean:nT {outer_mult}{
11240 \setkeys{\MT_options_name:}{
11241 firstline-afterskip=Opt,
11242 lastline-preskip=Opt,
11243 multlined-width=Opt,
11244 }
11245 \ifodd \l_EQ_alignmentmode_int
11246 \setkeys{\MT_options_name:}{multlined-pos=b}
11247 \MH_else:
11248 \setkeys{\MT_options_name:}{multlined-pos=t}
11249 \MH_fi:
11250 \g@addto@macro\EQ_complete_mathdisplay:{
11251 \begin{MTmultlined}\relax
11252 }
11253 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11254 \MH_if_boolean:nT {outer_mult}{
11255 \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11256 }
11257 \EQ_end_equation:

```



```

11258 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11259 \savecounters@
11260 \EQ_typeset_tags:
11261 \edef\l_EQ_equation_fint{\number\c@equation}
11262 \restorecounters@
11263 \Hy@linkcounter=\EQ_hyperref_link_fint
11264 \settowidth\l_EQ_totalwidth_dim{%
11265   $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
11266 \MH_if_boolean:nTF {outer_mult}
11267   { \def\EQ_next:{_mult} }
11268   { \def\EQ_next:{} }
11269 \@nameuse{EQ_modify_linewidth_
11270   \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11271 \EQ_typeset_display:
11272 \@nameuse{EQ_find_displaywidth_
11273   \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11274 \MH_addtolength:dn
11275   \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11276 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11277   $\EQ_left_side:
11278   \EQ_innerbox:{%
11279     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11280     \makebox[\l_EQ_displaywidth_dim][c]
11281     {\usebox{\EQ_mathdisplay_box}}%
11282   \MH_or:
11283     \makebox[\l_EQ_displaywidth_dim][c]
11284     {\usebox{\EQ_mathdisplay_box}}%
11285   \MH_or:
11286     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11287       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11288         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11289           \kern-\@mathmargin
11290           \MH_fi:
11291           \MH_fi:
11292           \usebox{\EQ_mathdisplay_box}}%
11293     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11294       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11295         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11296           \kern-\@mathmargin
11297           \MH_fi:
11298           \MH_fi:
11299           \usebox{\EQ_mathdisplay_box}}\fi%
11300   \MH_or:
11301     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11302       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11303         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11304           \kern-\@mathmargin
11305           \MH_fi:
11306           \MH_fi:
11307           \usebox{\EQ_mathdisplay_box}}
11308     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11309       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11310         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11311           \kern-\@mathmargin

```



```

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

```

## 83 File extarticle-xetex-bidi.def

11362 \ProvidesFile{extarticle-xetex-bidi.def}[2025/09/08 v0.7 bidi adaptations for extarticle cl



```

11363 \renewcommand*\l@section[2]{%
11364   \ifnum \c@tocdepth >\z@
11365     \addpenalty\@secpenalty
11366     \addvspace{1.0em \@plus\p@}%
11367     \setlength\@tempdima{1.5em}%
11368     \begingroup
11369       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11370       \parfillskip -\@pnumwidth
11371       \leavevmode \bfseries
11372       \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
11373       \hskip -\if@RTL\rightskip\else\leftskip\fi
11374       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11375     \endgroup
11376   \fi}
11377 \renewcommand*\l@part[2]{%
11378   \ifnum \c@tocdepth >-2\relax
11379     \addpenalty\@secpenalty
11380     \addvspace{2.25em \@plus\p@}%
11381     \begingroup
11382       \setlength\@tempdima{3em}%
11383       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11384       \parfillskip -\@pnumwidth
11385       {\leavevmode
11386         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11387       \nobreak
11388     \endgroup
11389   \fi}
11390 \ApplyPatchIfPackageLoaded{nameref}{%
11391   \bidi@patchcmd\NR@part\raggedright{%
11392     \if@RTL\raggedleft\else\raggedright\fi
11393   }{}{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}%
11394   \bidi@patchcmd\NR@spart\raggedright{%
11395     \if@RTL\raggedleft\else\raggedright\fi
11396   }{}{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
11397 }{%
11398   \bidi@patchcmd\@part\raggedright{%
11399     \if@RTL\raggedleft\else\raggedright\fi
11400   }{}{\bidi@warningnoline{Oops! patching `string\@part' failed}}%
11401   \bidi@patchcmd\@spart\raggedright{%
11402     \if@RTL\raggedleft\else\raggedright\fi
11403   }{}{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
11404 }
11405 \renewenvironment{thebibliography}[1]
11406   {\section*{\refname
11407     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11408     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11409     \bidi@thebibliography@font@hook%
11410     \list{\@biblabel{\@arabic\c@enumiv}}%
11411       {\settowidth\labelwidth{\@biblabel{#1}}%
11412        \leftmargin\labelwidth
11413        \advance\leftmargin\labelsep
11414        \@openbib@code
11415        \usecounter{enumiv}%
11416        \let\p@enumiv\@empty

```



```

11417         \renewcommand\theenumiv{\@arabic\c@enumiv}}}%
11418         \sloppy\clubpenalty4000\widowpenalty4000%
11419         \sfcode\.\@m}
11420     {\def\@noitemerr
11421       {\@latex@warning{Empty `thebibliography' environment}}}%
11422     \endlist}
11423 \renewcommand\left@footnoterule{%
11424   \kern-3\p@
11425   \hrule\@width.4\columnwidth
11426   \kern2.6\p@}
11427 \renewcommand\right@footnoterule{%
11428   \kern-3\p@
11429   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11430   \kern2.6\p@}
11431   \if@titlepage
11432   \renewcommand\maketitle{\begin{titlepage}%
11433     \let\footnotesize\small
11434     \let\right@footnoterule\relax
11435     \let\left@footnoterule\relax
11436     \let\textwidth\footnoterule\relax
11437     \let \footnote \thanks
11438     \null\vfil
11439     \vskip 60\p@
11440     \begin{center}%
11441       {\LARGE \@title \par}%
11442       \vskip 3em%
11443       {\large
11444         \lineskip .75em%
11445         \begin{tabular}[t]{c}%
11446           \@author
11447           \end{tabular}\par}%
11448         \vskip 1.5em%
11449         {\large \@date \par}%           % Set date in \large size.
11450       \end{center}\par
11451       \@thanks
11452       \vfil\null
11453       \end{titlepage}%
11454       \setcounter{footnote}{0}%
11455       \global\let\thanks\relax
11456       \global\let\maketitle\relax
11457       \global\let\@thanks\@empty
11458       \global\let\@author\@empty
11459       \global\let\@date\@empty
11460       \global\let\@title\@empty
11461       \global\let\title\relax
11462       \global\let\author\relax
11463       \global\let\date\relax
11464       \global\let\and\relax
11465   }
11466 \else
11467 \renewcommand\maketitle{\par
11468   \begingroup
11469     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11470     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%

```



```

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

```



## 84 File extbook-xetex-bidi.def

```

11523 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class fo
11524 \if@titlepage
11525 \renewcommand\maketitle{\begin{titlepage}%
11526 \let\footnotesize\small
11527 \let\right@footnoterule\relax
11528 \let\left@footnoterule\relax
11529 \let\textwidth@footnoterule\relax
11530 \let \footnote \thanks
11531 \let \LTRfootnote \LTRthanks
11532 \let \RTLfootnote \RTLthanks
11533 \null\vfil
11534 \vskip 60\p@
11535 \begin{center}%
11536 {\LARGE \@title \par}%
11537 \vskip 3em%
11538 {\large
11539 \lineskip .75em%
11540 \begin{tabular}[t]{c}%
11541 \@author
11542 \end{tabular}\par}%
11543 \vskip 1.5em%
11544 {\large \@date \par}% % Set date in \large size.
11545 \end{center}\par
11546 \@thanks
11547 \vfil\null
11548 \end{titlepage}%
11549 \setcounter{footnote}{0}%
11550 \global\let\thanks\relax
11551 \global\let\LTRthanks\relax
11552 \global\let\RTLthanks\relax
11553 \global\let\maketitle\relax
11554 \global\let\@thanks\@empty
11555 \global\let\@author\@empty
11556 \global\let\@date\@empty
11557 \global\let\@title\@empty
11558 \global\let\title\relax
11559 \global\let\author\relax
11560 \global\let\date\relax
11561 \global\let\and\relax
11562 }
11563 \else
11564 \renewcommand\maketitle{\par
11565 \begingroup
11566 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11567 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11568 \long\def\@makefntext##1{\parindent 1em\noindent
11569 \hb@xt@1.8em{%
11570 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11571 \if@twocolumn
11572 \ifnum \col@number=\@ne
11573 \maketitle
11574 \else

```





```

11575         \twocolumn[\@maketitle]%
11576     \fi
11577 \else
11578     \newpage
11579     \global\@topnum\z@    % Prevents figures from going at top of page.
11580     \@maketitle
11581 \fi
11582 \thispagestyle{plain}\@thanks
11583 \endgroup
11584 \setcounter{footnote}{0}%
11585 \global\let\thanks\relax
11586 \global\let\LTRthanks\relax
11587 \global\let\RTLthanks\relax
11588 \global\let\maketitle\relax
11589 \global\let\@maketitle\relax
11590 \global\let\@thanks\@empty
11591 \global\let\@author\@empty
11592 \global\let\@date\@empty
11593 \global\let\@title\@empty
11594 \global\let\title\relax
11595 \global\let\author\relax
11596 \global\let\date\relax
11597 \global\let\and\relax
11598 }
11599 \def\@maketitle{%
11600     \newpage
11601     \null
11602     \vskip 2em%
11603     \begin{center}%
11604         \let \footnote \thanks
11605         \let \LTRfootnote \LTRthanks
11606         \let \RTLfootnote \RTLthanks
11607         {\LARGE \@title \par}%
11608         \vskip 1.5em%
11609         {\large
11610             \lineskip .5em%
11611             \begin{tabular}[t]{c}%
11612                 \@author
11613             \end{tabular}\par}%
11614         \vskip 1em%
11615         {\large \@date}%
11616     \end{center}%
11617     \par
11618     \vskip 1.5em}
11619 \fi
11620 \renewcommand*{\l@part[2]}{%
11621     \ifnum \c@tocdepth >-2\relax
11622         \addpenalty{-\@highpenalty}%
11623         \advspace{2.25em \@plus\p@}%
11624         \begingroup
11625             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11626             \parfillskip -\@pnumwidth
11627             {\leavevmode
11628                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par

```



```

11629      \nobreak
11630      \global\@nobreaktrue
11631      \everypar{\global\@nobreakfalse\everypar{}}%
11632  \endgroup
11633  \fi}
11634 \renewcommand\theequation
11635  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11636 \renewcommand \thefigure
11637  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11638 \renewcommand \thetable
11639  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11640 \renewcommand \thechapter {\@arabic\c@chapter}
11641 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11642 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11643 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11644 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11645 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11646 \def\@makechapterhead#1{%
11647   \vspace*{50\p@}%
11648   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11649     \ifnum \c@secnumdepth >\m@ne
11650       \if@mainmatter
11651         \huge\bfseries \@chapapp\space \thechapter
11652         \par\nobreak
11653         \vskip 20\p@
11654       \fi
11655     \fi
11656     \interlinepenalty\@M
11657     \Huge \bfseries #1\par\nobreak
11658     \vskip 40\p@
11659   }}
11660
11661 \def\@makeschapterhead#1{%
11662   \vspace*{50\p@}%
11663   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11664     \normalfont
11665     \interlinepenalty\@M
11666     \Huge \bfseries #1\par\nobreak
11667     \vskip 40\p@
11668   }}
11669 \renewcommand\backmatter{%
11670   \if@openright
11671     \cleardoublepage
11672   \else
11673     \clearpage
11674   \fi
11675   \@mainmatterfalse}
11676 \renewenvironment{thebibliography}[1]
11677   {\chapter*{\bibname
11678     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11679     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11680     \bidi@thebibliography@font@hook%
11681     \list{\@biblabel{\@arabic\c@enumiv}}%
11682     {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

11683         \leftmargin\labelwidth
11684         \advance\leftmargin\labelsep
11685         \@openbib@code
11686         \usecounter{enumiv}%
11687         \let\p@enumiv\@empty
11688         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11689     \sloppy
11690     \clubpenalty4000
11691     \@clubpenalty \clubpenalty
11692     \widowpenalty4000%
11693     \sfcode`\.\@m}
11694 {\def\@noitemerr
11695  {\@latex@warning{Empty `thebibliography' environment}}}%
11696 \endlist}

```

## 85 File extletter-xetex-bidi.def

```

11697 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter clas
11698 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11699   \thispagestyle{firstpage}%
11700   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11701   \else % home address
11702     \thispagestyle{empty}%
11703     {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignor
11704       \fromaddress \*[2\parskip]%
11705       \@date \end{tabular}\par}%
11706   \fi
11707   \vspace{2\parskip}%
11708   {\if@RTL\raggedleft\else\raggedright\fi \toname \[2\parskip] \toaddress \par}%
11709   \vspace{2\parskip}%
11710   #1\par\nobreak}
11711 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11712   \stopbreaks
11713   \noindent
11714   \ifx\@empty\fromaddress\else
11715     \hspace*{\longindentation}\fi
11716   \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11717     \ignorespaces #1\[[6\medskipamount]%
11718     \ifx\@empty\fromsig
11719       \fromname
11720     \else \fromsig \fi\strut}%
11721   \par}
11722 \renewcommand\left@footnoterule{%
11723   \kern-\p@
11724   \hrule \@width .4\columnwidth
11725   \kern .6\p@}
11726 \renewcommand\right@footnoterule{%
11727   \kern-\p@
11728   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11729   \kern .6\p@}

```

## 86 File extrafootnotefeatures-xetex-bidi.def

```

11730 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/09/13 v2.8 bidi extra footnote fea

```



```

11731 \newdimen\bidicolumnwidth
11732 \def\bidifloathook{%
11733   \bidicolumnwidth\columnwidth
11734 }
11735 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11736 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11737 \if@bidi@csundef{HLTR@LTrfootnotetext}{-}{%
11738 \ifHy@hyperfootnotes
11739   \let\@H@footnotetext\@footnotetext
11740   \let\@HLTR@LTrfootnotetext\@LTrfootnotetext
11741   \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11742   \let\@H@mpfootnotetext\@mpfootnotetext
11743   \let\@HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11744   \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11745 \fi
11746 }%
11747 }%
11748 }
11749 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11750 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11751 \if@bidi@csundef{HLTR@LTrfootnotetext}{-}{%
11752 \ifHy@hyperfootnotes
11753   \let\H@footnotetext\@footnotetext
11754   \let\@footnotetext\@H@footnotetext
11755   \let\HLTR@LTrfootnotetext\@LTrfootnotetext
11756   \let\@LTrfootnotetext\@HLTR@LTrfootnotetext
11757   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11758   \let\@RTLfootnotetext\@HRTL@RTLfootnotetext
11759   \let\H@mpfootnotetext\@mpfootnotetext
11760   \let\@mpfootnotetext\@H@mpfootnotetext
11761   \let\HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11762   \let\@mpLTrfootnotetext\@HLTR@mpLTrfootnotetext
11763   \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11764   \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
11765 \fi
11766 }%
11767 }%
11768 }
11769 \let\autofootnoterule\relax
11770 \let\rightfootnoterule\relax
11771 \let\leftfootnoterule\relax
11772 \let\textwidthfootnoterule\relax
11773 \let\LRfootnoterule\relax
11774 \def\footnoterule{\kern-3\p@
11775   \hrule \@width \columnwidth \kern 2.6\p@}
11776 \newcommand{\@preamnormalfmt}{%
11777   \parindent 1em%
11778   \noindent
11779 }
11780 \newcommand{\@normalfootfmt}[1]{%
11781   \@preamnormalfmt
11782   \footfootmark
11783   \rule{z@}{\footnotesep}\ignorespaces{\foottextfont #1}%
11784   \@finalstrut\strutbox

```



```

11785 }
11786 \newcommand{\@normalRTLfootfmt}[1]{%
11787   \@preamnormalfmt
11788   \RTLfootfootmark
11789   \rule{z@\footnotesep\ignorespaces}{\RTLfoottextfont #1}%
11790   \@finalstrut\strutbox
11791 }
11792 \newcommand{\@normalLTRfootfmt}[1]{%
11793   \@preamnormalfmt
11794   \LTRfootfootmark
11795   \rule{z@\footnotesep\ignorespaces}{\LTRfoottextfont #1}%
11796   \@finalstrut\strutbox
11797 }
11798 \renewcommand{\@footnotetext}[1]{%
11799   \insert\footins{%
11800     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11801     \def\baselinestretch{\m@m@footnote@spacing}%
11802     \reset@font
11803     \foottextfont
11804     \@preamfntext
11805     \hsize\columnwidth
11806     \protected@edef\@currentlabel{%
11807       \csname p@footnote\endcsname\@thefnmark}%
11808     \color@begingroup
11809       \@normalfootfmt{#1}%
11810     \color@endgroup}%
11811     \m@mmf@prepare}
11812 \renewcommand{\@RTLfootnotetext}[1]{%
11813   \insert\footins{%
11814     \@RTLtrue%
11815     \def\baselinestretch{\m@m@footnote@spacing}%
11816     \reset@font
11817     \RTLfoottextfont
11818     \@preamfntext
11819     \hsize\columnwidth
11820     \protected@edef\@currentlabel{%
11821       \csname p@footnote\endcsname\@thefnmark}%
11822     \color@begingroup
11823       \@normalRTLfootfmt{#1}%
11824     \color@endgroup}%
11825     \m@mmf@prepare}
11826 \renewcommand{\@LTRfootnotetext}[1]{%
11827   \insert\footins{%
11828     \@RTLfalse%
11829     \def\baselinestretch{\m@m@footnote@spacing}%
11830     \reset@font
11831     \LTRfoottextfont
11832     \@preamfntext
11833     \hsize\columnwidth
11834     \protected@edef\@currentlabel{%
11835       \csname p@footnote\endcsname\@thefnmark}%
11836     \color@begingroup
11837       \@normalLTRfootfmt{#1}%
11838     \color@endgroup}%

```



```

11839 \m@mmf@prepare}
11840 \renewcommand{\@mpfootnotetext}[1]{%
11841 \global\setbox\@mpfootins\vbox{%
11842 \unvbox\@mpfootins
11843 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11844 \def\baselinestretch{\m@m@footnote@spacing}%
11845 \reset@font%
11846 \foottextfont \hsize\columnwidth \@parboxrestore
11847 \protected@edef\@currentlabel{%
11848 \csname p@mpfootnote\endcsname\@thefnmark}%
11849 \color@begingroup
11850 \@normalfootfmt{#1}%
11851 \color@endgroup}}
11852 \renewcommand{\@mpLTRfootnotetext}[1]{%
11853 \global\setbox\@mpfootins\vbox{%
11854 \unvbox\@mpfootins
11855 \@RTLfalse
11856 \def\baselinestretch{\m@m@footnote@spacing}%
11857 \reset@font%
11858 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11859 \protected@edef\@currentlabel{%
11860 \csname p@mpfootnote\endcsname\@thefnmark}%
11861 \color@begingroup
11862 \@normalLTRfootfmt{#1}%
11863 \color@endgroup}}
11864 \renewcommand{\@mpRTLfootnotetext}[1]{%
11865 \global\setbox\@mpfootins\vbox{%
11866 \unvbox\@mpfootins
11867 \@RTLtrue
11868 \def\baselinestretch{\m@m@footnote@spacing}%
11869 \reset@font%
11870 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11871 \protected@edef\@currentlabel{%
11872 \csname p@mpfootnote\endcsname\@thefnmark}%
11873 \color@begingroup
11874 \@normalRTLfootfmt{#1}%
11875 \color@endgroup}}
11876 \let\m@mold@footnotetext\@footnotetext
11877 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11878 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11879 \let\m@mold@mpfootnotetext\@mpfootnotetext
11880 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11881 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11882 \bidi@ensure@newcommand{\normalfootnotes}{%
11883 \@bidi@before@Hy@hyperfootnotes
11884 \let\@footnotetext\m@mold@footnotetext
11885 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11886 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11887 \let\@mpfootnotetext\m@mold@mpfootnotetext
11888 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11889 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11890 \@bidi@after@Hy@hyperfootnotes
11891 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11892 }

```



```

11893 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11894 \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
11895   \def\m@m@singlespace{#1}%
11896   \def\m@m@footnote@spacing{#1}%
11897   \def\m@m@float@spacing{#1} %
11898 }
11899 \setSingleSpace{1}
11900 \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
11901 \bidi@ensure@newcommand*{\m@m@mmf@prepare}{%
11902   \kern-\multiplefootnotemarker
11903   \kern\multiplefootnotemarker\relax}
11904 \bidi@ensure@newlength{\footmarkwidth}
11905 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
11906 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11907 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11908 \bidi@ensure@newcommand{\footfootmark}{%
11909   \ifdim\footmarkwidth < \z@
11910     \llap{\hb@xt@ -\footmarkwidth{%
11911       \hss\normalfont\footscript{\@thefnmark}}}%
11912     \hspace*{-\footmarkwidth}}%
11913   \else
11914     \ifdim\footmarkwidth = \z@
11915       {\normalfont\footscript{\@thefnmark}}%
11916     \else
11917       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11918     \fi
11919   \fi}
11920 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11921   \ifdim\footmarkwidth < \z@
11922     \llap{\hb@xt@ -\footmarkwidth{%
11923       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11924     \hspace*{-\footmarkwidth}}%
11925   \else
11926     \ifdim\footmarkwidth = \z@
11927       {\normalfont\LTRfootscript{\@thefnmark}}%
11928     \else
11929       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11930     \fi
11931   \fi}
11932 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11933   \ifdim\footmarkwidth < \z@
11934     \llap{\hb@xt@ -\footmarkwidth{%
11935       \hss\normalfont\RTLfootscript{\@thefnmark}}}%
11936     \hspace*{-\footmarkwidth}}%
11937   \else
11938     \ifdim\footmarkwidth = \z@
11939       {\normalfont\RTLfootscript{\@thefnmark}}%
11940     \else
11941       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11942     \fi
11943   \fi}
11944 \footmarkstyle{\textsuperscript{#1}}
11945 \LTRfootmarkstyle{\textsuperscript{#1}}
11946 \RTLfootmarkstyle{\textsuperscript{#1}}

```



```

11947 \newcommand*{\bidi@normal@footmarkwidth}{%
11948   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11949 }
11950 \newcommand*{\bidi@star@footmarkwidth}{%
11951   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11952 }
11953 \bidi@normal@footmarkwidth
11954 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11955 \bidi@ensure@newcommand*{\extrafeetins}{%
11956   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11957   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11958   \bidi@joinfootnotes\@bidi@copyins@{\unvbox\@bidi@copyins@}%
11959   \extrafeetinshook}
11960 \bidi@ensure@newcommand{\extrafeetinshook}{}
11961 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11962 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11963 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11964 \bidi@ensure@newlength{\footinsdim}
11965   \setlength{\footinsdim}{8in} % standard for \dimen\footins
11966 \bidi@ensure@newcommand{\@preamfntext}{%
11967   \interlinepenalty\interfootnotelinepenalty
11968   \floatingpenalty \@MM
11969   \splittopskip=\footnotesep
11970   \splitmaxdepth=\dp\strutbox
11971   \@parboxrestore}
11972 \def\bidi@ifmulticol#1#2{\@tempwafalse
11973   \ifnum\col@number>\@ne
11974     \ifnum\count\footins>1999 \@tempwattrue \fi
11975     \fi
11976     \if@tempswa #1\else #2\fi
11977 }
11978 \def\bidi@joinfootnotes#1#2#3{%
11979   \ifvoid#1
11980     \else
11981       \@tempskipa\skip#1%
11982       \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
11983       \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11984       \bidi@removexfootskip
11985       \ifvoid\footins
11986         \global\setbox\footins\vbox{#2#3}%
11987       \else
11988         \global\setbox\footins\vbox{%
11989           \unvbox\footins
11990           \bidi@footskip
11991           #2#3%
11992         }%
11993       \fi
11994     \fi
11995 }
11996 \def\bidi@joinmpfootnotes#1#2#3{%
11997   \ifvoid#1
11998     \else
11999       \@tempskipa\skip#1%
12000       \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%

```





```

12001 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12002 \bidi@removexfootskip
12003 \ifvoid\@mpfootins
12004 \global\setbox\@mpfootins\vbox{#2#3}%
12005 \else
12006 \global\setbox\@mpfootins\vbox{%
12007 \unvbox\@mpfootins
12008 \bidi@footskip
12009 #2#3%
12010 }%
12011 \fi
12012 \fi
12013 }
12014 \bidi@ensure@newcommand{\m@mndoextrafeetmini}{\%
12015 \extrafeetminihook}
12016 \bidi@ensure@newcommand{\extrafeetendmini}{\%
12017 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12018 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12019 \extrafeetendminihook}
12020 \bidi@ensure@newcommand{\extrafeetendminihook}{\}
12021 \bidi@ensure@newcommand{\m@mndoextrafeetendmini}{\extrafeetendmini}
12022 \def\endminipage{%
12023 \par
12024 \unskip
12025 \m@mndoextrafeetendmini
12026 \ifvoid\@mpfootins
12027 \else
12028 \vskip\skip\@mpfootins
12029 \normalcolor
12030 \footnoterule
12031 \unvbox\@mpfootins
12032 \fi
12033 \@minipagefalse
12034 \color@endgroup
12035 \egroup
12036 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12037 \bidi@ensure@newcommand{\m@make@footstart}[1]{\%
12038 \@namedef{\footstart#1}{\%
12039 \leftskip=\z@
12040 \rightskip=\z@
12041 \parindent=\z@
12042 }%
12043 }
12044 \newinsert\footinsv@r
12045 \skip\footinsv@r\skip\footins
12046 \count\footinsv@r=1000 % no magnification
12047 \dimen\footinsv@r=\footinsdim
12048 \m@make@footstart{v@r}
12049 \newinsert\footinsv@l
12050 \skip\footinsv@l\skip\footins
12051 \count\footinsv@l=1000 % no magnification
12052 \dimen\footinsv@l=\footinsdim
12053 \m@make@footstart{v@l}
12054 \bidi@ensure@newcommand{\@footgroupv@r}{\}

```



```

12055 \newinsert\@mpfootinsv@r
12056 \skip\@mpfootinsv@r\skip\@mpfootins
12057 \newinsert\@mpfootinsv@l
12058 \skip\@mpfootinsv@l\skip\@mpfootins
12059 \bidi@ensure@newcommand{\mp@footgroupv@r}{%
12060 \newcount\m@m@k \newdimen\m@m@h
12061 \bidi@ensure@newcommand*{\m@r@rigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12062 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12063 \valign{##\vfill\cr\m@mdosplits}\endR}}
12064 \newcommand*{\bidi@LTR@rigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12065 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12066 \valign{##\vfill\cr\m@mdosplits}\endL}}
12067 \bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
12068 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
12069 \bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
12070 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12071 \setbox2 \vsplit0 to \dimen0
12072 \unvbox2 }
12073 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12074 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12075 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12076 \@bidi@before@Hy@hyperfootnotes
12077 \let\@footnotetext\@twocolfootnotetext
12078 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12079 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12080 \dimen\footinsv@r=2\footinsdim
12081 \count\footinsv@r=500\relax
12082 \m@make@twocol@footgroup{v@r}%
12083 \let\@footgroupv@r\@twocol@footgroupv@r
12084 \dimen\footinsv@l=2\footinsdim
12085 \count\footinsv@l=500\relax
12086 \bidi@make@twocol@LTRfootgroup{v@l}%
12087 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12088 \let\@mpfootnotetext\@mptwocolfootnotetext
12089 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12090 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12091 \@bidi@after@Hy@hyperfootnotes
12092 \m@make@mptwocol@footgroup{v@r}%
12093 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12094 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12095 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12096 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12097 }
12098 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12099 \if@RTL@footnote
12100 \footinsv@r
12101 \else
12102 \footinsv@l
12103 \fi
12104 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12105 \def\baselinestretch{\m@m@footnote@spacing}%
12106 \reset@font\foottextfont
12107 \@preamfntext
12108 \protected@edef\@currentlabel{%

```



```

12109 \csname p@footnote\endcsname\@thefnmark}%
12110 \color@begingroup
12111 \@twocolfootfmt{#1}%
12112 \color@endgroup}%
12113 \m@mmf@prepare}
12114 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12115 \def\baselinestretch{\m@m@footnote@spacing}%
12116 \reset@font\LTRfoottextfont
12117 \@preamfntext
12118 \protected@edef\@currentlabel{%
12119 \csname p@footnote\endcsname\@thefnmark}%
12120 \color@begingroup
12121 \@twocolLTRfootfmt{#1}%
12122 \color@endgroup}%
12123 \m@mmf@prepare}
12124 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12125 \def\baselinestretch{\m@m@footnote@spacing}%
12126 \reset@font\RTLfoottextfont
12127 \@preamfntext
12128 \protected@edef\@currentlabel{%
12129 \csname p@footnote\endcsname\@thefnmark}%
12130 \color@begingroup
12131 \@twocolRTLfootfmt{#1}%
12132 \color@endgroup}%
12133 \m@mmf@prepare}
12134 \bidi@ensure@newcommand{\@preamtwofmt}{%
12135 \hsize .45\hsize
12136 \parindent=\z@
12137 \tolerance=5000\relax
12138 \leavevmode}
12139 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12140 \@preamtwofmt
12141 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12142 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12143 \@preamtwofmt
12144 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12145 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12146 \@preamtwofmt
12147 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12148 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12149 \global\setbox
12150 \if@RTL@footnote
12151 \@mpfootinsv@r
12152 \else
12153 \@mpfootinsv@l
12154 \fi
12155 \vbox{%
12156 \unvbox
12157 \if@RTL@footnote
12158 \@mpfootinsv@r
12159 \else
12160 \@mpfootinsv@l
12161 \fi
12162 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```



```

12163 \def\baselinestretch{\m@m@footnote@spacing}%
12164 \reset@font\foottextfont
12165 \hsize\columnwidth \@parboxrestore
12166 \protected@edef\@currentlabel{%
12167 \csname p@mpfootnote\endcsname\@thefnmark}%
12168 \color@begingroup
12169 \@twocolfootfmt{#1}%
12170 \color@endgroup}%
12171 \m@mmf@prepare}
12172 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12173 \global\setbox\@mpfootinsv@l\vbox{%
12174 \unvbox\@mpfootinsv@l
12175 \@RTLfalse
12176 \def\baselinestretch{\m@m@footnote@spacing}%
12177 \reset@font\LTRfoottextfont
12178 \hsize\columnwidth \@parboxrestore
12179 \protected@edef\@currentlabel{%
12180 \csname p@mpfootnote\endcsname\@thefnmark}%
12181 \color@begingroup
12182 \@twocolLTRfootfmt{#1}%
12183 \color@endgroup}%
12184 \m@mmf@prepare}
12185 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12186 \global\setbox\@mpfootinsv@r\vbox{%
12187 \unvbox\@mpfootinsv@r
12188 \@RTLtrue
12189 \def\baselinestretch{\m@m@footnote@spacing}%
12190 \reset@font\RTLfoottextfont
12191 \hsize\columnwidth \@parboxrestore
12192 \protected@edef\@currentlabel{%
12193 \csname p@mpfootnote\endcsname\@thefnmark}%
12194 \color@begingroup
12195 \@twocolRTLfootfmt{#1}%
12196 \color@endgroup}%
12197 \m@mmf@prepare}
12198 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12199 \@namedef{@twocol@footgroup#1}{%
12200 \def\baselinestretch{\m@m@footnote@spacing}%
12201 \hsize\bidi@columnwidth
12202 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12203 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12204 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12205 \@namedef{@twocol@LTRfootgroup#1}{%
12206 \def\baselinestretch{\m@m@footnote@spacing}%
12207 \hsize\bidi@columnwidth
12208 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12209 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12210 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12211 \@namedef{@mptwocol@footgroup#1}{%
12212 \def\baselinestretch{\m@m@footnote@spacing}%
12213 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12214 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12215 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12216 \@namedef{@mptwocol@LTRfootgroup#1}{%

```



```

12217 \def\baselinestretch{\m@m@footnote@spacing}%
12218 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12219 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}}}
12220 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12221 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12222 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12223 \@bidi@before@Hy@hyperfootnotes
12224 \let\@footnotetext\@threecolfootnotetext
12225 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12226 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12227 \dimen\footinsv@r=3\footinsdim
12228 \count\footinsv@r=333\relax
12229 \m@make@threecol@footgroup{v@r}%
12230 \let\@footgroupv@r\@threecol@footgroupv@r
12231 \dimen\footinsv@l=3\footinsdim
12232 \count\footinsv@l=333\relax
12233 \bidi@make@threecol@LTRfootgroup{v@l}%
12234 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12235 \let\@mpfootnotetext\@mpthreecolfootnotetext
12236 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12237 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12238 \@bidi@after@Hy@hyperfootnotes
12239 \m@make@mpthreecol@footgroup{v@r}%
12240 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12241 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12242 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12243 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12244 }
12245 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12246 \if@RTL@footnote
12247 \footinsv@r
12248 \else
12249 \footinsv@l
12250 \fi
12251 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12252 \def\baselinestretch{\m@m@footnote@spacing}%
12253 \reset@font\foottextfont
12254 \@preamfntext
12255 \protected@edef\@currentlabel{%
12256 \csname p@footnote\endcsname\@thefnmark}%
12257 \color@begingroup
12258 \@threecolfootfmt{#1}%
12259 \color@endgroup}\m@m@mmf@prepare}
12260 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12261 \def\baselinestretch{\m@m@footnote@spacing}%
12262 \reset@font\LTRfoottextfont
12263 \@preamfntext
12264 \protected@edef\@currentlabel{%
12265 \csname p@footnote\endcsname\@thefnmark}%
12266 \color@begingroup
12267 \@threecolLTRfootfmt{#1}%
12268 \color@endgroup}\m@m@mmf@prepare}
12269 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12270 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12271 \reset@font\RTLfoottextfont
12272 \@preamfntext
12273 \protected@edef\@currentlabel{%
12274   \csname p@footnote\endcsname\@thefnmark}%
12275 \color@begingroup
12276   \@threecolRTLfootfmt{#1}%
12277 \color@endgroup}\m@mmf@prepare}
12278 \bidi@ensure@newcommand{\@preamthreefmt}{%
12279   \hsize .3\hsize
12280   \parindent=\z@
12281   \tolerance=5000\relax
12282   \leavevmode}
12283 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12284   \@preamthreefmt
12285   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12286 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12287   \@preamthreefmt
12288   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12289 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12290   \@preamthreefmt
12291   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12292 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12293   \global\setbox
12294     \if@RTL@footnote
12295     \@mpfootinsv@r
12296   \else
12297     \@mpfootinsv@l
12298   \fi
12299   \vbox{%
12300     \unvbox
12301     \if@RTL@footnote
12302     \@mpfootinsv@r
12303   \else
12304     \@mpfootinsv@l
12305   \fi
12306   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12307   \def\baselinestretch{\m@mm@footnote@spacing}%
12308   \reset@font\foottextfont
12309   \hsize\columnwidth \@parboxrestore
12310   \protected@edef\@currentlabel{%
12311     \csname p@mpfootnote\endcsname\@thefnmark}%
12312   \color@begingroup
12313     \@threecolfootfmt{#1}%
12314   \color@endgroup}\m@mmf@prepare}
12315 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12316   \global\setbox\@mpfootinsv@l\vbox{%
12317     \unvbox\@mpfootinsv@l
12318     \@RTLfalse
12319     \def\baselinestretch{\m@mm@footnote@spacing}%
12320     \reset@font\LTRfoottextfont
12321     \hsize\columnwidth \@parboxrestore
12322     \protected@edef\@currentlabel{%
12323       \csname p@mpfootnote\endcsname\@thefnmark}%
12324     \color@begingroup

```



```

12325 \@threecolLTRfootfmt{#1}%
12326 \color@endgroup}\m@mmf@prepare}
12327 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12328 \global\setbox\@mpfootinsv@r\vbox{%
12329 \unvbox\@mpfootinsv@r
12330 \@RTLtrue
12331 \def\baselinestretch{\m@m@footnote@spacing}%
12332 \reset@font\RTLfoottextfont
12333 \hsize\columnwidth \@parboxrestore
12334 \protected@edef\@currentlabel{%
12335 \csname p@mpfootnote\endcsname\@thefnmark}%
12336 \color@begingroup
12337 \@threecolRTLfootfmt{#1}%
12338 \color@endgroup}\m@mmf@prepare}
12339 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12340 \@namedef{\@threecol@footgroup#1}{%
12341 \def\baselinestretch{\m@m@footnote@spacing}%
12342 \hsize\bidi@columnwidth
12343 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12344 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12345 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12346 \@namedef{\@threecol@LTRfootgroup#1}{%
12347 \def\baselinestretch{\m@m@footnote@spacing}%
12348 \hsize\bidi@columnwidth
12349 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12350 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12351 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12352 \@namedef{\@mpthreecol@footgroup#1}{%
12353 \def\baselinestretch{\m@m@footnote@spacing}%
12354 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12355 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{\thr@@}{\splittopskip}}}}
12356 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12357 \@namedef{\@mpthreecol@LTRfootgroup#1}{%
12358 \def\baselinestretch{\m@m@footnote@spacing}%
12359 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12360 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{\thr@@}{\splittopskip}}}}
12361 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12362 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12363 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12364 \@bidi@before@Hy@hyperfootnotes
12365 \let\@footnotetext\@fourcolfootnotetext
12366 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12367 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12368 \dimen\footinsv@r=4\footinsdim
12369 \count\footinsv@r=250\relax
12370 \m@make@fourcol@footgroup{v@r}%
12371 \let\@footgroupv@r\@fourcol@footgroupv@r
12372 \dimen\footinsv@l=4\footinsdim
12373 \count\footinsv@l=250\relax
12374 \bidi@make@fourcol@LTRfootgroup{v@l}%
12375 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12376 \let\@mpfootnotetext\@mpfourcolfootnotetext
12377 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12378 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext

```



```

12379 \@bidi@after@Hy@hyperfootnotes
12380 \m@make@mpfourcol@footgroup{v@r}%
12381 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12382 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12383 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12384 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12385 }
12386 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12387 \if@RTL@footnote
12388 \footinsv@r
12389 \else
12390 \footinsv@l
12391 \fi
12392 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12393 \def\baselinestretch{\m@m@footnote@spacing}%
12394 \reset@font\foottextfont
12395 \@preamfntext
12396 \protected@edef\@currentlabel{%
12397 \csname p@footnote\endcsname\@thefnmark}%
12398 \color@begingroup
12399 \@fourcolfootfmt{#1}%
12400 \color@endgroup}%
12401 \m@mmf@prepare}
12402 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12403 \def\baselinestretch{\m@m@footnote@spacing}%
12404 \reset@font\LTRfoottextfont
12405 \@preamfntext
12406 \protected@edef\@currentlabel{%
12407 \csname p@footnote\endcsname\@thefnmark}%
12408 \color@begingroup
12409 \@fourcolLTRfootfmt{#1}%
12410 \color@endgroup}%
12411 \m@mmf@prepare}
12412 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12413 \def\baselinestretch{\m@m@footnote@spacing}%
12414 \reset@font\RTLfoottextfont
12415 \@preamfntext
12416 \protected@edef\@currentlabel{%
12417 \csname p@footnote\endcsname\@thefnmark}%
12418 \color@begingroup
12419 \@fourcolRTLfootfmt{#1}%
12420 \color@endgroup}%
12421 \m@mmf@prepare}
12422 \bidi@ensure@newcommand{\@preamfourfmt}{%
12423 \hsize .25\hsize
12424 \parindent=\z@
12425 \tolerance=5000\relax
12426 \leavevmode}
12427 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12428 \@preamfourfmt
12429 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12430 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12431 \@preamfourfmt
12432 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}

```





```

12433 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12434   \@preamfourfmt
12435   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12436 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12437   \global\setbox
12438     \if@RTL@footnote
12439     \@mpfootinsv@r
12440   \else
12441     \@mpfootinsv@l
12442   \fi
12443   \vbox{%
12444     \unvbox
12445     \if@RTL@footnote
12446     \@mpfootinsv@r
12447   \else
12448     \@mpfootinsv@l
12449   \fi
12450   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12451   \def\baselinestretch{\m@m@footnote@spacing}%
12452   \reset@font\foottextfont
12453   \hsize\columnwidth \@parboxrestore
12454   \protected@edef\@currentlabel{%
12455     \csname p@mpfootnote\endcsname\@thefnmark}%
12456   \color@begingroup
12457     \@fourcolfootfmt{#1}%
12458   \color@endgroup}%
12459   \m@mmf@prepare}
12460 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12461   \global\setbox\@mpfootinsv@l\vbox{%
12462     \unvbox\@mpfootinsv@l
12463     \@RTLfalse
12464     \def\baselinestretch{\m@m@footnote@spacing}%
12465     \reset@font\LTRfoottextfont
12466     \hsize\columnwidth \@parboxrestore
12467     \protected@edef\@currentlabel{%
12468       \csname p@mpfootnote\endcsname\@thefnmark}%
12469     \color@begingroup
12470       \@fourcolLTRfootfmt{#1}%
12471     \color@endgroup}%
12472     \m@mmf@prepare}
12473 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12474   \global\setbox\@mpfootinsv@r\vbox{%
12475     \unvbox\@mpfootinsv@r
12476     \@RTLtrue
12477     \def\baselinestretch{\m@m@footnote@spacing}%
12478     \reset@font\RTLfoottextfont
12479     \hsize\columnwidth \@parboxrestore
12480     \protected@edef\@currentlabel{%
12481       \csname p@mpfootnote\endcsname\@thefnmark}%
12482     \color@begingroup
12483       \@fourcolRTLfootfmt{#1}%
12484     \color@endgroup}%
12485     \m@mmf@prepare}
12486 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%

```



```

12487 \@namedef{@fourcol@footgroup#1}{%
12488 \def\baselinestretch{\m@m@footnote@spacing}%
12489 \hsize\bi@columnwidth
12490 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12491 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}
12492 \newcommand{\bi@make@fourcol@LTRfootgroup}[1]{%
12493 \@namedef{@fourcol@LTRfootgroup#1}{%
12494 \def\baselinestretch{\m@m@footnote@spacing}%
12495 \hsize\bi@columnwidth
12496 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12497 \bi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}
12498 \bi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
12499 \@namedef{@mpfourcol@footgroup#1}{%
12500 \def\baselinestretch{\m@m@footnote@spacing}%
12501 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12502 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}
12503 \newcommand{\bi@make@mpfourcol@LTRfootgroup}[1]{%
12504 \@namedef{@mpfourcol@LTRfootgroup#1}{%
12505 \def\baselinestretch{\m@m@footnote@spacing}%
12506 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12507 \bi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}
12508 \bi@ensure@newcommand{\fivecolumnfootnotes}{%
12509 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12510 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12511 \@bidi@before@Hy@hyperfootnotes
12512 \let\@footnotetext\@fivecolfootnotetext
12513 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
12514 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
12515 \dimen\footinsv@r=5\footinsdim
12516 \count\footinsv@r=200\relax
12517 \m@make@fivecol@footgroup{v@r}%
12518 \let\@footgroupv@r\@fivecol@footgroupv@r
12519 \dimen\footinsv@l=5\footinsdim
12520 \count\footinsv@l=200\relax
12521 \bi@make@fivecol@LTRfootgroup{v@l}%
12522 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
12523 \let\@mpfootnotetext\@mpfivecolfootnotetext
12524 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
12525 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
12526 \@bidi@after@Hy@hyperfootnotes
12527 \m@make@mpfivecol@footgroup{v@r}%
12528 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
12529 \bi@make@mpfivecol@LTRfootgroup{v@l}%
12530 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
12531 \@ifstar\bi@star@footmarkwidth\bi@normal@footmarkwidth
12532 }
12533 \bi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
12534 \if@RTL@footnote
12535 \footinsv@r
12536 \else
12537 \footinsv@l
12538 \fi
12539 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12540 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12541 \reset@font\foottextfont
12542 \@preamfntext
12543 \protected@edef\@currentlabel{%
12544   \csname p@footnote\endcsname\@thefnmark}%
12545 \color@begingroup
12546   \@fivecolfootfmt{#1}%
12547 \color@endgroup}%
12548 \m@mmf@prepare}
12549 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12550   \def\baselinestretch{\m@m@footnote@spacing}%
12551   \reset@font\LTRfoottextfont
12552   \@preamfntext
12553   \protected@edef\@currentlabel{%
12554     \csname p@footnote\endcsname\@thefnmark}%
12555   \color@begingroup
12556     \@fivecolLTRfootfmt{#1}%
12557   \color@endgroup}%
12558   \m@mmf@prepare}
12559 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12560   \def\baselinestretch{\m@m@footnote@spacing}%
12561   \reset@font\RTLfoottextfont
12562   \@preamfntext
12563   \protected@edef\@currentlabel{%
12564     \csname p@footnote\endcsname\@thefnmark}%
12565   \color@begingroup
12566     \@fivecolRTLfootfmt{#1}%
12567   \color@endgroup}%
12568   \m@mmf@prepare}
12569 \bidi@ensure@newcommand{\@preamfivefmt}{%
12570   \hsize .2\hsize
12571   \parindent=\z@
12572   \tolerance=5000\relax
12573   \leavevmode}
12574 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
12575   \@preamfivefmt
12576   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12577 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
12578   \@preamfivefmt
12579   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12580 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
12581   \@preamfivefmt
12582   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12583 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
12584   \global\setbox
12585     \if@RTL@footnote
12586     \@mpfootinsv@r
12587   \else
12588     \@mpfootinsv@l
12589   \fi
12590   \vbox{%
12591     \unvbox
12592     \if@RTL@footnote
12593     \@mpfootinsv@r
12594   \else

```



```

12595 \mpfootinsv@l
12596 \fi
12597 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12598 \def\baselinestretch{\m@m@footnote@spacing}%
12599 \reset@font\foottextfont
12600 \hsize\columnwidth \@parboxrestore
12601 \protected@edef\@currentlabel{%
12602 \csname p@mpfootnote\endcsname\@thefnmark}%
12603 \color@begingroup
12604 \@fivecolfootfmt{#1}%
12605 \color@endgroup}%
12606 \m@mmf@prepare}
12607 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
12608 \global\setbox\@mpfootinsv@l\vbox{%
12609 \unvbox\@mpfootinsv@l
12610 \@RTLfalse
12611 \def\baselinestretch{\m@m@footnote@spacing}%
12612 \reset@font\LTRfoottextfont
12613 \hsize\columnwidth \@parboxrestore
12614 \protected@edef\@currentlabel{%
12615 \csname p@mpfootnote\endcsname\@thefnmark}%
12616 \color@begingroup
12617 \@fivecolLTRfootfmt{#1}%
12618 \color@endgroup}%
12619 \m@mmf@prepare}
12620 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
12621 \global\setbox\@mpfootinsv@r\vbox{%
12622 \unvbox\@mpfootinsv@r
12623 \@RTLtrue
12624 \def\baselinestretch{\m@m@footnote@spacing}%
12625 \reset@font\RTLfoottextfont
12626 \hsize\columnwidth \@parboxrestore
12627 \protected@edef\@currentlabel{%
12628 \csname p@mpfootnote\endcsname\@thefnmark}%
12629 \color@begingroup
12630 \@fivecolRTLfootfmt{#1}%
12631 \color@endgroup}%
12632 \m@mmf@prepare}
12633 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
12634 \@namedef{@fivecol@footgroup#1}{%
12635 \def\baselinestretch{\m@m@footnote@spacing}%
12636 \hsize\bidi@columnwidth
12637 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12638 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
12639 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
12640 \@namedef{@fivecol@LTRfootgroup#1}{%
12641 \def\baselinestretch{\m@m@footnote@spacing}%
12642 \hsize\bidi@columnwidth
12643 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12644 \bidi@LTRigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
12645 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
12646 \@namedef{@mpfivecol@footgroup#1}{%
12647 \def\baselinestretch{\m@m@footnote@spacing}%
12648 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

12649 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
12650 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
12651 \@namedef{@mpfivecol@LTRfootgroup#1}{%
12652 \def\baselinestretch{\m@m@footnote@spacing}%
12653 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12654 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
12655 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
12656 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12657 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12658 \@bidi@before@Hy@hyperfootnotes
12659 \let\@footnotetext\@sixcolfootnotetext
12660 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
12661 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
12662 \dimen\footinsv@r=6\footinsdim
12663 \count\footinsv@r=166\relax
12664 \m@make@sixcol@footgroup{v@r}%
12665 \let\@footgroupv@r\@sixcol@footgroupv@r
12666 \dimen\footinsv@l=6\footinsdim
12667 \count\footinsv@l=166\relax
12668 \bidi@make@sixcol@LTRfootgroup{v@l}%
12669 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
12670 \let\@mpfootnotetext\@mpsixcolfootnotetext
12671 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
12672 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
12673 \@bidi@after@Hy@hyperfootnotes
12674 \m@make@mpsixcol@footgroup{v@r}%
12675 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
12676 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
12677 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
12678 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12679 }
12680 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
12681 \if@RTL@footnote
12682 \footinsv@r
12683 \else
12684 \footinsv@l
12685 \fi
12686 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12687 \def\baselinestretch{\m@m@footnote@spacing}%
12688 \reset@font\foottextfont
12689 \@preamfntext
12690 \protected@edef\@currentlabel{%
12691 \csname p@footnote\endcsname\@thefnmark}%
12692 \color@begingroup
12693 \@sixcolfootfmt{#1}%
12694 \color@endgroup}%
12695 \m@m@prepare}
12696 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12697 \def\baselinestretch{\m@m@footnote@spacing}%
12698 \reset@font\LTRfoottextfont
12699 \@preamfntext
12700 \protected@edef\@currentlabel{%
12701 \csname p@footnote\endcsname\@thefnmark}%
12702 \color@begingroup

```



```

12703 \sixcolLTRfootfmt{#1}%
12704 \color@endgroup}%
12705 \m@mmf@prepare}
12706 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12707 \def\baselinestretch{\m@m@footnote@spacing}%
12708 \reset@font\RTLfoottextfont
12709 \@preamfntext
12710 \protected@edef\@currentlabel{%
12711 \csname p@footnote\endcsname\@thefnmark}%
12712 \color@begingroup
12713 \sixcolRTLfootfmt{#1}%
12714 \color@endgroup}%
12715 \m@mmf@prepare}
12716 \bidi@ensure@newcommand{\@preamsixfmt}{%
12717 \hspace{.16\hspace}
12718 \parindent=\z@
12719 \tolerance=5000\relax
12720 \leavevmode}
12721 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
12722 \@preamsixfmt
12723 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12724 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
12725 \@preamsixfmt
12726 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12727 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
12728 \@preamsixfmt
12729 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12730 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
12731 \global\setbox
12732 \if@RTL@footnote
12733 \@mpfootinsv@r
12734 \else
12735 \@mpfootinsv@l
12736 \fi
12737 \vbox{%
12738 \unvbox
12739 \if@RTL@footnote
12740 \@mpfootinsv@r
12741 \else
12742 \@mpfootinsv@l
12743 \fi
12744 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12745 \def\baselinestretch{\m@m@footnote@spacing}%
12746 \reset@font\foottextfont
12747 \hspace\columnwidth \@parboxrestore
12748 \protected@edef\@currentlabel{%
12749 \csname p@mpfootnote\endcsname\@thefnmark}%
12750 \color@begingroup
12751 \sixcolfootfmt{#1}%
12752 \color@endgroup}%
12753 \m@mmf@prepare}
12754 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
12755 \global\setbox\@mpfootinsv@l\vbox{%
12756 \unvbox\@mpfootinsv@l

```



```

12757 \@RTLfalse
12758 \def\baselinestretch{\m@m@footnote@spacing}%
12759 \reset@font\LTRfoottextfont
12760 \hsize\columnwidth \@parboxrestore
12761 \protected@edef\@currentlabel{%
12762   \csname p@mpfootnote\endcsname\@thefnmark}%
12763 \color@begingroup
12764 \@sixcolLTRfootfmt{#1}%
12765 \color@endgroup}%
12766 \m@mmf@prepare}
12767 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
12768   \global\setbox\@mpfootinsv@r\vbox{%
12769     \unvbox\@mpfootinsv@r
12770     \@RTLtrue
12771     \def\baselinestretch{\m@m@footnote@spacing}%
12772     \reset@font\RTLfoottextfont
12773     \hsize\columnwidth \@parboxrestore
12774     \protected@edef\@currentlabel{%
12775       \csname p@mpfootnote\endcsname\@thefnmark}%
12776     \color@begingroup
12777     \@sixcolRTLfootfmt{#1}%
12778     \color@endgroup}%
12779     \m@mmf@prepare}
12780 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
12781   \@namedef{@sixcol@footgroup#1}{%
12782     \def\baselinestretch{\m@m@footnote@spacing}%
12783     \hsize\bidi@columnwidth
12784     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12785     \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12786 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
12787   \@namedef{@sixcol@LTRfootgroup#1}{%
12788     \def\baselinestretch{\m@m@footnote@spacing}%
12789     \hsize\bidi@columnwidth
12790     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12791     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12792 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
12793   \@namedef{@mpsixcol@footgroup#1}{%
12794     \def\baselinestretch{\m@m@footnote@spacing}%
12795     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12796     \m@mrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}%
12797 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
12798   \@namedef{@mpsixcol@LTRfootgroup#1}{%
12799     \def\baselinestretch{\m@m@footnote@spacing}%
12800     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12801     \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}%
12802 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
12803   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12804   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12805   \@bidi@before@Hy@hyperfootnotes
12806   \let\@footnotetext\@sevendcolfootnotetext
12807   \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
12808   \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
12809   \dimen\footinsv@r=7\footinsdim
12810   \count\footinsv@r=142\relax

```



```

12811 \m@make@sevenscol@footgroup{v@r}%
12812 \let\@footgroupv@r\@sevenscol@footgroupv@r
12813 \dimen\footinsv@l=7\footinsdim
12814 \count\footinsv@l=142\relax
12815 \bidi@make@sevenscol@LTRfootgroup{v@l}%
12816 \let\@LTRfootgroupv@l\@sevenscol@LTRfootgroupv@l
12817 \let\@mpfootnotetext\@mpsevenscolfootnotetext
12818 \let\@mpLTRfootnotetext\@mpsevenscolLTRfootnotetext
12819 \let\@mpRTLfootnotetext\@mpsevenscolRTLfootnotetext
12820 \@bidi@after@Hy@hyperfootnotes
12821 \m@make@mpsevenscol@footgroup{v@r}%
12822 \let\mp@footgroupv@r\@mpsevenscol@footgroupv@r
12823 \bidi@make@mpsevenscol@LTRfootgroup{v@l}%
12824 \let\mp@LTRfootgroupv@l\@mpsevenscol@LTRfootgroupv@l
12825 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12826 }
12827 \bidi@ensure@newcommand{\@sevenscolfootnotetext}[1]{\insert
12828 \if@RTL@footnote
12829 \footinsv@r
12830 \else
12831 \footinsv@l
12832 \fi
12833 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12834 \def\baselinestretch{\m@m@footnote@spacing}%
12835 \reset@font\foottextfont
12836 \@preamfntext
12837 \protected@edef\@currentlabel{%
12838 \csname p@footnote\endcsname\@thefnmark}%
12839 \color@begingroup
12840 \@sevenscolfootfmt{#1}%
12841 \color@endgroup}%
12842 \m@mmf@prepare}
12843 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12844 \def\baselinestretch{\m@m@footnote@spacing}%
12845 \reset@font\LTRfoottextfont
12846 \@preamfntext
12847 \protected@edef\@currentlabel{%
12848 \csname p@footnote\endcsname\@thefnmark}%
12849 \color@begingroup
12850 \@sevenscolLTRfootfmt{#1}%
12851 \color@endgroup}%
12852 \m@mmf@prepare}
12853 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12854 \def\baselinestretch{\m@m@footnote@spacing}%
12855 \reset@font\RTLfoottextfont
12856 \@preamfntext
12857 \protected@edef\@currentlabel{%
12858 \csname p@footnote\endcsname\@thefnmark}%
12859 \color@begingroup
12860 \@sevenscolRTLfootfmt{#1}%
12861 \color@endgroup}%
12862 \m@mmf@prepare}
12863 \bidi@ensure@newcommand{\@preamsevenfmt}{%
12864 \hsize .142\hsize

```





```

12865 \parindent=\z@
12866 \tolerance=5000\relax
12867 \leavevmode}
12868 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
12869 \@preamsevenfmt
12870 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12871 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
12872 \@preamsevenfmt
12873 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12874 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%
12875 \@preamsevenfmt
12876 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12877 \bidi@ensure@newcommand{\@mpsevendcolfootnotetext}[1]{%
12878 \global\setbox
12879 \if@RTL@footnote
12880 \@mpfootinsv@r
12881 \else
12882 \@mpfootinsv@l
12883 \fi
12884 \vbox{%
12885 \unvbox
12886 \if@RTL@footnote
12887 \@mpfootinsv@r
12888 \else
12889 \@mpfootinsv@l
12890 \fi
12891 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12892 \def\baselinestretch{\m@m@footnote@spacing}%
12893 \reset@font\foottextfont
12894 \hsize\columnwidth \@parboxrestore
12895 \protected@edef\@currentlabel{%
12896 \csname p@mpfootnote\endcsname\@thefnmark}%
12897 \color@begingroup
12898 \@sevendcolfootfmt{#1}%
12899 \color@endgroup}%
12900 \m@m@mf@prepare}
12901 \bidi@ensure@newcommand{\@mpsevendcolLTRfootnotetext}[1]{%
12902 \global\setbox\@mpfootinsv@l\vbox{%
12903 \unvbox\@mpfootinsv@l
12904 \@RTLfalse
12905 \def\baselinestretch{\m@m@footnote@spacing}%
12906 \reset@font\LTRfoottextfont
12907 \hsize\columnwidth \@parboxrestore
12908 \protected@edef\@currentlabel{%
12909 \csname p@mpfootnote\endcsname\@thefnmark}%
12910 \color@begingroup
12911 \@sevendcolLTRfootfmt{#1}%
12912 \color@endgroup}%
12913 \m@m@mf@prepare}
12914 \bidi@ensure@newcommand{\@mpsevendcolRTLfootnotetext}[1]{%
12915 \global\setbox\@mpfootinsv@r\vbox{%
12916 \unvbox\@mpfootinsv@r
12917 \@RTLtrue
12918 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12919 \reset@font\RTLfoottextfont
12920 \hsize\columnwidth \@parboxrestore
12921 \protected@edef\@currentlabel{%
12922 \csname p@mpfootnote\endcsname\@thefnmark}%
12923 \color@begingroup
12924 \@sevenscolRTLfootfmt{#1}%
12925 \color@endgroup}%
12926 \m@mmf@prepare}
12927 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
12928 \@namedef{sevenscol@footgroup#1}{%
12929 \def\baselinestretch{\m@footnote@spacing}%
12930 \hsize\bidi@columnwidth
12931 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12932 \m@mrighdbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
12933 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
12934 \@namedef{sevenscol@LTRfootgroup#1}{%
12935 \def\baselinestretch{\m@footnote@spacing}%
12936 \hsize\bidi@columnwidth
12937 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12938 \bidi@LTRrighdbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
12939 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
12940 \@namedef{mpsevenscol@footgroup#1}{%
12941 \def\baselinestretch{\m@footnote@spacing}%
12942 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12943 \m@mrighdbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}%
12944 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
12945 \@namedef{mpsevenscol@LTRfootgroup#1}{%
12946 \def\baselinestretch{\m@footnote@spacing}%
12947 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12948 \bidi@LTRrighdbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}%
12949 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
12950 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12951 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12952 \@bidi@before@Hy@hyperfootnotes
12953 \let\@footnotetext\@eightcolfootnotetext
12954 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
12955 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
12956 \dimen\footinsv@r=8\footinsdim
12957 \count\footinsv@r=125\relax
12958 \m@make@eightcol@footgroup{v@r}%
12959 \let\@footgroupv@r\@eightcol@footgroupv@r
12960 \dimen\footinsv@l=8\footinsdim
12961 \count\footinsv@l=125\relax
12962 \bidi@make@eightcol@LTRfootgroup{v@l}%
12963 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
12964 \let\@mpfootnotetext\@mpeightcolfootnotetext
12965 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
12966 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
12967 \@bidi@after@Hy@hyperfootnotes
12968 \m@make@mpeightcol@footgroup{v@r}%
12969 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
12970 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
12971 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
12972 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

12973 }
12974 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
12975   \if@RTL@footnote
12976     \footinsv@r
12977   \else
12978     \footinsv@l
12979   \fi
12980 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12981   \def\baselinestretch{\m@m@footnote@spacing}%
12982   \reset@font\foottextfont
12983   \@preamfntext
12984   \protected@edef\@currentlabel{%
12985     \csname p@footnote\endcsname\@thefnmark}%
12986   \color@begingroup
12987     \@eightcolfootfmt{#1}%
12988   \color@endgroup}%
12989   \m@m@mmf@prepare}
12990 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12991   \def\baselinestretch{\m@m@footnote@spacing}%
12992   \reset@font\LTRfoottextfont
12993   \@preamfntext
12994   \protected@edef\@currentlabel{%
12995     \csname p@footnote\endcsname\@thefnmark}%
12996   \color@begingroup
12997     \@eightcolLTRfootfmt{#1}%
12998   \color@endgroup}%
12999   \m@m@mmf@prepare}
13000 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13001   \def\baselinestretch{\m@m@footnote@spacing}%
13002   \reset@font\RTLfoottextfont
13003   \@preamfntext
13004   \protected@edef\@currentlabel{%
13005     \csname p@footnote\endcsname\@thefnmark}%
13006   \color@begingroup
13007     \@eightcolRTLfootfmt{#1}%
13008   \color@endgroup}%
13009   \m@m@mmf@prepare}
13010 \bidi@ensure@newcommand{\@preameightfmt}{%
13011   \hsize .125\hsize
13012   \parindent=\z@
13013   \tolerance=5000\relax
13014   \leavevmode}
13015 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
13016   \@preameightfmt
13017   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13018 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
13019   \@preameightfmt
13020   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13021 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
13022   \@preameightfmt
13023   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13024 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
13025   \global\setbox
13026   \if@RTL@footnote

```



```

13027 \mpfootinsv@r
13028 \else
13029 \mpfootinsv@l
13030 \fi
13031 \vbox{%
13032 \unvbox
13033 \if@RTL@footnote
13034 \mpfootinsv@r
13035 \else
13036 \mpfootinsv@l
13037 \fi
13038 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13039 \def\baselinestretch{\m@m@footnote@spacing}%
13040 \reset@font\foottextfont
13041 \hsize\columnwidth \@parboxrestore
13042 \protected@edef\@currentlabel{%
13043 \csname p@mpfootnote\endcsname\@thefnmark}%
13044 \color@begingroup
13045 \@eightcolfootfmt{#1}%
13046 \color@endgroup}%
13047 \m@m@mmf@prepare}
13048 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
13049 \global\setbox\@mpfootinsv@l\vbox{%
13050 \unvbox\@mpfootinsv@l
13051 \@RTLfalse
13052 \def\baselinestretch{\m@m@footnote@spacing}%
13053 \reset@font\LTRfoottextfont
13054 \hsize\columnwidth \@parboxrestore
13055 \protected@edef\@currentlabel{%
13056 \csname p@mpfootnote\endcsname\@thefnmark}%
13057 \color@begingroup
13058 \@eightcolLTRfootfmt{#1}%
13059 \color@endgroup}%
13060 \m@m@mmf@prepare}
13061 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
13062 \global\setbox\@mpfootinsv@r\vbox{%
13063 \unvbox\@mpfootinsv@r
13064 \@RTLtrue
13065 \def\baselinestretch{\m@m@footnote@spacing}%
13066 \reset@font\RTLfoottextfont
13067 \hsize\columnwidth \@parboxrestore
13068 \protected@edef\@currentlabel{%
13069 \csname p@mpfootnote\endcsname\@thefnmark}%
13070 \color@begingroup
13071 \@eightcolRTLfootfmt{#1}%
13072 \color@endgroup}%
13073 \m@m@mmf@prepare}
13074 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
13075 \@namedef{@eightcol@footgroup#1}{%
13076 \def\baselinestretch{\m@m@footnote@spacing}%
13077 \hsize\bidi@columnwidth
13078 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13079 \m@m@rigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}
13080 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%

```



```

13081 \@namedef{@eightcol@LTRfootgroup#1}{%
13082 \def\baselinestretch{\m@m@footnote@spacing}%
13083 \hsize\bi@columnwidth
13084 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13085 \bi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}
13086 \bi@ensure@newcommand{\m@make@mp@eightcol@footgroup}[1]{%
13087 \@namedef{@mp@eightcol@footgroup#1}{%
13088 \def\baselinestretch{\m@m@footnote@spacing}%
13089 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13090 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}
13091 \newcommand{\bi@make@mp@eightcol@LTRfootgroup}[1]{%
13092 \@namedef{@mp@eightcol@LTRfootgroup#1}{%
13093 \def\baselinestretch{\m@m@footnote@spacing}%
13094 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13095 \bi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}
13096 \bi@ensure@newcommand{\ninecolumnfootnotes}{%
13097 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13098 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13099 \@bi@before@Hy@hyperfootnotes
13100 \let\@footnotetext\@ninecolfootnotetext
13101 \let\@LTRfootnotetext\@ninecolLTRfootnotetext
13102 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
13103 \dimen\footinsv@r=9\footinsdim
13104 \count\footinsv@r=111\relax
13105 \m@make@ninecol@footgroup{v@r}%
13106 \let\@footgroupv@r\@ninecol@footgroupv@r
13107 \dimen\footinsv@l=9\footinsdim
13108 \count\footinsv@l=111\relax
13109 \bi@make@ninecol@LTRfootgroup{v@l}%
13110 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
13111 \let\@mpfootnotetext\@mpninecolfootnotetext
13112 \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
13113 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
13114 \@bi@after@Hy@hyperfootnotes
13115 \m@make@mpninecol@footgroup{v@r}%
13116 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
13117 \bi@make@mpninecol@LTRfootgroup{v@l}%
13118 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
13119 \@ifstar\bi@star@footmarkwidth\bi@normal@footmarkwidth
13120 }
13121 \bi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert
13122 \if@RTL@footnote
13123 \footinsv@r
13124 \else
13125 \footinsv@l
13126 \fi
13127 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13128 \def\baselinestretch{\m@m@footnote@spacing}%
13129 \reset@font\foottextfont
13130 \@preamfntext
13131 \protected@edef\@currentlabel{%
13132 \csname p@footnote\endcsname\@thefnmark}%
13133 \color@begingroup
13134 \@ninecolfootfmt{#1}%

```



```

13135 \color@endgroup}%
13136 \m@mmf@prepare}
13137 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13138 \def\baselinestretch{\m@m@footnote@spacing}%
13139 \reset@font\LTRfoottextfont
13140 \@preamfntext
13141 \protected@edef\@currentlabel{%
13142 \csname p@footnote\endcsname\@thefnmark}%
13143 \color@begingroup
13144 \@ninecolLTRfootfmt{#1}%
13145 \color@endgroup}%
13146 \m@mmf@prepare}
13147 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13148 \def\baselinestretch{\m@m@footnote@spacing}%
13149 \reset@font\RTLfoottextfont
13150 \@preamfntext
13151 \protected@edef\@currentlabel{%
13152 \csname p@footnote\endcsname\@thefnmark}%
13153 \color@begingroup
13154 \@ninecolRTLfootfmt{#1}%
13155 \color@endgroup}%
13156 \m@mmf@prepare}
13157 \bidi@ensure@newcommand{\@preamninefmt}{%
13158 \hsize .1\hsize
13159 \parindent=\z@
13160 \tolerance=5000\relax
13161 \leavevmode}
13162 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
13163 \@preamninefmt
13164 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13165 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
13166 \@preamninefmt
13167 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13168 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
13169 \@preamninefmt
13170 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13171 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
13172 \global\setbox
13173 \if@RTL@footnote
13174 \@mpfootinsv@r
13175 \else
13176 \@mpfootinsv@l
13177 \fi
13178 \vbox{%
13179 \unvbox
13180 \if@RTL@footnote
13181 \@mpfootinsv@r
13182 \else
13183 \@mpfootinsv@l
13184 \fi
13185 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13186 \def\baselinestretch{\m@m@footnote@spacing}%
13187 \reset@font\foottextfont
13188 \hsize\columnwidth \@parboxrestore

```



```

13189 \protected@edef\@currentlabel{%
13190 \csname p@mpfootnote\endcsname\@thefnmark}%
13191 \color@begingroup
13192 \@ninecolfootfmt{#1}%
13193 \color@endgroup}%
13194 \m@mmf@prepare}
13195 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
13196 \global\setbox\@mpfootinsv\l\ vbox{%
13197 \unvbox\@mpfootinsv\l
13198 \@RTLfalse
13199 \def\baselinestretch{\m@m@footnote@spacing}%
13200 \reset@font\LTRfoottextfont
13201 \hsize\columnwidth \@parboxrestore
13202 \protected@edef\@currentlabel{%
13203 \csname p@mpfootnote\endcsname\@thefnmark}%
13204 \color@begingroup
13205 \@ninecolLTRfootfmt{#1}%
13206 \color@endgroup}%
13207 \m@mmf@prepare}
13208 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
13209 \global\setbox\@mpfootinsv\@r\ vbox{%
13210 \unvbox\@mpfootinsv\@r
13211 \@RTLtrue
13212 \def\baselinestretch{\m@m@footnote@spacing}%
13213 \reset@font\RTLfoottextfont
13214 \hsize\columnwidth \@parboxrestore
13215 \protected@edef\@currentlabel{%
13216 \csname p@mpfootnote\endcsname\@thefnmark}%
13217 \color@begingroup
13218 \@ninecolRTLfootfmt{#1}%
13219 \color@endgroup}%
13220 \m@mmf@prepare}
13221 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
13222 \@namedef{@ninecol@footgroup#1}{%
13223 \def\baselinestretch{\m@m@footnote@spacing}%
13224 \hsize\bidi@columnwidth
13225 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13226 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
13227 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
13228 \@namedef{@ninecol@LTRfootgroup#1}{%
13229 \def\baselinestretch{\m@m@footnote@spacing}%
13230 \hsize\bidi@columnwidth
13231 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13232 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
13233 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
13234 \@namedef{@mpninecol@footgroup#1}{%
13235 \def\baselinestretch{\m@m@footnote@spacing}%
13236 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13237 \m@mrigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}%
13238 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
13239 \@namedef{@mpninecol@LTRfootgroup#1}{%
13240 \def\baselinestretch{\m@m@footnote@spacing}%
13241 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13242 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}%

```





```

13243 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
13244   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13245   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13246   \@bidi@before@Hy@hyperfootnotes
13247   \let\@footnotetext\@tencolfootnotetext
13248   \let\@LTRfootnotetext\@tencolLTRfootnotetext
13249   \let\@RTLfootnotetext\@tencolRTLfootnotetext
13250   \dimen\footinsv@r=10\footinsdim
13251   \count\footinsv@r=100\relax
13252   \m@make@tencol@footgroup{v@r}%
13253   \let\@footgroupv@r\@tencol@footgroupv@r
13254   \dimen\footinsv@l=10\footinsdim
13255   \count\footinsv@l=100\relax
13256   \bidi@make@tencol@LTRfootgroup{v@l}%
13257   \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
13258   \let\@mpfootnotetext\@mptencolfootnotetext
13259   \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
13260   \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
13261   \@bidi@after@Hy@hyperfootnotes
13262   \m@make@mptencol@footgroup{v@r}%
13263   \let\mp@footgroupv@r\@mptencol@footgroupv@r
13264   \bidi@make@mptencol@LTRfootgroup{v@l}%
13265   \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
13266   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13267 }
13268 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
13269   \if@RTL@footnote
13270     \footinsv@r
13271   \else
13272     \footinsv@l
13273   \fi
13274 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13275   \def\baselinestretch{\m@m@footnote@spacing}%
13276   \reset@font\foottextfont
13277   \@preamfntext
13278   \protected@edef\@currentlabel{%
13279     \csname p@footnote\endcsname\@thefnmark}%
13280   \color@begingroup
13281     \@tencolfootfmt{#1}%
13282   \color@endgroup}%
13283   \m@mmf@prepare}
13284 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13285   \def\baselinestretch{\m@m@footnote@spacing}%
13286   \reset@font\LTRfoottextfont
13287   \@preamfntext
13288   \protected@edef\@currentlabel{%
13289     \csname p@footnote\endcsname\@thefnmark}%
13290   \color@begingroup
13291     \@tencolLTRfootfmt{#1}%
13292   \color@endgroup}%
13293   \m@mmf@prepare}
13294 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13295   \def\baselinestretch{\m@m@footnote@spacing}%
13296   \reset@font\RTLfoottextfont

```





```

13297 \@preamfntext
13298 \protected@edef\@currentlabel{%
13299     \csname p@footnote\endcsname\@thefnmark}%
13300 \color@begingroup
13301     \@tencolRTLfootfmt{#1}%
13302 \color@endgroup}%
13303 \m@mmf@prepare}
13304 \bidi@ensure@newcommand{\@preamtenfmt}{%
13305     \hsize .1\hsize
13306     \parindent=\z@
13307     \tolerance=5000\relax
13308     \leavevmode}
13309 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
13310     \@preamtenfmt
13311     {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13312 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
13313     \@preamtenfmt
13314     {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13315 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
13316     \@preamtenfmt
13317     {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13318 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
13319     \global\setbox
13320         \if@RTL@footnote
13321         \@mpfootinsv@r
13322     \else
13323         \@mpfootinsv@l
13324     \fi
13325     \vbox{%
13326         \unvbox
13327         \if@RTL@footnote
13328         \@mpfootinsv@r
13329     \else
13330         \@mpfootinsv@l
13331     \fi
13332     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13333     \def\baselinestretch{\m@m@footnote@spacing}%
13334     \reset@font\foottextfont
13335     \hsize\columnwidth \@parboxrestore
13336     \protected@edef\@currentlabel{%
13337         \csname p@mpfootnote\endcsname\@thefnmark}%
13338     \color@begingroup
13339         \@tencolfootfmt{#1}%
13340     \color@endgroup}%
13341     \m@mmf@prepare}
13342 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
13343     \global\setbox\@mpfootinsv@l\vbox{%
13344         \unvbox\@mpfootinsv@l
13345         \@RTLfalse
13346         \def\baselinestretch{\m@m@footnote@spacing}%
13347         \reset@font\LTRfoottextfont
13348         \hsize\columnwidth \@parboxrestore
13349         \protected@edef\@currentlabel{%
13350             \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

13351 \color@begingroup
13352 \@tencolLTRfootfmt{#1}%
13353 \color@endgroup}%
13354 \m@mmf@prepare}
13355 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
13356 \global\setbox\@mpfootinsv@r\vbox{%
13357 \unvbox\@mpfootinsv@r
13358 \@RTLtrue
13359 \def\baselinestretch{\m@m@footnote@spacing}%
13360 \reset@font\RTLfoottextfont
13361 \hsize\columnwidth \@parboxrestore
13362 \protected@edef\@currentlabel{%
13363 \csname p@mpfootnote\endcsname\@thefnmark}%
13364 \color@begingroup
13365 \@tencolRTLfootfmt{#1}%
13366 \color@endgroup}%
13367 \m@mmf@prepare}
13368 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
13369 \@namedef{@tencol@footgroup#1}{%
13370 \def\baselinestretch{\m@m@footnote@spacing}%
13371 \hsize\bidi@columnwidth
13372 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13373 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
13374 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
13375 \@namedef{@tencol@LTRfootgroup#1}{%
13376 \def\baselinestretch{\m@m@footnote@spacing}%
13377 \hsize\bidi@columnwidth
13378 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13379 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
13380 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
13381 \@namedef{@mptencol@footgroup#1}{%
13382 \def\baselinestretch{\m@m@footnote@spacing}%
13383 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13384 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
13385 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
13386 \@namedef{@mptencol@LTRfootgroup#1}{%
13387 \def\baselinestretch{\m@m@footnote@spacing}%
13388 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13389 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
13390 \bidi@ensure@newcommand{\m@munvxh}[1]{%
13391 \setbox0=\vbox{\unvbox#1%
13392 \global\setbox1=\lastbox}%
13393 \unhbox1
13394 \unskip
13395 \unskip
13396 \unpenalty
13397 \hskip\m@mipn@skip}
13398 \bidi@ensure@newcommand{\m@mungebox}{%
13399 \setbox0=\hbox{\m@munvxh0}%
13400 \dp0=\z@
13401 \ht0=\footfudgefactor\wd0
13402 \box0
13403 \penalty0}
13404 \newskip\m@mipn@skip

```



```

13405 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
13406   {\foottextfont\global\m@mipn@skip=#1\relax}}
13407 \m@minterparanoteglue{1em plus.3em minus.3em}
13408 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
13409   \setbox0=\hbox{}}%
13410   \loop
13411     \unpenalty
13412     \setbox2=\lastbox
13413     \ifhbox2
13414       \setbox0=\hbox{\box2\unhbox0}
13415     \repeat}
13416 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
13417   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
13418 \newcommand*\AddExtraParaSkip[1]{%
13419   \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
13420 }
13421 \let\bidi@xparaskip\relax
13422 \@onlypreamble\AddExtraParaSkip
13423 \@onlypreamble\bidi@xparaskip
13424 \def\bidi@startparafootskip#1{%
13425   \global\advance\skip#1\bidi@paraskip
13426 }
13427 \@onlypreamble\bidi@startparafootskip
13428 \bidi@ensure@newcommand{\paragraphfootnotes}{%
13429   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13430   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13431   \@bidi@before@Hy@hyperfootnotes
13432   \let\@footnotetext\@parafootnotetext
13433   \let\@LTRfootnotetext\@paraLTRfootnotetext
13434   \let\@RTLfootnotetext\@paraRTLfootnotetext
13435   \dimen\footinsv@r=\footinsdim
13436   \count\footinsv@r=1000\relax
13437   \let\bidi@removexfootskip\bidi@removexparafootskip
13438   \m@make@para@footgroup{v@r}%
13439   \m@make@para@footstart{v@r}%
13440   \let\@footgroupv@r\@para@footgroupv@r
13441   \let\@footstartv@r\@para@footstartv@r
13442   \dimen\footinsv@l=\footinsdim
13443   \count\footinsv@l=1000\relax
13444   \bidi@make@para@LTRfootgroup{v@l}%
13445   \m@make@para@footstart{v@l}%
13446   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13447   \let\@footstartv@l\@para@footstartv@l
13448   \let\@mpfootnotetext\@mpparafootnotetext
13449   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13450   \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
13451   \@bidi@after@Hy@hyperfootnotes
13452   \m@make@mppara@footgroup{v@r}%
13453   \bidi@make@mppara@LTRfootgroup{v@l}%
13454   \let\mp@footgroupv@r\@mppara@footgroupv@r
13455   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
13456   \g@addto@macro\bidi@floathook{%
13457     \begingroup
13458     \foottextfont \@tempdima\normalbaselineskip

```



```

13459     \multiply \@tempdima \@cclvi
13460     \@tempdimb \columnwidth
13461     \divide \@tempdimb \@cclvi
13462     \divide \@tempdima \@tempdimb
13463     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13464 \endgroup
13465 }
13466 \AtBeginDocument{%
13467   \begingroup
13468     \foottextfont
13469     \@tempdima\footnotesep
13470     \advance\@tempdima -\ht\strutbox
13471     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13472     \advance\@tempdima.5\normalbaselineskip
13473     \bidi@xparaskip
13474     \xdef\bidi@paraskip{\the\@tempdima\relax}%
13475   \endgroup
13476   \bidi@startparafootskip\footinsv@r
13477   \bidi@startparafootskip\footinsv@l
13478 }
13479 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13480 }
13481 \newcommand{\normalRTLparaLTRfootnotes}{%
13482   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13483   \@bidi@before@Hy@hyperfootnotes
13484   \if@RTL@footnote
13485     \let\@footnotetext\m@mold@footnotetext
13486   \else
13487     \let\@footnotetext\@parafootnotetext
13488   \fi
13489   \let\@LTRfootnotetext\@paraLTRfootnotetext
13490   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
13491   \dimen\footinsv@l=\footinsdim
13492   \count\footinsv@l=1000\relax
13493   \let\bidi@removexfootskip\bidi@removexparafootskip
13494   \bidi@make@para@LTRfootgroup{v@l}%
13495   \m@make@para@footstart{v@l}%
13496   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13497   \let\@footstartv@l\@para@footstartv@l
13498   \if@RTL@footnote
13499     \let\@mpfootnotetext\m@mold@mpfootnotetext
13500   \else
13501     \let\@mpfootnotetext\@mpparafootnotetext
13502   \fi
13503   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13504   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
13505   \@bidi@after@Hy@hyperfootnotes
13506   \bidi@make@mppara@LTRfootgroup{v@l}%
13507   \let\@mpLTRfootgroupv@l\@mppara@LTRfootgroupv@l
13508   \g@addto@macro\bidi@floathook{%
13509     \begingroup
13510       \LTRfoottextfont \@tempdima\normalbaselineskip
13511       \multiply \@tempdima \@cclvi
13512       \@tempdimb \columnwidth

```



```

13513     \divide \@tempdimb \@cclvi
13514     \divide \@tempdima \@tempdimb
13515     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13516   \endgroup
13517 }
13518 \AtBeginDocument{%
13519   \begingroup
13520     \LTRfoottextfont
13521     \@tempdima\footnotesep
13522     \advance\@tempdima -\ht\strutbox
13523     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13524     \advance\@tempdima.5\normalbaselineskip
13525     \bidi@xparaskip
13526     \xdef\bidi@paraskip{\the\@tempdima\relax}%
13527   \endgroup
13528   \bidi@startparafootskip\footinsv@l
13529 }
13530 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13531 }
13532 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
13533   \if@RTL@footnote
13534     \footinsv@r
13535   \else
13536     \footinsv@l
13537   \fi
13538   {%
13539     \let\bidi@RTL@everypar\@empty%
13540     \def\baselinestretch{\m@m@footnote@spacing}%
13541     \reset@font\foottextfont
13542     \@preamfntext
13543     \protected@edef\@currentlabel{%
13544       \csname p@footnote\endcsname\@thefnmark}%
13545     \setbox0=\vbox{\hsize=\maxdimen
13546       \color@begingroup
13547         \noindent \@parafootfmt{#1}%
13548       \color@endgroup}%
13549     \m@mungebox\m@m@mmf@prepare}
13550 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
13551   \let\bidi@RTL@everypar\@empty%
13552   \def\baselinestretch{\m@m@footnote@spacing}%
13553   \reset@font\LTRfoottextfont
13554   \@preamfntext
13555   \protected@edef\@currentlabel{%
13556     \csname p@footnote\endcsname\@thefnmark}%
13557   \setbox0=\vbox{\hsize=\maxdimen
13558     \color@begingroup
13559       \noindent \@paraLTRfootfmt{#1}%
13560     \color@endgroup}%
13561   \m@mungebox\m@m@mmf@prepare}
13562 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
13563   \let\bidi@RTL@everypar\@empty%
13564   \def\baselinestretch{\m@m@footnote@spacing}%
13565   \reset@font\RTLfoottextfont
13566   \@preamfntext

```



```

13567 \protected@edef\@currentlabel{%
13568 \csname p@footnote\endcsname\@thefnmark}%
13569 \setbox0=\vbox{\hsize=\maxdimen
13570 \color@begingroup
13571 \noindent \@paraRTLfootfmt{#1}%
13572 \color@endgroup}%
13573 \m@mungebox}\m@mmf@prepare}
13574 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
13575 \parindent=\z@
13576 \parfillskip=0pt \@plus 1fil
13577 {\footfootmark\strut {\foottextfont #1}\penalty-10}}
13578 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
13579 \parindent=\z@
13580 \parfillskip=0pt \@plus 1fil
13581 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
13582 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
13583 \parindent=\z@
13584 \parfillskip=0pt \@plus 1fil
13585 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
13586 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
13587 \global\setbox
13588 \if@RTL@footnote
13589 \@mpfootinsv@r
13590 \else
13591 \@mpfootinsv@l
13592 \fi
13593 \vbox{%
13594 \unvbox
13595 \if@RTL@footnote
13596 \@mpfootinsv@r
13597 \else
13598 \@mpfootinsv@l
13599 \fi
13600 \let\bidi@RTL@everypar\@empty
13601 \def\baselinestretch{\m@m@footnote@spacing}%
13602 \reset@font\foottextfont
13603 \hsize\columnwidth \@parboxrestore
13604 \protected@edef\@currentlabel{%
13605 \csname p@mpfootnote\endcsname\@thefnmark}%
13606 \setbox0=\vbox{\hsize=\maxdimen
13607 \color@begingroup
13608 \noindent \@parafootfmt{#1}%
13609 \color@endgroup}%
13610 \m@mungebox}\m@mmf@prepare}
13611 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
13612 \global\setbox\@mpfootinsv@l\vbox{%
13613 \unvbox\@mpfootinsv@l
13614 \let\bidi@RTL@everypar\@empty
13615 \def\baselinestretch{\m@m@footnote@spacing}%
13616 \reset@font\LTRfoottextfont
13617 \hsize\columnwidth \@parboxrestore
13618 \protected@edef\@currentlabel{%
13619 \csname p@mpfootnote\endcsname\@thefnmark}%
13620 \setbox0=\vbox{\hsize=\maxdimen

```



```

13621 \color@begingroup
13622 \noindent \@paraLTRfootfmt{#1}%
13623 \color@endgroup}%
13624 \m@ungebox}\m@mfm@prepare}
13625 \bidi@ensure@newcommand{\m@pparaRTLfootnotetext}[1]{%
13626 \global\setbox\@mpfootinsv\@vbox{%
13627 \unvbox\@mpfootinsv
13628 \let\bidi@RTL@everypar\@empty
13629 \def\baselinestretch{\m@m@footnote@spacing}%
13630 \reset@font\RTLfoottextfont
13631 \hsize\columnwidth \@parboxrestore
13632 \protected@edef\@currentlabel{%
13633 \csname p@mpfootnote\endcsname\@thefnmark}%
13634 \setbox0=\vbox{\hsize=\maxdimen
13635 \color@begingroup
13636 \noindent \@paraRTLfootfmt{#1}%
13637 \color@endgroup}%
13638 \m@ungebox}\m@mfm@prepare}
13639 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
13640 \@namedef{\@para@footgroup#1}{%
13641 \unvbox\@nameuse{footins#1}
13642 \@RTLtrue
13643 \m@mmakehboxofhboxes
13644 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13645 \hsize\bidi@columnwidth
13646 \@parboxrestore
13647 \def\baselinestretch{\m@m@footnote@spacing}%
13648 \@nameuse{foottextfont#1}%
13649 \noindent\unhbox0\par}}
13650 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
13651 \@namedef{\@para@LTRfootgroup#1}{%
13652 \unvbox\@nameuse{footins#1}
13653 \@RTLfalse
13654 \m@mmakehboxofhboxes
13655 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13656 \hsize\bidi@columnwidth
13657 \@parboxrestore
13658 \def\baselinestretch{\m@m@footnote@spacing}%
13659 \@nameuse{foottextfont#1}%
13660 \noindent\unhbox0\par}}
13661 \newcommand{\bidi@removexparafootskip}{%
13662 \advance\@tempskipa -\bidi@paraskip
13663 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
13664 }
13665 \let\bidi@removexfootskip\relax
13666 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
13667 \@namedef{\m@ppara@footgroup#1}{%
13668 \unvbox\@nameuse{\@mpfootins#1}
13669 \@RTLtrue
13670 \m@mmakehboxofhboxes
13671 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13672 \def\baselinestretch{\m@m@footnote@spacing}%
13673 \@nameuse{foottextfont#1}%
13674 \noindent\unhbox0\par}}

```



```

13675 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
13676 \@namedef{@mppara@LTRfootgroup#1}{%
13677   \unvbox\@nameuse{@mpfootins#1}
13678   \@RTLfalse
13679   \m@mmakehboxofhboxes
13680   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13681   \def\baselinestretch{\m@m@footnote@spacing}%
13682   \@nameuse{foottextfont#1}%
13683   \noindent\unhbox0\par}}
13684 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
13685 \@namedef{@para@footstart#1}{%
13686   \leftskip=\z@
13687   \rightskip=\z@
13688   \parindent=\z@
13689   }%
13690 }
13691 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
13692   \xdef\@freelist{\@freelist\@midlist}%
13693   \global\let\@midlist\@empty
13694   \@combinefloats}
13695 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
13696   \ifvbox\@kludgeins
13697     \@makespecialcolbox
13698   \else
13699     \setbox\@outputbox \vbox to\@colht{%
13700       \@texttop
13701       \dimen@ \dp\@outputbox
13702       \unvbox \@outputbox
13703       \vskip -\dimen@
13704       \@textbottom}%
13705   \fi}
13706 \bidi@ensure@newcommand*{\m@m@makecolintro}{%}
13707 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
13708   \boxmaxdepth\@maxdepth
13709   \@tempdima\dp\@cclv
13710   \unvbox\@cclv
13711   \vskip-\@tempdima
13712   \bidi@mopfn@bottom
13713   \vskip \skip\footins
13714   \color@begingroup
13715     \normalcolor
13716     \footnoterule
13717     \unvbox \footins
13718   \color@endgroup
13719   }%
13720 }
13721 \newcommand*{\bidi@mopfootnotebf}{%
13722   \setbox\@outputbox \vbox{%
13723     \boxmaxdepth\@maxdepth
13724     \unvbox\@outputbox
13725     \bidi@mopfn@bottom
13726     \vskip\skip\footins
13727     \color@begingroup
13728     \normalcolor

```





```

13729 \footnoterule
13730 \unvbox \footins
13731 \color@endgroup
13732 }%
13733 }
13734 \gdef\mem@makecol{%
13735 \m@m@makecolintro
13736 \m@mdoextrafeet
13737 \ifvoid\footins
13738 \setbox\@outputbox \box\@cclv
13739 \else
13740 \m@mopfootnote
13741 \fi
13742 \m@m@makecolfloats
13743 \m@m@makecoltext
13744 \global \maxdepth \@maxdepth}
13745 \gdef\bidi@makecolbf{%
13746 \m@m@makecolintro
13747 \m@mdoextrafeet
13748 \setbox\@outputbox \box\@cclv
13749 \m@m@makecolfloats
13750 \ifvoid\footins
13751 \else
13752 \bidi@mopfootnotebf
13753 \fi
13754 \m@m@makecoltext
13755 \global \maxdepth \@maxdepth}
13756 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
13757 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
13758 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
13759 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
13760 \FeetAboveFloat
13761 \FeetBelowRagged
13762 \def\bidi@reinserts#1{\ifvoid#1\else
13763 \ifnum\count\@currbox>\z@
13764 \advance\@pageht \ht#1%
13765 \advance\@pageht \skip#1%
13766 \advance\@pageht \dp#1%
13767 \fi
13768 \insert#1{\unvbox#1}%
13769 \fi
13770 }
13771 \def\bidi@init@multi@footins#1{%
13772 \multiply\count#1\col@number
13773 \multiply\skip#1\col@number
13774 }
13775 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
13776 \insert#1{}\fi}
13777 \AtBeginDocument{%
13778 \bidi@preto\@doclearpage\m@mdoextrafeet
13779 \g@addto@macro\@reinserts{%
13780 \bidi@reinserts\footinsv@r
13781 \bidi@reinserts\footinsv@l
13782 }

```



```

13783 \bidi@floathook
13784 \g@addto@macro\@floatplacement{%
13785 \bidi@ifmulticol{}\bidi@floathook}%
13786 }%
13787 \if@bidi@csundef{multi@column@out}{%
13788 \@onlypreamble\bidi@init@multi@footins
13789 \let\bidi@ifmulticol\@secondoftwo
13790 }{%
13791 \bidi@preto\multi@column@out\m@mdoextrafeet
13792 \g@addto@macro\init@mult@footins{%
13793 \bidi@init@multi@footins\footinsv@r
13794 \bidi@init@multi@footins\footinsv@l
13795 }%
13796 \g@addto@macro\reinsert@footnotes{%
13797 \bidi@reinsert@footnotes\footinsv@r
13798 \bidi@reinsert@footnotes\footinsv@l
13799 }%
13800 }%
13801 }

```

## 87 File extreport-xetex-bidi.def

```

13802 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport clas
13803 \renewcommand*\l@part[2]{%
13804 \ifnum \c@tocdepth >-2\relax
13805 \addpenalty{-\@highpenalty}%
13806 \addvspace{2.25em \@plus\p@}%
13807 \begingroup
13808 \setlength\@tempdima{3em}%
13809 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13810 \parfillskip -\@pnumwidth
13811 {\leavevmode
13812 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
13813 \nobreak
13814 \global\@nobreaktrue
13815 \everypar{\global\@nobreakfalse\everypar{}}%
13816 \endgroup
13817 \fi}
13818 \renewcommand*\l@chapter[2]{%
13819 \ifnum \c@tocdepth >\m@ne
13820 \addpenalty{-\@highpenalty}%
13821 \vskip 1.0em \@plus\p@
13822 \setlength\@tempdima{1.5em}%
13823 \begingroup
13824 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13825 \parfillskip -\@pnumwidth
13826 \leavevmode \bfseries
13827 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
13828 \hskip -\if@RTL\rightskip\else\leftskip\fi
13829 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
13830 \penalty\@highpenalty
13831 \endgroup
13832 \fi}
13833 \def\@makechapterhead#1{%

```



```

13834 \vspace*{50\p@}%
13835 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
13836 \ifnum \c@secnumdepth >\m@ne
13837 \huge\bfseries \@chapapp\space \thechapter
13838 \par\nobreak
13839 \vskip 20\p@
13840 \fi
13841 \interlinepenalty\@M
13842 \Huge \bfseries #1\par\nobreak
13843 \vskip 40\p@
13844 }}
13845 \def\@makeschapterhead#1{%
13846 \vspace*{50\p@}%
13847 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
13848 \normalfont
13849 \interlinepenalty\@M
13850 \Huge \bfseries #1\par\nobreak
13851 \vskip 40\p@
13852 }}
13853 \renewcommand\left@footnoterule{%
13854 \kern-3\p@
13855 \hrule\@width.4\columnwidth
13856 \kern2.6\p@}
13857 \renewcommand\right@footnoterule{%
13858 \kern-3\p@
13859 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13860 \kern2.6\p@}
13861 \renewenvironment{thebibliography}[1]
13862 {\chapter*{\bibname
13863 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
13864 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
13865 \bidi@thebibliography@font@hook%
13866 \list{\@biblabel{\@arabic\c@enumiv}}%
13867 {\settowidth\labelwidth{\@biblabel{#1}}%
13868 \leftmargin\labelwidth
13869 \advance\leftmargin\labelsep
13870 \@openbib@code
13871 \usecounter{enumiv}%
13872 \let\p@enumiv\@empty
13873 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
13874 \sloppy\clubpenalty4000\widowpenalty4000%
13875 \sfcode\.\@m}
13876 {\def\@noitemerr
13877 {\@latex@warning{Empty `thebibliography' environment}}%
13878 \endlist}
13879 \if@titlepage
13880 \renewcommand\maketitle{\begin{titlepage}%
13881 \let\footnotesize\small
13882 \let\right@footnoterule\relax
13883 \let\left@footnoterule\relax
13884 \let\textwidth\footnoterule\relax
13885 \let \footnote \thanks
13886 \null\vfil
13887 \vskip 60\p@

```



```

13888 \begin{center}%
13889 {\LARGE \@title \par}%
13890 \vskip 3em%
13891 {\large
13892 \lineskip .75em%
13893 \begin{tabular}[t]{c}%
13894 \author
13895 \end{tabular}\par}%
13896 \vskip 1.5em%
13897 {\large \@date \par}% % Set date in \large size.
13898 \end{center}\par
13899 \@thanks
13900 \vfil\null
13901 \end{titlepage}%
13902 \setcounter{footnote}{0}%
13903 \global\let\thanks\relax
13904 \global\let\maketitle\relax
13905 \global\let\@thanks\@empty
13906 \global\let\@author\@empty
13907 \global\let\@date\@empty
13908 \global\let\@title\@empty
13909 \global\let\title\relax
13910 \global\let\author\relax
13911 \global\let\date\relax
13912 \global\let\and\relax
13913 }
13914 \else
13915 \renewcommand\maketitle{\par
13916 \begingroup
13917 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
13918 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
13919 \long\def\@makefntext##1{\parindent 1em\noindent
13920 \hb@xt@1.8em{%
13921 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
13922 \if@twocolumn
13923 \ifnum \col@number=\@one
13924 \@maketitle
13925 \else
13926 \twocolumn[\@maketitle]%
13927 \fi
13928 \else
13929 \newpage
13930 \global\@topnum\z@ % Prevents figures from going at top of page.
13931 \@maketitle
13932 \fi
13933 \thispagestyle{plain}\@thanks
13934 \endgroup
13935 \setcounter{footnote}{0}%
13936 \global\let\thanks\relax
13937 \global\let\maketitle\relax
13938 \global\let\@maketitle\relax
13939 \global\let\@thanks\@empty
13940 \global\let\@author\@empty
13941 \global\let\@date\@empty

```



```

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

```

## 88 File fancybox-xetex-bidi.def

```

13978 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
13979 \def\fancy@oval#1#2#3{%
13980 \boxmaxdepth \maxdimen
13981 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
13982 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
13983 \@ovxx#1\relax
13984 \advance\@ovxx-\@wholewidth
13985 \@ovyy#2\relax
13986 \advance\@ovyy-\@wholewidth
13987 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
13988 \advance\@tempdimb-2\p@
13989 \ifdim\@tempdimb>\the@cornersize\relax
13990 \@tempdimb=\the@cornersize
13991 \fi
13992 \@getcirc\@tempdimb

```



```

13993 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
13994 \@ovdx\@ovxx \advance\ovdx-\@tempdima \divide\ovdx \tw@
13995 \@ovdy\@ovyy \advance\ovdy-\@tempdima \divide\ovdy \tw@
13996 \@circlefnt
13997 \setbox\@tempboxa\hbox{\beginL%
13998   \if@ovr \ovvert32\kern -\@tempdima \fi
13999   \if@ovl \kern \ovxx \ovvert01\kern -\@tempdima \kern -\ovxx \fi
14000   \if@ovt \ovhorz \kern -\ovxx \fi
14001   \if@ovb \raise \ovyy \ovhorz \fi\endL}%
14002 \advance\ovdx\ovro
14003 \advance\ovdy\ovro
14004 \advance\ovxx\@wholewidth
14005 \wd\@tempboxa=\ovxx
14006 \dp\@tempboxa=\z@}

```

## 89 File fancyhdr-xetex-bidi.def

```

14007 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
14008
14009 \let\f@nch@everypar\everypar
14010
14011 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
14012 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
14013

```

## 90 File fix2col-xetex-bidi.def

```

14014 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
14015 \def\RTL\outputdblcol{%
14016   \if@firstcolumn
14017     \global\@firstcolumnfalse
14018     \global\setbox\@leftcolumn\copy\@outputbox
14019     \splitmaxdepth\maxdimen
14020     \vbadness\maxdimen
14021     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14022     \toks@{\expandafter\topmark}%
14023     \xdef\@firstcoltopmark{\the\toks@}%
14024     \toks@{\expandafter\splitfirstmark}%
14025     \xdef\@firstcolfirstmark{\the\toks@}%
14026     \ifx\@firstcolfirstmark\@empty
14027       \global\let\@setmarks\relax
14028     \else
14029       \gdef\@setmarks{%
14030         \let\firstmark\@firstcolfirstmark
14031         \let\topmark\@firstcoltopmark}%
14032     \fi
14033   \else \global\@firstcolumntrue
14034     \setbox\@outputbox \vbox {\hbox to\textwidth {%
14035       \hskip \columnwidth
14036       \hfil \vrule width\columnseprule \hfil
14037       \hbox to\columnwidth {%
14038         \bidi@firstcolumn@status@write%
14039         \box\@leftcolumn \hss}%
14040       \hskip -\textwidth

```



```

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

```

## 91 File fleqn-xetex-bidi.def

```

14091 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]

```



```

14092 \DeclareRobustCommand\[{ \relax
14093         \ifmmode \@badmath
14094         \else
14095             \begin{trivlist}%
14096                 \@beginparpenalty\predisplaypenalty
14097                 \@endparpenalty\postdisplaypenalty
14098                 \item[] \leavevmode
14099                 \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
14100                 \hskip\mathindent\bgroup
14101             \fi}
14102 \DeclareRobustCommand\]{ \relax
14103         \ifmmode
14104             \egroup $\hfil% $
14105             \endL\egroup
14106             \end{trivlist}%
14107         \else \@badmath
14108         \fi}
14109 \renewenvironment{equation}%
14110     { \@beginparpenalty\predisplaypenalty
14111       \@endparpenalty\postdisplaypenalty
14112       \refstepcounter{equation}%
14113       \trivlist \item[] \leavevmode
14114       \hb@xt@\linewidth\bgroup \beginL $\m@th% $
14115       \displaystyle
14116       \hskip\mathindent}%
14117     { $\hfil % $
14118       \displaywidth\linewidth\hbox{\@eqnnum}%
14119       \endL\egroup
14120     \endtrivlist}

```

## 92 File float-xetex-bidi.def

```

14121 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for
14122 \renewcommand\floatc@plain[2]{ \setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
14123 \ifdim\wd\@tempboxa>\hspace{\@fs@cfont #1:} #2\par
14124 \else\hbox to\hspace{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
14125 \def\float@newx#1[#2]{ \ifundefined{c@#1}{\newcounter{#1}[#2]}%
14126 \expandafter\edef\csname the#1\endcsname{%
14127 \expandafter\noexpand\csname
14128 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
14129 {\PackageWarning{float}{Can't redefine counter variable for #1.}}

```

## 93 File floatrow-xetex-bidi.def

```

14130 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow packag
14131 \RequirePackage{color}
14132 \renewcommand\flnew@within[1]{ \addtoreset{FB@captop}{#1}%
14133 \expandafter\edef\csname the\FB@captop\endcsname{%
14134 \expandafter\noexpand\csname
14135 the#1\endcsname\@SepMark\noexpand\arabic{FB@captop}}%

```

## 94 File flowfram-xetex-bidi.def

```

14136 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram packag

```





```

14137 \def\@outputdblcol{%
14138 \c@nextcol=\c@thisframe
14139 \c@curpg=\c@page
14140 \g@tnextcol{\c@nextcol}%
14141 \if@ff@nwpg % next flow frame starts on new page
14142 \global\@firstcolumntrue
14143 \setcolbox\c@thisframe
14144 \if@specialpage
14145 \global\@specialpagefalse
14146 \nameuse{ps@\@specialstyle}\relax
14147 \fi
14148 \if@twoside
14149 \ifodd\count\z@
14150 \let\@thehead\@oddhead
14151 \let\@thefoot\@oddfoot
14152 \else
14153 \let\@thehead\@evenhead
14154 \let\@thefoot\@evenfoot
14155 \fi
14156 \else
14157 \let\@thehead\@oddhead
14158 \let\@thefoot\@oddfoot
14159 \fi
14160 \@beginarvi
14161 \dodynamicthehead\@dynamicthefoot
14162 \vbadness=\@M
14163 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14164 \combinedblfloats
14165 \outputpage
14166 \advance\c@curpg by -\c@page\relax
14167 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
14168 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14169 \outputpage}
14170 \begingroup
14171 \dblfloatplacement
14172 \startdblcolumn
14173 \@whilesw \if@colmade \fi
14174 {\outputpage \startdblcolumn }\endgroup
14175 \resetst@tics
14176 \resetdyn@tics
14177 \else % still on same page, save contents of box255
14178 \global\@firstcolumnfalse
14179 \setcolbox\c@thisframe
14180 \fi
14181 \global\c@thisframe=\c@nextcol
14182 \setcol{\c@thisframe}\relax
14183 \global\colht\vsiz
14184 }
14185 \def\@outputpage{%
14186 \begingroup
14187 \let\protect\noexpand
14188 \resetactivechars
14189 \global\let\@if@newlist\if@newlist
14190 \global\@newlistfalse\@parboxrestore

```



```

14191 \global\let\bidibeforeoutputpageshipout\@firstofone
14192 \bidibeforeoutputpageshipouthook
14193 \shipout\vbox{\set@typeset@protect
14194 \aftergroup
14195 \endgroup
14196 \aftergroup
14197 \set@typeset@protect
14198 \reset@font\normalsize
14199 \bidifont@@outputpage
14200 \normalsfcodes
14201 \let\label@gobble
14202 \let\index@gobble
14203 \let\glossary@gobble
14204 \baselineskip\z@skip
14205 \lineskip\z@skip
14206 \lineskiplimit\z@
14207 \vskip\topmargin\moveright\@themargin
14208 \vbox{%
14209 \global\let\bidibeforeheader\@firstofone
14210 \bidibeforeheaderhook
14211 \vskip\headheight
14212 \vskip\headsep
14213 \global\let\bidibeforeoutputboxoutputpage\@firstofone
14214 \bidibeforeoutputboxoutputpagehook
14215 \box\@outputbox
14216 \global\let\bidiafteroutputboxoutputpage\@firstofone
14217 \bidiafteroutputboxoutputpagehook
14218 }%
14219 \global\let\bidiafteroutputpageshipout\@firstofone
14220 \bidiafteroutputpageshipouthook
14221 \global\let\ifnewlist\@ifnewlist
14222 \stepcounter{page}%
14223 \setcounter{displayedframe}{0}%
14224 \let\firstmark\botmark
14225 \global\let\bidiatendoutputpage\@firstofone
14226 \bidiatendoutputpagehook
14227 }
14228
14229
14230 \newcommand*\bidis@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{}}{%
14231 \expandafter\bidicolor\ff@txtcol}}
14232
14233 \newcommand{\bidiff@box}[3]{\@ffbackground{\vbox to#2
14234 {\hb@xt@ #1{\hss{\bidis@tfftextcol #3}\hss}\vss\kern\z@}}}%
14235
14236
14237 \renewcommand*\@docolbox}[1]{%
14238 \edef\ff@frametype{%
14239 \csname @ff@frametype@\romannumeral#1\endcsname}%
14240 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
14241 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
14242 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
14243 \@ff@setoffset{#1}%
14244 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%

```



```

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

```

## 95 File fnpct-xetex-bidi.def

```

14286 \ProvidesFile{fnpct-xetex-bidi.def}[2025/09/12 v0.2 bidi adaptations for fnpct package for
14287 \ExplSyntaxOn
14288 \@ifclassloaded{beamer}
14289 {
14290 \AdaptNote \footnote{d< >o+m} [\beamer@mpfn]
14291 {
14292 \IfNoValueTF{#1}
14293 {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
14294 {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14295 }

```



```

14296 \AdaptNote \RTLfootnote{d<>o+m} [\beamer@mpfn]
14297 {
14298     \IfNoValueTF{#1}
14299     {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
14300     {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14301 }
14302 \AdaptNote \LTRfootnote{d<>o+m} [\beamer@mpfn]
14303 {
14304     \IfNoValueTF{#1}
14305     {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
14306     {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14307 }
14308 }
14309 {
14310     \AdaptNote \RTLfootnote {o+m} [\@mpfn]
14311     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
14312     \AdaptNote \LTRfootnote {o+m} [\@mpfn]
14313     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
14314 }
14315 \ExplSyntaxOff

```

## 96 File footnote-xetex-bidi.def

```

14316 \ProvidesFile{footnote-xetex-bidi.def}[2025/09/20 v1.4 bidi footnote macros for XeTeX engine]
14317 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
14318 \newif\ifbidi@autofootnoterule
14319 \def\bidi@mpfootnoterule{\footnoterule}
14320 \newcounter{footdir@label}
14321 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
14322 \newcommand*{\footdir@write}{%
14323     \stepcounter{footdir@label}%
14324     \zref@labelbyprops{\thefootdir@label}{abspage}%
14325 }
14326 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
14327 \newtoks\footdir@toks
14328 \newcommand*{\footdir@debug}[1]{%
14329     \iffootdir@debug
14330     \typeout{[footdir] #1}%
14331     \fi
14332 }
14333 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
14334 % \newcommand*{\footdir@LeftRightElse}{%
14335 %     \ltx@ifundefined{footdir@the\value{zabspage}}{%
14336 %         \footdir@debug{abspage \the\value{zabspage}: else}%
14337 %         \ltx@thirdofthree
14338 %     }{%
14339 %         \if\csname footdir@the\value{zabspage}\endcsname L%
14340 %             \footdir@debug{abspage \the\value{zabspage}: left}%
14341 %             \expandafter\ltx@firstofthree
14342 %         \else
14343 %             \footdir@debug{abspage \the\value{zabspage}: right}%
14344 %             \expandafter\ltx@secondofthree
14345 %         \fi
14346 %     }%

```



```

14347 % }%
14348 %}{%
14349 \providecommand*{\c@zabspage}{\c@abspage}%
14350 \newcommand*{\footdir@LeftRightElse}{%
14351   \footdir@write
14352   \zifrefundefined{\thefootdir@label}{%
14353     \footdir@debug{abspage ??: else}%
14354     \ltx@thirdofthree
14355   }{%
14356     \edef\footdir@abspage{%
14357       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
14358     }%
14359     \ltx@ifundefined{footdir@\footdir@abspage}{%
14360       \footdir@debug{\footdir@abspage: else}%
14361       \ltx@thirdofthree
14362     }{%
14363       \if\csname footdir@\footdir@abspage\endcsname L%
14364         \footdir@debug{\footdir@abspage: left}%
14365         \expandafter\ltx@firstofthree
14366       \else
14367         \footdir@debug{\footdir@abspage: right}%
14368         \expandafter\ltx@secondofthree
14369       \fi
14370     }%
14371   }%
14372 }%
14373 %}
14374 \newcommand*{\footdir@fntext}[1]{%
14375   \zifrefundefined{\thefootdir@label}{%
14376   }{%
14377     \edef\footdir@name{%
14378       footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
14379     }%
14380     \@ifundefined{\footdir@name}{%
14381       \expandafter\gdef\csname\footdir@name\endcsname{#1}%
14382     }{}%
14383   }%
14384 }
14385
14386 \newcommand*{\footdir@temp}[3]{%
14387   \@ifdefinable{#1}{%
14388     \let#1#2%
14389     \renewcommand{#2}[1]{%
14390       \footdir@write
14391       \footdir@fntext{#3}%
14392       \stepcounter{footdir@label}%
14393       \footdir@fntext{#3}%
14394       \footdir@toks{##1}%
14395       \footdir@toks\expandafter{%
14396         \the\expandafter\footdir@toks
14397       \expandafter
14398       \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
14399     }%
14400     \expandafter#1\expandafter{\the\footdir@toks}%

```



```

14401     }%
14402 }%
14403 }
14404
14405 \def\right@footnoterule{%
14406   \kern-3\p@
14407   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14408   \kern2.6\p@}
14409 \def\right@mpfootnoterule{%
14410   \kern-\baselineskip
14411   \kern-3\p@
14412   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14413   \kern2.6\p@}
14414 \def\left@footnoterule{\kern-3\p@
14415   \hrule \@width .4\columnwidth \kern 2.6\p@}
14416 \def\textwidth@footnoterule{\kern-3\p@
14417   \hrule \@width \columnwidth \kern 2.6\p@}
14418 \def\leftfootnoterule{%
14419   \bidi@autofootnoterulefalse%
14420   \def\footnoterule{\left@footnoterule}%
14421   \def\bidi@mpfootnoterule{\left@footnoterule}%
14422 }
14423 \let\LRfootnoterule=\leftfootnoterule
14424 \def\rightfootnoterule{%
14425   \bidi@autofootnoterulefalse%
14426   \def\footnoterule{\right@footnoterule}%
14427   \def\bidi@mpfootnoterule{\right@mpfootnoterule}%
14428 }
14429 \def\textwidthfootnoterule{%
14430   \bidi@autofootnoterulefalse%
14431   \def\footnoterule{\textwidth@footnoterule}%
14432   \def\bidi@mpfootnoterule{\textwidth@footnoterule}%
14433 }
14434
14435
14436
14437 \def\auto@footnoterule{%
14438   \footdir@LeftRightElse%
14439   \left@footnoterule%
14440   \right@footnoterule%
14441   \left@footnoterule%
14442 }
14443
14444
14445
14446 \def\autofootnoterule{%
14447   \bidi@autofootnoteruletrue%
14448   \def\footnoterule{\auto@footnoterule}%
14449 }
14450
14451 \newcommand*{\SplitFootnoteRule}{%
14452   \gdef\split@prev{0}
14453   \let\pagefootnoterule\footnoterule
14454   \let\mpfootnoterule\footnoterule

```



```

14455 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
14456 \def\footnoterule{\relax
14457   \ifx \@listdepth\@mplistdepth
14458     \mpfootnoterule
14459   \else
14460     \ifnum\split@prev=\z@
14461       \pagefootnoterule
14462     \else
14463       \splitfootnoterule
14464     \fi
14465     \xdef\split@prev{\the\insertpenalties}%
14466   \fi
14467 }%
14468 }
14469
14470
14471
14472
14473 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
14474   \protected@xdef\@thefnmark{\thempfn}%
14475   \@footnotemark\@RTLfootnotetext}}
14476 \def\@xRTLfootnote[#1]{%
14477   \begingroup
14478     \csname c@\@mpfn\endcsname #1\relax
14479     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14480   \endgroup
14481   \@footnotemark\@RTLfootnotetext}
14482 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
14483   \protected@xdef\@thefnmark{\thempfn}%
14484   \@footnotemark\@LTRfootnotetext}}
14485 \def\@xLTRfootnote[#1]{%
14486   \begingroup
14487     \csname c@\@mpfn\endcsname #1\relax
14488     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14489   \endgroup
14490   \@footnotemark\@LTRfootnotetext}
14491
14492
14493 \def\setfootnoteRL{\@RTL@footnotetrue}
14494 \def\unsetfootnoteRL{\@RTL@footnotefalse}
14495 \def\setfootnoteLR{\unsetfootnoteRL}
14496
14497 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
14498 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
14499 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
14500
14501 \long\def\@footnotetext#1{\insert\footins{%
14502   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14503   \reset@font%
14504   \bidi@footnotetext@font% \reset@font\footnotesize
14505   \interlinepenalty\interfootnotelinepenalty
14506   \splittopskip\footnotesep
14507   \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14508   \hsize\columnwidth \@parboxrestore

```



```

14509 \protected@edef\@currentlabel{%
14510 \csname p@footnote\endcsname\@thefnmark
14511 }%
14512 \color@begingroup
14513 \makefntext{%
14514 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14515 \color@endgroup}}%
14516
14517
14518 \long\def\@RTLfootnotetext#1{\insert\footins{%
14519 \RTLtrue%
14520 \reset@font%
14521 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14522 \interlinepenalty\interfootnotelinepenalty
14523 \splittopskip\footnotesep
14524 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14525 \hsize\columnwidth \@parboxrestore
14526 \protected@edef\@currentlabel{%
14527 \csname p@footnote\endcsname\@thefnmark
14528 }%
14529 \color@begingroup
14530 \makefntext{%
14531 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14532 \color@endgroup}}%
14533
14534 \long\def\@LTRfootnotetext#1{\insert\footins{%
14535 \RTLfalse%
14536 \reset@font%
14537 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14538 \interlinepenalty\interfootnotelinepenalty
14539 \splittopskip\footnotesep
14540 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14541 \hsize\columnwidth \@parboxrestore
14542 \protected@edef\@currentlabel{%
14543 \csname p@footnote\endcsname\@thefnmark
14544 }%
14545 \color@begingroup
14546 \makefntext{%
14547 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14548 \color@endgroup}}%
14549
14550 \AtBeginDocument{%
14551 \if@RTL@footnote
14552 \newcommand*{\bidi@footdir@footnote}{R}
14553 \else
14554 \newcommand*{\bidi@footdir@footnote}{L}
14555 \fi%
14556 }
14557
14558 \footdir@temp\footdir@ORG\bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
14559 \footdir@temp\footdir@ORG\bidi@RTLfootnotetext\@RTLfootnotetext{R}%
14560 \footdir@temp\footdir@ORG\bidi@LTRfootnotetext\@LTRfootnotetext{L}%
14561
14562 \long\def\@mpRTLfootnotetext#1{%

```





```

14563 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@mpf
14564 \global\setbox\@mpfootins\vbox{%
14565 \unvbox\@mpfootins
14566 \@RTLtrue
14567 \reset@font%
14568 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14569 \hsize\columnwidth
14570 \@parboxrestore
14571 \protected@edef\@currentlabel
14572 {\csname p@mpfootnote\endcsname\@thefnmark}%
14573 \color@begingroup
14574 \makefntext{%
14575 \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14576 \color@endgroup}}
14577 \long\def\@mpLTRfootnotetext#1{%
14578 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footn
14579 \global\setbox\@mpfootins\vbox{%
14580 \unvbox\@mpfootins
14581 \@RTLfalse
14582 \reset@font%
14583 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14584 \hsize\columnwidth
14585 \@parboxrestore
14586 \protected@edef\@currentlabel
14587 {\csname p@mpfootnote\endcsname\@thefnmark}%
14588 \color@begingroup
14589 \makefntext{%
14590 \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14591 \color@endgroup}}
14592 \long\def\@mpfootnotetext#1{%
14593 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnot
14594 \global\setbox\@mpfootins\vbox{%
14595 \unvbox\@mpfootins
14596 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14597 \reset@font%
14598 \bidi@footnotetext@font% \reset@font\footnotesize
14599 \hsize\columnwidth
14600 \@parboxrestore
14601 \protected@edef\@currentlabel
14602 {\csname p@mpfootnote\endcsname\@thefnmark}%
14603 \color@begingroup
14604 \makefntext{%
14605 \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14606 \color@endgroup}}
14607 \def\@iiiminipage#1#2[#3]#4{%
14608 \leavevmode
14609 \@pboxswfalse
14610 \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
14611 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
14612 \setlength\@tempdima{#4}%
14613 \def\@mpargs{{#1}{#2}[#3]{#4}}%
14614 \setbox\@tempboxa\vbox\bgroup
14615 \color@begingroup
14616 \hsize\@tempdima

```



```

14617      \textwidth\hsize \columnwidth\hsize
14618      \@parboxrestore
14619      \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
14620      \let\@footnotetext\@mpfootnotetext
14621      \let\@LTRfootnotetext\@mpLTRfootnotetext
14622      \let\@RTLfootnotetext\@mpRTLfootnotetext
14623      \let\@listdepth\@mplistdepth \@mplistdepth\z@
14624      \@minipagerestore
14625      \@setminipage}
14626 \def\endminipage{%
14627   \par
14628   \unskip
14629   \ifvoid\@mpfootins\else
14630     \vskip\skip\@mpfootins
14631     \normalcolor
14632     \bidi@mpfootnoterule
14633     \unvbox\@mpfootins
14634   \fi
14635   \@minipagefalse   %% added 24 May 89
14636   \color@endgroup
14637   \egroup
14638   \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
14639 \def\LTRthanks#1{\footnotemark
14640   \protected@xdef\@thanks{\@thanks
14641     \protect\LTRfootnotetext[\the\c@footnote]{#1}}}%
14642 }
14643 \def\LTRfootnotetext{%
14644   \@ifnextchar [\@xLTRfootnotenext
14645     {\protected@xdef\@thefnmark{\thempfn}%
14646     \@LTRfootnotetext}}
14647 \def\@xLTRfootnotenext[#1]{%
14648   \begingroup
14649     \csname c@\@mpfn\endcsname #1\relax
14650     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14651   \endgroup
14652   \@LTRfootnotetext}
14653 \def\RTLthanks#1{\footnotemark
14654   \protected@xdef\@thanks{\@thanks
14655     \protect\RTLfootnotetext[\the\c@footnote]{#1}}}%
14656 }
14657 \let\@thanks\@empty
14658 \def\RTLfootnotetext{%
14659   \@ifnextchar [\@xRTLfootnotenext
14660     {\protected@xdef\@thefnmark{\thempfn}%
14661     \@RTLfootnotetext}}
14662 \def\@xRTLfootnotenext[#1]{%
14663   \begingroup
14664     \csname c@\@mpfn\endcsname #1\relax
14665     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14666   \endgroup
14667   \@RTLfootnotetext}
14668 \leftfootnoterule

```



## 97 File footnotebackref-xetex-bidi.def

```

14669 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
14670 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
14671 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
14672
14673 \renewcommand*\LTRfootnote{%
14674     \refstepcounter{BackrefHyperFootnoteCounter}%
14675     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14676     \label{\BackrefFootnoteTag}%
14677     \@ifnextchar[\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
14678
14679 \renewcommand*\RTLfootnote{%
14680     \refstepcounter{BackrefHyperFootnoteCounter}%
14681     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14682     \label{\BackrefFootnoteTag}%
14683     \@ifnextchar[\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
14684 \newcommand\Backref@HyperLTRFootnote[1]{%
14685     \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
14686
14687 \newcommand\Backref@HyperRTLFootnote[1]{%
14688     \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
14689
14690 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
14691     \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
14692
14693 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
14694     \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
14695
14696 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
14697 \ifFootnoteBackref@numberlinked
14698 \renewcommand{\footfootmark}{%
14699     \ifdim\footmarkwidth < \z@
14700         \llap{\hb@xt@ -\footmarkwidth{%
14701             \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14702             \hspace*{-\footmarkwidth}}}%
14703     \else
14704         \ifdim\footmarkwidth = \z@
14705             {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14706         \else
14707             \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14708         \fi
14709     \fi}
14710 \renewcommand{\LTRfootfootmark}{%
14711     \ifdim\footmarkwidth < \z@
14712         \llap{\hb@xt@ -\footmarkwidth{%
14713             \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14714             \hspace*{-\footmarkwidth}}}%
14715     \else
14716         \ifdim\footmarkwidth = \z@
14717             {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14718         \else
14719             \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14720         \fi

```



```

14721 \fi}
14722 \renewcommand{\RTLfootfootmark}{%
14723 \ifdim\footmarkwidth < \z@
14724 \llap{\hb@xt@ -\footmarkwidth{%
14725 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14726 \hspace*{-\footmarkwidth}}}%
14727 \else
14728 \ifdim\footmarkwidth = \z@
14729 {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14730 \else
14731 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14732 \fi
14733 \fi}
14734 \fi
14735 }

```

## 98 File framed-xetex-bidi.def

```

14736 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for xetex]
14737 \renewcommand\TitleBarFrame[3][\begingroup
14738 \ifx\delimiter#1\delimiter
14739 \let\TF@conlab\@empty
14740 \else
14741 \def\TF@conlab{% continuation label
14742 \nointerlineskip
14743 \smash{\rlap{\kern\wd\@tempboxa\kern\fbboxrule\kern\fbboxsep #1}}}%
14744 \fi
14745 %\let\TF@savecolor\current@color
14746 \textcolor{TFFrameColor}{%
14747 \CustomFBox
14748 {\TF@Title{#2}}{\TF@conlab}%
14749 \fbboxrule\fbboxrule\fbboxrule\fbboxrule
14750 %{\let\current@color\TF@savecolor\set@color #3}%
14751 {\normalcolor #3}%
14752 }\endgroup
14753 }
14754 \renewenvironment{titled-frame}[1]{%
14755 \def\FrameCommand{\fbboxsep8pt\fbboxrule2pt
14756 \TitleBarFrame{\textbf{#1}}}%
14757 \def\FirstFrameCommand{\fbboxsep8pt\fbboxrule2pt
14758 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
14759 \def\MidFrameCommand{\fbboxsep8pt\fbboxrule2pt
14760 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1} (cont)}}%
14761 \def\LastFrameCommand{\fbboxsep8pt\fbboxrule2pt
14762 \TitleBarFrame{\textbf{#1} (cont)}}}%
14763 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
14764 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
14765 % could interfere with the width measurement.
14766 {\endMakeFramed}
14767 \chardef\FrameRestore=\catcode`\| % for debug
14768 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
14769 \def\fb@put@frame#1#2{\relax
14770 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
14771 | \message{===== Entering putframe =====}~J

```



```

14772 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal. }%
14773 \ifinner
14774 \fb@putboxa#1%
14775 \fb@afterframe
14776 \else
14777 \dimen@ \pagegoal \advance \dimen@ - \pagetotal % natural space left on page
14778 \ifdim \dimen@ < 2 \baselineskip % Too little room on page
14779 | \message{Page has only \the \dimen@ space room left; eject. }%
14780 \eject \fb@adjheight \fb@put@frame#1#2%
14781 \else % there's appreciable room left on the page
14782 \fb@sizeofframe#1%
14783 | \message{\string \pagetotal=\the \pagetotal,
14784 | \string \pagegoal=\the \pagegoal,
14785 | \string \pagestretch=\the \pagestretch,
14786 | \string \pageshrink=\the \pageshrink,
14787 | \string \fb@frh=\the \fb@frh. \space}
14788 | \message{^^JBox of size \the \ht@tempboxa \space}%
14789 \begingroup % temporarily set \dimen@ to be...
14790 \advance \dimen@ .8 \pageshrink % maximum space available on page
14791 \advance \dimen@ - \fb@frh \relax % max space available for frame's contents
14792 %% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
14793 \expandafter \endgroup
14794 % expand \ifdim, then restore \dimen@ to real room left on page
14795 \ifdim \dimen@ > \ht@tempboxa % whole box does fit
14796 | \message{fits in \the \dimen@. }%
14797 % ToDo: Change this to use vsplit anyway to capture the marks
14798 % MERGE THIS WITH THE else CLAUSE!!!
14799 \fb@putboxa#1%
14800 \fb@afterframe
14801 \else % box must be split
14802 | \message{must be split to fit in \the \dimen@. }%
14803 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
14804 \fb@sizeofframe#2%
14805 \setbox \@tempboxa \vbox{% simulate frame and flexibility of the page:
14806 \vskip \fb@frh \@plus \pagestretch \@minus .8 \pageshrink
14807 \kern 137sp \kern -137sp \penalty -30
14808 \unvbox \@tempboxa}%
14809 \edef \fb@resto@set{\boxmaxdepth \the \boxmaxdepth
14810 \splittopskip \the \splittopskip}%
14811 \boxmaxdepth \z@ \splittopskip \z@
14812 | \message{^^JPadded box of size \the \ht@tempboxa \space split to \the \dimen@}%
14813 % Split box here
14814 \setbox \tw@ \vsplit \@tempboxa to \dimen@
14815 | \toks99 \expandafter{\splitfirstmark}%
14816 | \toks98 \expandafter{\splitbotmark}%
14817 | \message{Marks are: \the \toks99, \the \toks98. }%
14818 \setbox \tw@ \vbox{\unvbox \tw@}% natural-sized
14819 | \message{Natural height of split box is \the \ht \tw@, leaving
14820 | \the \ht@tempboxa \space remainder. }%
14821 % If the split-to size > (\vsize - \topskip), then set box to full size.
14822 \begingroup
14823 \advance \dimen@ \topskip
14824 \expandafter \endgroup
14825 \ifdim \dimen@ > \pagegoal

```



```

14826 |         \message{Frame is big -- Use up the full column. }%
14827         \dimen@ii\pagegoal
14828         \advance\dimen@ii -\topskip
14829         \advance\dimen@ii \FrameHeightAdjust\relax
14830     \else % suspect this is implemented incorrectly:
14831         % If the split-to size > feasible room_on_page, rebox it smaller.
14832         \advance\dimen@.8\pageshrink
14833         \ifdim\ht\tw@>\dimen@
14834 |             \message{Box too tall; rebox it to \the\dimen@. }%
14835             \dimen@ii\dimen@
14836         \else % use natural size
14837             \dimen@ii\ht\tw@
14838         \fi
14839     \fi
14840     % Re-box contents to desired size \dimen@ii
14841     \advance\dimen@ii -\fb@frh
14842     \setbox\tw@\vbox to\dimen@ii \bgroup
14843     % remove simulated frame and page flexibility:
14844     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
14845     \unvbox\tw@ \unpenalty\unpenalty
14846     \ifdim\lastkern=-137sp % whole box went to next page
14847 |         \message{box split at beginning! }%
14848         % need work here???
14849         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
14850         \fb@adjheight
14851         \fb@put@frame#1#2% INSERTED ???
14852     \else % Got material split off at the head
14853         \egroup \fb@resto@set
14854         \ifvoid\@tempboxa % it all fit after all
14855 |             \message{box split at end! }%
14856             \setbox\@tempboxa\box\tw@
14857             \fb@putboxa#1%
14858             \fb@afterframe
14859         \else % it really did split
14860 |             \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
14861             \ifdim\wd\tw@>\z@
14862                 \wd\tw@\wd\@tempboxa
14863                 \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
14864             \else
14865 |                 \message{Zero width means likely blank. Don't frame it (guess)}%
14866                 \box\tw@
14867             \fi
14868             \hrule \@height\z@ \@width\hsize
14869             \eject
14870             \fb@adjheight
14871             \fb@put@frame\LastFrameCommand\MidFrameCommand
14872         \fi\fi\fi\fi\fi
14873 }
14874 \def\fb@putboxa#1{%
14875     \ifvoid\@tempboxa
14876         \PackageWarning{framed}{Boxa is void -- discard it. }%
14877     \else
14878 |         \message{Frame and place boxa. }%
14879 |         %{\showoutput\showbox\@tempboxa}%

```



```

14880 \centerline{#1{\hboxL{\box\@tempboxa}}}%
14881 \fi
14882 }
14883 \catcode`\|=\FrameRestore
14884 \def\FrameRestore{%
14885 \let\if@nobreak\iffalse
14886 \let\if@noskipsec\iffalse
14887 \let\-\@dischyph
14888 \let'\@acci\let\` \@accii\let\=\@acciii
14889 % \message{FrameRestore:
14890 % \totalleftmargin=\the \totalleftmargin,
14891 % \rightmargin=\the\rightmargin,
14892 % \listdepth=\the\listdepth. }%
14893 % Test if we are in a list (or list-like paragraph)
14894 \ifnum \ifdim\totalleftmargin>\z@ 1\fi
14895 \ifdim\rightmargin>\z@ 1\fi
14896 \ifnum\listdepth>\z@ 1\fi 0>\z@
14897 % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleftmargin,
14898 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
14899 % \labelwidth=\the\labelwidth. }%
14900 \@setminipage % snug fit around the item
14901 % Now try to propagate changes of width from \hsize to list parameters.
14902 % This is deficient, but a more advanced way to indicate modification to text
14903 % dimensions is not (yet) provided; in particular, no separate left/right
14904 % adjustment.
14905 \advance\linewidth-\columnwidth \advance\linewidth\hsize
14906 \parshape\@ne \totalleftmargin \linewidth
14907 \else % Not in list
14908 \linewidth=\hsize
14909 %\message{No list, set \string\linewidth=\the\hsize. }%
14910 \fi
14911 \sloppy
14912 }

```

## 99 File ftnright-xetex-bidi.def

```

14913 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
14914
14915 \def\prepare@bidi@copyins{%
14916 \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
14917 \global\skip\@bidi@copyins@\z@
14918 \global\count\@bidi@copyins@\z@
14919 \global\dimen\@bidi@copyins@\textheight}
14920
14921 \newskip\bidi@rcol@copyinsskip
14922
14923 \def\LTR@outputdblcol{%
14924 \if@firstcolumn
14925 \global\@firstcolumnfalse
14926 \global\setbox\@leftcolumn\copy\@outputbox
14927 \global\count\footins\@m
14928 \global\skip\footins\rcol@footinsskip
14929 \global\count\@bidi@copyins@\@m
14930 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip

```



```

14931 \splitmaxdepth\maxdimen
14932 \vbadness\maxdimen
14933 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14934 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14935 \toks@\expandafter{\topmark}%
14936 \xdef\@firstcoltopmark{\the\toks@}%
14937 \toks@\expandafter{\splitfirstmark}%
14938 \xdef\@firstcolfirstmark{\the\toks@}%
14939 \ifx\@firstcolfirstmark\@empty
14940 \global\let\@setmarks\relax
14941 \else
14942 \gdef\@setmarks{%
14943 \let\firstmark\@firstcolfirstmark
14944 \let\topmark\@firstcoltopmark}%
14945 \fi
14946 \else
14947 \preparefootins
14948 \prepare@bidi@copyins
14949 \global\@firstcolumntrue
14950 \setbox\@outputbox\vbox{%
14951 \hb@xt@\textwidth{%
14952 \hb@xt@\columnwidth{%
14953 \bidi@firstcolumn@status@write%
14954 \box\@leftcolumn \hss}%
14955 \hfil
14956 {\normalcolor\vrule \@width\columnseprule}%
14957 \hfil
14958 \hb@xt@\columnwidth{%
14959 \bidi@lastcolumn@status@write%
14960 \box\@outputbox \hss}}}%
14961 \@combinedblfloats
14962 \@setmarks
14963 \@outputpage
14964 \begingroup
14965 \@dblfloatplacement
14966 \@startdblcolumn
14967 \@whilesw\if@fcolmade \fi{\@outputpage
14968 \@startdblcolumn}%
14969 \endgroup
14970 \fi}%
14971
14972 \def\RTL@outputdblcol{%
14973 \if@firstcolumn
14974 \global\@firstcolumnfalse
14975 \global\setbox\@leftcolumn\copy\@outputbox
14976 \global\count\footins\@m
14977 \global\skip\footins\rcol@footinsskip
14978 \global\count\@bidi@copyins\@m
14979 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
14980 \splitmaxdepth\maxdimen
14981 \vbadness\maxdimen
14982 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14983 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14984 \toks@\expandafter{\topmark}%

```





```

14985 \xdef\@firstcoltopmark{\the\toks@}%
14986 \toks@\expandafter{\splitfirstmark}%
14987 \xdef\@firstcolfirstmark{\the\toks@}%
14988 \ifx\@firstcolfirstmark\@empty
14989 \global\let\@setmarks\relax
14990 \else
14991 \gdef\@setmarks{%
14992 \let\firstmark\@firstcolfirstmark
14993 \let\topmark\@firstcoltopmark}%
14994 \fi
14995 \else
14996 \preparefootins
14997 \prepare@bidi@copyins
14998 \global\@firstcolumntrue
14999 \setbox\@outputbox\vbox{%
15000 \hb@xt@\textwidth{%
15001 \hskip \columnwidth
15002 \hfil
15003 {\normalcolor\vrule \@width\columnseprule}%
15004 \hfil
15005 \hb@xt@\columnwidth{%
15006 \bidi@firstcolumn@status@write%
15007 \box\@leftcolumn \hss}%
15008 \hskip -\textwidth
15009 \hb@xt@\columnwidth{%
15010 \bidi@lastcolumn@status@write%
15011 \box\@outputbox \hss}%
15012 \hskip \columnsep
15013 \hskip \columnwidth }}%
15014 \@combinedblfloats
15015 \@setmarks
15016 \@outputpage
15017 \begingroup
15018 \@dblfloatplacement
15019 \@startdblcolumn
15020 \@whilesw\if@colmade \fi{\@outputpage
15021 \@startdblcolumn}%
15022 \endgroup
15023 \fi}%
15024
15025 \def\@startcolumn{%
15026 \ifx\@deferlist\@empty
15027 \global\@fcolmadefalse
15028 \global\@colroom\@colht
15029 \else
15030 \ifvoid\footins\else
15031 \ftn@amount\ht\footins
15032 \advance\ftn@amount\dp\footins
15033 \advance\ftn@amount\skip\footins
15034 \fi
15035 \ifvoid\@bidi@copyins\else
15036 \bidi@copyins@amount\ht\@bidi@copyins@
15037 \advance\bidi@copyins@amount\dp\@bidi@copyins@
15038 \advance\bidi@copyins@amount\skip\@bidi@copyins@

```



```

15039 \fi
15040 \global\advance\@colht-\ftn@amount
15041 \global\advance\@colht-\bidi@copyins@amount
15042 \global\@colroom\@colht
15043 \xstartcol
15044 \global\advance\@colht\ftn@amount
15045 \global\advance\@colroom\ftn@amount
15046 \global\advance\@colht\bidi@copyins@amount
15047 \global\advance\@colroom\bidi@copyins@amount
15048 \fi
15049 \if@fcolmade
15050 \setbox\@cclv\box\@outputbox
15051 \@makecol
15052 \else
15053 \ifvoid\footins\else
15054 \insert\footins{\unvbox\footins}\fi
15055 \ifvoid\@bidi@copyins@\else
15056 \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
15057 \fi}
15058
15059 \newdimen\bidi@copyins@amount
15060
15061 \def\@makecol{\if@firstcolumn
15062 \setbox\@outputbox\box\@cclv
15063 \if@twocolumn \else
15064 \ifvoid\footins \else
15065 \latexerr{ftnright package
15066 used in one-column mode}%
15067 {The ftnright package was designed to
15068 work with LaTeX's standard^^Jtwocolumn
15069 option. It does *not* work with the
15070 multicol package.^^JSo please specify
15071 `twocolumn' in the
15072 \noexpand\documentclass command.}%
15073 \shipout\box\footins \fi
15074 \ifvoid\@bidi@copyins@ \else
15075 \latexerr{ftnright package
15076 used in one-column mode}%
15077 {The ftnright package was designed to
15078 work with LaTeX's standard^^Jtwocolumn
15079 option. It does *not* work with the
15080 multicol package.^^JSo please specify
15081 `twocolumn' in the
15082 \noexpand\documentclass command.}%
15083 \shipout\box\@bidi@copyins@ \fi\fi
15084 \ifnum\insertpenalties>\z@
15085 \latexerr{ftnright package
15086 scrambled footnotes}%
15087 {There is too much footnote material in
15088 the first column and ftnright^^Jis
15089 unable to cope with this.^^JYou need
15090 to reduce the amount to get a properly
15091 formatted page.}%
15092 \fi

```



```

15093 \else
15094 \ifvoid\footins
15095 \ifvoid\@bidi@copyins@
15096 \setbox\@outputbox\box\@cclv
15097 \else
15098 \setbox\@outputbox\vbox
15099 {\ifvoid\@cclv \else
15100 \unvbox\@cclv
15101 \vskip \skip\@bidi@copyins@
15102 \fi
15103 \color@begingroup
15104 \normalcolor
15105 \unvbox \@bidi@copyins@
15106 \color@endgroup}%
15107 \fi
15108 \else
15109 \setbox\@outputbox\vbox
15110 {\ifvoid\@cclv \else
15111 \unvbox\@cclv
15112 \vskip\skip\footins\fi
15113 \color@begingroup
15114 \normalcolor
15115 \footnoterule\unvbox\footins
15116 \color@endgroup
15117 \ifvoid\@bidi@copyins@
15118 \else
15119 \vskip \skip\@bidi@copyins@
15120 \color@begingroup
15121 \normalcolor
15122 \unvbox \@bidi@copyins@
15123 \color@endgroup
15124 \fi
15125 }%
15126 \fi
15127 \fi
15128 \xdef\@freelist{\@freelist\@midlist}%
15129 \global \let \@midlist \@empty
15130 \@combinefloats
15131 \ifvbox\@kludgeins
15132 \@makespecialcolbox
15133 \else
15134 \setbox\@outputbox\vbox to\@colht
15135 {\boxmaxdepth\maxdepth
15136 \@texttop
15137 \@tempdima\dp\@outputbox
15138 \unvbox\@outputbox
15139 \vskip-\@tempdima
15140 \@textbottom}%
15141 \fi
15142 \global\maxdepth\@maxdepth}
15143
15144 \let\leftfootnoterule\@empty
15145 \let\rightfootnoterule\@empty
15146 \let\textwidthfootnoterule\@empty

```



```

15147 \let\autofootnoterule\@empty
15148 \let\footnoterule\@empty
15149 \long\def\@makefntext#1{\parindent 1em
15150   \noindent\hbox to 2em{}}%
15151   \llap{\@thefnmark\hbox{.}\,\,\,}#1}
15152
15153 \setlength{\skip\@bidi@copyins@}
15154   {10pt plus 5pt minus 3pt}
15155 \AtBeginDocument{\prepare@bidi@copyins}

```

## 100 File graphicx-xetex-bidi.def

```

15156 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
15157 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
15158   \Grot@setangle{#1}%
15159   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\endR\fi}%
15160   \Grot@x\z@
15161   \Grot@y\z@
15162   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
15163 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15164   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15165   \Grot@x\width \divide\Grot@x\tw@
15166   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
15167   \setkeys{Grot}{#1}%
15168   \setbox\z@\box@tempboxa
15169   \Grot@setangle{#2}%
15170   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15171   \@end@tempboxa}
15172 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15173   \leavevmode
15174   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15175   \setbox\z@\hbox{#3}%
15176   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15177   \ifdim#2\p@<\z@
15178     \ht\tw@-#2\dp\z@
15179     \dp\tw@-#2\ht\z@
15180   \else
15181     \ht\tw@#2\ht\z@
15182     \dp\tw@#2\dp\z@
15183   \fi
15184   \ifdim#1\p@<\z@
15185     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15186   \else
15187     \wd\tw@#1\wd\z@
15188     \box\tw@
15189   \fi\ifmmode\else\if@RTL\endL\fi\fi}
15190 \def\Gin@iii[#1,#2][#3,#4]#5{%
15191   \begingroup
15192   \ifmmode\else\if@RTL\beginL\fi\fi
15193   \Gin@bboxtrue
15194   \Gin@defaultbp\Gin@llx{#1}%
15195   \Gin@defaultbp\Gin@lly{#2}%
15196   \Gin@defaultbp\Gin@urx{#3}%
15197   \Gin@defaultbp\Gin@ury{#4}%

```



```

15198 \Ginclud@graphics{#5}%
15199 \ifmmode\else\if@RTL\endL\fi\fi
15200 \endgroup}
15201 \def\Gin@ii[#1]#2{%
15202   \def\@tempa{[]}\def\@tempb{#2}%
15203   \ifx\@tempa\@tempb
15204     \def\@tempa{\Gin@iii[#1] []}%
15205     \expandafter\@tempa
15206   \else
15207     \beginingroup
15208     \ifmmode\else\if@RTL\beginL\fi\fi
15209     \@tempswafalse
15210     \toks@{\Ginclud@graphics{#2}}%
15211     \setkeys{Gin}{#1}%
15212     \Gin@esetsize
15213     \the\toks@
15214     \ifmmode\else\if@RTL\endL\fi\fi
15215   \endgroup
15216   \fi}
15217 \def\reflectbox{\bidiGscale@box-1[1]}
15218 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15219   \leavevmode
15220   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15221   \setbox\z@ \hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15222   \setbox\tw@ \hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15223   \ifdim#2\p@<\z@
15224     \ht\tw@-#2\dp\z@
15225     \dp\tw@-#2\ht\z@
15226   \else
15227     \ht\tw@#2\ht\z@
15228     \dp\tw@#2\dp\z@
15229   \fi
15230   \ifdim#1\p@<\z@
15231     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15232   \else
15233     \wd\tw@#1\wd\z@
15234     \box\tw@
15235   \fi\ifmmode\else\if@RTL\endL\fi\fi}
15236 \def\scalebox#1{%
15237   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}%
15238 \def\resizebox{%
15239   \leavevmode
15240   \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
15241 \def\bidiGscale@@box#1#2#3{%
15242   \let\@tempa\Gin@exclamation
15243   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
15244   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
15245   \ifx\@tempb\@tempa
15246     \ifx\@tempc\@tempa
15247       \toks@{\mbox}%
15248     \else
15249       \toks@{\bidiGscale@box@dd{#3}#1}%
15250     \fi
15251   \else

```



```

15252 \ifx\@tempc\@tempa
15253 \toks@{\bidiGscale@box@dd{#2}\width}%
15254 \else
15255 \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
15256 \fi
15257 \fi
15258 \the\toks@}
15259 \long\def\bidiGscale@box@dd#1#2#3{%
15260 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\fi}%
15261 \setlength\@tempdima{#1}%
15262 \setlength\@tempdimb{#2}%
15263 \Gscale@div\@tempa\@tempdima\@tempdimb
15264 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
15265 \end@tempboxa}
15266 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
15267 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\fi}%
15268 \setlength\@tempdima{#1}%
15269 \setlength\@tempdimb{#2}%
15270 \Gscale@div\@tempa\@tempdima\@tempdimb
15271 \setlength\@tempdima{#3}%
15272 \setlength\@tempdimb{#4}%
15273 \Gscale@div\@tempb\@tempdima\@tempdimb
15274 \ifGin@iso
15275 \ifdim\@tempa\p@>\@tempb\p@
15276 \let\@tempa\@tempb
15277 \else
15278 \let\@tempb\@tempa
15279 \fi
15280 \fi
15281 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
15282 \end@tempboxa}

```

## 101 File geometry-xetex-bidi.def

```

15283 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
15284 \renewcommand*{\Gm@vrules@mpi}{%
15285 \if@RTLmain%
15286 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15287 \llap{\Gm@vrule}\ignorespaces
15288 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15289 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
15290 \else%
15291 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15292 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15293 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
15294 \renewcommand*{\Gm@vrules@mpii}{%
15295 \if@RTLmain%
15296 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15297 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15298 \llap{\Gm@vrule}\hfil\Gm@vrule}%
15299 \else%
15300 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15301 \llap{\Gm@vrule}\ignorespaces
15302 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep

```



```

15303 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
15304 \bidi@patchcmd{\Gm@pageframes}{%
15305 \ifodd\count\z@
15306 \let\@themargin\oddsidemargin
15307 \else
15308 \let\@themargin\evensidemargin
15309 \fi
15310 }{%
15311 \ifodd\count\z@
15312 \if@RTLmain
15313 \let\@themargin\evensidemargin
15314 \else
15315 \let\@themargin\oddsidemargin
15316 \fi
15317 \else
15318 \if@RTLmain
15319 \let\@themargin\oddsidemargin
15320 \else
15321 \let\@themargin\evensidemargin
15322 \fi
15323 \fi
15324 }{}{}

```

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

```

15325 \ProvidesFile{hgeneric-testphase-xetex-bidi.def}[2025/09/20 v0.1 bidi adaptations for gener
15326 \ExplSyntaxOn
15327 \AtBeginDocument{%
15328 \bidi@undef\hyper@link
15329 \bidi@undef\hyper@linkfile
15330 \bidi@undef\hyper@linkurl
15331 \bidi@undef\hyper@linknamed
15332 \cs_new_protected:Npn \hyper@link #1 #2 #3 % #1 context, #2=destination name, #3 content
15333 {
15334 \bool_if:NTF \l__hyp_annot_GoTo_bool
15335 {
15336 \int_gincr:N\g__hyp_linknestlevel_int
15337 \__hyp_check_link_nesting:TF
15338 {
15339 \Hy@VerboseLinkStart{#1}{#2}
15340 \group_begin:
15341 \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15342 \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{#3}
15343 \hook_use:n {hyp/link/#1}
15344 \__hyp_link_goto_begin:nw {#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\
15345 \__hyp_link_goto_end:
15346 \group_end:
15347 \Hy@VerboseLinkStop
15348 }
15349 {
15350 \group_begin: #3\group_end:
15351 }
15352 \int_gdecr:N\g__hyp_linknestlevel_int
15353 }

```



```

15354      {{\let\protect\relax#3}}
15355    }
15356    \cs_new_protected:Npn \hyper@linkfile #1 #2 #3 % link text, filename, destname
15357    {
15358      \bool_if:NTF \l__hyp_annot_GoToR_bool
15359      {
15360        \int_gincr:N\g__hyp_linknestlevel_int
15361        \__hyp_check_link_nesting:TF
15362        {
15363          \group_begin:
15364          \tl_set:Nx \l__hyp_filename_tmpa_tl { \text_expand:n { #2 } }
15365          \exp_args:Nx
15366          \pdf_object_if_exist:nF { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15367          {
15368            \pdfdict_put:nne { l_pdffile/Filespec } { Subtype } { \pdf_name_from_unicode_e:
15369            \pdffile_embed_file:noe
15370              {}
15371              { \l__hyp_filename_tmpa_tl }
15372              { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15373            }
15374            \pdfdict_put:nne
15375              { l_hyp/annot/A/GoToR }
15376              { F }
15377            { \pdf_object_ref:e { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl } }
15378            \__hyp_text_pdfstring:nnN
15379              { #3 }
15380              { \l__hyp_text_enc_dest_print_tl }
15381              \l__hyp_dest_name_tmpa_tl
15382            \socket_use:nn { hyp/link/GoToR/Contents } { #2 }
15383            \tl_if_blank:eTF { #3 }
15384            {
15385              \pdfdict_put:nne { l_hyp/annot/A/GoToR } { D }
15386              {
15387                [
15388                  \int_eval:n
15389                  { \int_max:nn { 0 } { 0 \l__hyp_href_pdf_page_tl - 1 } }
15390                  /\l__hyp_dest_pdfremotestartview_tl
15391                ]
15392              }
15393            }
15394            {
15395              \pdfdict_put:nno { l_hyp/annot/A/GoToR } { D } { \l__hyp_dest_name_tmpa_tl }
15396            }
15397            \mode_leave_vertical:
15398            \pdf_object_unnamed_write:ne { dict } { \pdfdict_use:n { l_hyp/annot/A/GoToR } }
15399            \pdfannot_dict_put:nne { link/GoToR } { A } { \pdf_object_ref_last: }
15400            \pdfannot_link:nnn %expansion??
15401              { GoToR }
15402              {
15403              }
15404              {
15405                \let\protect\relax
15406                \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspac
15407                \Hy@VerboseLinkStop %where is the start??

```





```

15408         }
15409         \group_end:
15410     }
15411     {
15412         \group_begin: #1 \group_end:
15413     }
15414     \int_gdecr:N\g__hyp_linknestlevel_int
15415 }
15416 {{\let\protect\relax#1}}
15417 }
15418 \cs_new_protected:Npn \hyper@linkurl #1 #2 %#1:link text #2: URI,
15419 {
15420     \bool_if:NTF \l__hyp_annot_URI_bool
15421     {
15422         \int_gincr:N\g__hyp_linknestlevel_int
15423         \__hyp_check_link_nesting:TF
15424         {
15425             \group_begin:
15426             \__hyp_text_pdfstring:eoN
15427             { #2}
15428             { \l__hyp_text_enc_uri_print_tl }
15429             \l__hyp_uri_tmpa_tl
15430             \pdfdict_put:nno{l_hyp/annot/A/URI}{URI}{\l__hyp_uri_tmpa_tl}
15431             \bool_if:NT \l__hyp_href_url_ismap_bool
15432             {
15433                 \pdfdict_put:nnn{l_hyp/annot/A/URI}{IsMap}{true}
15434             }
15435             \socket_use:nn{hyp/link/URI/Contents}{#2}
15436             \cs_set_eq:NN \# \c_hash_str
15437             \cs_set_eq:NN \% \c_percent_str
15438             \Hy@safe@activetrue
15439             \mode_leave_vertical:
15440             \pdfannot_dict_put:nne {link/URI}{A}{<<\pdfdict_use:n {l_hyp/annot/A/URI}>>}
15441             \pdfannot_link:nen { URI }
15442             {
15443             }
15444             {
15445                 \let\protect\relax
15446                 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi
15447                 \Hy@xspace@end
15448                 \Hy@VerboseLinkStop %where is the start??
15449             }
15450             \group_end:
15451         }
15452     }
15453     \group_begin: #1 \group_end:
15454 }
15455 \int_gdecr:N\g__hyp_linknestlevel_int
15456 }
15457 {{\let\protect\relax#1}}
15458 }
15459 \RenewDocumentCommand \Acrobatmenu { m m }
15460 {
15461     \hyper@linknamed {#1} {#2}

```



```

15462 }
15463 \cs_new_protected:Npn \hyper@linknamed #1 #2 %#1 action, #2 link text
15464 {
15465   \bool_if:NTF \l__hyp_annot_Named_bool
15466   {
15467     \int_gincr:N\g__hyp_linknestlevel_int
15468     \__hyp_check_link_nesting:TF
15469     {
15470       \group_begin:
15471       \pdfmeta_standard_verify:nnTF {named_actions}{#1}
15472       {
15473         \mode_leave_vertical:
15474         \pdfdict_put:nne {l_hyp/annot/A/Named}{N}
15475         {\pdf_name_from_unicode_e:n{#1}}
15476         \pdfannot_dict_put:nne {link/Named}{A}{<<\pdfdict_use:n {l_hyp/annot/A/Name
15477         \pdfannot_link:nnn { Named }
15478         {
15479           % /A
15480           % <<
15481           % \pdfdict_use:n { l_hyp/annot/A/Named }
15482           % >>
15483         }
15484         {
15485           \ifmode\else\if@RTL\beginR\fi\fi#2\ifmode\else\if@RTL\endR\fi
15486           \Hy@xspace@end
15487           \Hy@VerboseLinkStop
15488         }
15489       }
15490       {
15491         \msg_warning:nnn { hyp } { pdfa-no-named-action }{#1}
15492         #2
15493       }
15494       \group_end:
15495     }
15496     { \group_begin: #2 \group_end: }
15497     \int_gdecr:N\g__hyp_linknestlevel_int
15498   }
15499   {\let\protect\relax#2}}
15500 }
15501 }
15502 \ExplSyntaxOff

```

### 103 File hvfloat-xetex-bidi.def

```

15503 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package
15504 \def\do@hvFloat[#1]#2#3{%
15505   \def\hv@shortCap{#1}
15506   \def\hv@longCap{#2}
15507   \def\hv@label{#3}
15508   %\newcommand*{\hvFloat}[5][]{%
15509   % [#1]: keyvalues
15510   % #2: type figure | table | ...
15511   % #3: float contents
15512   % [#4]: short caption

```



```

15513 % #5: caption
15514 % #6: label
15515 % \setDefaults%
15516 % \def\@tempa{#1}%
15517 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
15518 % \def\@tempa{90}%
15519 % \ifx\hvSet@rotAngle\@tempa \setlength{hvMaxCapWidth}{\textheight}
15520 % \else \setlength{hvMaxCapWidth}{\linewidth}
15521 % \fi
15522 %
15523 % First we save the object in \hvObjectBox
15524 %
15525 % \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
15526 % \savebox{hvObjectBox}{\ifhv@useOBox\usebox{hvOBox}\else\hv@floatObject\fi}
15527 % \else
15528 % \savebox{hvObjectBox}{%
15529 % \rotatebox{hvSet@objectAngle}{%
15530 % \ifhv@useOBox\usebox{hvOBox}\else\hv@floatObject\fi}}
15531 % \fi
15532 % \setlength{hvObjectWidth}{wd\hvObjectBox}
15533 %
15534 % Now we save the caption with its defined \hvCapWidth
15535 %
15536 % \ifx\hvSet@capWidth\hv@Width\setlength{hvCapWidth}{hvObjectWidth}
15537 % \else
15538 % \ifx\hvSet@capWidth\hv@Height\setlength{hvCapWidth}{ht\hvObjectBox}
15539 % \else
15540 % \setlength{hvCapWidth}{hvObjectWidth}
15541 % \ifx\hvSet@capPos\hv@Left\addtolength{hvMaxCapWidth}{-hvObjectWidth}\fi
15542 % \ifx\hvSet@capPos\hv@Right\addtolength{hvMaxCapWidth}{-hvObjectWidth}\fi
15543 % \ifdim\hvSet@capWidth\columnwidth<hvMaxCapWidth
15544 % \setlength{hvCapWidth}{hvSet@capWidth\columnwidth}
15545 % \else
15546 % \setlength{hvCapWidth}{hvMaxCapWidth}
15547 % \fi
15548 % \fi
15549 % \fi
15550 %
15551 % now we have the object and the caption with the right
15552 % rotated angles saved in boxes
15553 %
15554 % \def\fps@figure{\hvSet@floatPos}
15555 % \ifhv@nonFloat\begin{group}% Start the nonfloat part
15556 % \else \begin{hv@floatType}% Start the floating environment
15557 % \fi%
15558 % \saveCaptionSkip% we put this space ourselves
15559 % \ifx\hvSet@capAngle\hv@Width % need rotation?
15560 % \sbox{hvCaptionBox}{%
15561 % \begin{minipage}[b]{hvCapWidth}% minipage, to get hyphenation
15562 % \ifhv@nonFloat%
15563 % \ifhv@onlyText#2%
15564 % \else%
15565 % \ifx\hv@floatType\hv@figure
15566 % \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi

```



```

15567     \else
15568         \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15569     \fi
15570 \fi
15571 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15572 \fi%
15573 \label{#3}%
15574     \end{minipage}%
15575 }%
15576 \else%
15577     \sbox{\hvCaptionBox}{%
15578         \rotatebox{\hvSet@capAngle}{%
15579             \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15580 \ifhv@nonFloat%
15581             \ifhv@onlyText#2%
15582             \else%
15583             \ifx\hv@floatType\hv@figure
15584                 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15585             \else
15586                 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15587             \fi
15588         \fi
15589 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15590         \fi%
15591         \label{#3}%
15592     \end{minipage}%
15593 }%
15594 }%
15595 \fi%
15596 %%
15597 \restoreCaptionSkip% save old values
15598 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
15599 \else%
15600     \ifx\hvSet@objectPos\hv@Center
15601         \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
15602     \fi%
15603 \fi%
15604 %
15605 % to rotate object and caption together, we save all in another box
15606 % the caption comes first, if its on the left or the top
15607 %
15608 \savebox{\@tempboxa}{%
15609     \ifx\hvSet@capPos\hv@Left % caption on left side
15610 \if@RTL%
15611 \ifx\hvSet@capVPos\hv@Center%
15612     \ifhv@fbox
15613         \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15614     \else
15615         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15616     \fi%
15617     \hspace{\hvSet@floatCapSep pt}%
15618     \ifhv@fbox
15619         \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15620     \else

```



```

15621     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15622     \fi%
15623   \else%
15624     \ifx\hvSet@capVPos\hv@Top
15625       \ifhv@fbox
15626         \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15627       \else
15628         \raisebox{-\height}{\usebox{\hvObjectBox}}%
15629       \fi%
15630     \hspace{\hvSet@floatCapSep pt}%
15631     \ifhv@fbox
15632       \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15633     \else
15634       \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15635     \fi
15636   \else
15637     \ifhv@fbox
15638       \fbox{\usebox{\hvObjectBox}}%
15639     \else
15640       \usebox{\hvObjectBox}%
15641     \fi
15642     \hspace{\hvSet@floatCapSep pt}%
15643     \ifhv@fbox
15644       \fbox{\usebox{\hvCaptionBox}}%
15645     \else
15646       \usebox{\hvCaptionBox}%
15647     \fi%
15648   \fi%
15649 \fi%
15650 \else% not RTL
15651   \ifx\hvSet@capVPos\hv@Center%
15652     \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15653   \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15654   \fi%
15655   \hspace{\hvSet@floatCapSep pt}% capfloatsep
15656   \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15657   \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15658   \fi%
15659 \else%
15660   \ifx\hvSet@capVPos\hv@Top % caption at top
15661     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15662   \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15663   \fi
15664   \hspace{\hvSet@floatCapSep pt}% capfloatsep
15665   \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15666   \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%
15667   \fi%
15668 \else% caption on bottom
15669   \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
15670   \else\usebox{\hvCaptionBox}
15671   \fi%
15672   \hspace{\hvSet@floatCapSep pt}%
15673   \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
15674   \else     \usebox{\hvObjectBox}

```



```

15675     \fi%
15676     \fi%
15677 \fi% end of RTL
15678     \fi%
15679     \else
15680     \ifx\hvSet@capPos\hv@Top
15681     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15682     \begin{minipage}{\wd\hvCaptionBox}
15683     \else
15684     \begin{minipage}{\wd\hvObjectBox}
15685     \fi
15686     \centering
15687     \ifhv@fbox
15688     \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
15689     \fbox{\usebox{\hvObjectBox}}
15690     \else
15691     \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
15692     \usebox{\hvObjectBox}
15693     \fi%
15694     \end{minipage}
15695     \else
15696     \ifx\hvSet@capPos\hv@Bottom
15697     \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15698     \begin{minipage}{\wd\hvCaptionBox}
15699     \else
15700     \begin{minipage}{\wd\hvObjectBox}
15701     \fi
15702     \centering
15703     \ifhv@fbox
15704     \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
15705     \fbox{\usebox{\hvCaptionBox}}
15706     \else
15707     \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
15708     \usebox{\hvCaptionBox}
15709     \fi%
15710     \end{minipage}
15711     \else% the last option: put the caption on the right
15712 \if@RTL%
15713     \ifx\hvSet@capVPos\hv@Center%
15714     \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15715     \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15716     \fi%
15717     \hspace{\hvSet@floatCapSep pt}% capfloatsep
15718     \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15719     \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15720     \fi%
15721     \else%
15722     \ifx\hvSet@capVPos\hv@Top % caption at top
15723     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15724     \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15725     \fi
15726     \hspace{\hvSet@floatCapSep pt}% capfloatsep
15727     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15728     \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%

```



```

15729     \fi%
15730 \else% caption on bottom
15731     \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15732         \else\usebox{\hvCaptionBox}
15733     \fi%
15734     \hspace{\hvSet@floatCapSep pt}%
15735     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15736     \else     \usebox{\hvObjectBox}
15737     \fi%
15738 \fi%
15739 \fi%
15740 \else% not RTL
15741     \ifx\hvSet@capVPos\hv@Center%
15742     \ifhv@fbox
15743         \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15744     \else
15745         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15746     \fi%
15747     \hspace{\hvSet@floatCapSep pt}%
15748     \ifhv@fbox
15749         \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15750     \else
15751         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15752     \fi%
15753 \else%
15754     \ifx\hvSet@capVPos\hv@Top
15755     \ifhv@fbox
15756         \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15757     \else
15758         \raisebox{-\height}{\usebox{\hvObjectBox}}%
15759     \fi%
15760     \hspace{\hvSet@floatCapSep pt}%
15761     \ifhv@fbox
15762         \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15763     \else
15764         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15765     \fi
15766 \else
15767     \ifhv@fbox
15768         \fbbox{\usebox{\hvObjectBox}}%
15769     \else
15770         \usebox{\hvObjectBox}%
15771     \fi
15772     \hspace{\hvSet@floatCapSep pt}%
15773     \ifhv@fbox
15774         \fbbox{\usebox{\hvCaptionBox}}%
15775     \else
15776         \usebox{\hvCaptionBox}%
15777     \fi%
15778 \fi%
15779 \fi
15780 \fi% end of RTL
15781 \fi
15782 \fi

```



```

15783 \fi
15784 }% End savebox Object and caption
15785 %
15786 % now we rotate the object and caption, if needed
15787 %
15788 \ifx\hvSet@rotAngle\hv@Zero
15789 \usebox{\@tempboxa}
15790 \else
15791 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
15792 \fi
15793 \ifhv@nonFloat
15794 \ifx\hvSet@objectPos\hv@Center
15795 \ifhv@nonFloat
15796 \hspace{\fill}
15797 \fi
15798 \fi
15799 \endgroup% End the nonfloat part
15800 \else
15801 \end{\hv@floatType}% End the floating environment
15802 \fi
15803 }

```

## 104 File hyperref-xetex-bidi.def

```

15804 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
15805 \AtBeginDocument{%
15806 \def\contentsline#1#2#3#4{%
15807 \ifx\#4\%
15808 \csname l@#1\endcsname{#2}{#3}%
15809 \else
15810 \ifcase\Hy@linktoc % none
15811 \csname l@#1\endcsname{#2}{#3}%
15812 \or % section
15813 \csname l@#1\endcsname{%
15814 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15815 }{#3}%
15816 \or % page
15817 \csname l@#1\endcsname{{#2}}{%
15818 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15819 }%
15820 \else % all
15821 \csname l@#1\endcsname{%
15822 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15823 }{%
15824 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15825 }%
15826 \fi
15827 \fi
15828 }
15829 \ifHy@hyperfootnotes
15830 \let\H@@footnotetext\@footnotetext
15831 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
15832 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
15833 \def\xfootnotenext[#1]{%

```





```

15834 \begingroup
15835 \csname c@\mpfn\endcsname #1\relax
15836 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15837 \endgroup
15838 \ifx\@footnotetext\@mpfootnotetext
15839 \expandafter\H@\mpfootnotetext
15840 \else
15841 \expandafter\H@\@footnotetext
15842 \fi
15843 }%
15844 \def\@xRTLfootnotenext[#1]{%
15845 \begingroup
15846 \csname c@\mpfn\endcsname #1\relax
15847 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15848 \endgroup
15849 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
15850 \expandafter\HRTL@\mpRTLfootnotetext
15851 \else
15852 \expandafter\HRTL@\@RTLfootnotetext
15853 \fi
15854 }%
15855 \def\@xLTRfootnotenext[#1]{%
15856 \begingroup
15857 \csname c@\mpfn\endcsname #1\relax
15858 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15859 \endgroup
15860 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
15861 \expandafter\HLTR@\mpLTRfootnotetext
15862 \else
15863 \expandafter\HLTR@\@LTRfootnotetext
15864 \fi
15865 }%
15866 \def\@xfootnotemark[#1]{%
15867 \begingroup
15868 \c@footnote #1\relax
15869 \unrestored@protected@xdef\@thefnmark{\thefootnote}%
15870 \endgroup
15871 \H@\@footnotemark
15872 }%
15873 \let\H@\mpfootnotetext\@mpfootnotetext
15874 \let\HRTL@\mpRTLfootnotetext\@mpRTLfootnotetext
15875 \let\HLTR@\mpLTRfootnotetext\@mpLTRfootnotetext
15876 \long\def\@mpfootnotetext#1{%
15877 \H@\mpfootnotetext{%
15878 \ifHy@nesting
15879 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15880 \else
15881 \Hy@raisedlink{%
15882 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15883 }#1%
15884 \fi
15885 }%
15886 }%
15887 \long\def\@mpRTLfootnotetext#1{%

```



```

15888 \HRTL@mpRTLfootnotetext{%
15889 \ifHy@nesting
15890 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15891 \else
15892 \Hy@raisedlink{%
15893 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15894 }#1%
15895 \fi
15896 }%
15897 }%
15898 \long\def\@mpLTRfootnotetext#1{%
15899 \HLTR@mpLTRfootnotetext{%
15900 \ifHy@nesting
15901 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15902 \else
15903 \Hy@raisedlink{%
15904 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15905 }#1%
15906 \fi
15907 }%
15908 }%
15909 \long\def\@footnotetext#1{%
15910 \H@@footnotetext{%
15911 \ifHy@nesting
15912 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15913 \else
15914 \Hy@raisedlink{%
15915 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15916 }%
15917 \let\@currentHlabel\Hy@footnote@currentHlabel
15918 \let\@currentHref\Hy@footnote@currentHref
15919 \let\@currentlabelname\@empty
15920 #1%
15921 \fi
15922 }%
15923 }%
15924 \long\def\@RTLfootnotetext#1{%
15925 \HRTL@RTLfootnotetext{%
15926 \ifHy@nesting
15927 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15928 \else
15929 \Hy@raisedlink{%
15930 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15931 }%
15932 \let\@currentHlabel\Hy@footnote@currentHlabel
15933 \let\@currentHref\Hy@footnote@currentHref
15934 \let\@currentlabelname\@empty
15935 #1%
15936 \fi
15937 }%
15938 }%
15939 \long\def\@LTRfootnotetext#1{%
15940 \HLTR@LTRfootnotetext{%
15941 \ifHy@nesting

```



```

15942     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15943 \else
15944     \Hy@raisedlink{%
15945         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15946     }%
15947     \let\@currentHlabel\Hy@footnote@currentHlabel
15948     \let\@currentHref\Hy@footnote@currentHref
15949     \let\@currentlabelname\@empty
15950     #1%
15951 \fi
15952 }%
15953 }%
15954 \ApplyPatchCodeToPackage{tabularx}{%
15955     \let\HyOrg@TX@endtabularx\TX@endtabularx
15956     \def\Hy@tabularx@hook{%
15957         \let\@footnotetext\H@footnotetext
15958         \let\@LTRfootnotetext\HLTR@LTRfootnotetext
15959         \let\@RTLfootnotetext\HRTL@RTLfootnotetext
15960         \let\@footnotemark\H@footnotemark
15961         \let\@mpfootnotetext\H@mpfootnotetext
15962         \let\@mpLTRfootnotetext\HLTR@mpLTRfootnotetext
15963         \let\@mpRTLfootnotetext\HRTL@mpRTLfootnotetext
15964     }%
15965     \begingroup
15966         \toks@expandafter{\TX@endtabularx}%
15967         \xdef\Hy@gtemp{%
15968             \noexpand\Hy@tabularx@hook
15969             \the\toks@
15970         }%
15971     \endgroup
15972     \let\TX@endtabularx\Hy@gtemp
15973 }%
15974 \ApplyPatchCodeToPackage{longtable}{%
15975     \CheckCommand{\LT@p@LTRftntext}[1]{%
15976         \edef\@tempa{%
15977             \the\LT@p@ftn
15978             \noexpand\LTRfootnotetext[\the\c@footnote]%
15979         }%
15980         \global\LT@p@ftn\expandafter{\@tempa{#1}}%
15981     }%
15982     \long\def\LT@p@LTRftntext#1{%
15983         \edef\@tempa{%
15984             \the\LT@p@ftn
15985             \begingroup
15986                 \noexpand\c@footnote=\the\c@footnote\relax
15987                 \noexpand\protected@xdef\noexpand\@thefnmark{%
15988                     \noexpand\thempfn
15989                 }%
15990                 \noexpand\Hy@LT@LTRfootnotetext{%
15991                     \Hy@footnote@currentHref
15992                 }%
15993             }%
15994             \global\LT@p@ftn\expandafter{%
15995                 \@tempa{#1}%

```



```

15996         \endgroup
15997     }%
15998 }%
15999 \long\def\Hy@LT@LTRfootnotetext#1#2{%
16000     \HLTR@@LTRfootnotetext{%
16001         \ifHy@nesting
16002             \hyper@@anchor{#1}{#2}%
16003         \else
16004             \Hy@raisedlink{%
16005                 \hyper@@anchor{#1}{\relax}%
16006             }%
16007             \def\@currentHref{#1}%
16008             \let\@currentlabelname\@empty
16009             #2%
16010         \fi
16011     }%
16012 }%
16013 \CheckCommand{\LT@p@RTLftntext}[1]{%
16014     \edef\@tempa{%
16015         \the\LT@p@ftn
16016         \noexpand\RTLfootnotetext[\the\c@footnote]%
16017     }%
16018     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16019 }%
16020 \long\def\LT@p@RTLftntext#1{%
16021     \edef\@tempa{%
16022         \the\LT@p@ftn
16023         \begingroup
16024             \noexpand\c@footnote=\the\c@footnote\relax
16025             \noexpand\protected@xdef\noexpand\@thefnmark{%
16026                 \noexpand\thempfn
16027             }%
16028             \noexpand\Hy@LT@RTLfootnotetext{%
16029                 \Hy@footnote@currentHref
16030             }%
16031         }%
16032         \global\LT@p@ftn\expandafter{%
16033             \@tempa{#1}%
16034         \endgroup
16035     }%
16036 }%
16037 \long\def\Hy@LT@RTLfootnotetext#1#2{%
16038     \HRTL@@RTLfootnotetext{%
16039         \ifHy@nesting
16040             \hyper@@anchor{#1}{#2}%
16041         \else
16042             \Hy@raisedlink{%
16043                 \hyper@@anchor{#1}{\relax}%
16044             }%
16045             \def\@currentHref{#1}%
16046             \let\@currentlabelname\@empty
16047             #2%
16048         \fi
16049     }%

```



```

16050 }%
16051 }%
16052 \ApplyPatchCodeToPackage{bidipoem}{%
16053 \long\def\bidipoem@p@ftntext#1{%
16054 \edef\@temp#1{%
16055 \the\bidipoem@p@ftn
16056 \begingroup
16057 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16058 \noexpand\protected@xdef\noexpand\@thefnmark{%
16059 \noexpand\thempfn
16060 }%
16061 \noexpand\Hy@bidipoem@footnotetext{%
16062 \Hy@footnote@currentHref
16063 }%
16064 }%
16065 \global\bidipoem@p@ftn\expandafter{%
16066 \@temp#1}%
16067 \endgroup
16068 }%
16069 }%
16070 \long\def\Hy@bidipoem@footnotetext#1#2{%
16071 \H@@footnotetext{%
16072 \ifHy@nesting
16073 \hyper@@anchor{#1}{#2}%
16074 \else
16075 \Hy@raisedlink{%
16076 \hyper@@anchor{#1}{\relax}%
16077 }%
16078 \def\@currentHref{#1}%
16079 \let\@currentlabelname\@empty
16080 #2%
16081 \fi
16082 }%
16083 }%
16084 \long\def\bidipoem@p@LTRftntext#1{%
16085 \edef\@tempxi{%
16086 \the\bidipoem@p@ftn
16087 \begingroup
16088 \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16089 \noexpand\protected@xdef\noexpand\@thefnmark{%
16090 \noexpand\thempfn
16091 }%
16092 \noexpand\Hy@bidipoem@LTRfootnotetext{%
16093 \Hy@footnote@currentHref
16094 }%
16095 }%
16096 \global\bidipoem@p@ftn\expandafter{%
16097 \@tempxi}%
16098 \endgroup
16099 }%
16100 }%
16101 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
16102 \HLTR@LTRfootnotetext{%
16103 \ifHy@nesting

```



```

16104         \hyper@@anchor{#1}{#2}%
16105     \else
16106         \Hy@raisedlink{%
16107             \hyper@@anchor{#1}{\relax}%
16108         }%
16109         \def\@currentHref{#1}%
16110         \let\@currentlabelname\@empty
16111         #2%
16112     \fi
16113 }%
16114 }%
16115     \long\def\bidipoem@p@RTLftntext#1{%
16116     \edef\@tempxi{%
16117         \the\bidipoem@p@ftn
16118         \begingroup
16119             \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16120             \noexpand\protected@xdef\noexpand\@thefnmark{%
16121                 \noexpand\thempfn
16122             }%
16123             \noexpand\Hy@bidipoem@RTLfootnotetext{%
16124                 \Hy@footnote@currentHref
16125             }%
16126         }%
16127         \global\bidipoem@p@ftn\expandafter{%
16128             \@tempxi{#1}%
16129         \endgroup
16130     }%
16131 }%
16132 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
16133     \HRTL@@RTLfootnotetext{%
16134         \ifHy@nesting
16135             \hyper@@anchor{#1}{#2}%
16136         \else
16137             \Hy@raisedlink{%
16138                 \hyper@@anchor{#1}{\relax}%
16139             }%
16140             \def\@currentHref{#1}%
16141             \let\@currentlabelname\@empty
16142             #2%
16143         \fi
16144     }%
16145 }%
16146 }%
16147 \let\HyOrg@maketitle\maketitle
16148 \def\maketitle{%
16149     \let\Hy@saved@footnotemark\@footnotemark
16150     \let\Hy@saved@footnotetext\@footnotetext
16151     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
16152     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
16153     \let\@footnotemark\H@@footnotemark
16154     \let\@footnotetext\H@@footnotetext
16155     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
16156     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
16157     \ifnextchar[\Hy@maketitle@optarg{% ]

```



```

16158     \HyOrg@maketitle
16159     \Hy@maketitle@end
16160 }%
16161 }%
16162 \def\Hy@maketitle@optarg[#1]{%
16163     \HyOrg@maketitle[{#1}]%
16164     \Hy@maketitle@end
16165 }%
16166 \def\Hy@maketitle@end{%
16167     \ifx\@footnotemark\H@@footnotemark
16168         \let\@footnotemark\Hy@saved@footnotemark
16169     \fi
16170     \ifx\@footnotetext\H@@footnotetext
16171         \let\@footnotetext\Hy@saved@footnotetext
16172     \fi
16173     \ifx\@RTLfootnotetext\HRTL@RTLfootnotetext
16174         \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
16175     \fi
16176     \ifx\@LTRfootnotetext\HLTR@LTRfootnotetext
16177         \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
16178     \fi
16179 }%
16180 \def\realfootnote{%
16181     \@ifnextchar[\@xfootnote{%
16182         \stepcounter{\@mpfn}%
16183         \protected@xdef\@thefnmark{\thempfn}%
16184         \H@@footnotemark\H@@footnotetext
16185     }%
16186 }%
16187 \fi
16188 \def\Hy@BeginAnnot#1{%
16189     \ifmmode\else\beginL\fi%
16190     \global\advance\c@Hy@AnnotLevel\@ne
16191     \ifnum\c@Hy@AnnotLevel=\@ne
16192         #1%
16193     \fi
16194 }
16195 \def\Hy@endAnnot{%
16196     \ifnum\c@Hy@AnnotLevel=\@ne
16197         \Hy@endcolorlink
16198         \@pdfm@mark{eann}%
16199     \fi
16200     \global\advance\c@Hy@AnnotLevel\m@ne
16201     \ifmmode\else\endL\fi%
16202 }
16203 \def\hyper@link#1#2#3{%
16204     \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi%
16205 }
16206 \def\hyper@linkfile#1#2#3{%
16207     \leavevmode
16208     \Hy@BeginAnnot{%
16209         \def\Hy@pstringF{#2}%
16210         \Hy@CleanupFile\Hy@pstringF
16211         \Hy@pstringdef\Hy@pstringF\Hy@pstringF

```



```

16212 \Hy@pstringdef\Hy@pstringD{#3}%
16213 \Hy@MakeRemoteAction
16214 \@pdfm@mark{%
16215     bann<<%
16216         /Type/Annot%
16217         /Subtype/Link%
16218         \ifHy@pdfa /F 4\fi
16219         \Hy@setpdfborder
16220         \ifx\@filebordercolor\relax
16221         \else
16222             /C[\@filebordercolor]%
16223         \fi
16224         /A<<%
16225             /S/GoToR%
16226             /F(\Hy@pstringF)%
16227             /D%
16228             \ifx\#3\%
16229                 [\Hy@href@page\pdfremotestartview]%
16230             \else
16231                 (\Hy@pstringD)%
16232             \fi
16233             \Hy@SetNewWindow
16234             \Hy@href@nextactionraw
16235         >>%
16236     >>%
16237 }%
16238 \Hy@colorlink\@filecolor
16239 }%
16240 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16241 \Hy@EndAnnot
16242 }
16243 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
16244 \leavevmode
16245 \Hy@BeginAnnot{%
16246     \Hy@pstringdef\Hy@pstringF{#1}%
16247     \Hy@pstringdef\Hy@pstringP{#3}%
16248     \@pdfm@mark{%
16249         bann<<%
16250             /Type/Annot%
16251             /Subtype/Link%
16252             \ifHy@pdfa /F 4\fi
16253             \Hy@setpdfborder
16254             \ifx\@runbordercolor\relax
16255             \else
16256                 /C[\@runbordercolor]%
16257             \fi
16258             /A<<%
16259                 /F(\Hy@pstringF)%
16260                 /S/Launch%
16261                 \Hy@SetNewWindow
16262                 \ifx\#3\%
16263                 \else
16264                     /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
16265                 \fi

```





```

16266         \Hy@href@nextactionraw
16267         >>%
16268         >>%
16269     }%
16270     \Hy@colorlink\@runcolor
16271 }%
16272 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16273 \Hy@EndAnnot
16274 }
16275 \def\hyper@linkurl#1#2{%
16276     \leavevmode
16277     \Hy@BeginAnnot{%
16278         \Hy@pstringdef\Hy@pstringURI{#2}%
16279         \@pdfm@mark{%
16280             bann<<%
16281             /Type/Annot%
16282             /Subtype/Link%
16283             \ifHy@pdfa /F 4\fi
16284             \Hy@setpdfborder
16285             \ifx\@urlbordercolor\relax
16286             \else
16287                 /C[\@urlbordercolor]%
16288             \fi
16289             /A<<%
16290             /S/URI%
16291             /URI(\Hy@pstringURI)%
16292             \ifHy@href@ismap
16293                 /IsMap true%
16294             \fi
16295             \Hy@href@nextactionraw
16296             >>%
16297             >>%
16298         }%
16299         \Hy@colorlink\@urlcolor
16300     }%
16301     \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16302     \Hy@EndAnnot
16303 }
16304 \def\Acrobatmenu#1#2{%
16305     \Hy@Acrobatmenu{#1}{#2}{%
16306         \Hy@BeginAnnot{%
16307             \EdefEscapeName\Hy@temp@menu{#1}%
16308             \@pdfm@mark{%
16309                 bann<<%
16310                 /Type/Annot%
16311                 /Subtype/Link%
16312                 \ifHy@pdfa /F 4\fi
16313                 \Hy@setpdfborder
16314                 \ifx\@menubordercolor\relax
16315                 \else
16316                     /C[\@menubordercolor]%
16317                 \fi
16318                 /A<<%
16319                 /S/Named%

```



```

16320          /N/\Hy@temp@menu
16321          \Hy@href@nextactionraw
16322          >>%
16323          >>%
16324          }%
16325          \Hy@colorlink\@menucolor
16326          }%
16327          \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16328          \Hy@EndAnnot
16329          }%
16330      }
16331      \def\hyper@natlinkstart#1{%
16332          \Hy@backout{#1}%
16333          \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
16334          \def\hyper@nat@current{#1}%
16335      }
16336      \def\hyper@natlinkend{%
16337          \if@RTL\endR\fi\hyper@linkend
16338      }
16339      \def\hyper@natlinkbreak#1#2{%
16340          \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
16341      }%
16342      }
16343      \pdfstringdefDisableCommands{%
16344          \let\LRE\@firstofone
16345          \let\LR\@firstofone
16346          \let\RLE\@firstofone
16347          \let\RL\@firstofone
16348          \def\XeTeX{Xe\TeX}%
16349          \def\XeLaTeX{Xe\LaTeX}%
16350      }
16351      \bidi@patchcmd\@TextField{%
16352          \@pdfm@mark
16353      }{%
16354          \if@RTL
16355              \hskip\Fld@width
16356          \fi
16357          \@pdfm@mark
16358      }{}{}
16359      \bidi@patchcmd\@TextField{%
16360          \unhbox
16361      }{%
16362          \if@RTL
16363              \hskip-\Fld@width
16364          \fi
16365          \unhbox
16366      }{}{}
16367      \bidi@patchcmd\@@Radio{%
16368          \@pdfm@mark
16369      }{%
16370          \if@RTL
16371              \hskip\Fld@width
16372          \fi
16373          \@pdfm@mark

```



```

16374 }-{}
16375 \bidi@patchcmd\@@Radio{%
16376   \unhcopy
16377 }{%
16378   \if@RTL
16379     \hskip-\Fld@width
16380   \fi
16381   \unhcopy
16382 }-{}
16383 \bidi@patchcmd\@Submit{%
16384   \@pdfm@mark
16385 }{%
16386   \if@RTL
16387     \null
16388     \hskip\wd\pdfm@box
16389   \fi
16390   \@pdfm@mark
16391 }-{}
16392 \bidi@patchcmd\@Submit{%
16393   \unhbox
16394 }{%
16395   \if@RTL
16396     \hskip-\wd\pdfm@box
16397   \fi
16398   \unhbox
16399 }-{}
16400 \bidi@patchcmd\@Reset{%
16401   \@pdfm@mark
16402 }{%
16403   \if@RTL
16404     \null
16405     \hskip\wd\pdfm@box
16406   \fi
16407   \@pdfm@mark
16408 }-{}
16409 \bidi@patchcmd\@Reset{%
16410   \unhbox
16411 }{%
16412   \if@RTL
16413     \hskip-\wd\pdfm@box
16414   \fi
16415   \unhbox
16416 }-{}

```

## 105 File `imsproc-xetex-bidi.def`

```

16417 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imsgproc class fo
16418 \newenvironment{thebibliography}[1]{%
16419   \@bibtitlestyle
16420   \normalfont\bibliofont\labelsep .5em\relax
16421   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\empty
16422   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16423   \bidi@thebibliography@font@hook
16424   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}}%

```



```

16425 \leftmargin\labelwidth \advance\leftmargin\labelsep
16426 \usecounter{enumiv}}}%
16427 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
16428 \sfcode\.\=\@m
16429 }{%
16430 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
16431 \endlist
16432 }
16433
16434 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
16435 \columnseprule\z@ \columnsep 35\p@
16436 \@indextitlestyle
16437 \thispagestyle{plain}%
16438 \let\item\@idxitem
16439 \parindent\z@ \parskip\z@\@plus.3\p@\relax
16440 \if@RTL\raggedleft\else\raggedright\fi
16441 \hyphenpenalty\@M
16442 \footnotesize}
16443 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
16444 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
16445 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
16446
16447 \def\right@footnoterule{%
16448 \kern-.4\p@
16449 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
16450 \kern11\p@\kern-\footnotesep}
16451 \def\left@footnoterule{\kern-.4\p@
16452 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
16453 \def\@makefnmark{%
16454 \leavevmode
16455 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
16456 }
16457
16458 \def\part{\@startsection{part}{0}%
16459 \z@\{\linespacing\@plus\linespacing\}.5\linespacing}%
16460 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
16461 \def\tocline#1#2#3#4#5#6#7{\relax
16462 \ifnum #1>\c@tocdepth % then omit
16463 \else
16464 \par \addpenalty\@secpenalty\addvspace{#2}%
16465 \begingroup \hyphenpenalty\@M
16466 \@ifempty{#4}{%
16467 \@tempdima\csname r@tocindent\number#1\endcsname\relax
16468 }{%
16469 \@tempdima#4\relax
16470 }%
16471 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else
16472 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
16473 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
16474 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16475 \nobreak
16476 \endgroup
16477 \fi}
16478 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}

```



```

16479 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
16480 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
16481 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
16482 \def\maketitle{\par
16483   \@topnum\z@ % this prevents figures from falling at the top of page 1
16484   \@setcopyright
16485   \thispagestyle{firstpage}% this sets first page specifications
16486   \uppercase\nonmath\shorttitle
16487   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
16488   \else \andify\shortauthors
16489   \fi
16490   \@maketitle@hook
16491   \begingroup
16492   \@maketitle
16493   \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
16494   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
16495   \edef\@tempa{%
16496     \@nx\markboth{\the\toks4
16497       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
16498   \@tempa
16499   \endgroup
16500   \c@footnote\z@
16501   \cleartopmattertags
16502 }

```

## 106 File leqno-xetex-bidi.def

```

16503 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
16504 \renewcommand\@eqnnum{\hbxt@.01\p@}%
16505   \rlap{\hskip -\displaywidth
16506     {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR}}

```

## 107 File letter-xetex-bidi.def

```

16507 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
16508 \renewcommand*\@opening[1]{\ifx\@empty\fromaddress
16509   \thispagestyle{firstpage}%
16510   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
16511   \else % home address
16512     \thispagestyle{empty}%
16513     {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
16514       \fromaddress \*[2\parskip]%
16515       \@date \end{tabular}\par}%
16516   \fi
16517   \vspace{2\parskip}%
16518   {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
16519   \vspace{2\parskip}%
16520   #1\par\nobreak}
16521 \renewcommand\left@footnoterule{%
16522   \kern-\p@
16523   \hrule \@width .4\columnwidth
16524   \kern .6\p@}
16525 \renewcommand\right@footnoterule{%
16526   \kern-\p@

```



```

16527 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16528 \kern .6\p@}

```

## 108 File lettrine-xetex-bidi.def

```

16529 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine packag
16530 \RemoveFromHook{begindocument}[lettrine]
16531 \AtBeginDocument[lettrine]{%
16532   \if\DefaultOptionsFile\relax
16533   \else
16534     \InputIfFileExists{\DefaultOptionsFile}%
16535     {%
16536       {\PackageWarning{lettrine.sty}%
16537         {File \DefaultOptionsFile\space not found}%
16538       }%
16539   \fi
16540   \let\ifL@RTL\if@RTL
16541 }

```

## 109 File lineno-xetex-bidi.def

```

16542 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package fo
16543 \bidi@patchcmd{\MakeLineNo}{%
16544   \hb@xt@\z@{\makeLineNumber}%
16545 }{%
16546   \hboxL to \z@{\makeLineNumber}%
16547 }{}{}
16548
16549 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
16550   \if@RTL
16551     \hb@xt@\linenumberwidth{\LineNumber\hss}%
16552   \else
16553     \LineNumber
16554   \fi
16555 }{}{}
16556
16557 \bidi@patchcmd{\makeLineNumberRight}{%
16558   \hb@xt@\linenumberwidth{\hss\LineNumber}%
16559 }{%
16560   \if@RTL
16561     \LineNumber
16562   \else
16563     \hb@xt@\linenumberwidth{\hss\LineNumber}%
16564   \fi
16565 }{}{}
16566
16567 \bidi@AfterPreamble{%
16568   \if@RTLmain
16569     \rightlinenumbers*
16570   \else
16571     \leftlinenumbers*
16572   \fi
16573   \@ifpackagewith{lineno}{left}{%
16574     \leftlinenumbers*

```



```

16575 }{}
16576 \@ifpackagewith{lineno}{right}{%
16577   \rightlinenumbers*
16578 }{}
16579 \@ifpackagewith{lineno}{switch}{%
16580   \if@RTLmain
16581     \switchlinenumbers*%
16582   \else
16583     \switchlinenumbers
16584   \fi
16585 }{}
16586 \@ifpackagewith{lineno}{switch*}{%
16587   \if@RTLmain
16588     \switchlinenumbers
16589   \else
16590     \switchlinenumbers*%
16591   \fi
16592 }{}
16593 }
16594

```

## 110 File listings-xetex-bidi.def

```

16595 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
16596 \lst@Key{captiondirection}{textdirection}{%
16597   \lstKV@SwitchCases{#1}%
16598   {textdirection:\\%
16599     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
16600     LTR:\chardef\bidi@lst@caption@direction\z@%
16601   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16602
16603 \lst@Key{captionscript}{textscript}{%
16604   \lstKV@SwitchCases{#1}%
16605   {textscript:\\%
16606     latin:\chardef\bidi@lst@caption@script\@ne\\%
16607     nonlatin:\chardef\bidi@lst@caption@script\z@%
16608   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16609
16610 \newcommand*\bidi@lst@ensure@caption@direction[2]{%
16611   \@ifundefined{bidi@lst@caption@direction}{-}{%
16612     \ifnum\bidi@lst@caption@direction=\z@%
16613       #1%
16614     \else%
16615       \ifnum\bidi@lst@caption@direction=\@ne%
16616         #2%
16617       \fi%
16618     \fi%
16619   }}
16620
16621 \newcommand*\bidi@lst@ensure@caption@script[2]{%
16622   \@ifundefined{bidi@lst@caption@script}{-}{%
16623     \ifnum\bidi@lst@caption@script=\z@%
16624       #1%
16625     \else%

```



```

16626         \ifnum\@bidi@lst@caption@script=\@one%
16627             #2%
16628         \fi%
16629     \fi%
16630 }}
16631
16632 \long\def\@bidi@lst@makecaption#1#2{%
16633     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16634     \vskip\abovecaptionskip
16635     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16636     \sbox\@tempboxa{%
16637         \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
16638         #1: #2%
16639         \bidi@lst@ensure@caption@direction{\endL}{\endR}%
16640     }%
16641     \ifdim \wd\@tempboxa >\hsize
16642         #1: #2\par
16643     \else
16644         \global \@minipagefalse
16645         \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16646     \fi
16647     \vskip\belowcaptionskip}%
16648 \def\lst@makecaption{\@bidi@lst@makecaption}
16649 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
16650 \bidi@AtEndPreamble{%
16651     \bidi@patchcmd{\lst@MakeCaption}{%
16652         \ifx #1t%
16653             \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16654                 \expandafter\refstepcounter
16655             \fi {lstlisting}%
16656     }{%
16657         \ifx #1t%
16658             \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16659             \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16660                 \expandafter\refstepcounter
16661             \fi {lstlisting}%
16662             \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
16663     }}}%
16664 \bidi@patchcmd{\lst@MakeCaption}{%
16665     \addcontentsline{lol}{lstlisting}%
16666     {\protect\numberline{\thelstlisting}\lst@@caption}%
16667 }{%
16668 \begingroup%
16669     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16670     \addcontentsline{lol}{lstlisting}%
16671     {\protect\numberline{\thelstlisting}\lst@@caption}%
16672 \endgroup%
16673 }}}%
16674 }
16675 \ApplyPatchIfPackageLoaded{caption}{%
16676     \AtBeginCaption{%
16677         \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16678         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16679     }

```





```

16680 \let\@bidi@lst@makecaption\caption@makecaption%
16681 \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
16682 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\empty}%
16683 }{%
16684 \AtBeginDocument{%
16685 \ifundefined{captionlabelfalse}{}%
16686 \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\empty}}%
16687 \ifundefined{caption@startrue}{}%
16688 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\empty}}%
16689 }%
16690 }
16691 \AtBeginDocument{
16692 \ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{%
16693 \lst@ifnumberbychapter
16694 \gdef\thelstlisting%
16695 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
16696 \else
16697 \gdef\thelstlisting{\@arabic\c@lstlisting}
16698 \fi}

```

## 111 File longtable-xetex-bidi.def

```

16699 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable pack
16700 \ExplSyntaxOn
16701 \def\LT@array[#1]#2{%
16702 \UseTaggingSocket{tbl/init}
16703 \tl_if_empty:eTF { \LTcaptive }
16704 {
16705 \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
16706 }
16707 {
16708 \@kernel@refstepcounter{\LTcaptive}\stepcounter{LT@tables}
16709 \tl_gset:Ne \@currentHref {\LTcaptive.\cs_if_exist_use:c {theH\LTcaptive}}
16710 }
16711 \tbl_gzero_row_count:
16712 \UseTaggingSocket{tbl/longtable/init}
16713 \if l#1%
16714 \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
16715 \else\if r#1%
16716 \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
16717 \else\if c#1%
16718 \LTleft\fill \LTright\fill
16719 \fi\fi\fi
16720 \let\LT@mc@multicolumn
16721 \let\LT@@tabarray\@tabarray
16722 \let\LT@@hl\hline
16723 \def\@tabarray{%
16724 \let\hline\LT@@hl
16725 \LT@@tabarray}%
16726 \let\\\LT@tabularcr
16727 \let\tabularnewline\\%
16728 \def\newpage{\noalign{\break}}%
16729 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
16730 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%

```



```

16731 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
16732 \@tempdima\ht\strutbox
16733 \let\@endpbox\LT@endpbox
16734 \ifx\extrarowheight\@undefined
16735   \let\@acol\@tabacol
16736   \let\@classz\@tabclassz \let\@classiv\@tabclassiv
16737   \def\@startpbox{\vtop\LT@startpbox}%
16738   \let\@@startpbox\@startpbox
16739   \let\@@endpbox\@endpbox
16740   \let\LT@LL@FM@cr\@tabularcr
16741 \else
16742   \advance\@tempdima\extrarowheight
16743   \colsep\@tabcolsep
16744   \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
16745 \fi
16746 \setbox\@arstrutbox\hbox{\vrule
16747   \@height \arraystretch \@tempdima
16748   \@depth \arraystretch \dp \strutbox
16749   \@width \z@}%
16750 \let\@sharp#\let\protect\relax
16751 \begingroup
16752   \mkpream{#2}%
16753   \tbl_count_table_cols:
16754   \xdef\LT@bchunk{%
16755     \tbl_inbetween_rows:
16756     \global\advance\c@LT@chunks\@ne
16757     \global\LT@rows\z@\setbox\z@\vbox\bgroup
16758     \LT@setprevdepth
16759     \tabskip\LTleft \noexpand\halign to\hsize\bgroup
16760     \tabskip\z@ \@arstrut
16761     \UseTaggingSocket{tbl/row/begin}%
16762     \tbl_init_cell_data_for_row:
16763     \@preamble \tabskip\LTRight \cr}%
16764   \endgroup
16765   \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
16766   \LT@make@row
16767   \m@th\let\par\@empty
16768   \everycr{%
16769     \noalign{%
16770       \tbl_trace:n {--longtable-->~chunk~row:~ \the\LT@rows \space
16771         row:~ \the\g__tbl_row_int \space
16772         column:~ \the\g__tbl_col_int
16773       }
16774       \tbl_if_row_was_started:T
16775       {
16776         \UseTaggingSocket{tbl/row/end}
16777         \tbl_inbetween_rows:
16778       }
16779       \int_compare:nNnT \LT@rows < \LT@chunksz
16780       { \tbl_gincr_row_count: } % next is row about to start
16781     }%
16782   }%
16783   \lineskip\z@\baselineskip\z@
16784   \LT@bchunk}

```



```

16785 \ExplSyntaxOff
16786 \def\LT@makecaption#1#2#3{%
16787   \LT@mc\LT@cols c{\hbox to\z@{\hss\parbox[t]{\LTcapwidth{%
16788     \reset@font
16789     \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}}%
16790     \ifdim\wd\@tempboxa>\hsize
16791       #1{#2: }#3%
16792     \else
16793       \hbox to\hsize{\hfil\box\@tempboxa\hfil}}%
16794     \fi
16795   \endgraf\vskip\baselineskip}%
16796   \hss}}
16797 \ApplyPatchCodeToPackage{caption}{%
16798   \renewcommand\LT@makecaption[3]{%
16799     \caption@LT@make{%
16800       \caption@LT@settype\LTcapttype
16801       \caption@LT@setup
16802       \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
16803       \caption@startrue#1\caption@starfalse
16804       \caption@prepare@stepcounter\LTcapttype
16805       \caption@begin\LTcapttype
16806       \caption@normalsize
16807       \vskip-\ht\strutbox
16808       \caption@ifdefined\FBifcapttop{%
16809         \let\caption@belowskip\@empty}{}%
16810       \caption@make@above
16811       \caption@make{#2}{#3}\endgraf
16812       \caption@make@below
16813     \caption@end}}%
16814 }
16815 \def\LT@startpbox#1{%
16816   \bgroup
16817   \color@begingroup
16818   \let\@footnotetext\LT@p@ftntext
16819   \let\@LTRfootnotetext\LT@p@LTRftntext
16820   \let\@RTLfootnotetext\LT@p@RTLftntext
16821   \setlength\hsize{#1}%
16822   \@arrayparboxrestore
16823   \everypar{%
16824     \vrule \@height \ht\@arstrutbox \@width \z@
16825     \everypar{}}%
16826   }
16827 \long\def\LT@p@LTRftntext#1{%
16828   \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
16829   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16830 \long\def\LT@p@RTLftntext#1{%
16831   \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
16832   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16833 \def\LT@output{%
16834   \ifnum\outputpenalty <-\@Mi
16835     \ifnum\outputpenalty > -\LT@end@pen
16836       \LT@err{floats and marginpars not allowed in a longtable}\@ehc
16837     \else
16838       \setbox\z@\vbox{\unvbox\@cc1v}%

```



```

16839 \ifdim \ht\LT@lastfoot>\ht\LT@foot
16840 \dimen@pagegoal
16841 \advance\dimen@ht\LT@foot
16842 \advance\dimen@-\ht\LT@lastfoot
16843 \ifdim\dimen@<\ht\z@
16844 \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
16845 \@makecol
16846 \@outputpage
16847 \global\ysize\@colroom
16848 \setbox\z@\vbox{\box\LT@head}%
16849 \fi
16850 \fi
16851 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16852 \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
16853 \UseTaggingSocket{tbl/longtable/foot}
16854 \if@RTLtab\egroup\endR\egroup\fi
16855 \fi
16856 \else
16857 \setbox\@cclv\vbox{%
16858 \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16859 \unvbox\@cclv\copy\LT@foot\vss
16860 \if@RTLtab\egroup\endR\egroup\fi
16861 }%
16862 \UseTaggingSocket{tbl/longtable/foot}
16863 \@makecol
16864 \@outputpage
16865 \global\ysize\@colroom
16866 \copy\LT@head\nobreak
16867 \fi}

```

## 112 File lscape-xetex-bidi.def

```

16868 \ProvidesFile{lscape-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscape package fo
16869 \RequirePackage{graphicx}
16870 \bidi@patchcmd{LS@rot}{\rotatebox{90}}{\box\@outputbox}}{%
16871 \if@RTL
16872 \rotatebox[origin=br]{-90}}{\box\@outputbox}%
16873 \else
16874 \rotatebox{90}}{\box\@outputbox}%
16875 \fi
16876 }{}{}
16877
16878 \g@addto@macro{\landscape}{%
16879 \if@bidi@csdef{bidi@columnwidth}{%
16880 \bidi@columnwidth\columnwidth
16881 }{}%
16882 \let\bidi@left@footnoterule\left@footnoterule
16883 \let\bidi@right@footnoterule\right@footnoterule
16884 \def\left@footnoterule{%
16885 \if@RTL
16886 \bidi@right@footnoterule
16887 \else
16888 \bidi@left@footnoterule
16889 \fi

```



```

16890 }%
16891 \def\right@footnoterule{%
16892   \if@RTL
16893     \bidi@left@footnoterule
16894   \else
16895     \bidi@right@footnoterule
16896   \fi
16897 }%
16898 }

```

## 113 File mathtools-xetex-bidi.def

```

16899 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools pack
16900 \RequirePackage{graphicx}
16901 \MHInternalSyntaxOn
16902 \def\MT_define_tagform:nwnn #1[#2]#3#4{
16903   \@namedef{MT_tagform_#1:n}##1
16904     {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@@italiccorr#4
16905 }
16906 \renewtagform{default}{\{()\}}
16907 \MHInternalSyntaxOff

```

## 114 File mdframed-xetex-bidi.def

```

16908 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed packag
16909 \newif\if@bidi@mdf@RTL
16910 \def\mdf@lrbox#1{%
16911   \mdf@patchamsthm%patch amsthm
16912   \if@RTL\@bidi@mdf@RTLtrue\fi%
16913   \@RTLfalse%
16914   \setbox#1\vbox\bgroup%
16915   \color@begingroup%
16916   \if@bidi@mdf@RTL\@RTLtrue\fi%
16917   \mdf@horizontalmargin@equation%
16918   \columnwidth=\hsize%
16919   \textwidth=\hsize%
16920   \let\if@nobreak\iffalse%
16921   \let\if@noskipsec\iffalse%
16922   \let\par\@@par%
16923   \let\-\@dischyph%
16924   \let'\@acci\let'\@accii\let\=\@acciii%
16925   \parindent\z@ \parskip\z@skip%
16926   \linewidth\hsize%
16927   \@totalleftmargin\z@%
16928   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
16929   \parfillskip\@flushglue \lineskip\normallineskip%
16930   \baselineskip\normalbaselineskip%
16931 %% \sloppy%
16932 \let\\\@normalcr%
16933 \mdf@par@local%New feature to restore parskip/parindent local in save box
16934 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
16935 \afterindentfalse%
16936 %\@afterheading%
16937 }

```



```

16938 \renewrobustcmd\mdfframetitleenv[1]{%
16939     \mdf@lrbox{\mdf@frametitlebox}%
16940     \mdf@frametitlealignment%
16941     \leavevmode{\color{\mdf@frametitlefontcolor}%
16942         \normalfont\mdf@frametitlefont{#1}
16943     \ifbool{\mdf@ignorelastdescenders}%
16944         {%
16945             \par\strut\par
16946             \unskip\unskip\setbox0=\lastbox
16947             \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
16948         }{}}%
16949     \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
16950     \endmdf@lrbox\relax%
16951     \mdf@ignorevbadness%
16952     \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
16953     \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
16954     \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
16955     \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
16956     \mdfframetitleboxtotalheight=\dimexpr
16957         \ht\mdf@frametitlebox
16958         +\dp\mdf@frametitlebox%
16959         +\mdf@frametitleaboveskip@length
16960         +\mdf@frametitlebelowskip@length
16961     \relax%
16962 }
16963
16964 \renewrobustcmd*\mdf@footnoteoutput{%
16965     \ifvoid\@mpfootins\else%
16966         \nobreak%
16967         \vskip\mdf@footnotedistance@length%
16968         \normalcolor%
16969         \bidi@mpfootnoterule%
16970         \unvbox\@mpfootins%
16971     \fi%
16972 }
16973
16974
16975 \renewrobustcmd*\mdf@footnoteinput{%
16976     \def\@mpfn{mpfootnote}%
16977     \def\thempfn{\thempfootnote}%
16978     \c@mpfootnote\z@%
16979     \let\@footnotetext\@mpfootnotetext%
16980     \let\@LTRfootnotetext\@mpLTRfootnotetext%
16981     \let\@RTLfootnotetext\@mpRTLfootnotetext%
16982 }

```

## 115 File media9-xetex-bidi.def

```

16983 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package fo
16984 \RequirePackage{bidi-media9}

```

## 116 File bidi-media9.sty

```

16985 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}

```



```

16986 {bidi fixes for media9 package for the XeTeX engine}
16987
16988 \keys_define:nn{media9/mbtn}{
16989   draft .code:n = {},
16990   final .code:n = {},
16991
16992   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
16993   tooltip .value_required:n = {true},
16994
16995   overface .code:n = {
16996     \sbox\l_mix_poster_box{
16997       \bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
16998       \mix_pdfxform:n{\l_mix_poster_box}
16999       \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
17000     },
17001     overface .value_required:n = {true},
17002
17003     downface .code:n = {
17004       \sbox\l_mix_poster_box{
17005         \bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17006         \mix_pdfxform:n{\l_mix_poster_box}
17007         \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
17008       },
17009       downface .value_required:n = {true},
17010
17011       3Dgotoview .code:n = {
17012         \tl_set:Nx\l_tmpa_tl{#1} %extract ref
17013         \regex_replace_once:nnN{([~:])+}??.*}{\1}\l_tmpa_tl
17014         \tl_trim_spaces:N\l_tmpa_tl
17015         \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17016           \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17017             \tl_set:Nx\l_tmpb_tl{#1} %extract idx
17018             \regex_replace_once:nnN{[~:]+}??}{\1}\l_tmpb_tl
17019             \tl_trim_spaces:N\l_tmpb_tl
17020             \tl_if_blank:VF\l_tmpb_tl{
17021               \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
17022                 \tl_set:Nx\l_mix_vidx_tl{/}\l_tmpb_tl}
17023             }{
17024               \regex_match:nVTF{^d+$}\l_tmpb_tl{
17025                 \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl}
17026             }{
17027               \regex_replace_once:nnN{^(\s*)}{\1}\l_tmpb_tl
17028               \regex_replace_once:nnN{(\s*)$}{\1}\l_tmpb_tl
17029               \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
17030             }
17031           }
17032         }
17033         \mix_pdfobj:nnn{}{dict}{
17034           /S/JavaScript/JS~(
17035             if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17036             if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17037               annotRM['\l_tmpa_tl']=
17038               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17039             }

```



```

17040         annotRM['\l_tmpa_tl'].activated=true;
17041     )
17042     \tl_if_blank:VF\l_tmpb_tl{
17043         /Next~<<
17044         /S/GoTo3DView
17045         /TA~\tl_use:c{ann@\l_tmpa_tl}
17046         /V\l_mix_vidx_tl
17047         >>
17048     }
17049 }
17050 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17051 }
17052 }{
17053     \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17054     \cs_if_exist:NF\g_mix_refundefwarned_tl{
17055         \tl_new:N\g_mix_refundefwarned_tl
17056         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17057     }
17058 }
17059 },
17060 3Dgotoview .value_required:n = {true},
17061
17062 mediacommand .code:n = {
17063     \tl_set:Nx\l_tmpa_tl{#1}
17064     \regex_replace_once:nnN{([~:]+)??.*}{\1}\l_tmpa_tl %extract ref
17065     \tl_trim_spaces:N\l_tmpa_tl
17066     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17067         \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17068             \tl_set:Nx\l_tmpb_tl{#1}
17069             \regex_replace_once:nnN{([~:]+\~?)}{\1}\l_tmpb_tl
17070             \tl_trim_spaces:N\l_tmpb_tl
17071             \regex_replace_all:nnN{^{\|}\$}{\1}\l_tmpb_tl
17072             \tl_set:Nx\l_mix_cmd_tl{
17073                 \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
17074             \tl_trim_spaces:N\l_mix_cmd_tl
17075             \tl_set:Nx\l_mix_arg_tl{
17076                 \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
17077             \tl_trim_spaces:N\l_mix_arg_tl
17078             \mix_pdfobj:nnn{}{dict}{
17079                 /S/JavaScript/JS~(
17080                     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17081                     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17082                         annotRM['\l_tmpa_tl']=
17083                         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17084                     }
17085                     annotRM['\l_tmpa_tl'].activated=true;
17086                 )
17087                 \tl_if_blank:VF\l_mix_cmd_tl{
17088                     /Next~<<
17089                     /S/RichMediaExecute
17090                     /TA~\tl_use:c{ann@\l_tmpa_tl}
17091                     /TI~\tl_use:c{main@\l_tmpa_tl}
17092                     /CMD~<<
17093                     /C~(\l_mix_cmd_tl)

```





```

17094         \tl_if_blank:VF\l_mix_arg_tl{
17095             /A~[\l_mix_arg_tl]
17096         }
17097     >>
17098     >>
17099     }
17100 }
17101 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17102 }
17103 }{
17104     \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17105     \cs_if_exist:NF\g_mix_refundefwarned_tl{
17106         \tl_new:N\g_mix_refundefwarned_tl
17107         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17108     }
17109 }
17110 },
17111 mediacommand .value_required:n = {true},
17112
17113 jsaction .code:n = {
17114     \tl_set:Nx\l_tmpa_tl{#1}
17115     \regex_match:nVTF{^[^{:}]+:.*$}\l_tmpa_tl{
17116         \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl %extract ref
17117         \tl_trim_spaces:N\l_tmpa_tl
17118     }{\tl_clear:N\l_tmpa_tl}
17119     \tl_set:Nx\l_tmpb_tl{#1}
17120     \tl_if_blank:VF\l_tmpa_tl{
17121         \tl_if_exist:cF{ann@\l_tmpa_tl}{
17122             \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17123             \cs_if_exist:NF\g_mix_refundefwarned_tl{
17124                 \tl_new:N\g_mix_refundefwarned_tl
17125                 \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17126             }
17127         }
17128         \regex_replace_once:nnN{[~:]+\:}{\1}\l_tmpb_tl
17129     }
17130     \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
17131     \tl_trim_spaces:N\l_tmpb_tl
17132     \tl_if_blank:VF\l_tmpb_tl{
17133         \mix_pdfobj:nnn{}{dict}{
17134             /S/JavaScript/JS~(
17135                 try{\l_tmpb_tl}catch(e){console.show();console.println(e)}))}
17136         \bool_lazy_and:nnT{
17137             \tl_if_exist_p:c{ann@\l_tmpa_tl}
17138         }{
17139             !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17140         }{
17141             \mix_pdfobj:nnn{}{dict}{
17142                 /S/JavaScript/JS~(
17143                     if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
17144                     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17145                         annotRM['\l_tmpa_tl']=
17146                         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17147                     }

```



```

17148         annotRM['\l_tmpa_tl'].activated=true;
17149     )
17150     \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
17151 }
17152 }
17153 \bool_if:nT{
17154     \bool_lazy_and_p:nn{
17155         \tl_if_exist_p:c{ann@\l_tmpa_tl}
17156     }{
17157         !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17158     }
17159     || !\tl_if_blank_p:V\l_tmpb_tl
17160 }{
17161     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17162 }
17163 },
17164 jsaction .value_required:n = {true},
17165
17166 unknown .code:n = {
17167     \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
17168 }
17169 }
17170
17171 \RenewDocumentCommand\includemedia{O{}}mm}{%#1 options, #2 text/image #3 media file
17172     \mix_uriend:
17173     \group_begin:
17174     \mix_beginLTR:
17175     \mode_leave_vertical:
17176     %empty stream as appearance dummy
17177     \cs_if_exist:NF\g_mix_appearance_tl{
17178         \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
17179         \mix_pdfxform:n{\l_mix_poster_box}
17180         \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
17181     }
17182     \mix_reset:
17183     \mix_uribegin: %treat URI characters correctly
17184     \keys_set:nn{media9/user}{#1}
17185     \mix_uriend:
17186     \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
17187     \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
17188     \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
17189     \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
17190     \tl_gtrim_spaces:N\g_mix_flashvars_tl
17191
17192     \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
17193
17194     %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
17195     %\hbox_set:Nn\l_mix_poster_box{#2}
17196     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17197     \mix_scale:n{\l_mix_poster_box}
17198     \bool_if:nT{
17199         \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
17200         \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
17201     }{

```



```

17202 \tl_gset:Nn\g_mix_usrpbtn_tl{none}
17203 }
17204 \bool_if:NTF\g_mix_usrdraft_bool{
17205   \tl_if_empty:NF\g_mix_usrlabel_tl{
17206     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
17207   }
17208   \tl_if_blank:oTF{#2}{
17209     \mix_uribegin: %treat URI characters correctly
17210     \mix_draftbox:n{\tl_to_str:n{#3}}
17211     \mix_uriend:
17212   }{
17213     \hbox_to_wd:nn{\g_mix_wd_tl}{
17214       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
17215       \box_use:N\l_mix_poster_box\hss
17216     }
17217   }
17218 }{
17219   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
17220     %attach script that switches off play button overlay upon activation
17221     \mix_pdfobj:nnn{}{stream}{
17222       {}{
17223         var~ocgs=host.getOCGs(host.pageNum);
17224         for(var~i=0;i<ocgs.length;i++){
17225           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17226             ocgs[i].state=false;
17227           }
17228         }
17229       }
17230     }
17231     \mix_pdfobj:nnn{}{dict}{
17232       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
17233     }
17234     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
17235     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
17236     %enforce plain playbutton overlay for XeTeX
17237     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
17238   }
17239   %embed main asset
17240   \mix_uribegin:
17241   \mix_embedasset:n{#3}
17242   \bool_if:nTF{
17243     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
17244   }{
17245     \bool_gset_true:N\g_mix_iiid_bool
17246     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
17247   }{
17248     \str_case_e:nnF{\l_mix_base_tl}{
17249       {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17250       {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17251       {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17252       {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17253       {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17254     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
17255   }

```



```

17256 \tl_gset:Nx\g_mix_mainasset_tl{\g_mix_lastasset_tl}
17257 \mix_uriend:
17258 %secondary assets (added by addresource)
17259 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
17260 \seq_map_inline:Nn\g_mix_script_seq{
17261   \mix_embedasset:n{##1}
17262   \tl_put_right:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl}
17263 }
17264 %attach 3D calculation script
17265 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
17266   \mix_embedasset:n{3Dmenu.js}
17267   \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
17268 }
17269 %create 3D views from file (option 3Dviews)
17270 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
17271   \tl_set:Nn\l_mix_level_tl{-1}
17272   \int_zero:N\l_mix_viewcnt_int
17273   \int_zero:N\l_mix_lineno_int
17274
17275   \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
17276   \ior_map_inline:Nn\l_mix_vfile_stream{
17277     \int_incr:N\l_mix_lineno_int
17278     \keys_set:nn{media9/views}{##1} %process input line
17279   }
17280   \ior_close:N\l_mix_vfile_stream
17281 }
17282 \bool_if:nT{ %create default 3D view if required
17283   \g_mix_iiid_bool &&
17284   (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
17285 }{
17286   \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
17287   \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
17288   \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
17289   \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
17290   \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
17291   \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
17292   \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
17293
17294   \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
17295   \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
17296   \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
17297   \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
17298
17299   \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
17300   \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
17301   \tl_clear:N\l_mix_naarray_tl
17302
17303   \bool_if:NF\l_mix_ciiw_bool{
17304     \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
17305     \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
17306   }
17307
17308   \tl_clear:N\l_mix_naarray_tl
17309   \tl_clear:N\l_mix_saarray_tl

```



```

17310     \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
17311
17312     \mix_view:n{Default}
17313     \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
17314
17315 }
17316 \mix_pdfobj:nnn{}{dict}{
17317   /Type/RichMediaInstance
17318   /Subtype/\g_mix_mainassetsub_tl
17319   /Asset~\g_mix_mainasset_tl
17320   \bool_if:NF\g_mix_iiid_bool{
17321     /Params~<<
17322     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
17323       /Foreground
17324     }{
17325       /Background
17326     }
17327     \tl_if_blank:VF\g_mix_flashvars_tl{
17328       /FlashVars~(\g_mix_flashvars_tl)
17329     }
17330     >>
17331   }
17332 }
17333 \tl_if_empty:NF\g_mix_usrlabel_tl{
17334   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
17335 }
17336 \mix_pdfobj:nnn{}{dict}{
17337   /Type/RichMediaConfiguration
17338   /Subtype/\g_mix_mainassetsub_tl
17339   /Instances~[\mix_pdflastobj:]
17340 }
17341 \mix_pdfobj:nnn{}{dict}{
17342   /Type/RichMediaContent
17343   /Assets~<</Names~[\g_mix_assets_tl]>>
17344   /Configurations~[\mix_pdflastobj:]
17345   \bool_if:NT{
17346     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
17347   }{
17348     /Views~[\l_mix_iiidviewarray_tl]
17349   }
17350 }
17351 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
17352 \bool_if:NT{
17353   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
17354 }{
17355   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
17356 }
17357 %determine floating window size
17358 \bool_if:NT\g_mix_opt_windowed_bool{
17359   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
17360 }
17361 \mix_pdfobj:nnn{}{dict}{
17362   /Activation~<<
17363   /Condition\g_mix_act_tl

```



```

17364 \bool_if:nT{
17365   \g_mix_iiid_bool &&
17366   !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
17367 }{%seems to work only with 3D content
17368   /Animation~<<
17369   /Subtype~\g_mix_playtpe_tl
17370   /PlayCount~\g_mix_playcnt_tl
17371   /Speed~\g_mix_playspd_tl
17372   >>
17373 }
17374 \bool_if:nT{
17375   \g_mix_iiid_bool && (
17376     \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
17377   )
17378 }{/View~\l_mix_dfltview_tl}
17379 /Presentation~<<
17380   /Transparent~\g_mix_transp_tl
17381   \bool_if:NTF\g_mix_opt_windowed_bool{
17382     /Style/Windowed
17383     /Window~<<
17384       /Width~<</Default~\tl_mix_fltd>>
17385       /Height~<</Default~\tl_mix_flht>>
17386       /Position~<<
17387       /HOffset~0/VOffset~0
17388       \str_case_e:nnF{\g_mix_winpos_tl}{
17389         {tl}{/VAlign/Near/HAlign/Near}
17390         {cl}{/VAlign/Center/HAlign/Near}
17391         {bl}{/VAlign/Far/HAlign/Near}
17392         {bc}{/VAlign/Far/HAlign/Center}
17393         {br}{/VAlign/Far/HAlign/Far}
17394         {cr}{/VAlign/Center/HAlign/Far}
17395         {tr}{/VAlign/Near/HAlign/Far}
17396         {tc}{/VAlign/Near/HAlign/Center}
17397       }{/HAlign/Center/VAlign/Center}
17398       >>
17399     >>
17400   }{
17401     /Style/Embedded
17402   }
17403   \bool_if:NTF\g_mix_iiid_bool{
17404     /Toolbar~\g_mix_tools_tl
17405     /NavigationPane~\g_mix_nav_tl
17406   }{
17407     /PassContextClick~\g_mix_contextclick_tl
17408   }
17409   >>
17410   \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
17411   >>
17412   /Deactivation~<</Condition\g_mix_deact_tl>>
17413 }
17414 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
17415 \tl_if_empty:NF\g_mix_usrlabel_tl{
17416   \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
17417 }

```



```

17418 % #1:width, #2:height, #3:depth, #4:content (key-value)
17419 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
17420 /Subtype/RichMedia
17421 /F~4
17422 /BS~<</W~0/S/S>>
17423 /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
17424 /NM~(\g_mix_label_tl)
17425 /AP~<</N~\g_mix_appearance_tl>>
17426 /RichMediaSettings~\l_mix_settings_tl
17427 /RichMediaContent~\l_mix_content_tl
17428 }
17429 \tl_if_empty:NF\g_mix_usrlabel_tl{
17430 \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
17431 \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
17432 \noexpand\the\g@mix@page@int}
17433 }
17434 \mix_pdfobj:nnn{}{dict}{
17435 /S/JavaScript/JS~(
17436 try{
17437 if(typeof(annotRM)=='undefined'){annotRM=new Array();}
17438 if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
17439 annotRM['\g_mix_label_tl']=
17440 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
17441 }
17442 \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
17443 if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
17444 var~ocgs=this.getOCGs(this.pageNum);
17445 for(var~i=0;i<ocgs.length;i++){
17446 if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
17447 var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
17448 }
17449 }
17450 }
17451 if(
17452 !annotRM['\g_mix_label_tl'].activated&&(
17453 app.viewerType=='Reader' ||
17454 app.viewerType=='Exchange' ||
17455 app.viewerType=='Exchange-Pro'
17456 )&&app.viewerVersion>=9
17457 ){
17458 ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
17459 }
17460 }
17461 }catch(e){}
17462 this.dirty=false;
17463 )
17464 }
17465 \mix_pdfannot:nnnn{0pt}{0pt}{0pt}{
17466 /Subtype/Widget
17467 /FT/Btn/Ff~65537/F~2
17468 /BS~<</W~0>>
17469 /T~(fd@\g_mix_label_tl)
17470 /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
17471 }

```



```

17472 \mix_appendtofields:n{\mix_pdflastann:}
17473 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
17474 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
17475   \hbox_to_wd:nn{\g_mix_wd_tl}{
17476     \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
17477   }
17478 }{%insert play button overlay
17479   \mix_insert_btnocg: %create OCG
17480   \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
17481   \group_begin:
17482   \cs_if_exist:NT\textdir{\textdir TLT}
17483   \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
17484   \box_move_down:nn{\g_mix_dp_tl}{
17485     \hbox_to_wd:nn{\g_mix_wd_tl}{
17486       \vbox_to_ht:nn{\g_mix_tt_tl}{
17487         \vss
17488         \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
17489         \box_use:N\l_mix_pbtn_box
17490         \ocgbase_oc_emc:
17491       }
17492     }
17493   }
17494   \group_end:
17495 }
17496 \int_gincr:N\g_mix_rmcnt_int
17497 }
17498 \mix_endLTR:
17499 \group_end:
17500 }
17501 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
17502 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
17503
17504 \RenewDocumentCommand\mediabutton{0{m}}{%#1 options, #2 normal button text
17505   \mix_urieend:
17506   \group_begin:
17507   \mix_beginLTR:
17508   \mode_leave_vertical:
17509   %reset various variables
17510   \tl_gclear:N\g_mix_overbtn_tl
17511   \tl_gclear:N\g_mix_downbtn_tl
17512   \tl_gclear:N\g_mix_btnactions_tl
17513   \tl_gclear:N\g_mix_tooltip_tl
17514   %process options
17515   \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
17516   \mix_uribegin: %treat URI characters correctly
17517   \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
17518   \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
17519   \mix_urieend:
17520   %normal button appearance
17521   %\hbox_set:Nn\l_mix_poster_box{#2}
17522   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17523   \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
17524   \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
17525   \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}

```





```

17526 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
17527 \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
17528 \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
17529 \mix_pdfxform:n{\l_mix_poster_box}
17530 \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
17531 %insert widget annotation
17532 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
17533 /Subtype/Widget
17534 /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
17535 \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
17536 /FT/Btn/Ff-65536
17537 \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
17538 /AP~<<
17539 /N~\g_mix_normalbtn_tl
17540 \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
17541 \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
17542 >>
17543 /MK~<<
17544 /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
17545 /I~\g_mix_normalbtn_tl
17546 \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
17547 \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
17548 >>
17549 /A~<<
17550 /S/JavaScript/JS~(app.focusRect=false;)
17551 %sequence of actions to perform
17552 \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
17553 >>
17554 }
17555 \mix_appendtofields:n{\mix_pdflastann:}
17556 \hbox_to_wd:nn{\width}{
17557 \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
17558 }
17559 \int_gincr:N\g_mix_mbtncnt_int
17560 }
17561 \mix_endLTR:
17562 \group_end:
17563 }
17564 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
17565 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
17566

```

## 117 File memoir-xetex-bidi.def

```

17567 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for
17568 \renewcommand{\keepthetitle}{%
17569 \@bsmtitleempty
17570 \global\let\thanks\relax
17571 \global\let\LTRthanks\relax
17572 \global\let\RTLthanks\relax
17573 \global\let\and\relax
17574 \global\let\andnext\relax
17575 \global\let\@thanks\@empty
17576 \global\let\@title\@empty

```



```

17577 \global\let\@author\@empty
17578 \global\let\@date\@empty}
17579 \renewcommand{\maketitle}{\par
17580 \beginingroup
17581 \@bsmarkseries
17582 \def\@makefnmark{\@textsuperscript{%
17583 \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
17584 \long\def\@makefntext##1{\makethanksmark ##1}
17585 \if@twocolumn
17586 \ifnum \col@number=\@ne
17587 \maketitle
17588 \else
17589 \twocolumn[\maketitle]%
17590 \fi
17591 \else
17592 \ifdim\pagetotal>z@
17593 \newpage
17594 \fi
17595 \global\@topnum\z@
17596 \maketitle
17597 \fi
17598 \thispagestyle{title}\@thanks
17599 \endgroup
17600 \bscontmark % \setcounter{footnote}{0}%
17601 }
17602 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
17603 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
17604 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrighskip\else\vleftskip\fi}
17605 \renewcommand*{\memRTLvrighskip}{\if@RTL\vleftskip\else\vrighskip\fi}
17606 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
17607 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
17608 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
17609 \renewcommand*{\thesubsection}{%
17610 \thesection\@SepMark\@arabic\c@subsection}
17611 \renewcommand*{\thesubsubsection}{%
17612 \thesubsection\@SepMark\@arabic\c@subsubsection}
17613 \renewcommand*{\theparagraph}{%
17614 \thesubsubsection\@SepMark\@arabic\c@paragraph}
17615 \renewcommand*{\thesubparagraph}{%
17616 \theparagraph\@SepMark\@arabic\c@subparagraph}
17617 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
17618 \renewcommand{\theequation}{%
17619 \ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@equation}
17620 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
17621 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
17622 \ifartopt
17623 \chapterstyle{article}
17624 \counterwithout{figure}{chapter}
17625 \counterwithout{table}{chapter}
17626 \counterwithout{footnote}{chapter}
17627 \counterwithout{equation}{chapter}
17628 \renewcommand{\chaptername}{}
17629 \renewcommand{\maketitlehookb}{%
17630 \vskip -1.5\topsep\vskip -1.5\partopsep}

```



```

17631 \renewcommand{\maketitlehookc}{%
17632 \vskip -1.5\topsep\vskip -1.5\partopsep}
17633 \fi
17634 \long\def\@makecaption#1#2{\let\@memtempa\relax
17635 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
17636 \else \def\@memtempa{\vbox to\topskip{}}\fi
17637 \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
17638 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
17639 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
17640 \let\footnote\@contfnote
17641 \let\footnotemark\@contfmark
17642 \ifdim\wd\@tempboxa<\linewidth \centering \fi
17643 \if@contcw
17644 \centering
17645 \parbox{\@contcwidth}{%
17646 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
17647 \fi
17648 \ifdim\wd\@tempboxa<\linewidth
17649 \@contpre
17650 {\@contnfont #1\@contdelim}\@memtempa
17651 {\@contcshortstyle \@conttfont #2\@contfinal\par}
17652 \else
17653 \if@conthang
17654 \sbox\@tempboxa{\@contnfont #1\@contdelim}
17655 \@contpre%
17656 {\@contcstyle\hangindent=\wd\@tempboxa
17657 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
17658 \else
17659 \if@contindent
17660 \@contpre%
17661 {\@contnfont #1\@contdelim}\@memtempa
17662 {\@contcstyle\hangindent=\@contindw
17663 \hangafter=\@cne\@conttfont #2\@contfinal\par}% <- v1.4
17664 \else
17665 \@contpre%
17666 {\@contnfont #1\@contdelim}\@memtempa
17667 {\@contcstyle \@conttfont #2\@contfinal\par}
17668 \fi
17669 \fi
17670 \fi
17671 \@contpost
17672 \if@contcw
17673 \par
17674 } % end of the \parbox
17675 \fi
17676 \vskip\belowcaptionskip}
17677 \ApplyPatchCodeToPackage{caption}{%
17678 \AtBeginPackage{caption}{
17679 \ClassWarningNoLine{memoir}{%
17680 You are using the caption package with the memoir \MessageBreak
17681 class. This may cause unexpected or inconsistent \MessageBreak
17682 results if you use any of memoir's captioning facilities}
17683
17684 \long\def\@makecaption##1##2{%

```



```

17685 \vskip\abovcaptionskip
17686 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
17687 \ifdim \wd\@tempboxa >\hsize
17688 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
17689 \else
17690 \global \@minipagefalse
17691 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
17692 \fi
17693 \vskip\belowcaptionskip}
17694
17695 \def\caption{%
17696 \ifx\@captive\@undefined
17697 \latex@error{\noexpand\caption outside float}\@ehd
17698 \expandafter\@gobble
17699 \else
17700 \refstepcounter\@captive
17701 \expandafter\@firstofone
17702 \fi
17703 {\@dblarg{\@caption\@captive}}%
17704 }
17705
17706 \long\def\@caption##1[##2]##3{%
17707 \par
17708 \addcontentsline{\csname ext@##1\endcsname}{##1}%
17709 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
17710 \begingroup
17711 \@parboxrestore
17712 \if@minipage
17713 \setminipage
17714 \fi
17715 \normalsize
17716 \@makecaption{\csname fnum##1\endcsname}{\ignorespaces ##3}\par
17717 \endgroup}
17718 }}
17719 \renewenvironment{thebibliography}[1]{%
17720 \bibsection
17721 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17722 \bidi@thebibliography@font@hook%
17723 \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

## 118 File midfloat-xetex-bidi.def

```

17724 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
17725 \def\RTL@outputdblcol{%
17726 \if@firstcolumn
17727 \global \@firstcolumnfalse
17728 \global\setbox\@leftcolumn\copy\@outputbox
17729 \splitmaxdepth\maxdimen
17730 \vbadness\maxdimen
17731 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17732 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17733 \toks@\expandafter{\topmark}%
17734 \xdef\@firstcoltopmark{\the\toks@}%
17735 \toks@\expandafter{\splitfirstmark}%

```



```

17736 \xdef\@firstcolfirstmark{\the\toks{}}%
17737 \ifx\@firstcolfirstmark\@empty
17738   \global\let\@setmarks\relax
17739 \else
17740   \gdef\@setmarks{%
17741     \let\firstmark\@firstcolfirstmark
17742     \let\topmark\@firstcoltopmark}%
17743 \fi
17744 \global\c@colht\@colht\global\c@advipersep\z@
17745 \ifnum\jua@sk>0
17746   \remove@strip\jua@sar
17747   \global\@colht\the\jua@pr
17748   \ifdim\right@cor>\z@
17749     \global\advance\@colht by\right@cor
17750   \fi
17751   \global\advance\@colht by\cor@height
17752   \global\cor@height=0pt
17753 \fi
17754 \global\setbox\@rightcolumn\vbox{}%
17755 \else
17756   \ifdim\c@colht>\@colht
17757     \@tempdima\@colht
17758     \ifdim\@colht>\z@
17759       \global\setbox\@rightcolumn\vbox{%
17760         \unvbox\@rightcolumn
17761         \vbox to\@tempdima{%
17762           \vskip\c@advipersep\unvbox\@outputbox}%
17763         \vskip\stripsep
17764         \vrule height\the\jua@ht width 0pt depth 0pt
17765         \vskip\stripsep
17766       }%
17767       \global\c@advipersep\m@advipersep
17768     \else
17769       \global\setbox\@rightcolumn\vbox{%
17770         \unvbox\@rightcolumn
17771         \vrule height\the\jua@ht width 0pt depth 0pt
17772         \vskip\stripsep
17773       }%
17774     \fi
17775   \ifnum\jua@sk>0
17776     \remove@strip\jua@sar
17777     \global\@colht\the\jua@pr
17778     \global\advance\@colht by-\ht\@rightcolumn
17779     \global\advance\@colht by\cor@height
17780     \global\cor@height=0pt
17781   \else
17782     \global\advance\c@colht by-\ht\@rightcolumn
17783     \global\@colht\c@colht
17784   \fi
17785 \else
17786   \global\@firstcolumntrue
17787   \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17788     \unvbox\@rightcolumn
17789     \vskip\c@advipersep

```



```

17790             \unvbox\@outputbox
17791         }%
17792     \setbox\@outputbox \vbox {%
17793         \hb@xt@\textwidth {%
17794             \hskip \columnwidth
17795             \hfil
17796             \vrule \@width\columnseprule
17797             \hfil
17798             \hb@xt@\columnwidth {%
17799                 \bidi@firstcolumn@status@write%
17800                 \box\@leftcolumn \hss}%
17801             \hskip-\textwidth
17802             \hb@xt@\columnwidth {%
17803                 \bidi@lastcolumn@status@write%
17804                 \box\@outputbox \hss}%
17805             \hskip\columnwidth
17806             \hskip\columnsep}%
17807         }%
17808     \@combinedblfloats
17809     \@setmarks
17810     \@outputpage
17811     \begingroup
17812         \@dblfloatplacement
17813         \@startdblcolumn
17814         \@whiles\if@fcolmade \fi
17815         {\@outputpage
17816          \@startdblcolumn}%
17817     \endgroup
17818     \global\jua@sk=0\global\jua@sar={}
17819     \global\cor@height\z@\global\c@addvipersep\z@
17820     \fi
17821 \fi
17822 }
17823
17824
17825 \def\LTR@outputdblcol{%
17826     \if@firstcolumn
17827         \global \@firstcolumnfalse
17828         \global\setbox\@leftcolumn\copy\@outputbox
17829         \splitmaxdepth\maxdimen
17830         \vbadness\maxdimen
17831         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17832         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17833         \toks@\expandafter{\topmark}%
17834         \xdef\@firstcoltopmark{\the\toks@}%
17835         \toks@\expandafter{\splitfirstmark}%
17836         \xdef\@firstcolfirstmark{\the\toks@}%
17837         \ifx\@firstcolfirstmark\@empty
17838             \global\let\@setmarks\relax
17839         \else
17840             \gdef\@setmarks{%
17841                 \let\firstmark\@firstcolfirstmark
17842                 \let\topmark\@firstcoltopmark}%
17843         \fi

```



```

17844 \global\c@colht\@colht\global\c@advipersep\z@
17845 \ifnum\jua@sk>0
17846   \remove@strip\jua@sar
17847   \global\@colht\the\jua@pr
17848   \ifdim\right@cor>\z@
17849     \global\advance\@colht by\right@cor
17850   \fi
17851   \global\advance\@colht by\cor@height
17852   \global\cor@height=0pt
17853 \fi
17854 \global \setbox\@rightcolumn \vbox{}%
17855 \else
17856   \ifdim\c@colht>\@colht
17857     \@tempdima\@colht
17858     \ifdim\@colht>\z@
17859       \global\setbox\@rightcolumn \vbox{%
17860         \unvbox\@rightcolumn
17861         \vbox to\@tempdima{%
17862           \vskip\c@advipersep\unvbox\@outputbox}%
17863         \vskip\stripsep
17864         \vrule height\the\jua@ht width 0pt depth 0pt
17865         \vskip\stripsep
17866       }%
17867       \global\c@advipersep\m@advipersep
17868     \else
17869       \global\setbox\@rightcolumn \vbox{%
17870         \unvbox\@rightcolumn
17871         \vrule height\the\jua@ht width 0pt depth 0pt
17872         \vskip\stripsep
17873       }%
17874     \fi
17875   \ifnum\jua@sk>0
17876     \remove@strip\jua@sar
17877     \global\@colht\the\jua@pr
17878     \global\advance\@colht by -\ht\@rightcolumn
17879     \global\advance\@colht by\cor@height
17880     \global\cor@height=0pt
17881   \else
17882     \global\advance\c@colht by-\ht\@rightcolumn
17883     \global\@colht\c@colht
17884   \fi
17885 \else
17886   \global\@firstcolumntrue
17887   \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17888     \unvbox\@rightcolumn
17889     \vskip\c@advipersep
17890     \unvbox\@outputbox
17891   }%
17892   \setbox\@outputbox \vbox {%
17893     \hb@xt@\textwidth {%
17894       \hb@xt@\columnwidth {%
17895         \bidi@firstcolumn@status@write%
17896         \box\@leftcolumn \hss}%
17897     \hfil

```



```

17898             \vrule \@width\columnseprule
17899             \hfil
17900             \hb@xt@\columnwidth {%
17901                 \bidi@lastcolumn@status@write%
17902                 \box\@outputbox \hss}%
17903                 }%
17904             }%
17905     \@combinedblfloats
17906     \@setmarks
17907     \@outputpage
17908     \begingroup
17909         \@dblfloatplacement
17910         \@startdblcolumn
17911         \@whiles\if@fcolmade \fi
17912         {\@outputpage
17913             \@startdblcolumn}%
17914     \endgroup
17915     \global\jua@sk=0\global\jua@sar={}%
17916     \global\cor@height\z@\global\c@addvipersep\z@
17917     \fi
17918 \fi
17919 }
17920
17921
17922 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
17923     \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\f
17924         \hsize\textwidth
17925         \@parboxrestore
17926         \col@number \@ne
17927         \vrule height\topskip width0pt depth0pt
17928 }
17929
17930 \def\endstrip{%
17931     \egroup\egroup
17932     \if@firstcolumn
17933         \ifdim\pagetotal>\z@
17934             \vskip\stripsep
17935             \global\ht@strip\pagegoal
17936             \global\advance\ht@strip by-\pagetotal
17937             \global\advance\ht@strip by-\stripsep
17938             \global\advance\ht@strip by-\ht\@viper
17939             \global\advance\ht@strip by-\stripsep
17940             \global\jua@ht=\ht\@viper
17941         \else
17942             \global\ht@strip\z@
17943         \fi
17944         \ifdim\ht@strip>\z@
17945             \unvbox\@viper
17946             \vskip\stripsep
17947             \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
17948             \global\advance\jua@sk by1
17949         \else
17950             \@latex@error{Strip needs more place!}\@ehc
17951             \if@vihproof

```





```

17952             \framebox[\columnwidth]{??? Strip ???}%
17953         \fi
17954     \fi
17955 \else
17956     \@latex@error{Strip is used only on left column!}\@ehc
17957     \if@vihproof
17958         \framebox[\columnwidth]{??? Strip ???}%
17959     \fi
17960 \fi
17961 }

```

## 119 File minitoc-xetex-bidi.def

```

17962 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package]
17963 \def\@undottedtocline#1#2#3#4#5{%
17964     \ifnum #1>\c@tocdepth\relax \else
17965         \vskip \z@ plus.2\p@
17966         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmargin
17967         \parindent #2\relax\@afterindenttrue
17968         \interlinepenalty\@M
17969         \leavevmode
17970         \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}}%
17971         \hskip -\if@RTL\rightskip\else\leftskip\fi
17972         #4\nobreak\hfill \nobreak
17973         \null\par}%
17974     \fi}
17975 \def\@undottedtocline#1#2#3#4#5{%
17976     \ifnum #1>\c@tocdepth\relax \else
17977         \vskip \z@ \@plus.2\p@
17978         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmargin
17979         \parindent #2\relax\@afterindenttrue
17980         \interlinepenalty\@M
17981         \leavevmode
17982         \@tempdima #3\relax
17983         \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip\fi
17984         {\coffee@font #4}\nobreak \nobreak\null
17985         \par}%
17986     \fi}
17987 \def\@undottedtocline#1#2#3#4#5{%
17988     \ifnum #1>\c@tocdepth\relax \else
17989         \vskip \z@ \@plus.2\p@
17990         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmargin
17991         \parindent #2\relax\@afterindenttrue
17992         \interlinepenalty\@M
17993         \leavevmode
17994         \@tempdima #3\relax
17995         \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip\fi
17996         {#4}\nobreak \hfill \nobreak\null
17997         \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
17998     \par}%
17999 \fi}

```

## 120 File multicol-xetex-bidi.def



```

18000 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
18001 \def\page@sofar{%
18002   \process@cols\mult@rightbox
18003   {\ifvoid\count@
18004     \setbox\count@\hbox to\hsize{}}%
18005   \else
18006     \wd\count@\hsize
18007   \fi}%
18008 \count@\col@number \advance\count@\m@ne
18009 \mult@info\z@
18010 {Column spec: \the\full@width\space = indent
18011               + columns + sep =\MessageBreak
18012               \the\multicol@leftmargin\space
18013               + \the\col@number\space
18014               x \the\hsize\space
18015               + \the\count@\space
18016               x \the\columnsep
18017   }%
18018 \ifvmode\else\errmessage{Multicol Error}\fi
18019 \nointerlineskip
18020 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
18021 \moveright\multicol@leftmargin
18022 \hbox to\full@width{%
18023   \bidi@multicol@align@columns
18024   \rlap{\phantom p}%
18025 }%
18026 \prevdepth\z@
18027 \kern-\dimen\tw@
18028 \ifdim\dimen\tw@ > \mc@gridwarn
18029   \PackageWarning{multicol}%
18030   {Very deep columns!\MessageBreak
18031   Grid alignment might be broken}%
18032 \fi
18033 }
18034 \def\LTR@column@boxes{%
18035   \process@cols\mult@firstbox{%
18036     \ifdim\dp\count@>\dimen\tw@
18037       \global\dimen\tw@\dp\count@ \fi
18038     \mc@col@status@write
18039     \box\count@
18040     \hss{\columnseprulecolor\vrule
18041           \@width\columnseprule}\hss}%
18042   \ifdim\dp\mult@rightbox>\dimen\tw@
18043     \global\dimen\tw@\dp\mult@rightbox \fi
18044   \mc@lastcol@status@write
18045   \box\mult@rightbox
18046 }
18047
18048 \def\RTL@column@boxes{%
18049   \process@cols\mult@firstbox{%
18050     \hskip\hsize
18051     \hss{\columnseprulecolor\vrule
18052           \@width\columnseprule}\hss
18053   }%

```



```

18054 \hskip\hsize
18055 \process@cols\mult@firstbox{%
18056   \ifdim\dp\count@>\dimen\tw@
18057     \global\dimen\tw@\dp\count@ \fi
18058   \hskip-\hsize
18059   \mc@col@status@write
18060   \box\count@
18061   \hskip-\hsize
18062   \hskip-\columnsep
18063 }%
18064 \ifdim\dp\mult@rightbox>\dimen\tw@
18065   \global\dimen\tw@\dp\mult@rightbox \fi
18066 \hskip-\hsize
18067 \mc@lastcol@status@write
18068 \box\mult@rightbox
18069 \hskip-\hsize
18070 \hskip\full@width
18071 }
18072
18073 \newcommand\RTLmulticolcolumns
18074   {\let\bidimulticol@align@columns
18075     \RTL@column@boxes}
18076 \newcommand\LTRmulticolcolumns
18077   {\let\bidimulticol@align@columns
18078     \LTR@column@boxes}
18079 \newcommand\bidimulticol@align@columns
18080   {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
18081 \bidi@AtEndPreamble{%
18082   \if@bidi@csdef{footinsv@1}{%
18083     \def\footnoterule{\kern-3\p@
18084       \hrule \@width \textwidth \kern 2.6\p@}%
18085   }{}%
18086 }
18087 \def\multicols#1{\col@number#1\relax
18088   \ifnum\col@number<\tw@
18089     \PackageWarning{multicol}%
18090       {Using '\number\col@number'
18091         columns doesn't seem a good idea.^^J
18092         I therefore use two columns instead}%
18093     \col@number\tw@ \fi
18094   \ifnum\col@number>20
18095     \PackageError{multicol}%
18096       {Too many columns}%
18097     {Current implementation doesn't
18098       support more than 20 columns.%
18099       \MessageBreak
18100       I therefore use 20 columns instead}%
18101   \col@number20 \fi
18102   \ifx\@footnotetext\mult@footnotetext
18103     \else
18104       \let\orig@footnotetext\@footnotetext
18105       \let\@footnotetext\mult@footnotetext
18106     \fi
18107   \ifx\@LTRfootnotetext\mult@LTRfootnotetext

```



```

18108 \else
18109 \let\orig@LTRfootnotetext\@LTRfootnotetext
18110 \let\@LTRfootnotetext\mult@LTRfootnotetext
18111 \fi
18112 \ifx\@RTLfootnotetext\mult@RTLfootnotetext
18113 \else
18114 \let\orig@RTLfootnotetext\@RTLfootnotetext
18115 \let\@RTLfootnotetext\mult@RTLfootnotetext
18116 \fi
18117 \@ifnextchar[\mult@cols{\mult@cols[]}]
18118 \long\def\mult@footnotetext#1{\begingroup
18119 \hsize\textwidth
18120 \columnwidth\textwidth
18121 \orig@footnotetext{#1}\endgroup}
18122 \long\def\mult@LTRfootnotetext#1{\begingroup
18123 \hsize\textwidth
18124 \columnwidth\textwidth
18125 \orig@LTRfootnotetext{#1}\endgroup}
18126 \long\def\mult@RTLfootnotetext#1{\begingroup
18127 \hsize\textwidth
18128 \columnwidth\textwidth
18129 \orig@RTLfootnotetext{#1}\endgroup}
18130 \def\right@footnoterule{%
18131 \kern-3\p@
18132 \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
18133 \kern2.6\p@}
18134 \def\textwidth@footnoterule{\kern-3\p@
18135 \hrule \@width \textwidth \kern 2.6\p@}
18136 \def\@bidi@leave@mult@copyins{%
18137 \advance\dimen@-\skip\@bidi@copyins@
18138 \advance\dimen@-\ht\@bidi@copyins@
18139 }
18140
18141 \bidi@AtEndPreamble{%
18142 \if@bidi@csundef{footinsv@1}{%
18143 \bidi@patchcmd{\multi@column@out}{%
18144 \ifvbox \@kludgeins
18145 }{%
18146 \ifvoid\@bidi@copyins@ \else
18147 \bidi@leave@mult@copyins
18148 \fi
18149 \ifvbox \@kludgeins
18150 }{}{}%
18151 }{}%
18152 }
18153
18154

```

## 121 File multienum-xetex-bidi.def

```

18155 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum pack
18156 \renewcommand{\itemx}[1]{\parbox[t]{%
18157 {\labelwidth}{\hfill\labelname}}\hskip\labelsep%
18158 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip

```



```

18159 \renewcommand{\itemxx}[2]{\parbox[t]{%
18160 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18161 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18162 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18163 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
18164 \renewcommand{\itemxxx}[3]{\parbox[t]{%
18165 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18166 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18167 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18168 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
18169 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18170 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
18171 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
18172 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18173 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18174 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18175 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18176 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18177 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
18178 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18179 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
18180 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
18181 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18182 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
18183 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18184 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
18185 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18186 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
18187 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18188 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
18189 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18190 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
18191 \renewcommand{\itemxox}[2]{\parbox[t]{%
18192 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18193 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18194 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18195 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
18196 \renewcommand{\itemxox}[2]{\parbox[t]{%
18197 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18198 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
18199 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18200 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
18201 \renewcommand{\itemxox}[3]{\parbox[t]{%
18202 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18203 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18204 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18205 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18206 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18207 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18208 \renewcommand{\itemxox}[3]{\parbox[t]{%
18209 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18210 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18211 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18212 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%

```



```

18213 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18214 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18215 \renewcommand{\itemxxxo}[3]{\parbox[t]{
18216 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18217 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18218 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18219 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18220 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18221 \parbox[t]{\remainxxx}{\bidi@raggedright #3}\smallskip}

```

## 122 File natbib-xetex-bidi.def

```

18222 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
18223 \renewenvironment{thebibliography}[1]{%
18224 \bibsection
18225 \parindent\z@
18226 \bibpreamble
18227 \bibfont
18228 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
18229 \bidi@thebibliography@font@hook%
18230 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
18231 \ifNAT@openbib
18232 \renewcommand\newblock{\par}%
18233 \else
18234 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
18235 \fi
18236 \sloppy\clubpenalty4000\widowpenalty4000
18237 \sfcode`\.\@m
18238 \let\NAT@bibitem@first@sw\@firstoftwo
18239 \let\citeN\cite \let\shortcite\cite
18240 \let\citeasnoun\cite
18241 }{%
18242 \bibitem@fin
18243 \bibpostamble
18244 \def\@noitemerr{%
18245 \PackageWarning{natbib}{Empty `thebibliography' environment}}%
18246 }%
18247 \endlist
18248 \bibcleanup
18249 }%

```

## 123 File newfloat-xetex-bidi.def

```

18250 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
18251 \renewcommand*{\newfloat@setwithin}[2]{%
18252 \ifcsname c@chapter\endcsname
18253 \@removefromreset{#1}{chapter}%
18254 \fi
18255 \@removefromreset{#1}{section}%
18256 \edef\@tempa{#2}%
18257 \ifx\@tempa\@empty
18258 \def\@tempa{none}%
18259 \fi
18260 \def\@tempb{none}%

```



```

18261 \ifx\@tempa\@tempb
18262 \ifcsname c@chapter\endcsname
18263 \@chapterlistsgap@off{#1}%
18264 \fi
18265 \newfloat@@setwithin{#1}{-}{}%
18266 \else
18267 \def\@tempb{chapter}%
18268 \ifx\@tempa\@tempb
18269 \@addtoreset{#1}{chapter}%
18270 \@chapterlistsgap@on{#1}%
18271 \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@SepMark}%
18272 \else
18273 \def\@tempb{section}%
18274 \ifx\@tempa\@tempb
18275 \@addtoreset{#1}{section}%
18276 \ifcsname c@chapter\endcsname
18277 \@addtoreset{#1}{chapter}%
18278 \@chapterlistsgap@on{#1}%
18279 \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
18280 \else
18281 \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection\@SepMark}%
18282 \fi
18283 \else
18284 \newfloat@Error{Invalid value `#2' for option `within'}%
18285 \fi
18286 \fi
18287 \fi}

```

## 124 File nicematrix-xetex-bidi.def

```

18288 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix package]
18289 \ExplSyntaxOn
18290 \bidi@patchcmd{\_nicematrix_array:n}{\@tabarray}{%
18291 \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
18292 \@tabarray
18293 }{}{}
18294 \ExplSyntaxOff
18295

```

## 125 File ntheorem-xetex-bidi.def

```

18296 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
18297 \gdef\@thm#1#2#3{%
18298 \if@thmmarks
18299 \stepcounter{end\InTheoType ctr}%
18300 \fi
18301 \renewcommand{\InTheoType}{#1}%
18302 \if@thmmarks
18303 \stepcounter{curr#1ctr}%
18304 \setcounter{end#1ctr}{0}%
18305 \fi
18306 \refstepcounter{#2}%
18307 \theorem@prework
18308 \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist

```



```

18309 \ifvmode \advance\thm@topsepadd\partopsep\fi
18310 \trivlist
18311 \@topsep \theorempreskipamount
18312 \@topsepadd \thm@topsepadd % used by \@endparenv
18313 \advance\linewidth -\theorem@indent
18314 \advance\@totalleftmargin \theorem@indent
18315 \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18316 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

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

```

18317 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-
18318 \gdef\@thm#1#2#3{%
18319 \if@thmmarks
18320 \stepcounter{end\InTheoType ctr}%
18321 \fi
18322 \renewcommand{\InTheoType}{#1}%
18323 \if@thmmarks
18324 \stepcounter{curr#1ctr}%
18325 \setcounter{end#1ctr}{0}%
18326 \fi
18327 \refstepcounter{#2}%
18328 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
18329 \ifvmode \advance\thm@topsepadd\partopsep\fi
18330 \trivlist
18331 \@topsep \theorempreskipamount
18332 \@topsepadd \thm@topsepadd % used by \@endparenv
18333 \advance\linewidth -\theorem@indent
18334 \advance\@totalleftmargin \theorem@indent
18335 \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18336 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 127 File overpic-xetex-bidi.def

```

18337 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package
18338 \renewenvironment{overpic}[2] []{%
18339 \sbox{\z@}{\includegraphics[#1]{#2}}%
18340 \settodepth{\@tempcnta}{\usebox{\z@}}%
18341 \settoheight{\@tempcntb}{\usebox{\z@}}%
18342 \advance\@tempcntb\@tempcnta%
18343 \settowidth{\@tempcnta}{\usebox{\z@}}%
18344 \setlength{\@tempdima}{\unitlength}%
18345 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
18346 %
18347 \OVP@calc%
18348 %
18349 \begin{picture}(\@tempcnta,\@tempcntb)%
18350 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
18351 \ifGin@grid%
18352 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18353 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18354 \fi\fi%
18355 % reset the graphics parameter
18356 \let\Gin@outer@scale\relax

```





```

18357 \let\Gin@outer@scaley\relax
18358 \let\Gin@angle\relax
18359 \let\Gin@ewidth\Gin@exclamation
18360 \let\Gin@eheight\Gin@ewidth
18361 \def\Gin@scalex{1}
18362 \let\Gin@scaley\Gin@exclamation
18363 }{%
18364 \if@RTL\ifGin@grid%
18365 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18366 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18367 \fi%
18368 \put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}\fi%
18369 \end{picture}%
18370 }%

```

## 128 File pdfbase-xetex-bidi.def

```

18371 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package]
18372 \ExplSyntaxOn
18373 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
18374 \cs_set_nopar:Npn\@outputpage{
18375 \int_gincr:N\g_pbs_page_int
18376 \box_if_vertical:cTF{\@outputbox}{
18377 \bool_set_true:N\l_pbs_is_vertical_bool
18378 }{
18379 \bool_set_false:N\l_pbs_is_vertical_bool
18380 }
18381 \hbox_set:Nn\@outputbox{
18382 %begin of page
18383 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
18384 \box_use_drop:N\@outputbox
18385 %end of page
18386 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
18387 }
18388 \bool_if:NT\l_pbs_is_vertical_bool{
18389 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
18390 }
18391 \pbs_outputpage_orig:
18392 }
18393 \ExplSyntaxOff

```

## 129 File pdfscape-xetex-bidi.def

```

18394 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape package]
18395 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
18396 \if@RTL
18397 \PLS@Rotate{-90}%
18398 \else
18399 \PLS@Rotate{90}%
18400 \fi
18401 }{}{}

```

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



```

18402 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf p
18403 \def\pgfpicture{%
18404   \beginpgfpicture%
18405   \ifmmode\else\@RTLfalse\beginL\fi%
18406   \pgfpicturetrue%
18407   \global\advance\pgf@picture@serial@count by1\relax%
18408   \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
18409   \let\pgf@nodecallback=\pgfutil@gobble%
18410   \pgf@picmaxx=-16000pt\relax%
18411   \pgf@picminx=16000pt\relax%
18412   \pgf@picmaxy=-16000pt\relax%
18413   \pgf@picminy=16000pt\relax%
18414   \pgf@relevantforpicturesizetrue%
18415   \pgf@resetpathsizes%
18416   \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture%
18417 \def\endpgfpicture{%
18418   \ifpgfrememberpicturepositiononpage%
18419     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
18420   \fi%
18421   % ok, now let's position the box
18422   \ifdim\pgf@picmaxx=-16000pt\relax%
18423     % empty picture. make size 0.
18424     \global\pgf@picmaxx=0pt\relax%
18425     \global\pgf@picminx=0pt\relax%
18426     \global\pgf@picmaxy=0pt\relax%
18427     \global\pgf@picminy=0pt\relax%
18428   \fi%
18429   % Shift baseline outside:
18430   \pgf@relevantforpicturesizefalse%
18431   \pgf@process{\pgf@baseline}%
18432   \xdef\pgf@shift@baseline{\the\pgf@y}%
18433   %
18434   \pgf@process{\pgf@trimleft}%
18435   \global\advance\pgf@x by-\pgf@picminx
18436   % prepare \hskip\pgf@trimleft@final.
18437   % note that \pgf@trimleft@final is also queried
18438   % by the pgf image externalization.
18439   \xdef\pgf@trimleft@final{-\the\pgf@x}%
18440   %
18441   \pgf@process{\pgf@trimright}%
18442   \global\advance\pgf@x by-\pgf@picmaxx
18443   % prepare \hskip\pgf@trimright@final.
18444   % note that \pgf@trimright@final is also queried
18445   % by the pgf image externalization.
18446   \xdef\pgf@trimright@final{\the\pgf@x}%
18447   %
18448   \pgf@remember@layerlist@globally
18449   \endpgfpicture%
18450   \hss%
18451   \egroup%
18452 \pgf@restore@layerlist@from@global
18453   \pgf@insertlayers%
18454   \endpgfpicture%
18455   \pgfsys@discardpath%

```



```

18456         \endgroup%
18457         \pgfsys@endscope%
18458         \pgfsys@endpicture%
18459         \endgroup%
18460         \hss
18461     \egroup%
18462     \pgfsys@typesetpicturebox\pgfpic%
18463     \ifmmode\else\endL\fi%
18464 \endgroup%
18465 }

```

## 131 File pgfsys-xetex-bidi.def

```

18466 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package fo
18467 \def\pgfsys@shadingoutsidepgfpicture#1{%
18468     \beginL#1\endL%
18469 }
18470
18471

```

## 132 File picinpar-xetex-bidi.def

```

18472 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar packag
18473 \long\def\@makewincaption#1#2{%
18474     \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
18475     \ifdim\wd\@tempboxa>\picwd
18476         {\footnotesize{\bf #1:\enspace}{#2\par}}
18477     \else
18478         \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
18479     \fi}
18480 \def\endwindow{%
18481     \global\tcd=\tcdsav
18482     \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
18483     \vbadness=10000
18484     \splittopskip=0pt
18485 %
18486 % Typeset the lines above the window
18487 %
18488 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
18489 \tcn=\tcd
18490 \loop\advance\tcn -1
18491 \setbox\fslice=\vsplit\holder to\baselineskip
18492 \prune\fslice\linewidth
18493 \topheight=0pt
18494 \ifnum\dp\fslice>\dp\wstrutbox
18495     \advance\topheight-\dp\fslice
18496     \advance\topheight\dp\wstrutbox
18497     \advance\topheight\ilg\fi
18498 \hbox to\linewidth{\box\fslice}
18499 \vskip-\topheight
18500 \ifdim\ht\holder>0pt\repeat
18501 \fi
18502 %
18503 % Now we build the boxes beside the window

```



```

18504 %
18505 \global\topheight=\tcl\baselineskip
18506 \ifnum\cumpartcl>0\global\tcl=\cumtcl
18507       \global\topheight=\vpic
18508 \fi
18509 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
18510 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
18511 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
18512 \tcn=\tcl \na=0 \nb=0
18513 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
18514 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
18515 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
18516 \ifnum\na=0\ifnum\nb=0
18517       \setbox\waslice=\vbox to\vpic{\vss}
18518       \setbox\wbslice=\vbox to\vpic{\vss}
18519       \bl=1\br=1
18520       \vskip\ilg
18521 \fi\fi
18522 %
18523 % both sides
18524 %
18525 \ifnum\na>0 \ifnum\nb>0
18526 \loop\advance\nb -1
18527 \advance\na -1
18528 \if@RTL%
18529 \setbox\bslice=\vsplit\holder to\baselineskip
18530 \prune\bslice\rtside
18531 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18532 to\rtside{\box\bslice\hfil}}
18533 \setbox\aslice=\vsplit\holder to\baselineskip
18534 \prune\aslice\lftside
18535 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18536 to\lftside{\box\aslice\hfil}}
18537 \else%
18538 \setbox\aslice=\vsplit\holder to\baselineskip
18539 \prune\aslice\lftside
18540 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18541 to\lftside{\box\aslice\hfil}}
18542 \setbox\bslice=\vsplit\holder to\baselineskip
18543 \prune\bslice\rtside
18544 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18545 to\rtside{\box\bslice\hfil}}
18546 \fi%
18547 \ifnum\nb>0\repeat
18548 \fi\fi
18549 %
18550 % only text on the left side
18551 %
18552 \ifnum\na>0
18553       \loop\advance\na -1
18554       \setbox\aslice=\vsplit\holder to\baselineskip
18555       \prune\aslice\lftside
18556       \setbox\waslice=\vbox{\unvbox\waslice\hbox
18557 to\lftside{\box\aslice\hfil}}

```



```

18558 \ifdim\ht\holder>0pt\repeat
18559 \fi
18560 %
18561 % only text on the right side
18562 %
18563 \ifnum\nb>0
18564 \loop\advance\nb -1
18565 \setbox\bslice=\vsplit\holder to\baselineskip
18566 \prune\bslice\rtside
18567 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18568 to\rtside{\box\bslice\hfil}}
18569 \ifdim\ht\holder>0pt\repeat
18570 \fi
18571 %
18572 % fixing the dimensions of the window part
18573 %
18574 \ifnum\bl=0\topheight=\ht\wbslice
18575 \else\ifnum\br=0\topheight=\ht\waslice
18576 \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
18577 \else\topheight=\ht\wbslice\fi\fi\fi
18578 %
18579 % ship out the window material to the main vertical list
18580 %
18581 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
18582 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
18583 \fi\fi\fi
18584 \setbox>windowbox=\vbox{\hbox to\linewidth{%
18585 \ifnum\bl>0\box\waslice\hfill\fi%
18586 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
18587 \vfill\unvbox\picbox%
18588 \ifnum\picwd>0\vfill\fi%
18589 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
18590 \unvbox>windowbox%
18591 \loop
18592 \setbox\bslice=\vsplit\rawtext to\baselineskip
18593 \prune\bslice\linewidth
18594 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
18595 \unvbox\wbslice
18596 \ifdim\ht\rawtext>0pt
18597 \repeat
18598 }% FINITO

```

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

```

18599 \def\TeXXeTOn{\TeXXeTstate=1 }
18600 \def\TeXXeTOff{\TeXXeTstate=0 }
18601 \TeXXeTOn
18602 \def\usebox#1{\leavevmode\copy #1\relax}
18603 \def\bidi@RTL@everypar{{\setbox\z@ \lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\useb
18604 \let\bidi@o@everypar=\everypar
18605 \newtoks\bidi@n@everypar
18606 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
18607 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
18608 \let\everypar=\bidi@n@everypar

```



```

18609 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
18610 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
18611 \protected\def\hboxR{\hbox\bgroup
18612   \everyhbox{%
18613     \aftergroup\egroup
18614     \everyhbox{}}%
18615   \beginR
18616   \@hboxRconstructtrue
18617   \bgroup
18618   \aftergroup\endR
18619   \aftergroup\egroup
18620 } \hbox}
18621 \protected\def\hboxL{\hbox\bgroup
18622   \everyhbox{%
18623     \aftergroup\egroup
18624     \everyhbox{}}%
18625   \beginL
18626   \@hboxRconstructfalse
18627   \bgroup
18628   \aftergroup\endL
18629   \aftergroup\egroup
18630 } \hbox}
18631 \protected\def\vboxR{\vbox\bgroup
18632   \everyvbox{%
18633     \aftergroup\egroup
18634     \everyvbox{}}%
18635   \@RTLtrue
18636   \bgroup
18637   \aftergroup\egroup
18638 } \vbox}
18639 \protected\def\vboxL{\vbox\bgroup
18640   \everyvbox{%
18641     \aftergroup\egroup
18642     \everyvbox{}}%
18643   \@RTLfalse
18644   \bgroup
18645   \aftergroup\egroup
18646 } \vbox}
18647 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
18648 \def\endLTR{\par}
18649 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
18650 \def\endRTL{\par}
18651 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
18652 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
18653 \let\unsetRTL=\setLTR
18654 \let\unsetLTR=\setRTL
18655 \let\LR=\LRE
18656 \let\RL=\RLE
18657 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
18658 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
18659 \let\@ensure@RL=\@ensure@RTL
18660 \let\@ensure@LR=\@ensure@LTR
18661 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
18662 \let\@ensure@maindir=\@ensure@dir

```



```

18663 \def\@RTL{RTL}
18664 \def\@LTR{LTR}
18665 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
18666 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
18667 \let\@TeX\TeX
18668 \def\TeX{\@ensure@LTR{\@TeX}}
18669 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi}
18670 \dimen@=\dp\@cclv \unvbox\@cclv % open up \box255
18671 \ifvoid\footins\else % footnote info is present
18672 \vskip\skip\footins
18673 \footnoterule
18674 \unvbox\footins\fi
18675 \ifr@ggedbottom \kern-\dimen@ \vfil \fi
18676 \ifvoid\@bidi@copyins@
18677 \else
18678 \vskip\skip\@bidi@copyins@
18679 \unvbox\@bidi@copyins@
18680 \fi
18681 }
18682 \long\def\bidi@reflect@box#1{%
18683 \leavevmode
18684 \setbox\z@\hbox{{#1}}%
18685 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
18686 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
18687 }
18688 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
18689 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
18690 \let\setRL=\setRTL
18691 \let\setLR=\setLTR
18692 \let\unsetRL=\setLTR
18693 \let\bidi@saved@eqno=\eqno
18694 \let\bidi@saved@leqno=\leqno
18695 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
18696 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
18697 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18698 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18699 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

## 134 File pstricks-xetex-bidi.def

```

18700 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
18701 \bidi@patchcmd\pspicture\begingroup{%
18702 \begingroup
18703 \ifmmode
18704 \else
18705 \@RTLfalse
18706 \beginL
18707 \fi
18708 }{\bidi@warningnoline{Oops! patching '\string\pspicture' failed}}
18709
18710 \bidi@patchcmd\endpspicture{%
18711 \endgroup
18712 \psset[pstricks]{shift=0}% reset value
18713 }{%

```



```

18714 \ifmode
18715 \else
18716 \endL
18717 \fi
18718 \endgroup
18719 \psset[pstricks]{shift=0}% reset value
18720 }-{\bidi@warningnoline{Oops! patching `string\endpspicture' failed}}
18721
18722 \bidi@patchcmd\@@scalebox{%
18723 \special{x: bscale \pst@tempc \pst@tempd}%
18724 \hbox to \z@\box\pst@hbox\hss}%
18725 \special{x: escale}%
18726 }{%
18727 \if@RTL
18728 \special{x: escale}%
18729 \else
18730 \special{x: bscale \pst@tempc \pst@tempd}%
18731 \fi
18732 \hbox to \z@\box\pst@hbox\hss}%
18733 \if@RTL
18734 \special{x: bscale \pst@tempc \pst@tempd}%
18735 \else
18736 \special{x: escale}%
18737 \fi
18738 }-{\bidi@warningnoline{Oops! patching `string\@@scalebox' failed}}
18739 \let\ps@@scalebox\@@scalebox
18740

```

## 135 File quotchap-xetex-bidi.def

```

18741 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
18742 \renewcommand{\qauthor}[1]{%
18743 \par\smallskip
18744 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
18745 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
18746 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
18747 {\chapnumfont
18748 \ifnum \c@secnumdepth >\m@ne%
18749 \if@mainmatter\thechapter%
18750 \fi\fi
18751 \par\nobreak}%
18752 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
18753 \nobreak\chapterheadendvskip}}
18754 \renewcommand*{\@iprintcites}{%
18755 \vbox to\z@\{\leavevmode\copy\@quotebox\vss}
18756 \global\let\@printcites\relax}

```

## 136 File ragged2e-xetex-bidi.def

```

18757 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
18758 \renewcommand{\Centering}{%
18759 \ifx\\ \@raggedtwoe@savedcr
18760 \let\\ \@centercr
18761 \fi

```





```

18762 \let\@gnewline\@raggedtwoe@gnewline
18763 \if@RTL\rightrightskip\else\leftskip\fi\CenteringLeftskip
18764 \@rightskip\CenteringRightskip
18765 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18766 \parfillskip\CenteringParfillskip
18767 \parindent\CenteringParindent
18768 \@raggedtwoe@spaceskiptrue
18769 \@raggedtwoe@everyselectfont
18770 }
18771 \renewcommand{\RaggedLeft}{%
18772 \ifx\\ \@raggedtwoe@savedcr
18773 \let\\ @centercr
18774 \fi
18775 \let\@gnewline\@raggedtwoe@gnewline
18776 \if@RTL\rightrightskip\else\leftskip\fi\RaggedLeftLeftskip
18777 \@rightskip\RaggedLeftRightskip
18778 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18779 \parfillskip\RaggedLeftParfillskip
18780 \parindent\RaggedLeftParindent
18781 \@raggedtwoe@spaceskiptrue
18782 \@raggedtwoe@everyselectfont
18783 }
18784 \renewcommand{\RaggedRight}{%
18785 \ifx\\ \@raggedtwoe@savedcr
18786 \let\\ @centercr
18787 \fi
18788 \let\@gnewline\@raggedtwoe@gnewline
18789 \if@RTL\rightrightskip\else\leftskip\fi\RaggedRightLeftskip
18790 \@rightskip\RaggedRightRightskip
18791 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18792 \parfillskip\RaggedRightParfillskip
18793 \parindent\RaggedRightParindent
18794 \@raggedtwoe@spaceskiptrue
18795 \@raggedtwoe@everyselectfont
18796 }
18797 \renewcommand{\justifying}{%
18798 \let\\ \@raggedtwoe@savedcr
18799 \let\@gnewline\@raggedtwoe@saved@gnewline
18800 \if@RTL\rightrightskip\else\leftskip\fi\z@
18801 \@rightskip\z@
18802 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18803 \parfillskip\JustifyingParfillskip
18804 \parindent\JustifyingParindent
18805 \@raggedtwoe@spaceskipfalse
18806 \@raggedtwoe@everyselectfont
18807 }
18808 \def\@raggedtwoe@raggedrightboxes@opt{%
18809 \renewcommand{\@arrayparboxrestore}{%
18810 \let\if@nobreak\iffalse
18811 \let\if@noskipsec\iffalse
18812 \let\par\@par
18813 \let\-\@dischyph
18814 \let'\@acci\let`\@accii\let=\@acciii
18815 \parskip\z@skip

```



```

18816 \everypar{}%
18817 \linewidth\hsize
18818 \@totalleftmargin\z@
18819 \if@RTL
18820 \RaggedLeft
18821 \else
18822 \RaggedRight
18823 \fi
18824 \lineskip\normallineskip
18825 \baselineskip\normalbaselineskip
18826 \sloppy}%
18827 \let\@raggedtwoe@raggedrightboxes@opt\relax
18828 }
18829 \def\@raggedtwoe@document@opt{%
18830 \AtBeginDocument{\@raggedtwoe@abdhook}%
18831 \@raggedtwoe@raggedrightboxes@opt
18832 \@raggedtwoe@footmisctrue
18833 \let\@raggedtwoe@document@opt\relax
18834 }
18835 \def\@raggedtwoe@abdhook{%
18836 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
18837 right to left documents and '\string\RaggedRight' for left
18838 to right documents}%
18839 \if@RTL
18840 \RaggedLeft
18841 \else
18842 \RaggedRight
18843 \fi
18844 \@ifundefined{@tocrmarg}{\edef\tocrmarg{\tocrmarg plus 2em}}%
18845 \let\@raggedtwoe@abdhook\relax
18846 }
18847 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
18848 \@raggedtwoe@raggedrightboxes@opt
18849 }{}
18850 \@ifpackagewith{ragged2e}{document}{%
18851 \@raggedtwoe@document@opt
18852 }{}
18853 \let\origin@RaggedLeft=\RaggedLeft
18854 \let\origin@RaggedRight=\RaggedRight
18855 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
18856 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 137 File rapport1-xetex-bidi.def

```

18857 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class]
18858 \renewenvironment{theindex}{%
18859 \if@twocolumn
18860 \restonecolfalse
18861 \else
18862 \restonecoltrue
18863 \fi
18864 \columnseprule \z@
18865 \columnsep 35\p@
18866 \twocolumn[\@makeschapterhead{\indexname}]}%

```



```

18867 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
18868 \thispagestyle{plain}\parindent\z@
18869 \parskip\z@ \@plus .3\p@\relax
18870 \let\item\@idxitem
18871 }{%
18872 \if@restonecol\onecolumn\else\clearpage\fi}
18873 \renewcommand*\head@style{%
18874     \interlinepenalty \@M
18875     \hyphenpenalty=\@M \exhyphenpenalty=\@M
18876     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18877 \if@titlepage
18878     \renewenvironment{abstract}{%
18879         \titlepage
18880         \null\vfil
18881         \section*{\SectFont\abstractname}%
18882         \noindent\ignorespaces}
18883     {\par\vfil\null\endtitlepage}
18884 \else
18885     \renewenvironment{abstract}{%
18886         \if@twocolumn
18887             \section*{\abstractname}%
18888         \else
18889             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18890             \section*{\small\SectFont\abstractname}%
18891             \noindent\ignorespaces
18892         \fi}
18893     {\if@twocolumn\else\par\egroup\fi}
18894 \fi
18895 \renewcommand*\@regtocline[3]{%
18896     \ifnum #1>\c@tocdepth
18897     \else
18898         \vskip\z@ \@plus .2\p@
18899         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
18900         \if@RTL\rightskip\else\leftskip\fi\unitindent
18901         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
18902         \parfillskip\z@
18903         \@tempdima\unitindent
18904         \parindent\z@
18905         \leavevmode
18906         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
18907         \hskip 1em \nobreak{\slshape #3}\par
18908     }%
18909     \fi}
18910 \if@oldtoc
18911 \renewcommand*\l@part[2]{%
18912     \ifnum \c@tocdepth >-2\relax
18913         \addpenalty{-\@highpenalty}%
18914         \addvspace{2.25em \@plus\p@}%
18915         \begingroup
18916             \setlength\@tempdima{3em}%
18917             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18918             \parfillskip -\@pnumwidth
18919             {\leavevmode
18920                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par

```



```

18921         \nobreak
18922         \global\@nobreaktrue
18923         \everypar{\global\@nobreakfalse\everypar{}}%
18924     \endgroup
18925 \fi}
18926 \else
18927     \renewcommand*\l@part{%
18928         \ifnum \c@tocdepth >-2\relax
18929             \addpenalty{-\@highpenalty}%
18930             \addvspace{2.25em \@plus \p@}%
18931             \@regtocline{0}%
18932         \fi}
18933 \fi
18934 \if@oldtoc
18935 \renewcommand*\l@chapter[2]{%
18936     \addpenalty{-\@highpenalty}%
18937     \vskip 1.0em \@plus \p@
18938     \setlength\@tempdima{1.5em}%
18939     \begingroup
18940     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18941     \parfillskip -\@pnumwidth
18942     \leavevmode \bfseries
18943     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
18944     \hskip -\if@RTL\rightskip\else\leftskip\fi
18945     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
18946     \penalty\@highpenalty
18947 \endgroup}
18948 \else
18949     \renewcommand*\l@chapter{\@regtocline{0}}
18950 \fi
18951 \renewcommand*\left@footnoterule{%
18952     \kern-3\p@
18953     \kern.5\baselineskip
18954     \hrule\@width\unitindent
18955     \kern.4\baselineskip
18956 }
18957 \renewcommand*\right@footnoterule{%
18958     \kern-3\p@
18959     \kern.5\baselineskip
18960     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
18961     \kern.4\baselineskip}
18962 \renewenvironment{thebibliography}[1]
18963     {\chapter*{\bibname}%
18964         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
18965         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
18966         \bidi@thebibliography@font@hook%
18967         \list{\@biblabel{\@arabic\c@enumiv}}%
18968             {\settowidth\labelwidth{\@biblabel{#1}}%
18969             \leftmargin\labelwidth
18970             \advance\leftmargin\labelsep
18971             \@openbib@code
18972             \usecounter{enumiv}%
18973             \let\p@enumiv\@empty
18974             \renewcommand*\theenumiv{\@arabic\c@enumiv}}%

```



```

18975 \sloppy\clubpenalty4000\widowpenalty4000%
18976 \sfcode`.\@m}
18977 {\def\@noitemerr
18978 {\@latex@warning{Empty `thebibliography' environment}}}%
18979 \endlist}
18980 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
18981 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
18982 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
18983 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
18984 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
18985 \renewcommand*\theequation{%
18986 \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@equation}
18987 \renewcommand*\thefigure{%
18988 \ifnum\c@chapter>z@\thechapter\@SepMark\fi\@arabic\c@figure}
18989 \renewcommand*\thetable{%
18990 \ifnum\c@chapter>z@\thechapter\@SepMark\fi\@arabic\c@table}
18991 \if@titlepage
18992 \renewcommand*{\TitleFont}{\rmfamily}
18993 \renewcommand*\maketitle{%
18994 \begin{titlepage}%
18995 \let\footnotesize\small
18996 \let\right@footnoterule\relax
18997 \let\left@footnoterule\relax
18998 \let\textwidth@footnoterule\relax
18999 \let \footnote \thanks
19000 \long\def\@makefnmark##1{\parindent\z@
19001 \def\labelitemi{\textendash}\@revlabeltrue
19002 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19003 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19004 \if@compatibility\setcounter{page}{0}\fi
19005 \null\vfil
19006 \vskip 60\p@
19007 \begin{center}%
19008 \TitleFont
19009 {\LARGE \def\\{\penalty -\@M}
19010 \if@allcaps
19011 \expandafter\uc@nothanks\@title\thanks\relax
19012 \else
19013 \@title
19014 \fi\par}%
19015 \vskip 3em%
19016 {\large
19017 \lineskip .75em \parindent\z@
19018 \begin{tabular}[t]{c}%
19019 \if@allcaps
19020 \expandafter\uc@authornothanks\@author\and\relax
19021 \else
19022 \@author
19023 \fi
19024 \end{tabular}\par}%
19025 \vskip 1.5em%
19026 {\large
19027 \if@allcaps
19028 \uppercase\expandafter{\@date}%

```



```

19029         \else
19030             \@date
19031         \fi\par}%
19032     \end{center}\par
19033     \@thanks
19034     \vfil\null
19035 \end{titlepage}%
19036 \setcounter{footnote}{0}%
19037 \global\let\thanks\relax
19038 \global\let\maketitle\relax
19039 \global\let\@thanks\@empty
19040 \global\let\@author\@empty
19041 \global\let\@title\@empty
19042 \global\let\@date\@empty
19043 \global\let\title\relax
19044 \global\let\author\relax
19045 \global\let\date\relax
19046 \global\let\and\relax
19047 }
19048 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19049 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19050     \futurelet\@tempa\uc@ax}
19051 \def\uc@ax{%
19052     \ifx\@tempa\relax
19053     \else
19054         \\\andname \\\expandafter\uc@authornothanks
19055     \fi}
19056 \def\uc@tx{\ifx\@tempa\relax
19057     \else \expandafter\uc@ty \fi}
19058 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19059 \else
19060 \renewcommand*\maketitle{\par
19061     \begingroup
19062     \renewcommand*\thefootnote{\fnsymbol\c@footnote}%
19063     \def\@makefnmark{\rlap{%
19064         \@textsuperscript{\normalfont\@thefnmark}}}%
19065     \long\def\@makefntext{\@xmakefntext{%
19066         \@textsuperscript{\normalfont\@thefnmark}}}%
19067     \if@twocolumn
19068         \ifnum \col@number=\@ne
19069             \@maketitle
19070         \else
19071             \twocolumn[\@maketitle]%
19072         \fi
19073     \else
19074         \newpage
19075         \global\@topnum\z@
19076         \@maketitle
19077     \fi
19078     \thispagestyle{plain}\@thanks
19079 \endgroup
19080 \setcounter{footnote}{0}%
19081 \global\let\thanks\relax
19082 \global\let\maketitle\relax

```



```

19083 \global\let\@maketitle\relax
19084 \global\let\@thanks\@empty
19085 \global\let\@author\@empty
19086 \global\let\@title\@empty
19087 \global\let\@date\@empty
19088 \global\let\title\relax
19089 \global\let\author\relax
19090 \global\let\date\relax
19091 \global\let\and\relax
19092 }
19093 \def\@maketitle{%
19094 \newpage
19095 \null
19096 \vskip 2em%
19097 \begin{center}%
19098 \let \footnote \thanks
19099 {\LARGE \TitleFont \@title \par}%
19100 \vskip 1.5em%
19101 {\large \TitleFont
19102 \lineskip .5em%
19103 \begin{tabular}[t]{c}%
19104 \@author
19105 \end{tabular}\par}%
19106 \vskip 1em%
19107 {\large \TitleFont \@date}%
19108 \end{center}%
19109 \par
19110 \vskip 1.5em}
19111 \fi

```

## 138 File rapport3-xetex-bidi.def

```

19112 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class]
19113 \renewenvironment{theindex}{%
19114 \if@twocolumn
19115 \@restonecolfalse
19116 \else
19117 \@restonecoltrue
19118 \fi
19119 \columnseprule \z@
19120 \columnsep 35\p@
19121 \twocolumn[\@makeschapterhead{\indexname}]{%
19122 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
19123 \thispagestyle{plain}\parindent\z@
19124 \parskip\z@ \@plus .3\p@\relax
19125 \let\item\@idxitem
19126 }{%
19127 \if@restonecol\onecolumn\else\clearpage\fi}
19128 \if@titlepage
19129 \renewcommand*\TitleFont{\rmfamily}
19130 \renewcommand*\maketitle{%
19131 \begin{titlepage}%
19132 \let\footnotesize\small
19133 \let\right@footnoterule\relax

```



```

19134 \let\left@footnoterule\relax
19135 \let\textwidth@footnoterule\relax
19136 \let \footnote \thanks
19137 \let \LTRfootnote \LTRthanks
19138 \let \RTLfootnote \RTLthanks
19139 \long\def\@makefntext##1{\parindent\z@
19140     \def\labelitemi{\textendash}\@revlabeltrue
19141     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19142 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19143 \if@compatibility\setcounter{page}{0}\fi
19144 \null\vfil
19145 \vskip 60\p@
19146 \begin{center}%
19147     \TitleFont
19148     {\LARGE \def\\{\penalty -\@M}
19149     \if@allcaps
19150         \expandafter\uc@nothanks\@title\thanks\relax
19151     \else
19152         \@title
19153     \fi\par}%
19154 \vskip 3em%
19155 {\large
19156     \lineskip .75em \parindent\z@
19157     \begin{tabular}[t]{c}%
19158         \if@allcaps
19159             \expandafter\uc@authornothanks\@author\and\relax
19160         \else
19161             \@author
19162         \fi
19163     \end{tabular}\par}%
19164 \vskip 1.5em%
19165 {\large
19166     \if@allcaps
19167         \uppercase\expandafter{\@date}%
19168     \else
19169         \@date
19170     \fi\par}%
19171 \end{center}\par
19172 \@thanks
19173 \vfil\null
19174 \end{titlepage}%
19175 \setcounter{footnote}{0}%
19176 \global\let\thanks\relax
19177 \global\let\LTRthanks\relax
19178 \global\let\RTLthanks\relax
19179 \global\let\maketitle\relax
19180 \global\let\@thanks\@empty
19181 \global\let\@author\@empty
19182 \global\let\@title\@empty
19183 \global\let\@date\@empty
19184 \global\let\title\relax
19185 \global\let\author\relax
19186 \global\let\date\relax
19187 \global\let\and\relax

```





```

19188 }
19189 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19190 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19191     \futurelet\@tempa\uc@ax}
19192 \def\uc@ax{%
19193     \ifx\@tempa\relax
19194     \else
19195         \\\andname \\\expandafter\uc@authornothanks
19196     \fi}
19197 \def\uc@tx{\ifx\@tempa\relax
19198     \else \expandafter\uc@ty \fi}
19199 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19200 \else
19201 \renewcommand*\maketitle{\par
19202     \begingroup
19203     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19204     \def\@makefnmark{\rlap{%
19205         \@textsuperscript{\normalfont\@thefnmark}}}%
19206     \long\def\@makefntext{\@xmakefntext{%
19207         \@textsuperscript{\normalfont\@thefnmark}}}%
19208     \if@twocolumn
19209         \ifnum \col@number=\@ne
19210             \maketitle
19211         \else
19212             \twocolumn[\maketitle]%
19213         \fi
19214     \else
19215         \newpage
19216         \global\@topnum\z@
19217         \maketitle
19218     \fi
19219     \thispagestyle{plain}\@thanks
19220 \endgroup
19221 \setcounter{footnote}{0}%
19222 \global\let\thanks\relax
19223 \global\let\LTRthanks\relax
19224 \global\let\RTLthanks\relax
19225 \global\let\maketitle\relax
19226 \global\let\@maketitle\relax
19227 \global\let\@thanks\@empty
19228 \global\let\@author\@empty
19229 \global\let\@title\@empty
19230 \global\let\@date\@empty
19231 \global\let\title\relax
19232 \global\let\author\relax
19233 \global\let\date\relax
19234 \global\let\and\relax
19235 }
19236 \def\@maketitle{%
19237     \newpage
19238     \null
19239     \vskip 2em%
19240     \if@titlecentered
19241         \begin{center}%

```



```

19242 \let \footnote \thanks
19243 \let \LTRfootnote \LTRthanks
19244 \let \RTLfootnote \RTLthanks
19245 {\LARGE \TitleFont \@title \par}%
19246 \vskip 1.5em%
19247 {\large \TitleFont
19248 \lineskip .5em%
19249 \begin{tabular}[t]{c}%
19250 \@author
19251 \end{tabular}\par}%
19252 \vskip 1em%
19253 {\large \TitleFont \@date}%
19254 \end{center}%
19255 \else
19256 {\LARGE \TitleFont \headstyle \@title \par} \vskip 1.5em
19257 {\large \TitleFont \lineskip .5em \tabcolsep\z@
19258 \def\and{%% \begin{tabular} has already started
19259 \end{tabular}\hskip 1em plus .17fil
19260 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tab
19261 \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}
19262 \vskip 1em {\large \TitleFont \@date}
19263 \fi
19264 \par
19265 \vskip 1.5em}
19266 \fi
19267 \renewcommand*\@regtocline[3]{%
19268 \ifnum #1>\c@tocdepth
19269 \else
19270 \vskip\z@\@plus.2\p@
19271 {\hangindent\z@ \@afterindenttrue \interlinepenalty\M
19272 \ifRTL\righskip\else\leftskip\fi\unitindent
19273 \ifRTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
19274 \parfillskip\z@
19275 \@tempdima\unitindent
19276 \parindent\z@
19277 \leavevmode
19278 \hbox{}\hskip -\ifRTL\righskip\else\leftskip\fi\relax#2\nobreak
19279 \hskip 1em \nobreak{\slshape #3}\par
19280 }%
19281 \fi}
19282 \if@oldtoc
19283 \renewcommand*\l@part[2]{%
19284 \ifnum \c@tocdepth >-2\relax
19285 \addpenalty{-\@highpenalty}%
19286 \addvspace{2.25em \@plus\p@}%
19287 \begingroup
19288 \setlength\@tempdima{3em}%
19289 \parindent \z@ \ifRTL\leftskip\else\righskip\fi \@pnumwidth
19290 \parfillskip -\@pnumwidth
19291 {\leavevmode
19292 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19293 \nobreak
19294 \global\@nobreaktrue
19295 \everypar{\global\@nobreakfalse\everypar{}}%

```



```

19296 \endgroup
19297 \fi}
19298 \else
19299 \renewcommand*\l@part{%
19300 \ifnum \c@tocdepth >-2\relax
19301 \addpenalty{-\@highpenalty}%
19302 \addvspace{2.25em \@plus \p@}%
19303 \@regtocline{0}%
19304 \fi}
19305 \fi
19306 \if@oldtoc
19307 \renewcommand*\l@chapter[2]{%
19308 \addpenalty{-\@highpenalty}%
19309 \vskip 1.0em \@plus \p@
19310 \setlength\@tempdima{1.5em}%
19311 \begingroup
19312 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19313 \parfillskip -\@pnumwidth
19314 \leavevmode \bfseries
19315 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
19316 \hskip -\if@RTL\rightskip\else\leftskip\fi
19317 #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
19318 \penalty\@highpenalty
19319 \endgroup}
19320 \else
19321 \renewcommand*\l@chapter{\@regtocline{0}}
19322 \fi
19323 \renewcommand*\head@style{%
19324 \interlinepenalty \@M
19325 \hyphenpenalty=\@M \exhyphenpenalty=\@M
19326 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
19327 \if@titlepage
19328 \renewenvironment{abstract}{%
19329 \titlepage
19330 \null\vfil
19331 \section*\{SectFont\abstractname}%
19332 \noindent\ignorespaces
19333 {\par\vfil\null\endtitlepage}
19334 \else
19335 \renewenvironment{abstract}{%
19336 \if@twocolumn
19337 \section*\{abstractname}%
19338 \else
19339 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
19340 \section*\{small\SectFont\abstractname}%
19341 \noindent\ignorespaces
19342 \fi}
19343 {\if@twocolumn\else\par\egroup\fi}
19344 \fi
19345 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19346 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
19347 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
19348 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\cparagraph}
19349 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\csubparagraph}

```



```

19350 \renewcommand*\thefigure{%
19351   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
19352 \renewcommand*\thetable{%
19353   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
19354 \renewcommand*\theequation{%
19355   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19356 \renewenvironment{thebibliography}[1]
19357   {\chapter*{\bibname}%
19358    \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19359    \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19360    \bidi@thebibliography@font@hook%
19361    \list{\@biblabel{\@arabic\c@enumiv}}%
19362      {\settowidth\labelwidth{\@biblabel{#1}}%
19363       \leftmargin\labelwidth
19364       \advance\leftmargin\labelsep
19365       \@openbib@code
19366       \usecounter{enumiv}%
19367       \let\p@enumiv\@empty
19368       \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19369    \sloppy\clubpenalty4000\widowpenalty4000%
19370    \sfcode`\.\@m}
19371    {\def\@noitemerr
19372     {\@latex@warning{Empty `thebibliography' environment}}%
19373     \endlist}
19374 \renewcommand*\left@footnoterule{%
19375   \kern-3\p@
19376   \kern.5\baselineskip
19377   \hrule\@width\unitindent
19378   \kern.4\baselineskip
19379 }
19380 \renewcommand*\right@footnoterule{%
19381   \kern-3\p@
19382   \kern.5\baselineskip
19383   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19384   \kern.4\baselineskip}
19385 \renewcommand*\head@style{%
19386   \interlinepenalty \@M
19387   \hyphenpenalty=\@M \exhyphenpenalty=\@M
19388   \ifRTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 139 File refrep-xetex-bidi.def

```

19389 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for
19390 \if@titlepage
19391   \renewcommand\maketitle{\begin{titlepage}%
19392     \let\footnotesize\small
19393     \let\right@footnoterule\relax
19394     \let\left@footnoterule\relax
19395     \let\textwidth\footnoterule\relax
19396     \let\footnote\thanks
19397     \let\LTRfootnote\LTRthanks
19398     \let\RTLfootnote\RTLthanks
19399     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19400     \def\@makefnmark%

```



```

19401      {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19402 \long\def\@makefnmark##1{%
19403     \setpar{\@par
19404       \@tempdima = \hsize
19405       \advance\@tempdima -1em
19406       \parshape \@ne 1em \@tempdima}%
19407     \par\parindent 1em \noindent
19408     \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19409 \null\vfil
19410 \vskip 60\p@
19411 \begin{center}%
19412   {\LARGE \@title \par}%
19413   \vskip 3em%
19414   {\large
19415     \lineskip .75em%
19416     \begin{tabular}[t]{c}%
19417       \@author
19418       \end{tabular}\par}%
19419   \vskip 1.5em%
19420   {\large \@date \par}%           % Set date in \large size.
19421 \end{center}\par
19422 \@thanks
19423 \vfil\null
19424 \end{titlepage}%
19425 \setcounter{footnote}{0}%
19426 \global\let\thanks\relax
19427 \global\let\LTRthanks\relax
19428 \global\let\RTLthanks\relax
19429 \global\let\maketitle\relax
19430 \global\let\@thanks\@empty
19431 \global\let\@author\@empty
19432 \global\let\@date\@empty
19433 \global\let\@title\@empty
19434 \global\let\title\relax
19435 \global\let\author\relax
19436 \global\let\date\relax
19437 \global\let\and\relax
19438 }
19439 \else
19440 \renewcommand\maketitle{\par
19441   \begingroup
19442     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19443     \def\@makefnmark%
19444       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19445     \long\def\@makefnmark##1{%
19446       \setpar{\@par
19447         \@tempdima = \hsize
19448         \advance\@tempdima -1em
19449         \parshape \@ne 1em \@tempdima}%
19450       \par\parindent 1em \noindent
19451       \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19452     \if@twocolumn
19453       \ifnum \col@number=\@ne
19454         \@maketitle

```



```

19455         \else
19456         \twocolumn[\@maketitle]%
19457         \fi
19458     \else
19459         \newpage
19460         \global\@topnum\z@    % Prevents figures from going at top of page.
19461         \@maketitle
19462         \fi
19463         \thispagestyle{empty}\@thanks
19464     \endgroup
19465     \setcounter{footnote}{0}%
19466     \global\let\thanks\relax
19467     \global\let\LTRthanks\relax
19468     \global\let\RTLthanks\relax
19469     \global\let\maketitle\relax
19470     \global\let\@maketitle\relax
19471     \global\let\@thanks\@empty
19472     \global\let\@author\@empty
19473     \global\let\@date\@empty
19474     \global\let\@title\@empty
19475     \global\let\title\relax
19476     \global\let\author\relax
19477     \global\let\date\relax
19478     \global\let\and\relax
19479 }
19480 \def\@maketitle{%
19481     \newpage
19482     \null
19483     \longthickrule\vskip1.5em%
19484     \let \footnote \thanks
19485     \let \LTRfootnote \LTRthanks
19486     \let \RTLfootnote \RTLthanks
19487     {\secshape \parskip\z@ \parindent\z@
19488     \Large\bfseries \@title \par}%
19489     \vskip1.5em\longthickrule\vskip1.5em%
19490     {\normalsize
19491     \lineskip .5em%
19492     \begin{flushright}%
19493         {\slshape\@author\par}
19494         \vskip 1em%
19495         {\@date}%
19496     \end{flushright}\par}%
19497     \vskip 1.5em}
19498 \fi
19499 \renewcommand*\l@part[2]{%
19500     \ifnum \c@tocdepth >-2\relax
19501         \addpenalty{-\@highpenalty}%
19502         \addvspace{2.25em \@plus\p@}%
19503         \begingroup
19504             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19505             \parfillskip -\@pnumwidth
19506             {\leavevmode
19507             \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
19508             \nobreak

```



```

19509         \global\@nobreaktrue
19510         \everypar{\global\@nobreakfalse\everypar{}}%
19511     \endgroup
19512 \fi}
19513 \renewcommand*\l@chapter[2]{%
19514     \ifnum \c@tocdepth >\m@ne
19515         \addpenalty{-\@highpenalty}%
19516         \vskip 1.0em \@plus\p@
19517         \setlength\@tempdima{1.5em}%
19518         \begingroup
19519         \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19520         \parfillskip -\@pnumwidth
19521         \leavevmode \bfseries
19522         \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19523         \hskip -\if@RTL\rightskip\else\leftskip\fi
19524         #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19525         \penalty\@highpenalty
19526     \endgroup
19527 \fi}
19528 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
19529                     \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
19530                     \hyphenpenalty=2000}
19531 \renewcommand\left@footnoterule{%
19532     \kern-3\p@
19533     \hrule\@width.4\columnwidth
19534     \kern 2.6\p@}
19535 \renewcommand\right@footnoterule{%
19536     \kern-3\p@
19537     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19538     \kern2.6\p@}
19539 \renewcommand\theequation
19540 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19541 \renewcommand\thefigure
19542 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19543 \renewcommand\thetable%
19544 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19545 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
19546 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19547 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19548 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19549 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19550 \renewenvironment{thebibliography}[1]
19551 {\chapter*\bibname
19552     \mkboth{\bibname}{\bibname}}%
19553     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19554     \bidi@thebibliography@font@hook%
19555     \list{\@biblabel{\@arabic\c@enumiv}}%
19556         {\settowidth\labelwidth{\@biblabel{#1}}%
19557         \leftmargin\labelwidth
19558         \advance\leftmargin\labelsep
19559         \@openbib@code
19560         \usecounter{enumiv}%
19561         \let\p@enumiv\empty
19562         \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

19563         \sloppy
19564         \clubpenalty4000
19565         \@clubpenalty \clubpenalty
19566         \widowpenalty4000%
19567     \sfcode`\.\=@m}
19568 {\def\@noitemerr
19569     {\@latex@warning{Empty `thebibliography' environment}}}%
19570     \endlist}

```

## 140 File report-xetex-bidi.def

```

19571 \ProvidesFile{report-xetex-bidi.def}[2025/09/04 v1.0 bidi adaptations for standard report c
19572 \renewenvironment{theindex}
19573     {\if@twocolumn
19574       \@restonecolfalse
19575       \else
19576         \@restonecoltrue
19577       \fi
19578       \columnseprule \z@
19579       \columnsep 35\p@
19580       \twocolumn[\@makeschapterhead{\indexname}]}%
19581       \@mkboth{\MakeUppercase\indexname}%
19582               {\MakeUppercase\indexname}%
19583       \thispagestyle{plain}\parindent\z@
19584       \parskip\z@ \@plus .3\p@\relax
19585       \let\item\@idxitem}
19586     {\if@restonecol\onecolumn\else\clearpage\fi}
19587 \if@titlepage
19588 \renewcommand\maketitle{\begin{titlepage}%
19589 \let\footnotesize\small
19590 \let\right@footnoterule\relax
19591 \let\left@footnoterule\relax
19592 \let\textwidth\footnoterule\relax
19593 \let \footnote \thanks
19594 \let \LTRfootnote \LTRthanks
19595 \let \RTLfootnote \RTLthanks
19596 \null\vfil
19597 \vskip 60\p@
19598 \begin{center}%
19599   {\LARGE \@title \par}%
19600   \vskip 3em%
19601   {\large
19602     \lineskip .75em%
19603     \begin{tabular}[t]{c}%
19604       \@author
19605     \end{tabular}\par}%
19606     \vskip 1.5em%
19607     {\large \@date \par}%           % Set date in \large size.
19608 \end{center}\par
19609 \@thanks
19610 \vfil\null
19611 \end{titlepage}%
19612 \setcounter{footnote}{0}%
19613 \global\let\thanks\relax

```





```

19614 \global\let\LTRthanks\relax
19615 \global\let\RTLthanks\relax
19616 \global\let\maketitle\relax
19617 \global\let\@thanks\@empty
19618 \global\let\@author\@empty
19619 \global\let\@date\@empty
19620 \global\let\@title\@empty
19621 \global\let\title\relax
19622 \global\let\author\relax
19623 \global\let\date\relax
19624 \global\let\and\relax
19625 }
19626 \else
19627 \renewcommand\maketitle{\par
19628 \begin{group}
19629 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19630 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19631 \long\def\@makefntext##1{\parindent 1em\noindent
19632 \hb@xt@1.8em{%
19633 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
19634 \if@twocolumn
19635 \ifnum \col@number=\@ne
19636 \@maketitle
19637 \else
19638 \twocolumn[\@maketitle]%
19639 \fi
19640 \else
19641 \newpage
19642 \global\@topnum\z@ % Prevents figures from going at top of page.
19643 \@maketitle
19644 \fi
19645 \thispagestyle{plain}\@thanks
19646 \end{group}
19647 \setcounter{footnote}{0}%
19648 \global\let\thanks\relax
19649 \global\let\LTRthanks\relax
19650 \global\let\RTLthanks\relax
19651 \global\let\maketitle\relax
19652 \global\let\@maketitle\relax
19653 \global\let\@thanks\@empty
19654 \global\let\@author\@empty
19655 \global\let\@date\@empty
19656 \global\let\@title\@empty
19657 \global\let\title\relax
19658 \global\let\author\relax
19659 \global\let\date\relax
19660 \global\let\and\relax
19661 }
19662 \def\@maketitle{%
19663 \newpage
19664 \null
19665 \vskip 2em%
19666 \begin{center}%
19667 \let \footnote \thanks

```



```

19668 \let \LTRfootnote \LTRthanks
19669 \let \RTLfootnote \RTLthanks
19670 {\LARGE \@title \par}%
19671 \vskip 1.5em%
19672 {\large
19673 \lineskip .5em%
19674 \begin{tabular}[t]{c}%
19675 \@author
19676 \end{tabular}\par}%
19677 \vskip 1em%
19678 {\large \@date}%
19679 \end{center}%
19680 \par
19681 \vskip 1.5em}
19682 \fi
19683 \IfPackageLoadedF{tocloft}{%
19684 \renewcommand*\l@part[2]{%
19685 \ifnum \c@tocdepth >-2\relax
19686 \addpenalty{-\@highpenalty}%
19687 \addvspace{2.25em \@plus\p@}%
19688 \setlength\@tempdima{3em}%
19689 \begingroup
19690 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19691 \parfillskip -\@pnumwidth
19692 {\leavevmode
19693 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19694 \nobreak
19695 \global\@nobreaktrue
19696 \everypar{\global\@nobreakfalse\everypar{}}%
19697 \endgroup
19698 \fi}
19699 \renewcommand*\l@chapter[2]{%
19700 \ifnum \c@tocdepth >\m@ne
19701 \addpenalty{-\@highpenalty}%
19702 \vskip 1.0em \@plus\p@
19703 \setlength\@tempdima{1.5em}%
19704 \begingroup
19705 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19706 \parfillskip -\@pnumwidth
19707 \leavevmode \bfseries
19708 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19709 \hskip -\if@RTL\rightskip\else\leftskip\fi
19710 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19711 \penalty\@highpenalty
19712 \endgroup
19713 \fi}
19714 }
19715 \renewcommand\left@footnoterule{%
19716 \kern-3\p@
19717 \hrule\@width.4\columnwidth
19718 \kern2.6\p@}
19719 \renewcommand\right@footnoterule{%
19720 \kern-3\p@
19721 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }}

```



```

19722 \kern2.6\p@}
19723 \renewcommand\theequation
19724 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19725 \renewcommand \thefigure
19726 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19727 \renewcommand \thetable
19728 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19729 \renewcommand \thechapter {\@arabic\c@chapter}
19730 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
19731 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19732 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19733 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
19734 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
19735 \def\@makechapterhead#1{%
19736 \vspace*{50\p@}%
19737 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
19738 \ifnum \c@secnumdepth >\m@ne
19739 \huge\bfseries \@chapapp\space \thechapter
19740 \par\nobreak
19741 \vskip 20\p@
19742 \fi
19743 \interlinepenalty\@M
19744 \Huge \bfseries #1\par\nobreak
19745 \vskip 40\p@
19746 }}
19747 \def\@makeschapterhead#1{%
19748 \vspace*{50\p@}%
19749 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
19750 \normalfont
19751 \interlinepenalty\@M
19752 \Huge \bfseries #1\par\nobreak
19753 \vskip 40\p@
19754 }}
19755 \IfPackageLoadedF{natbib}{%
19756 \renewenvironment{thebibliography}[1]
19757 {\chapter*{\bibname}%
19758 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19759 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19760 \bidi@thebibliography@font@hook%
19761 \list{\@biblabel{\@arabic\c@enumiv}}%
19762 {\settowidth\labelwidth{\@biblabel{#1}}%
19763 \leftmargin\labelwidth
19764 \advance\leftmargin\labelsep
19765 \@openbib@code
19766 \usecounter{enumiv}%
19767 \let\p@enumiv\@empty
19768 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19769 \sloppy
19770 \clubpenalty4000
19771 \@clubpenalty \clubpenalty
19772 \widowpenalty4000%
19773 \sfcode\.\@m}
19774 {\def\@noitemerr
19775 {\@latex@warning{Empty `thebibliography' environment}}}%

```



```

19776     \endlist}
19777 }

```

## 141 File rotating-xetex-bidi.def

```

19778 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating packag
19779 \def\end@rotfloat{%
19780     \end{minipage}\end{lrbox}%
19781     \stepcounter{r@tfl@t}%
19782     \rot@label{RF\ther@tfl@t}%
19783     \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19784     \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
19785     \rot@mess@toks\expandafter{\@tempa}
19786     \wd\rot@float@box\z@
19787     \ht\rot@float@box\z@
19788     \dp\rot@float@box\z@
19789     \vboxL to \textheight{%
19790         \setkeys{Grot}{units=360}%
19791         \if@rot@twoside
19792         \else
19793             \let\R@@page\rot@LR
19794         \fi
19795         \ifthenelse{\isodd{\R@@page}}{%
19796             \if@rot@twoside
19797                 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19798             \fi
19799             \vfill
19800             \@@line{%
19801                 \hskip\rotFPtop
19802                 \rotatebox{90}{\box\rot@float@box}%
19803                 \hskip\rotFPbot
19804             }%
19805         }{%
19806             \if@rot@twoside
19807                 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19808             \fi
19809             \@@line{%
19810                 \hskip\rotFPbot
19811                 \rotatebox{-90}{\box\rot@float@box}%
19812                 \hskip\rotFPtop
19813             }%
19814             \vfill
19815         }%
19816         \rot@message{\the\rot@mess@toks}
19817     }%
19818     \end@float
19819 }
19820 \let\endsidewaysfigure\end@rotfloat
19821 \let\endsidewaystable\end@rotfloat
19822 \def\end@rotdblfloat{%
19823     \end{minipage}\end{lrbox}%
19824     \stepcounter{r@tfl@t}%
19825     \rot@label{RF\ther@tfl@t}%
19826     \rot@pageref{RF\ther@tfl@t}{\R@@page}%

```



```

19827 \edef\@tempa{Adding sideways \@captype\space on page \R@@page\space}
19828 \rot@mess@toks\expandafter{\@tempa}
19829 \@tempdima\ht\rot@float@box
19830 \advance\@tempdima by \dp\rot@float@box
19831 \wd\rot@float@box\z@
19832 \ht\rot@float@box\z@
19833 \dp\rot@float@box\z@
19834 \vboxL to \textheight{%
19835   \setkeys{Grot}{units=360}%
19836   \if@rot@twoside
19837   \else
19838     \let\R@@page\rot@LR
19839   \fi
19840   \ifthenelse{\isodd{\R@@page}}{%
19841     \ifrot@messages
19842     \if@rot@twoside
19843     \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19844 \fi
19845   \fi
19846   \vfill
19847   \@@line{%
19848     \hskip\rotFPtop
19849     \rotatebox{90}{\box\rot@float@box}%
19850     \hskip\rotFPbot
19851   }%
19852 }{%
19853   \ifrot@messages
19854   \if@rot@twoside
19855   \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19856 \fi
19857 \fi%
19858 \@@line{%
19859   \hskip\rotFPbot
19860   \rotatebox{-90}{\box\rot@float@box}%
19861   \hskip\rotFPtop
19862 }%
19863 \vfill
19864 }%
19865 \rot@message{\the\rot@mess@toks}%
19866 }%
19867 \end@dblfloat
19868 }
19869 \def\turn#1{%
19870   \Grot@setangle{#1}%
19871   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19872 \def\endturn{%
19873   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19874   \unskip\color@endbox
19875   \Grot@x\z@
19876   \Grot@y\z@
19877   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19878 }
19879 \def\rotate#1{%
19880   \Grot@setangle{#1}%

```



```

19881 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19882 \def\endrotate{%
19883 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19884 \unskip\color@endbox
19885 \Grot@x\z@
19886 \Grot@y\z@
19887 \wd0\z@\dp0\z@\ht0\z@
19888 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19889 }
19890 \def\turnbox#1#2{%
19891 \Grot@setangle{#1}%
19892 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR
19893 \Grot@x\z@\Grot@y\z@
19894 \wd0\z@\dp0\z@\ht0\z@
19895 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19896 }
19897 \def\sideways{%
19898 \Grot@setangle{90}%
19899 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19900 \def\endsideways{%
19901 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19902 \unskip\color@endbox
19903 \Grot@x\z@
19904 \Grot@y\z@
19905 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19906 }

```

## 142 File scrartcl-xetex-bidi.def

```

19907 \ProvidesFile{scrartcl-xetex-bidi.def}[2025/09/20 v1.4 bidi adaptations for scrartcl class]
19908 \newcommand{\scr@saved@LTRfootnotetext}{}
19909 \newcommand{\scr@saved@RTLfootnotetext}{}
19910 \let\scr@saved@footnotetext\@footnotetext
19911 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
19912 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
19913 \renewcommand{\@footnotetext}[1]{%
19914 \scr@saved@footnotetext{#1}%
19915 \csname FN@mf@prepare\endcsname
19916 }
19917 \renewcommand{\@LTRfootnotetext}[1]{%
19918 \scr@saved@LTRfootnotetext{#1}%
19919 \csname FN@mf@prepare\endcsname
19920 }
19921 \renewcommand{\@RTLfootnotetext}[1]{%
19922 \scr@saved@RTLfootnotetext{#1}%
19923 \csname FN@mf@prepare\endcsname
19924 }
19925 \renewcommand\deffootnote[4][1]{%
19926 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
19927 \long\def\@makefntext##1{%
19928 \ExecuteDoHook{footnote/text/begin}%
19929 \raggedfootnote
19930 \if@RTL
19931 \rightskip

```



```

19932     \else
19933         \leftskip
19934     \fi
19935     #2
19936     \l@addto@macro\@trivlist{%
19937         \ifnum\@listdepth=\@ne
19938             \if@RTL
19939                 \advance\rightmargin #2\relax
19940             \else
19941                 \advance\leftmargin #2\relax
19942             \fi
19943         \fi
19944     }%
19945     \parindent #3\noindent
19946     \IfArgIsEmpty{#1}{}{%
19947         \hskip \dimexpr #1-#2\relax
19948     }%
19949     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
19950     \ExecuteDoHook{footnote/text/end}%
19951 }%
19952 \else
19953     \ClassInfo{\KOMAClassName}{%
19954         Using old \string\@makefnmark\space due to compatibility
19955         level\MessageBreak
19956         less than 3.22}%
19957     \long\def\@makefnmark##1{%
19958         \setlength{\@tempdimc}{#3}%
19959         \def\@tempa{#1}\ifx\@tempa\@empty
19960             \setpar{\@par
19961                 \@tempdima = \hsize
19962                 \addtolength{\@tempdima}{-#2}%
19963                 \if@RTL
19964                     \parshape \@ne \z@ \@tempdima
19965                 \else
19966                     \parshape \@ne #2 \@tempdima
19967                 \fi}%
19968         \else
19969             \addtolength{\@tempdimc}{#2}%
19970             \addtolength{\@tempdimc}{-#1}%
19971             \setpar{\@par
19972                 \@tempdima = \hsize
19973                 \addtolength{\@tempdima}{-#1}%
19974                 \@tempdimb = \hsize
19975                 \addtolength{\@tempdimb}{-#2}%
19976                 \if@RTL
19977                     \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
19978                 \else
19979                     \parshape \tw@ #1 \@tempdima #2 \@tempdimb
19980                 \fi
19981             }%
19982         \fi
19983     \par
19984     \parindent\@tempdimc\noindent
19985     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%

```



```

19986 }%
19987 \fi
19988 \def\@@makefnmark{\hbox{\ftnm@font{#4}}}%
19989 }
19990 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
19991 \renewcommand*\left@footnoterule{%
19992 \normalsize\ftn@rule@test@values
19993 \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
19994 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
19995 {\usekomafont{footnoterule}{%
19996 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}}%
19997 \kern 2.6\p@}
19998 \renewcommand*\right@footnoterule{%
19999 \normalsize\ftn@rule@test@values
20000 \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
20001 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20002 {\usekomafont{footnoterule}{%
20003 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
20004 \kern 2.6\p@}
20005 \renewcommand*\maketitle[1][1]{%
20006 \expandafter\ifnum \cscname scr@v@3.12\endcscname>\scr@compatibility\relax
20007 \else
20008 \def\and{%
20009 \end{tabular}}%
20010 \hskip 1em \@plus.17fil%
20011 \begin{tabular}[t]{c}%
20012 }%
20013 \fi
20014 \if@titlepage
20015 \begin{titlepage}
20016 \setcounter{page}{%
20017 #1%
20018 }%
20019 \if@titlepageiscoverpage
20020 \edef\titlename@restore{%
20021 \noexpand\endgroup
20022 \noexpand\global\noexpand\@colht\the\@colht
20023 \noexpand\global\noexpand\@colroom\the\@colroom
20024 \noexpand\global\vsizet\the\vsizet
20025 \noexpand\global\noexpand\@titlepageiscoverpagefalse
20026 \noexpand\let\noexpand\titlename@restore\noexpand\relax
20027 }%
20028 \begingroup
20029 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20030 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20031 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20032 \textwidth=\dimexpr
20033 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20034 \textheight=\dimexpr
20035 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20036 \headheight=0pt
20037 \headsep=0pt
20038 \footskip=\baselineskip
20039 \@colht=\textheight

```





```

20040      \@colroom=\textheight
20041      \vsize=\textheight
20042      \columnwidth=\textwidth
20043      \hsize=\columnwidth
20044      \linewidth=\hsize
20045      \else
20046      \let\titlepage@restore\relax
20047      \fi
20048      \let\footnotesize\small
20049      \let\right@footnoterule\relax
20050      \let\left@footnoterule\relax
20051      \let\textwidth@footnoterule\relax
20052      \let\footnote\thanks
20053      \let\LTRfootnote\LTRthanks
20054      \let\RTLfootnote\RTLthanks
20055      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20056      \let\@oldmakefnmark\@makefnmark
20057      \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20058      \ifx\@extratitle\@empty
20059      \ifx\@frontispiece\@empty
20060      \else
20061      \if@twoside\mbox{}\next@tpage\fi
20062      \noindent\@frontispiece\next@tdpage
20063      \fi
20064      \else
20065      \noindent\@extratitle
20066      \ifx\@frontispiece\@empty
20067      \else
20068      \next@tpage
20069      \noindent\@frontispiece
20070      \fi
20071      \next@tdpage
20072      \fi
20073      \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20074      \ifx\@titlehead\@empty \else
20075      \begin{minipage}[t]{\textwidth}%
20076      \usekomafont{titlehead}{\@titlehead\par}%
20077      \end{minipage}\par
20078      \fi
20079      \null\vfill
20080      \begin{center}
20081      \ifx\@subject\@empty \else
20082      {\usekomafont{subject}{\@subject\par}}%
20083      \vskip 3em
20084      \fi
20085      {\usekomafont{title}{\huge \@title\par}}%
20086      \vskip 1em
20087      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20088      \vskip 2em
20089      {%
20090      \usekomafont{author}{%
20091      \lineskip 0.75em
20092      \begin{tabular}[t]{c}
20093      \@author

```



```

20094         \end{tabular}\par
20095     }%
20096 }%
20097 \vskip 1.5em
20098 {\usekomafont{date}{\@date \par}}%
20099 \vskip \z@ \@plus3fill
20100 {\usekomafont{publishers}{\@publishers \par}}%
20101 \vskip 3em
20102 \end{center}\par
20103 \@thanks\global\let\@thanks\@empty
20104 \vfill\null
20105 \if@twoside
20106     \@tempswatrue
20107 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20108 \else
20109     \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20110         \@tempswafalse
20111     \fi\fi
20112 \fi
20113 \if@tempswa
20114     \next@tpage
20115     \begin{minipage}[t]{\textwidth}
20116         \@uppertitleback
20117     \end{minipage}\par
20118     \vfill
20119     \begin{minipage}[b]{\textwidth}
20120         \@lowertitleback
20121     \end{minipage}\par
20122     \@thanks\global\let\@thanks\@empty
20123 \fi
20124 \else
20125     \ifx\@uppertitleback\@empty\else
20126         \ClassWarning{\KOMAClassName}{%
20127             non empty \string\uppertitleback\space ignored
20128             by \string\maketitle\MessageBreak
20129             in `twoside=false' mode%
20130         }%
20131     \fi
20132     \ifx\@lowertitleback\@empty\else
20133         \ClassWarning{\KOMAClassName}{%
20134             non empty \string\lowertitleback\space ignored
20135             by \string\maketitle\MessageBreak
20136             in `twoside=false' mode%
20137         }%
20138     \fi
20139 \fi
20140 \ifx\@dedication\@empty
20141 \else
20142     \next@tdpage\null\vfill
20143     {\centering\usekomafont{dedication}{\@dedication \par}}%
20144     \vskip \z@ \@plus3fill
20145     \@thanks\global\let\@thanks\@empty
20146     \cleardoubleemptypage
20147 \fi

```



```

20148     \ifx\tITLEPAGE@restore\relax\else\clearpage\tITLEPAGE@restore\fi
20149 \end{titlepage}
20150 \else
20151   \par
20152   \@tempcnta=
20153   #1%
20154   \relax\ifnum\@tempcnta=1\else
20155     \ClassWarning{\KOMAClassName}{%
20156       Optional argument of \string\maketitle\space ignored\MessageBreak
20157       in `titlepage=false' mode%
20158     }%
20159   \fi
20160   \ifx\@uppertitleback\@empty\else
20161     \ClassWarning{\KOMAClassName}{%
20162       non empty \string\uppertitleback\space ignored
20163       by \string\maketitle\MessageBreak
20164       in `titlepage=false' mode%
20165     }%
20166   \fi
20167   \ifx\@lowertitleback\@empty\else
20168     \ClassWarning{\KOMAClassName}{%
20169       non empty \string\lowertitleback\space ignored
20170       by \string\maketitle\MessageBreak
20171       in `titlepage=false' mode%
20172     }%
20173   \fi
20174   \begingroup
20175     \let\tITLEPAGE@restore\relax
20176     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20177     \let\@oldmakefnmark\@makefnmark
20178     \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20179     \next@tdpage
20180     \if@twocolumn
20181       \ifnum \col@number=\@one
20182         \ifx\@extratitle\@empty
20183           \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20184         \else
20185           \@makeextratitle
20186         \fi
20187         \ifx\@frontispiece\@empty
20188           \ifx\@extratitle\@empty\else\next@tdpage\fi
20189         \else
20190           \next@tpage
20191           \@makefrontispiece
20192           \next@tdpage
20193         \fi
20194         \@maketitle
20195       \else
20196         \ifx\@extratitle\@empty
20197           \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20198         \else
20199           \twocolumn[\@makeextratitle]%
20200         \fi
20201         \ifx\@frontispiece\@empty

```



```

20202         \ifx\@extratitle\@empty\else\next@tdpage\fi
20203     \else
20204         \next@tpage
20205         \twocolumn[\@makefrontispiece]%
20206         \next@tdpage
20207     \fi
20208     \twocolumn[\@maketitle]%
20209 \fi
20210 \else
20211     \ifx\@extratitle\@empty
20212         \ifx\@frontispiece\@empty\else \mbox{}\fi
20213     \else
20214         \@makeextratitle
20215     \fi
20216     \ifx\@frontispiece\@empty
20217         \ifx\@extratitle\@empty\else\next@tdpage\fi
20218     \else
20219         \next@tpage
20220         \@makefrontispiece
20221         \next@tdpage
20222     \fi
20223     \@maketitle
20224 \fi
20225     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20226     \@thanks\global\let\@thanks\@empty
20227 \endgroup
20228 \fi
20229 \setcounter{footnote}{0}%
20230 \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
20231     \let\thanks\relax
20232     \let\LTRthanks\relax
20233     \let\RTLthanks\relax
20234     \let\maketitle\relax
20235     \let\@maketitle\relax
20236     \global\let\@thanks\@empty
20237     \global\let\@author\@empty
20238     \global\let\@date\@empty
20239     \global\let\@title\@empty
20240     \global\let\@subtitle\@empty
20241     \global\let\@extratitle\@empty
20242     \global\let\@frontispiece\@empty
20243     \global\let\@titlehead\@empty
20244     \global\let\@subject\@empty
20245     \global\let\@publishers\@empty
20246     \global\let\@uppertitleback\@empty
20247     \global\let\@lowertitleback\@empty
20248     \global\let\@dedication\@empty
20249     \global\let\author\relax
20250     \global\let\title\relax
20251     \global\let\extratitle\relax
20252     \global\let\titlehead\relax
20253     \global\let\subject\relax
20254     \global\let\publishers\relax
20255     \global\let\uppertitleback\relax

```



```

20256 \global\let\lowertitleback\relax
20257 \global\let\dedication\relax
20258 \global\let\date\relax
20259 \fi
20260 \global\let\and\relax
20261 }%
20262 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20263 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
20264 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
20265 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
20266 \renewcommand*\thesubsubsection{\%
20267 \thesubsection\@SepMark\@arabic\c@subsubsection
20268 }
20269 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20270 \renewcommand*\thesubparagraph{\%
20271 \theparagraph\@SepMark\@arabic\c@subparagraph
20272 }
20273 \renewenvironment{thebibliography}[1]{%
20274 \if@bib@break@
20275 \bib@beginhook
20276 \else
20277 \bib@heading
20278 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
20279 \noindent\bibpreamble\par\nobreak
20280 \fi\fi
20281 \bib@beginhook
20282 \bib@before@hook
20283 \fi
20284 \renewcommand{\BreakBibliography}[1]{%
20285 \@bib@break
20286 \end{thebibliography}%
20287 \begingroup ##1\endgroup
20288 \begin{thebibliography}{#1}
20289 }%
20290 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20291 \bidi@thebibliography@font@hook%
20292 \list{%
20293 \@biblabel{\@arabic\c@enumiv}%
20294 }{%
20295 \settowidth\labelwidth{\@biblabel{#1}}%
20296 \leftmargin\labelwidth
20297 \advance\leftmargin\labelsep
20298 \openbib@code
20299 \if@bib@break@
20300 \edef\@tempa{%
20301 \noexpand\usecounter{enumiv}%
20302 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
20303 }\@tempa
20304 \no@bib@break
20305 \else
20306 \usecounter{enumiv}%
20307 \fi
20308 \let\p@enumiv\@empty
20309 \renewcommand*\theenumiv{\@arabic\c@enumiv}%

```



```

20310 }%
20311 \sloppy\clubpenalty4000 \widowpenalty4000
20312 \sfcode`\.=\@m
20313 }{%
20314 \if@bib@break@
20315 \def\@noitemerr{%
20316 \latex@warning{%
20317 \string\BreakBibliography\space at begin of `thebibliography'
20318 environment\MessageBreak
20319 or following \string\BreakBibliography}%
20320 }%
20321 \else
20322 \def\@noitemerr{%
20323 \latex@warning{%
20324 Empty `thebibliography' environment or
20325 \string\BreakBibliography\MessageBreak
20326 before end of `thebibliography' environment}%
20327 }%
20328 \fi
20329 \endlist
20330 \if@bib@break@
20331 \else
20332 \bib@after@hook
20333 \let\bib@before@hook\@empty
20334 \let\bib@after@hook\@empty
20335 \fi
20336 \bib@endhook
20337 }
20338 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
20339 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
20340 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
20341 \renewcommand\marginline[1]{%
20342 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
20343 }
20344 \renewcommand{\@@makecaption}[3]{%
20345 \cap@margin
20346 \begingroup
20347 \ifonelinecaptions
20348 \def\stepcounter##1{\advance\value{##1}\@ne}%
20349 \let\refstepcounter\stepcounter
20350 \let\label\@gobble
20351 \let\@footnotetext=\@gobble
20352 \let\@LTRfootnotetext=\@gobble
20353 \let\@RTLfootnotetext=\@gobble
20354 \let\hypertarget\@gobbletwo
20355 \edef\xnewline{%
20356 \unexpanded{\ClassInfo{\KOMAClassName}}{%
20357 Workaround for not recommended usage of \string\\ or\MessageBreak
20358 \string\newline in caption text
20359 }%
20360 \hspace*{\linewidth}\hspace{1sp}%
20361 }%
20362 \unexpanded\expandafter{\xnewline}%
20363 }%

```



```

20364 \edef\xcentercr{%
20365 \unexpanded{\ClassInfo{\KOMAClassName}{%
20366 Workaround for not recommended usage of \string\\ or\MessageBreak
20367 \string\newline in caption text
20368 }%
20369 \hspace*{\linewidth}\hspace{1sp}%
20370 }%
20371 \unexpanded\expandafter{\xcentercr}%
20372 }%
20373 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20374 \ifdim\@tempdima>\cap@width
20375 \aftergroup\scr@makemultilinecaption
20376 \else
20377 \aftergroup\scr@makesinglelinecaption
20378 \fi
20379 \else
20380 \aftergroup\scr@makemultilinecaption
20381 \fi
20382 \endgroup
20383 {#1}{#2}{#3}%
20384 }
20385 \renewcommand{\scr@makesinglelinecaption}[3]{%
20386 {%
20387 \usefontofkomafont{caption}{%
20388 \hb@xt@{\hsize}{%
20389 \cap@left
20390 \if@RTL
20391 \beginR
20392 \fi
20393 \scr@makesinglelinecaption{#1}{#2}{#3}%
20394 \if@RTL
20395 \endR
20396 \fi
20397 \cap@right
20398 }\par\kern\dp\strutbox%
20399 }%
20400 }\kern-\dp\strutbox
20401 }
20402 \renewcommand{\@makecaption}[2]{%
20403 \if@captionabove
20404 \vskip\belowcaptionskip
20405 \else
20406 \vskip\abovecaptionskip
20407 \fi
20408 \@makecaption\@firstofone{#1}{#2}%
20409 \if@captionabove
20410 \vskip\abovecaptionskip
20411 \else
20412 \vskip\belowcaptionskip
20413 \fi
20414 }
20415
20416 \renewcommand{\scr@makesinglelinecaption}[3]{%
20417 {\usekomafont{caption}{\strut\ignorespaces

```



```

20418      #1{{\usekomafont{captionlabel}{#2\captionformat}}}%
20419      \ignorespaces #3\unskip}}%
20420 }
20421
20422 \renewcommand{\scr@makemultilinecaption}[3]{%
20423   {%
20424     \usefontofkomafont{caption}{%
20425       \hb@xt@{hsize}{%
20426         \cap@left
20427         \vbox{hsize\cap@width\linewidthhsize
20428           \scr@ifundefinedorrelax{@capttype}{%
20429             \ClassWarning{KOMAClassName}{%
20430               `string\caption' outside float.\MessageBreak
20431               Seems you are using `string\caption' outside a
20432               float.\MessageBreak
20433               Maybe you are using a package that uses
20434               `string\@makecaption'\MessageBreak
20435               without setting `string\@capttype' before.\MessageBreak
20436               Because I cannot detect the caption type, I'm using\MessageBreak
20437               the empty one.%
20438             }%
20439             \let\@capttype\@empty
20440           }{}%
20441           \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
20442             \@nameuse{ragged\@capttype caption}%
20443           }%
20444           \ifdofullc@p
20445             \@hangfrom{%
20446               \strut
20447               \scr@smashdp{%
20448                 #1{%
20449                   \usekomafont{caption}{%
20450                     \usekomafont{captionlabel}{#2\captionformat}%
20451                   }%
20452                 }%
20453               }%
20454             }%
20455             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20456           \else
20457             \ifdim\cap@indent<\z@
20458               \strut
20459               #1{%
20460                 {\usekomafont{caption}{%
20461                   \usekomafont{captionlabel}{#2\captionformat}%
20462                 }%
20463               }\par}%
20464             \noindent{{\usekomafont{caption}{%
20465               \hspace*{-\cap@indent}#3\scr@endstrut
20466             }}\par}%
20467           \else
20468             \if@capbreak
20469               \strut
20470               #1{%
20471                 {\usekomafont{caption}{%

```





```

20472         \usekomafont{captionlabel}{#2\captionformat}%
20473     }%
20474 } \par}%
20475 \noindent\@hangfrom{\hspace*{\cap@indent}}%
20476 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20477 \else
20478 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
20479 {%
20480 \hspace{-\cap@indent}%
20481 \scr@smashdp{%
20482     #1{\usekomafont{caption}{%
20483         \usekomafont{captionlabel}{#2\captionformat}%
20484     }}%
20485 }%
20486 }%
20487 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20488 }%
20489 \fi
20490 \fi
20491 \fi
20492 }%
20493 \cap@right
20494 } \par\kern\dp\strutbox
20495 }%
20496 } \kern-\dp\strutbox
20497 }
20498
20499 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20500 \if@komalongtable
20501 \renewcommand{\LT@makecaption}[3]{%
20502 \LT@mcol\LT@cols c{%
20503 \hbox to\z@{\hss\parbox[t]{\linewidth{%
20504 \if@captionabove\else\vskip\belowcaptionskip\fi
20505 \@@makecaption{#1}{#2}{#3}%
20506 \endgraf
20507 \if@captionabove\vskip\abovecaptionskip\fi
20508 }}%
20509 \hss
20510 }%
20511 }%
20512 }%
20513 \renewcommand*{\scr@LT@array}{}%
20514 \let\scr@LT@array=\LT@array
20515 \renewcommand*{\LT@array}{%
20516 \def\@captive{table}%
20517 \@ifundefined{LTcaptive}{%{}%
20518 \Ifstr{\LTcaptive}{%{}%{\let\@captive\LTcaptive}%
20519 }%
20520 \csname tocbasic_if_caption_above:TF\endcsname
20521 {\@captionabovetrue}{\@captionabovefalse}%
20522 \def\captionabove{\noalign{\global\@captionabovetrue}%
20523 \LT@caption}%
20524 \def\captionbelow{\noalign{\global\@captionabovefalse}%
20525 \LT@caption}%

```



```

20526     \scr@LT@array
20527 }%
20528 \ClassInfo{\KOMAClassName}{%
20529     longtable captions redefined%
20530 }%
20531 \fi
20532 }
20533
20534 \CloneTOCEntryStyle{tocline}{part}
20535 \TOCEntryStyleStartInitCode{part}{%
20536     \expandafter\renewcommand%
20537     \csname scr@tso@#1@linefill\endcsname{\hfill}%
20538     \expandafter\renewcommand%
20539     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20540     \expandafter\renewcommand%
20541     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20542         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20543     \expandafter\renewcommand\expandafter*%
20544     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
20545 }
20546
20547 \CloneTOCEntryStyle{tocline}{section}
20548 \TOCEntryStyleStartInitCode{section}{%
20549     \expandafter\renewcommand%
20550     \csname scr@tso@#1@linefill\endcsname{%
20551         \if@sectionentrywithdots
20552             {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
20553         \else
20554             \hfill
20555         \fi
20556     }%
20557     \expandafter\renewcommand%
20558     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
20559     \expandafter\renewcommand%
20560     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont
20561     \expandafter\renewcommand\expandafter*%
20562     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
20563 }
20564
20565 \CloneTOCEntryStyle{tocline}{subsection}
20566 \TOCEntryStyleStartInitCode{subsection}{%
20567     \expandafter\renewcommand%
20568     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20569     \expandafter\renewcommand%
20570     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20571         {\normalfont\normalcolor ##1}}%
20572 }
20573
20574 \CloneTOCEntryStyle{subsection}{default}
20575
20576 \DeclareSectionCommand[%
20577     style=section,%
20578     level=1,%
20579     indent=\z@,%

```



```

20580 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
20581 afterskip=2.3ex \@plus .2ex,%
20582 tocstyle=section,%
20583 tocindent=Opt,%
20584 tocnumwidth=1.5em%
20585 ]{section}
20586 \DeclareSectionCommand[%
20587   style=part,%
20588   level=\z@,%
20589   tocstyle=part,%
20590   toclevel=\m@ne,%
20591   tocindent=\z@,%
20592   tocnumwidth=2em%
20593 ]{part}
20594 \DeclareSectionCommand[%
20595   style=section,%
20596   level=2,%
20597   indent=\z@,%
20598   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
20599   afterskip=1.5ex \@plus .2ex,%
20600   tocstyle=subsection,%
20601   tocindent=1.5em,%
20602   tocnumwidth=2.3em%
20603 ]{subsection}
20604 \DeclareSectionCommand[%
20605   style=section,%
20606   level=3,%
20607   indent=\z@,%
20608   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
20609   afterskip=1.5ex \@plus .2ex,%
20610   tocstyle=subsection,%
20611   tocindent=3.8em,%
20612   tocnumwidth=3.2em%
20613 ]{subsubsection}
20614 \DeclareSectionCommand[%
20615   style=section,%
20616   level=4,%
20617   indent=\z@,%
20618   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20619   afterskip=-1em,%
20620   tocstyle=subsection,%
20621   tocindentfollows=subsubsection,%
20622   tocindent=7.0em,%
20623   tocnumwidth=4.1em%
20624 ]{paragraph}
20625 \DeclareSectionCommand[%
20626   style=section,%
20627   level=5,%
20628   indent=\scr@parindent,%
20629   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20630   afterskip=-1em,%
20631   tocstyle=subsection,%
20632   tocindent=10em,%
20633   tocnumwidth=5em%

```



20634 ]{subparagraph}

## 143 File scrbook-xetex-bidi.def

```
20635 \ProvidesFile{scrbook-xetex-bidi.def}[2025/09/20 v1.4 bidi adaptations for scrbook class fo
20636 \newcommand{\scr@saved@LTRfootnotetext}{}
20637 \newcommand{\scr@saved@RTLfootnotetext}{}
20638 \let\scr@saved@footnotetext\@footnotetext
20639 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20640 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20641 \renewcommand{\@footnotetext}[1]{%
20642   \scr@saved@footnotetext{#1}%
20643   \csname FN@mf@prepare\endcsname
20644 }
20645 \renewcommand{\@LTRfootnotetext}[1]{%
20646   \scr@saved@LTRfootnotetext{#1}%
20647   \csname FN@mf@prepare\endcsname
20648 }
20649 \renewcommand{\@RTLfootnotetext}[1]{%
20650   \scr@saved@RTLfootnotetext{#1}%
20651   \csname FN@mf@prepare\endcsname
20652 }
20653 \renewcommand\deffootnote[4][1]{%
20654   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20655     \long\def\@makefnmark##1{%
20656       \ExecuteDoHook{footnote/text/begin}%
20657       \raggedfootnote
20658       \if@RTL
20659         \rightskip
20660       \else
20661         \leftskip
20662       \fi
20663       #2
20664       \l@addto@macro\@trivlist{%
20665         \ifnum\@listdepth=\@ne\advance
20666           \if@RTL
20667             \rightmargin #2\relax
20668           \else
20669             \leftmargin #2\relax
20670           \fi
20671         \fi
20672       }%
20673       \parindent #3\noindent
20674       \IfArgIsEmpty{#1}{-}{%
20675         \hskip \dimexpr #1-#2\relax
20676       }%
20677       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20678       \ExecuteDoHook{footnote/text/end}%
20679     }%
20680   \else
20681     \ClassInfo{\KOMAClassName}{%
20682       Using old \string\@makefnmark\space due to compatibility
20683       level\MessageBreak
20684       less than 3.22}%

```



```

20685 \long\def\@makefnmark##1{%
20686 \setlength{\@tempdimc}{#3}%
20687 \def\@tempa{#1}\ifx\@tempa\@empty
20688 \setpar{\@par
20689 \@tempdima = \hsize
20690 \addtolength{\@tempdima}{-#2}%
20691 \ifRTL
20692 \parshape \@ne \z@ \@tempdima
20693 \else
20694 \parshape \@ne #2 \@tempdima
20695 \fi
20696 }%
20697 \else
20698 \addtolength{\@tempdimc}{#2}%
20699 \addtolength{\@tempdimc}{-#1}%
20700 \setpar{\@par
20701 \@tempdima = \hsize
20702 \addtolength{\@tempdima}{-#1}%
20703 \@tempdimb = \hsize
20704 \addtolength{\@tempdimb}{-#2}%
20705 \ifRTL
20706 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20707 \else
20708 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20709 \fi
20710 }%
20711 \fi
20712 \par
20713 \parindent\@tempdimc\noindent
20714 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20715 }%
20716 \fi
20717 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20718 }
20719 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20720 \renewcommand*\left@footnoterule{%
20721 \normalsize\ftn@rule@test@values
20722 \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
20723 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20724 {\usekomafont{footnoterule}{%
20725 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20726 \kern 2.6\p@}
20727 \renewcommand*\right@footnoterule{%
20728 \normalsize\ftn@rule@test@values
20729 \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
20730 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20731 {\usekomafont{footnoterule}{%
20732 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
20733 \kern 2.6\p@}
20734 \renewcommand*\maketitle[1][1]{%
20735 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20736 \else
20737 \def\and{%
20738 \end{tabular}%

```



```

20739     \hskip 1em \@plus.17fil%
20740     \begin{tabular}[t]{c}%
20741   }%
20742 \fi
20743 \if@titlepage
20744   \begin{titlepage}
20745     \setcounter{page}{%
20746       #1%
20747     }%
20748     \if@titlepageiscoverpage
20749       \edef\tITLEPAGE@restore{%
20750         \noexpand\endgroup
20751         \noexpand\global\noexpand\@colht\the\@colht
20752         \noexpand\global\noexpand\@colroom\the\@colroom
20753         \noexpand\global\vsizethe\vsizethe
20754         \noexpand\global\noexpand\@titlepageiscoverpagefalse
20755         \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
20756       }%
20757       \begin{group}
20758         \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20759         \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20760         \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20761         \textwidth=\dimexpr
20762         \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20763         \textheight=\dimexpr
20764         \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20765         \headheight=0pt
20766         \headsep=0pt
20767         \footskip=\baselineskip
20768         \@colht=\textheight
20769         \@colroom=\textheight
20770         \vsizethe\textheight
20771         \columnwidth=\textwidth
20772         \hsizethe\columnwidth
20773         \linewidth=\hsizethe
20774       \else
20775         \let\tITLEPAGE@restore\relax
20776       \fi
20777       \let\footnotesize\small
20778       \let\right@footnoterule\relax
20779       \let\left@footnoterule\relax
20780       \let\textwidth@footnoterule\relax
20781       \let\footnote\thanks
20782       \let\LTRfootnote\LTRthanks
20783       \let\RTLfootnote\RTLthanks
20784       \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20785       \let\oldmakefnmark\makefnmark
20786       \renewcommand*{\@makefnmark}{\rlap{\oldmakefnmark}}%
20787       \ifx\extratitle\empty
20788         \ifx\frontispiece\empty
20789           \else
20790             \if@twoside\mbox{}\next@tpage\fi
20791             \noindent\@frontispiece\next@tdpage
20792         \fi

```



```

20793 \else
20794 \noindent\@extratitle
20795 \ifx\@frontispiece\@empty
20796 \else
20797 \next@tpage
20798 \noindent\@frontispiece
20799 \fi
20800 \next@tdpage
20801 \fi
20802 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@update relative
20803 \ifx\@titlehead\@empty \else
20804 \begin{minipage}[t]{\textwidth}%
20805 \usekomafont{titlehead}{\@titlehead\par}%
20806 \end{minipage}\par
20807 \fi
20808 \null\vfill
20809 \begin{center}
20810 \ifx\@subject\@empty \else
20811 {\usekomafont{subject}{\@subject\par}}%
20812 \vskip 3em
20813 \fi
20814 {\usekomafont{title}{\huge \@title\par}}%
20815 \vskip 1em
20816 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20817 \vskip 2em
20818 {%
20819 \usekomafont{author}{%
20820 \lineskip 0.75em
20821 \begin{tabular}[t]{c}
20822 \@author
20823 \end{tabular}\par
20824 }%
20825 }%
20826 \vskip 1.5em
20827 {\usekomafont{date}{\@date \par}}%
20828 \vskip \z@ \@plus3fill
20829 {\usekomafont{publishers}{\@publishers \par}}%
20830 \vskip 3em
20831 \end{center}\par
20832 \@thanks\global\let\@thanks\@empty
20833 \vfill\null
20834 \if@twoside
20835 \@tempwattrue
20836 \expandafter\ifnum \@nameuse{scr@v3.12}>\scr@compatibility\relax
20837 \else
20838 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20839 \@tempwafalse
20840 \fi\fi
20841 \fi
20842 \if@tempswa
20843 \next@tpage
20844 \begin{minipage}[t]{\textwidth}
20845 \@uppertitleback
20846 \end{minipage}\par

```



```

20847         \vfill
20848         \begin{minipage}[b]{\textwidth}
20849             \@lowertitleback
20850         \end{minipage}\par
20851         \@thanks\global\let\@thanks\@empty
20852     \fi
20853 \else
20854     \ifx\@uppertitleback\@empty\else
20855         \ClassWarning{\KOMAClassName}{%
20856             non empty \string\uppertitleback\space ignored
20857             by \string\maketitle\MessageBreak
20858             in `twoside=false' mode%
20859         }%
20860     \fi
20861     \ifx\@lowertitleback\@empty\else
20862         \ClassWarning{\KOMAClassName}{%
20863             non empty \string\lowertitleback\space ignored
20864             by \string\maketitle\MessageBreak
20865             in `twoside=false' mode%
20866         }%
20867     \fi
20868 \fi
20869 \ifx\@dedication\@empty
20870 \else
20871     \next@tdpage\null\vfill
20872     {\centering\usekomafont{dedication}{\@dedication \par}}%
20873     \vskip \z@ \@plus3fill
20874     \@thanks\global\let\@thanks\@empty
20875     \cleardoubleemptypage
20876 \fi
20877 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20878 \end{titlepage}
20879 \else
20880     \par
20881     \@tempcnta=%
20882     #1%
20883     \relax\ifnum\@tempcnta=1\else
20884         \ClassWarning{\KOMAClassName}{%
20885             Optional argument of \string\maketitle\space ignored\MessageBreak
20886             in `titlepage=false' mode%
20887         }%
20888     \fi
20889     \ifx\@uppertitleback\@empty\else
20890         \ClassWarning{\KOMAClassName}{%
20891             non empty \string\uppertitleback\space ignored
20892             by \string\maketitle\MessageBreak
20893             in `titlepage=false' mode%
20894         }%
20895     \fi
20896     \ifx\@lowertitleback\@empty\else
20897         \ClassWarning{\KOMAClassName}{%
20898             non empty \string\lowertitleback\space ignored
20899             by \string\maketitle\MessageBreak
20900             in `titlepage=false' mode%

```





```

20901     }%
20902 \fi
20903 \begingroup
20904   \let\tITLEPAGE@restore\relax
20905   \renewcommand*\theFootnote{\@fnsymbol\c@footnote}%
20906   \let\@oldmakefnmark\@makefnmark
20907   \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20908   \next@tdpage
20909   \if@twocolumn
20910     \ifnum \col@number=\@one
20911       \ifx\@extratitle\@empty
20912         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20913       \else
20914         \@makeextratitle
20915       \fi
20916       \ifx\@frontispiece\@empty
20917         \ifx\@extratitle\@empty\else\next@tdpage\fi
20918       \else
20919         \next@tpage
20920         \@makefrontispiece
20921         \next@tdpage
20922       \fi
20923       \@maketitle
20924     \else
20925       \ifx\@extratitle\@empty
20926         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20927       \else
20928         \twocolumn[\@makeextratitle]%
20929       \fi
20930       \ifx\@frontispiece\@empty
20931         \ifx\@extratitle\@empty\else\next@tdpage\fi
20932       \else
20933         \next@tpage
20934         \twocolumn[\@makefrontispiece]%
20935         \next@tdpage
20936       \fi
20937       \twocolumn[\@maketitle]%
20938     \fi
20939   \else
20940     \ifx\@extratitle\@empty
20941       \ifx\@frontispiece\@empty\else \mbox{}\fi
20942     \else
20943       \@makeextratitle
20944     \fi
20945     \ifx\@frontispiece\@empty
20946       \ifx\@extratitle\@empty\else\next@tdpage\fi
20947     \else
20948       \next@tpage
20949       \@makefrontispiece
20950       \next@tdpage
20951     \fi
20952     \@maketitle
20953   \fi
20954   \ifx\tITLEPAGEstyle\@empty\else\thispagestyle{\TITLEPAGEstyle}\fi

```



```

20955     \@thanks\global\let\@thanks\@empty
20956 \endgroup
20957 \fi
20958 \setcounter{footnote}{0}%
20959 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20960     \let\thanks\relax
20961     \let\LTRthanks\relax
20962     \let\RTLthanks\relax
20963     \let\maketitle\relax
20964     \let\@maketitle\relax
20965     \global\let\@thanks\@empty
20966     \global\let\@author\@empty
20967     \global\let\@date\@empty
20968     \global\let\@title\@empty
20969     \global\let\@subtitle\@empty
20970     \global\let\@extratitle\@empty
20971     \global\let\@frontispiece\@empty
20972     \global\let\@titlehead\@empty
20973     \global\let\@subject\@empty
20974     \global\let\@publishers\@empty
20975     \global\let\@uppertitleback\@empty
20976     \global\let\@lowertitleback\@empty
20977     \global\let\@dedication\@empty
20978     \global\let\author\relax
20979     \global\let\title\relax
20980     \global\let\extratitle\relax
20981     \global\let\titlehead\relax
20982     \global\let\subject\relax
20983     \global\let\publishers\relax
20984     \global\let\uppertitleback\relax
20985     \global\let\lowertitleback\relax
20986     \global\let\dedication\relax
20987     \global\let\date\relax
20988 \fi
20989 \global\let\and\relax
20990 }%
20991 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20992 \renewcommand*{\autodot}{\if@altsecnumformat\@SepMark\fi}
20993 \renewcommand*{\thesection}{%
20994     \expandafter\ifnum\scr@v@is@gt{2.97d}%
20995         \if@mainmatter\thechapter\@SepMark\fi
20996     \else
20997         \thechapter\@SepMark%
20998     \fi
20999     \@arabic\c@section
21000 }
21001 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21002 \renewcommand*{\thesubsubsection}{%
21003     \thesubsection\@SepMark\@arabic\c@subsubsection
21004 }
21005 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21006 \renewcommand*{\thesubparagraph}{%
21007     \theparagraph\@SepMark\@arabic\c@subparagraph
21008 }

```



```

21009 \expandafter\ifnum\scr@v@is@le{2.97d}%
21010 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21011 \fi
21012 \expandafter\ifnum\scr@v@is@le{2.97d}%
21013 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21014 \fi
21015 \renewcommand*\theequation{%
21016 \expandafter\ifnum\scr@v@is@gt{2.97d}%
21017 \if@mainmatter\thechapter\@SepMark\fi
21018 \else
21019 \thechapter\@SepMark%
21020 \fi
21021 \@arabic\c@equation
21022 }
21023 \renewenvironment{thebibliography}[1]{%
21024 \if@bib@break@
21025 \bib@beginhook
21026 \else
21027 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21028 \setchapterpreamble{\bibpreamble}%
21029 \fi\fi
21030 \bib@heading
21031 \bib@beginhook
21032 \bib@before@hook
21033 \fi
21034 \renewcommand{\BreakBibliography}[1]{%
21035 \@bib@break
21036 \end{thebibliography}%
21037 \begingroup ##1\endgroup
21038 \begin{thebibliography}{#1}
21039 }%
21040 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21041 \bidi@thebibliography@font@hook%
21042 \list{%
21043 \@biblabel{\@arabic\c@enumiv}%
21044 }{%
21045 \settowidth\labelwidth{\@biblabel{#1}}%
21046 \leftmargin\labelwidth
21047 \advance\leftmargin\labelsep
21048 \@openbib@code
21049 \if@bib@break@
21050 \edef\@tempa{%
21051 \noexpand\usecounter{enumiv}%
21052 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21053 }\@tempa
21054 \no@bib@break
21055 \else
21056 \usecounter{enumiv}%
21057 \fi
21058 \let\p@enumiv\@empty
21059 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21060 }%
21061 \sloppy\clubpenalty4000 \widowpenalty4000
21062 \sfcode`\.\@m

```



```

21063 }{%
21064   \if@bib@break@
21065     \def\@noitemerr{%
21066       \@latex@warning{%
21067         \string\BreakBibliography\space at begin of `thebibliography'
21068         environment\MessageBreak
21069         or following \string\BreakBibliography}%
21070       }%
21071   \else
21072     \def\@noitemerr{%
21073       \@latex@warning{%
21074         Empty `thebibliography' environment or
21075         \string\BreakBibliography\MessageBreak
21076         before end of `thebibliography' environment}%
21077       }%
21078   \fi
21079 \endlist
21080 \if@bib@break@
21081 \else
21082   \bib@after@hook
21083   \let\bib@before@hook\@empty
21084   \let\bib@after@hook\@empty
21085 \fi
21086 \bib@endhook
21087 }
21088 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21089 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21090 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21091 \renewcommand\marginline[1]{%
21092   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
21093 }
21094 \renewcommand{\@@makecaption}[3]{%
21095   \cap@margin
21096   \begingroup
21097     \ifonelinecaptions
21098       \def\stepcounter##1{\advance\value{##1}\@ne}%
21099       \let\refstepcounter\stepcounter
21100       \let\label\@gobble
21101       \let\@footnotetext=\@gobble
21102       \let\@LTRfootnotetext=\@gobble
21103       \let\@RTLfootnotetext=\@gobble
21104       \let\hypertarget\@gobbletwo
21105       \edef\xnewline{%
21106         \unexpanded{\ClassInfo{\KOMAClassName}}{%
21107           Workaround for not recommended usage of \string\\ or\MessageBreak
21108           \string\newline in caption text
21109         }%
21110         \hspace*{\linewidth}\hspace{1sp}%
21111       }%
21112       \unexpanded\expandafter{\xnewline}%
21113     }%
21114     \edef\xcentercr{%
21115       \unexpanded{\ClassInfo{\KOMAClassName}}{%
21116         Workaround for not recommended usage of \string\\ or\MessageBreak

```



```

21117         \string\newline in caption text
21118     }%
21119     \hspace*{\linewidth}\hspace{1sp}%
21120 }%
21121 \unexpanded\expandafter{\@xcentercr}%
21122 }%
21123 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21124 \ifdim\@tempdima>\cap@width
21125     \aftergroup\scr@makemultilinecaption
21126 \else
21127     \aftergroup\scr@makesinglelinecaption
21128 \fi
21129 \else
21130     \aftergroup\scr@makemultilinecaption
21131 \fi
21132 \endgroup
21133 {#1}{#2}{#3}%
21134 }
21135 \renewcommand{\scr@makesinglelinecaption}[3]{%
21136     {%
21137         \usefontofkomafont{caption}{%
21138             \hb@xt@{\hsize}{%
21139                 \cap@left
21140                 \if@RTL
21141                     \beginR
21142                 \fi
21143                 \scr@makesinglelinecaption{#1}{#2}{#3}%
21144                 \if@RTL
21145                     \endR
21146                 \fi
21147                 \cap@right
21148             }\par\kern\dp\strutbox%
21149         }%
21150     }\kern-\dp\strutbox
21151 }
21152 \renewcommand{\@makecaption}[2]{%
21153     \if@captionabove
21154         \vskip\belowcaptionskip
21155     \else
21156         \vskip\abovecaptionskip
21157     \fi
21158     \@makecaption\@firstofone{#1}{#2}%
21159     \if@captionabove
21160         \vskip\abovecaptionskip
21161     \else
21162         \vskip\belowcaptionskip
21163     \fi
21164 }
21165
21166 \renewcommand{\scr@makesinglelinecaption}[3]{%
21167     {\usekomafont{caption}{\strut\ignorespaces
21168         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21169     \ignorespaces #3\unskip}}%
21170 }

```



```

21171
21172 \renewcommand{\scr@makemultilinecaption}[3]{%
21173   {%
21174     \usefontofkomafont{caption}{%
21175       \hb@xt@{hsize}{%
21176         \cap@left
21177         \vbox{\hsize\cap@width\linewidth\hsize
21178           \scr@ifundefinedorrelax{@capttype}{%
21179             \ClassWarning{\KOMAClassName}{%
21180               `\'string\'caption' outside float.\MessageBreak
21181               Seems you are using `\'string\'caption' outside a
21182               float.\MessageBreak
21183               Maybe you are using a package that uses
21184               `\'string\'@makecaption'\MessageBreak
21185               without setting `\'string\'@capttype' before.\MessageBreak
21186               Because I cannot detect the caption type, I'm using\MessageBreak
21187               the empty one.%
21188             }%
21189             \let\@capttype\@empty
21190           }%
21191           \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
21192             \@nameuse{ragged\@capttype caption}%
21193           }%
21194           \ifdofullc@p
21195             \@hangfrom{%
21196               \strut
21197               \scr@smashdp{%
21198                 #1{%
21199                   \usekomafont{caption}{%
21200                     \usekomafont{captionlabel}{#2\captionformat}%
21201                   }%
21202                 }%
21203               }%
21204             }%
21205             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21206           \else
21207             \ifdim\cap@indent<\z@
21208               \strut
21209               #1{%
21210                 {\usekomafont{caption}{%
21211                   \usekomafont{captionlabel}{#2\captionformat}%
21212                 }%
21213               }\par}%
21214             \noindent{{\usekomafont{caption}{%
21215               \hspace*{-\cap@indent}#3\scr@endstrut
21216             }}\par}%
21217           \else
21218             \if@capbreak
21219               \strut
21220               #1{%
21221                 {\usekomafont{caption}{%
21222                   \usekomafont{captionlabel}{#2\captionformat}%
21223                 }
21224               }\par}%

```



```

21225         \noindent\@hangfrom{\hspace*{\cap@indent}}%
21226         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21227     \else
21228         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21229         {%
21230             \hspace{-\cap@indent}%
21231             \scr@smashdp{%
21232                 #1{\usekomafont{caption}{%
21233                     \usekomafont{captionlabel}{#2\captionformat}}%
21234                 }}%
21235             }%
21236         }%
21237         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21238     }%
21239 \fi
21240 \fi
21241 \fi
21242 }%
21243 \cap@right
21244 }\par\kern\dp\strutbox
21245 }%
21246 }\kern-\dp\strutbox
21247 }
21248
21249
21250 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21251     \if@komalongtable
21252         \renewcommand{\LT@makecaption}[3]{%
21253             \LT@mcol\LT@cols c{%
21254                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
21255                     \if@captionabove\else\vskip\belowcaptionskip\fi
21256                     \@makecaption{#1}{#2}{#3}%
21257                     \endgraf
21258                     \if@captionabove\vskip\abovecaptionskip\fi
21259                 }}%
21260                 \hss
21261             }%
21262         }%
21263     }%
21264     \renewcommand*{\scr@LT@array}{}%
21265     \let\scr@LT@array=\LT@array
21266     \renewcommand*{\LT@array}{%
21267         \def\@captive{table}%
21268         \ifundefined{LTcaptive}{}{%
21269             \Ifstr{LTcaptive}{}{}{\let\@captive\LTcaptive}%
21270         }%
21271         \csname tobasic_if_caption_above:TF\endcsname
21272         {\@captionabovetrue}{\@captionabovetrue}%
21273         \def\captionabove{\noalign{\global\@captionabovetrue}%
21274             \LT@caption}%
21275         \def\captionbelow{\noalign{\global\@captionabovetrue}%
21276             \LT@caption}%
21277         \scr@LT@array
21278     }%

```



```

21279 \ClassInfo{\KOMAClassName}{%
21280     longtable captions redefined%
21281 }%
21282 \fi
21283 }
21284
21285 \CloneTOCEntryStyle{tocline}{part}
21286 \TOCEntryStyleStartInitCode{part}{%
21287     \expandafter\renewcommand%
21288     \csname scr@tso@#1@linefill\endcsname{\hfill}%
21289     \expandafter\renewcommand%
21290     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
21291     \expandafter\renewcommand%
21292     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21293         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21294     \expandafter\renewcommand\expandafter*%
21295     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
21296 }
21297
21298 \CloneTOCEntryStyle{tocline}{chapter}
21299 \TOCEntryStyleStartInitCode{chapter}{%
21300     \expandafter\renewcommand%
21301     \csname scr@tso@#1@linefill\endcsname{%
21302         \ifchapterentrywithdots
21303             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21304         \else
21305             \hfill
21306         \fi
21307     }%
21308     \expandafter\renewcommand%
21309     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
21310     \expandafter\renewcommand%
21311     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21312         {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21313     \expandafter\renewcommand\expandafter*%
21314     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
21315 }
21316
21317 \CloneTOCEntryStyle{tocline}{section}
21318 \TOCEntryStyleStartInitCode{section}{%
21319     \expandafter\renewcommand%
21320     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21321     \expandafter\renewcommand%
21322     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21323         {\normalfont\normalcolor ##1}}%
21324 }
21325
21326 \CloneTOCEntryStyle{section}{default}
21327
21328 \DeclareSectionCommand[%
21329     style=chapter,%
21330     level=\z@,%
21331     pagestyle=plain,%
21332     tocstyle=chapter,%

```





```

21333   tocindent=\z@,%
21334   tocnumwidth=1.5em%
21335 ]{chapter}
21336 \DeclareSectionCommand[%
21337   style=section,%
21338   level=1,%
21339   indent=\z@,%
21340   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
21341   afterskip=2.3ex \@plus .2ex,%
21342   tocstyle=section,%
21343   tocindentfollows=chapter,%
21344   tocindent=1.5em,%
21345   tocnumwidth=2.3em%
21346 ]{section}
21347 \DeclareSectionCommand[%
21348   style=part,%
21349   level=\m@ne,%
21350   pagestyle=plain,%
21351   tocstyle=part,%
21352   toclevel=\m@ne,%
21353   tocindent=\z@,%
21354   tocnumwidth=2em%
21355 ]{part}
21356 \DeclareSectionCommand[%
21357   style=section,%
21358   level=2,%
21359   indent=\z@,%
21360   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
21361   afterskip=1.5ex \@plus .2ex,%
21362   tocstyle=section,%
21363   tocindent=3.8em,%
21364   tocnumwidth=3.2em%
21365 ]{subsection}
21366 \DeclareSectionCommand[%
21367   style=section,%
21368   level=3,%
21369   indent=\z@,%
21370   beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
21371   afterskip=1.5ex \@plus .2ex,%
21372   tocstyle=section,%
21373   tocindent=7.0em,%
21374   tocnumwidth=4.1em%
21375 ]{subsubsection}
21376 \DeclareSectionCommand[%
21377   style=section,%
21378   level=4,%
21379   indent=\z@,%
21380   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
21381   afterskip=-1em,%
21382   tocindentfollows=subsubsection,%
21383   tocstyle=section,%
21384   tocindent=10em,%
21385   tocnumwidth=5em%
21386 ]{paragraph}

```



```

21387 \DeclareSectionCommand[%
21388   style=section,%
21389   level=5,%
21390   indent=\scr@parindent,%
21391   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
21392   afterskip=-1em,%
21393   tocstyle=section,%
21394   tocindent=12em,%
21395   tocnumwidth=6em%
21396 ]{subparagraph}

```

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

```

21397 \ProvidesFile{scrreprt-xetex-bidi.def}[2025/09/20 v1.4 bidi adaptations for scrreprt class
21398 \newcommand{\scr@saved@LTRfootnotetext}{}
21399 \newcommand{\scr@saved@RTLfootnotetext}{}
21400 \let\scr@saved@footnotetext\@footnotetext
21401 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21402 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21403 \renewcommand{\@footnotetext}[1]{%
21404   \scr@saved@footnotetext{#1}%
21405   \csname FN@mf@prepare\endcsname
21406 }
21407 \renewcommand{\@LTRfootnotetext}[1]{%
21408   \scr@saved@LTRfootnotetext{#1}%
21409   \csname FN@mf@prepare\endcsname
21410 }
21411 \renewcommand{\@RTLfootnotetext}[1]{%
21412   \scr@saved@RTLfootnotetext{#1}%
21413   \csname FN@mf@prepare\endcsname
21414 }
21415 \renewcommand\deffootnote[4][1]{%
21416   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21417     \long\def\@makefntext##1{%
21418       \ExecuteDoHook{footnote/text/begin}%
21419       \raggedfootnote
21420       \ifRTL
21421         \rightskip
21422       \else
21423         \leftskip
21424       \fi
21425       #2
21426       \l@addto@macro\@trivlist{%
21427         \ifnum\@listdepth=\@ne
21428           \ifRTL
21429             \advance\rightmargin #2\relax
21430           \else
21431             \advance\leftmargin #2\relax
21432           \fi
21433         \fi
21434       }%
21435       \parindent #3\noindent
21436       \IfArgIsEmpty{#1}{}{}%
21437       \hskip \dimexpr #1-#2\relax

```



```

21438 }%
21439 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21440 \ExecuteDoHook{footnote/text/end}%
21441 }%
21442 \else
21443 \ClassInfo{\KOMAClassName}{%
21444 Using old \string\@makefnmark\space due to compatibility
21445 level\MessageBreak
21446 less than 3.22}%
21447 \long\def\@makefnmark##1{%
21448 \setlength{\@tempdimc}{#3}%
21449 \def\@tempa{#1}\ifx\@tempa\@empty
21450 \setpar{\@par
21451 \@tempdima = \hsize
21452 \addtolength{\@tempdima}{-#2}%
21453 \if@RTL
21454 \parshape \@ne \z@ \@tempdima
21455 \else
21456 \parshape \@ne #2 \@tempdima
21457 \fi
21458 }%
21459 \else
21460 \addtolength{\@tempdimc}{#2}%
21461 \addtolength{\@tempdimc}{-#1}%
21462 \setpar{\@par
21463 \@tempdima = \hsize
21464 \addtolength{\@tempdima}{-#1}%
21465 \@tempdimb = \hsize
21466 \addtolength{\@tempdimb}{-#2}%
21467 \if@RTL
21468 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21469 \else
21470 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21471 \fi
21472 }%
21473 \fi
21474 \par
21475 \parindent\@tempdimc\noindent
21476 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21477 }%
21478 \fi
21479 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21480 }
21481 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21482 \renewcommand*\left@footnoterule{%
21483 \normalsize\ftn@rule@test@values
21484 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21485 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21486 {\usekomafont{footnoterule}}%
21487 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21488 \kern 2.6\p@}
21489 \renewcommand*\right@footnoterule{%
21490 \normalsize\ftn@rule@test@values
21491 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax

```



```

21492 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21493 {\usekomafont{footnoterule}}{%
21494     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
21495     \kern 2.6\p@}
21496 \renewcommand*\maketitle[1][1]{%
21497     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21498     \else
21499         \def\and{%
21500             \end{tabular}}%
21501             \hskip 1em \@plus.17fil%
21502             \begin{tabular}[t]{c}%
21503         }%
21504     \fi
21505     \if@titlepage
21506         \begin{titlepage}
21507             \setcounter{page}{%
21508                 #1%
21509             }%
21510             \if@titlepageiscoverpage
21511                 \edef\titlename@restore{%
21512                     \noexpand\endgroup
21513                     \noexpand\global\noexpand\@colht\the\@colht
21514                     \noexpand\global\noexpand\@colroom\the\@colroom
21515                     \noexpand\global\vsize\the\vsize
21516                     \noexpand\global\noexpand\@titlepageiscoverpagefalse
21517                     \noexpand\let\noexpand\titlename@restore\noexpand\relax
21518                 }%
21519                 \begingroup
21520                 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21521                 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21522                 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21523                 \textwidth=\dimexpr
21524                 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21525                 \textheight=\dimexpr
21526                 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21527                 \headheight=0pt
21528                 \headsep=0pt
21529                 \footskip=\baselineskip
21530                 \@colht=\textheight
21531                 \@colroom=\textheight
21532                 \vsize=\textheight
21533                 \columnwidth=\textwidth
21534                 \hsize=\columnwidth
21535                 \linewidth=\hsize
21536             \else
21537                 \let\titlename@restore\relax
21538             \fi
21539             \let\footnotesize\small
21540             \let\right@footnoterule\relax
21541             \let\left@footnoterule\relax
21542             \let\textwidth@footnoterule\relax
21543             \let\footnote\thanks
21544             \let\LTRfootnote\LTRthanks
21545             \let\RTLfootnote\RTLthanks

```



```

21546 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21547 \let\@oldmakefnmark\@makefnmark
21548 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21549 \ifx\@extratitle\@empty
21550 \ifx\@frontispiece\@empty
21551 \else
21552 \if@twoside\mbox{}\next@tpage\fi
21553 \noindent\@frontispiece\next@tdpage
21554 \fi
21555 \else
21556 \noindent\@extratitle
21557 \ifx\@frontispiece\@empty
21558 \else
21559 \next@tpage
21560 \noindent\@frontispiece
21561 \fi
21562 \next@tdpage
21563 \fi
21564 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21565 \ifx\@titlehead\@empty \else
21566 \begin{minipage}[t]{\textwidth}%
21567 \usekomafont{titlehead}{\@titlehead\par}%
21568 \end{minipage}\par
21569 \fi
21570 \null\vfill
21571 \begin{center}
21572 \ifx\@subject\@empty \else
21573 {\usekomafont{subject}{\@subject\par}}%
21574 \vskip 3em
21575 \fi
21576 {\usekomafont{title}{\huge \@title\par}}%
21577 \vskip 1em
21578 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21579 \vskip 2em
21580 {%
21581 \usekomafont{author}{%
21582 \lineskip 0.75em
21583 \begin{tabular}[t]{c}
21584 \@author
21585 \end{tabular}\par
21586 }%
21587 }%
21588 \vskip 1.5em
21589 {\usekomafont{date}{\@date \par}}%
21590 \vskip \z@ \@plus3fill
21591 {\usekomafont{publishers}{\@publishers \par}}%
21592 \vskip 3em
21593 \end{center}\par
21594 \@thanks\global\let\@thanks\@empty
21595 \vfill\null
21596 \if@twoside
21597 \@tempswatrue
21598 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21599 \else

```



```

21600         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21601             \@tempswafalse
21602         \fi\fi
21603     \fi
21604     \if@tempswa
21605         \next@tpage
21606         \begin{minipage}[t]{\textwidth}
21607             \@uppertitleback
21608         \end{minipage}\par
21609         \vfill
21610         \begin{minipage}[b]{\textwidth}
21611             \@lowertitleback
21612         \end{minipage}\par
21613         \@thanks\global\let\@thanks\@empty
21614     \fi
21615 \else
21616     \ifx\@uppertitleback\@empty\else
21617         \ClassWarning{\KOMAClassName}{%
21618             non empty \string\uppertitleback\space ignored
21619             by \string\maketitle\MessageBreak
21620             in `twoside=false' mode%
21621         }%
21622     \fi
21623     \ifx\@lowertitleback\@empty\else
21624         \ClassWarning{\KOMAClassName}{%
21625             non empty \string\lowertitleback\space ignored
21626             by \string\maketitle\MessageBreak
21627             in `twoside=false' mode%
21628         }%
21629     \fi
21630 \fi
21631 \ifx\@dedication\@empty
21632 \else
21633     \next@tdpage\null\vfill
21634     {\centering\usekomafont{dedication}{\@dedication \par}}%
21635     \vskip \z@ \@plus3fill
21636     \@thanks\global\let\@thanks\@empty
21637     \cleardoubleemptypage
21638 \fi
21639 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21640 \end{titlepage}
21641 \else
21642     \par
21643     \@tempcnta=%
21644     #1%
21645     \relax\ifnum\@tempcnta=1\else
21646         \ClassWarning{\KOMAClassName}{%
21647             Optional argument of \string\maketitle\space ignored\MessageBreak
21648             in `titlepage=false' mode%
21649         }%
21650     \fi
21651     \ifx\@uppertitleback\@empty\else
21652         \ClassWarning{\KOMAClassName}{%
21653             non empty \string\uppertitleback\space ignored

```



```

21654         by \string\maketitle\MessageBreak
21655         in `titlepage=false' mode%
21656     }%
21657 \fi
21658 \ifx\@lowertitleback\@empty\else
21659     \ClassWarning{\KOMAClassName}{%
21660         non empty \string\lowertitleback\space ignored
21661         by \string\maketitle\MessageBreak
21662         in `titlepage=false' mode%
21663     }%
21664 \fi
21665 \begingroup
21666     \let\titlepage@restore\relax
21667     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21668     \let\@oldmakefnmark\@makefnmark
21669     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21670     \next@tdpage
21671     \if@twocolumn
21672         \ifnum \col@number=\@ne
21673             \ifx\@extratitle\@empty
21674                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21675             \else
21676                 \@makeextratitle
21677             \fi
21678             \ifx\@frontispiece\@empty
21679                 \ifx\@extratitle\@empty\else\next@tdpage\fi
21680             \else
21681                 \next@tpage
21682                 \@makefrontispiece
21683                 \next@tdpage
21684             \fi
21685             \@maketitle
21686         \else
21687             \ifx\@extratitle\@empty
21688                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21689             \else
21690                 \twocolumn[\@makeextratitle]%
21691             \fi
21692             \ifx\@frontispiece\@empty
21693                 \ifx\@extratitle\@empty\else\next@tdpage\fi
21694             \else
21695                 \next@tpage
21696                 \twocolumn[\@makefrontispiece]%
21697                 \next@tdpage
21698             \fi
21699             \twocolumn[\@maketitle]%
21700         \fi
21701     \else
21702         \ifx\@extratitle\@empty
21703             \ifx\@frontispiece\@empty\else \mbox{}\fi
21704         \else
21705             \@makeextratitle
21706         \fi
21707         \ifx\@frontispiece\@empty

```



```

21708         \ifx\@extratitle\@empty\else\next@tdpage\fi
21709     \else
21710         \next@tpage
21711         \@makefrontispiece
21712         \next@tdpage
21713     \fi
21714     \@maketitle
21715 \fi
21716 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21717 \@thanks\global\let\@thanks\@empty
21718 \endgroup
21719 \fi
21720 \setcounter{footnote}{0}%
21721 \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
21722     \let\thanks\relax
21723     \let\LTRthanks\relax
21724     \let\RTLthanks\relax
21725     \let\maketitle\relax
21726     \let\@maketitle\relax
21727     \global\let\@thanks\@empty
21728     \global\let\@author\@empty
21729     \global\let\@date\@empty
21730     \global\let\@title\@empty
21731     \global\let\@subtitle\@empty
21732     \global\let\@extratitle\@empty
21733     \global\let\@frontispiece\@empty
21734     \global\let\@titlehead\@empty
21735     \global\let\@subject\@empty
21736     \global\let\@publishers\@empty
21737     \global\let\@uppertitleback\@empty
21738     \global\let\@lowertitleback\@empty
21739     \global\let\@dedication\@empty
21740     \global\let\author\relax
21741     \global\let\title\relax
21742     \global\let\extratitle\relax
21743     \global\let\titlehead\relax
21744     \global\let\subject\relax
21745     \global\let\publishers\relax
21746     \global\let\uppertitleback\relax
21747     \global\let\lowertitleback\relax
21748     \global\let\dedication\relax
21749     \global\let\date\relax
21750 \fi
21751 \global\let\and\relax
21752 }%
21753 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21754 \renewcommand*{\autodot}{\if@altsecnumformat\@SepMark\fi}
21755 \renewcommand*{\thesection}{%
21756     \thechapter\@SepMark%
21757     \@arabic\c@section
21758 }
21759 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21760 \renewcommand*{\thesubsubsection}{%
21761     \thesubsection\@SepMark\@arabic\c@subsubsection

```





```

21762 }
21763 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21764 \renewcommand*{\thesubparagraph}{%
21765   \theparagraph\@SepMark\@arabic\c@subparagraph
21766 }
21767 \expandafter\ifnum\scr@v@is@le{2.97d}%
21768   \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21769 \fi
21770 \expandafter\ifnum\scr@v@is@le{2.97d}%
21771   \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21772 \fi
21773 \renewcommand*\theequation{%
21774   \thechapter\@SepMark%
21775   \@arabic\c@equation
21776 }
21777 \renewenvironment{thebibliography}[1]{%
21778   \if@bib@break@
21779     \bib@beginhook
21780   \else
21781     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21782       \setchapterpreamble{\bibpreamble}%
21783     \fi\fi
21784     \bib@heading
21785     \bib@beginhook
21786     \bib@before@hook
21787   \fi
21788   \renewcommand{\BreakBibliography}[1]{%
21789     \@bib@break
21790     \end{thebibliography}%
21791     \begingroup ##1\endgroup
21792     \begin{thebibliography}{#1}
21793   }%
21794   \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
21795   \bidi@thebibliography@font@hook%
21796   \list{%
21797     \@biblabel{\@arabic\c@enumiv}%
21798   }{%
21799     \settowidth\labelwidth{\@biblabel{#1}}%
21800     \leftmargin\labelwidth
21801     \advance\leftmargin\labelsep
21802     \@openbib@code
21803     \if@bib@break@
21804       \edef\@tempa{%
21805         \noexpand\usecounter{enumiv}%
21806         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21807       }\@tempa
21808       \no@bib@break
21809     \else
21810       \usecounter{enumiv}%
21811     \fi
21812     \let\p@enumiv\@empty
21813     \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21814   }%
21815   \sloppy\clubpenalty4000 \widowpenalty4000

```



```

21816 \sfcode`\.=\@m
21817 }{%
21818 \if@bib@break@
21819 \def\@noitemerr{%
21820 \latex@warning{%
21821 \string\BreakBibliography\space at begin of `thebibliography'
21822 environment\MessageBreak
21823 or following \string\BreakBibliography}%
21824 }%
21825 \else
21826 \def\@noitemerr{%
21827 \latex@warning{%
21828 Empty `thebibliography' environment or
21829 \string\BreakBibliography\MessageBreak
21830 before end of `thebibliography' environment}%
21831 }%
21832 \fi
21833 \endlist
21834 \if@bib@break@
21835 \else
21836 \bib@after@hook
21837 \let\bib@before@hook\@empty
21838 \let\bib@after@hook\@empty
21839 \fi
21840 \bib@endhook
21841 }
21842 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21843 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21844 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21845 \renewcommand\marginline[1]{%
21846 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
21847 }
21848 \renewcommand{\@makecaption}[3]{%
21849 \cap@margin
21850 \begingroup
21851 \ifonelinecaptions
21852 \def\stepcounter##1{\advance\value{##1}\@ne}%
21853 \let\refstepcounter\stepcounter
21854 \let\label\@gobble
21855 \let\@footnotetext=\@gobble
21856 \let\@LTRfootnotetext=\@gobble
21857 \let\@RTLfootnotetext=\@gobble
21858 \let\hypertarget\@gobbletwo
21859 \edef\xnewline{%
21860 \unexpanded{\ClassInfo{\KOMAClassName}{%
21861 Workaround for not recommended usage of \string\\ or\MessageBreak
21862 \string\newline in caption text
21863 }%
21864 \hspace*{\linewidth}\hspace{1sp}%
21865 }%
21866 \unexpanded\expandafter{\xnewline}%
21867 }%
21868 \edef\xcentercr{%
21869 \unexpanded{\ClassInfo{\KOMAClassName}{%

```



```

21870         Workaround for not recommended usage of \string\\ or\MessageBreak
21871         \string\newline in caption text
21872     }%
21873     \hspace*{\linewidth}\hspace{1sp}%
21874 }%
21875 \unexpanded\expandafter{\@xcentercr}%
21876 }%
21877 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21878 \ifdim\@tempdima>\cap@width
21879     \aftergroup\scr@makemultilinecaption
21880 \else
21881     \aftergroup\scr@makesinglelinecaption
21882 \fi
21883 \else
21884     \aftergroup\scr@makemultilinecaption
21885 \fi
21886 \endgroup
21887 {#1}{#2}{#3}%
21888 }
21889 \renewcommand{\scr@makesinglelinecaption}[3]{%
21890     {%
21891         \usefontofkomafont{caption}{%
21892             \hb@xt@{\hsize}{%
21893                 \cap@left
21894                 \if@RTL
21895                     \beginR
21896                     \fi
21897                 \scr@makesinglelinecaption{#1}{#2}{#3}%
21898                 \if@RTL
21899                     \endR
21900                 \fi
21901                 \cap@right
21902             }\par\kern\dp\strutbox%
21903         }%
21904     }\kern-\dp\strutbox
21905 }
21906 \renewcommand{\@makecaption}[2]{%
21907     \if@captionabove
21908         \vskip\belowcaptionskip
21909     \else
21910         \vskip\abovecaptionskip
21911     \fi
21912     \@makecaption\@firstofone{#1}{#2}%
21913     \if@captionabove
21914         \vskip\abovecaptionskip
21915     \else
21916         \vskip\belowcaptionskip
21917     \fi
21918 }
21919
21920 \renewcommand{\scr@makesinglelinecaption}[3]{%
21921     {\usekomafont{caption}{\strut\ignorespaces
21922         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21923     \ignorespaces #3\unskip}}%

```



```

21924 }
21925
21926 \renewcommand{\scr@makemultilinecaption}[3]{%
21927   {%
21928     \usefontofkomafont{caption}{%
21929       \hb@xt@{hsize}{%
21930         \cap@left
21931         \vbox{\hsize\cap@width\linewidth\hsize
21932           \scr@ifundefinedorrelax{@capttype}{%
21933             \ClassWarning{KOMAClassName}{%
21934               `\'string\'caption' outside float.\MessageBreak
21935               Seems you are using `\'string\'caption' outside a
21936               float.\MessageBreak
21937               Maybe you are using a package that uses
21938               `\'string\'@makecaption'\MessageBreak
21939               without setting `\'string\'@capttype' before.\MessageBreak
21940               Because I cannot detect the caption type, I'm using\MessageBreak
21941               the empty one.%
21942             }%
21943             \let\@capttype\@empty
21944           }{}%
21945           \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
21946             \@nameuse{ragged\@capttype caption}%
21947           }%
21948           \ifdofullc@p
21949             \@hangfrom{%
21950               \strut
21951               \scr@smashdp{%
21952                 #1{%
21953                   \usekomafont{caption}{%
21954                     \usekomafont{captionlabel}{#2\captionformat}%
21955                   }%
21956                 }%
21957               }%
21958             }%
21959             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21960           \else
21961             \ifdim\cap@indent<\z@
21962               \strut
21963               #1{%
21964                 {\usekomafont{caption}{%
21965                   \usekomafont{captionlabel}{#2\captionformat}%
21966                 }%
21967               }\par}%
21968             \noindent{{\usekomafont{caption}{%
21969               \hspace*{-\cap@indent}#3\scr@endstrut
21970             }}\par}%
21971           \else
21972             \if@capbreak
21973               \strut
21974               #1{%
21975                 {\usekomafont{caption}{%
21976                   \usekomafont{captionlabel}{#2\captionformat}%
21977                 }%

```



```

21978         }\par}%
21979         \noindent\@hangfrom{\hspace*{\cap@indent}}}%
21980         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21981     \else
21982         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}}%
21983         {%
21984             \hspace{-\cap@indent}%
21985             \scr@smashdp{%
21986                 #1{\usekomafont{caption}{%
21987                     \usekomafont{captionlabel}{#2\captionformat}%
21988                 }}%
21989             }%
21990         }%
21991         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21992     }%
21993     \fi
21994     \fi
21995     \fi
21996     }%
21997     \cap@right
21998     }\par\kern\dp\strutbox
21999     }%
22000     }\kern-\dp\strutbox
22001 }
22002
22003
22004 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22005     \if@komalongtable
22006         \renewcommand{\LT@makecaption}[3]{%
22007             \LT@mcol\LT@cols c{%
22008                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
22009                     \if@captionabove\else\vskip\belowcaptionskip\fi
22010                     \@makecaption{#1}{#2}{#3}%
22011                     \endgraf
22012                     \if@captionabove\vskip\abovecaptionskip\fi
22013                 }}%
22014                 \hss
22015             }%
22016         }%
22017     }%
22018     \renewcommand*{\scr@LT@array}{}%
22019     \let\scr@LT@array=\LT@array
22020     \renewcommand*{\LT@array}{%
22021         \def\@capttype{table}%
22022         \@ifundefined{LTcapttype}{}{%
22023             \Ifstr{\LTcapttype}{}{}{\let\@capttype\LTcapttype}%
22024         }%
22025         \csname tocbasic_if_caption_above:TF\endcsname
22026         {\@captionabovetrue}{\@captionabovetrue}%
22027         \def\captionabove{\noalign{\global\@captionabovetrue}%
22028             \LT@caption}%
22029         \def\captionbelow{\noalign{\global\@captionabovetrue}%
22030             \LT@caption}%
22031         \scr@LT@array

```



```

22032 }%
22033 \ClassInfo{\KOMAClassName}{%
22034     longtable captions redefined%
22035 }%
22036 \fi
22037 }
22038
22039 \CloneTOCEntryStyle{tocline}{part}
22040 \TOCEntryStyleStartInitCode{part}{%
22041     \expandafter\renewcommand%
22042     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22043     \expandafter\renewcommand%
22044     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22045     \expandafter\renewcommand%
22046     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22047         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22048     \expandafter\renewcommand\expandafter*%
22049     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
22050 }
22051
22052 \CloneTOCEntryStyle{tocline}{chapter}
22053 \TOCEntryStyleStartInitCode{chapter}{%
22054     \expandafter\renewcommand%
22055     \csname scr@tso@#1@linefill\endcsname{%
22056         \if@chapterentrywithdots
22057             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22058         \else
22059             \hfill
22060         \fi
22061     }%
22062     \expandafter\renewcommand%
22063     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22064     \expandafter\renewcommand%
22065     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22066         {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22067     \expandafter\renewcommand\expandafter*%
22068     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
22069 }
22070
22071 \CloneTOCEntryStyle{tocline}{section}
22072 \TOCEntryStyleStartInitCode{section}{%
22073     \expandafter\renewcommand%
22074     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22075     \expandafter\renewcommand%
22076     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22077         {\normalfont\normalcolor ##1}}%
22078 }
22079
22080 \CloneTOCEntryStyle{section}{default}
22081
22082 \DeclareSectionCommand[%
22083     style=chapter,%
22084     level=\z@,%
22085     pagestyle=plain,%

```



```

22086   tocstyle=chapter,%
22087   tocindent=\z@,%
22088   tocnumwidth=1.5em%
22089 ]{chapter}
22090 \DeclareSectionCommand[%
22091   style=section,%
22092   level=1,%
22093   indent=\z@,%
22094   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22095   afterskip=2.3ex \@plus .2ex,%
22096   tocstyle=section,%
22097   tocindentfollows=chapter,%
22098   tocindent=1.5em,%
22099   tocnumwidth=2.3em%
22100 ]{section}
22101 \DeclareSectionCommand[%
22102   style=part,%
22103   level=\m@ne,%
22104   pagestyle=plain,%
22105   tocstyle=part,%
22106   toclevel=\m@ne,%
22107   tocindent=\z@,%
22108   tocnumwidth=2em%
22109 ]{part}
22110 \DeclareSectionCommand[%
22111   style=section,%
22112   level=2,%
22113   indent=\z@,%
22114   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22115   afterskip=1.5ex \@plus .2ex,%
22116   tocstyle=section,%
22117   tocindent=3.8em,%
22118   tocnumwidth=3.2em%
22119 ]{subsection}
22120 \DeclareSectionCommand[%
22121   style=section,%
22122   level=3,%
22123   indent=\z@,%
22124   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22125   afterskip=1.5ex \@plus .2ex,%
22126   tocstyle=section,%
22127   tocindent=7.0em,%
22128   tocnumwidth=4.1em%
22129 ]{subsubsection}
22130 \DeclareSectionCommand[%
22131   style=section,%
22132   level=4,%
22133   indent=\z@,%
22134   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22135   afterskip=-1em,%
22136   tocindentfollows=subsubsection,%
22137   tocstyle=section,%
22138   tocindent=10em,%
22139   tocnumwidth=5em%

```



```

22140 ]{paragraph}
22141 \DeclareSectionCommand[%
22142   style=section,%
22143   level=5,%
22144   indent=\scr@parindent,%
22145   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
22146   afterskip=-1em,%
22147   tocstyle=section,%
22148   tocindent=12em,%
22149   tocnumwidth=6em%
22150 ]{subparagraph}

```

## 145 File sidecap-xetex-bidi.def

```

22151 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package
22152 \RequirePackage{ragged2e}
22153 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
22154   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {\#2}\hspace{\sidecaptionsep}{#1}\else%
22155   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {\#1}\hspace{\sidecaptionsep}{#2}\fi}
22156 \renewcommand*{\SC@justify@caption}{\if@RTL%
22157   \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
22158   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
22159
22160 \@ifpackagewith{sidecap}{innercaption}{%
22161   \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
22162     \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {\#1}\hspace{\sidecaptionsep}{#2}}
22163   \renewcommand*{\SC@justify@caption}{%
22164     \isSC@ODD{\RaggedRight}{\RaggedLeft}\else%
22165     \renewcommand*{\SC@FLOAT}[2]{%
22166       \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {\#2}\hspace{\sidecaptionsep}{#1}}
22167     \renewcommand*{\SC@justify@caption}{%
22168       \isSC@ODD{\RaggedLeft}{\RaggedRight}\fi}
22169   }{}
22170
22171 \@ifpackagewith{sidecap}{rightcaption}{%
22172   \if@RTL\renewcommand*{\SC@FLOAT}[2]{\#1}\hspace{\sidecaptionsep}{#2}}
22173   \def\SC@justify@caption{\RaggedLeft}\else%
22174   \renewcommand*{\SC@FLOAT}[2]{\#2}\hspace{\sidecaptionsep}{#1}}
22175   \def\SC@justify@caption{\RaggedRight}\fi%
22176 }{}
22177
22178 \@ifpackagewith{sidecap}{leftcaption}{%
22179   \if@RTL \renewcommand*{\SC@FLOAT}[2]{\#2}\hspace{\sidecaptionsep}{#1}}
22180   \def\SC@justify@caption{\RaggedRight}\else%
22181   \renewcommand*{\SC@FLOAT}[2]{\#1}\hspace{\sidecaptionsep}{#2}}
22182   \def\SC@justify@caption{\RaggedLeft}\fi%
22183 }{}

```

## 146 File soul-xetex-bidi.def

```

22184 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for Xe
22185 \long\def\SOUL@start#1{%
22186   \let\bidi@RTL@everypar@empty
22187   \let\<\SOUL@lowerthan

```





```

22188 \let\>\empty
22189 \def\soulomit{\noexpand\soulomit}%
22190 \gdef\SOUL@eventuallyxhyphen##1{%
22191 \let\SOUL@soeventuallyskip\relax
22192 \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@\font
22193 \@minus\fontdimen4\font
22194 \SOUL@ignorespacesfalse
22195 \leavevmode
22196 \SOUL@preamble
22197 \SOUL@lasttoken={}%
22198 \SOUL@word={}%
22199 \SOUL@minus\z@
22200 \SOUL@comma\z@
22201 \SOUL@apo\z@
22202 \SOUL@grave\z@
22203 \SOUL@do{#1}%
22204 \SOUL@postamble
22205 }}
22206 \def\SOUL@ulunderline#1{%
22207 \setbox\z@\hbox{#1}%
22208 \dimen@=\wd\z@
22209 \dimen@i=\SOUL@uloverlap
22210 \advance\dimen@2\dimen@i
22211 \if@RTL
22212 \unhcopy\z@
22213 \llap{%
22214 \null
22215 \kern-\dimen@i
22216 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22217 }%
22218 \else
22219 \rlap{%
22220 \null
22221 \kern-\dimen@i
22222 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22223 }%
22224 \unhcopy\z@
22225 \fi
22226 }}
22227 \def\bidi@SOUL@ulleaders{%
22228 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\
22229 }
22230 \def\SOUL@uleverySPACE#1{%
22231 \if@RTL
22232 #1%
22233 \bidi@SOUL@ulleaders
22234 \hskip\spaceskip
22235 \else
22236 \SOUL@ulcolor{%
22237 #1%
22238 \SOUL@ulleaders
22239 \hskip\spaceskip
22240 }%
22241 \fi

```



```

22242 \null
22243 }

```

## 147 File stabular-xetex-bidi.def

```

22244 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular packag
22245 \def\@stabular{%
22246   \leavevmode \bgroup \if@RTLtab\beginR \fi
22247   \let\@acol\@tabacol
22248   \let\@classz\@tabclassz
22249   \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
22250 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
22251   \egroup \if@RTLtab\endR\fi\egroup}
22252 \expandafter \let \csname endstabular*\endcsname = \endstabular
22253 \def\@sarray[#1]#2{%
22254   \bgroup
22255   \setbox\@arstrutbox\hbox{%
22256     \vrule \@height\arraystretch\ht\strutbox
22257     \@depth\arraystretch \dp\strutbox
22258     \@width\z@}%
22259   \@mkpream{#2}%
22260   \edef\@preamble{%
22261     \ialign \noexpand\@halignto
22262       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
22263   \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
22264   \let\@tabularnewline\\%
22265   \let\@sharp##%
22266   \set@typeset@protect
22267   \lineskip\z@skip\baselineskip\z@skip
22268   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\ atop \else \ vbox \fi\bgroup\fi
22269   \@preamble}

```

## 148 File subfigure-xetex-bidi.def

```

22270 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure pack
22271 \AtBeginDocument{%
22272 \let\p@subfigure=\thefigure
22273 \let\p@subtable=\thetable%
22274 }

```

## 149 File tabs-xetex-bidi.def

```

22275 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for
22276 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
22277
22278 \expandafter\let\csname endtabular*\endcsname=\endtabular
22279
22280 \def\endarray{\ifvmode\csname crr\endcsname % just do \crr if \ given
22281   \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
22282   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
22283
22284 \def\@array[#1]#2{% remember global variables to allow recursion:
22285   \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
22286     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%

```



```

22287 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
22288 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
22289 \else \let\@tarlinesep\tablinesep \fi
22290 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
22291 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
22292 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
22293 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
22294   \def\@rememsize{\protect\@r@m@size}\let\@seesize\@s@size
22295   \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
22296 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
22297   \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
22298 \let\protect\noexpand
22299 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
23000 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
23001 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23002 \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
23003 \bgroup \let\par\empty
23004 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
23005 \advance\extrarulesep.5\arrayrulewidth
23006 \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
23007 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \vbox \fi\bgroup\fi
23008 \@preamble}

```

## 150 File tabularx-xetex-bidi.def

```

22309 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx packag
22310 \def\TX@endtabularx{%
22311   \expandafter\expandafter\expandafter
22312     \TX@find@endtabularxa\csname end\TX@\endcsname
22313     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
22314   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
22315   \let\verb\TX@verb
22316   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
22317   \edef\TX@ckpt{\cl@ckpt}%
22318   \let\@elt\relax
22319   \TX@old@table\maxdimen
22320   \TX@col@width\TX@target
22321   \global\TX@cols\@ne
22322   \TX@typeout@
22323   {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
22324   \TX@trial{\def\NC@rewrite@X{%
22325     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
22326   \loop
22327     \TX@arith
22328     \ifTX@
22329     \TX@trial{}%
22330   \repeat
22331   {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
22332     \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
22333     \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
22334     \csname tabular*\expandafter\endcsname\expandafter\TX@target
22335       \the\toks@
22336     \csname endtabular*\endcsname}%
22337   \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn

```



```

22338 \ifnum0=`{\fi}%
22339 \expandafter\expandafter\expandafter
22340 \TX@find@endtabularxbb
22341 \expandafter\end\expandafter{\TX@}%
22342 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
22343 }
22344
22345 \def\TX@trial#1{%
22346 \setbox\@tempboxa\hbox{%
22347 #1\relax
22348 \let\@footnotetext\TX@trial@ftn
22349 \let\@LTRfootnotetext\TX@trial@ftn
22350 \let\@RTLfootnotetext\TX@trial@ftn
22351 \let\TX@vwarn\@empty
22352 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
22353 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
22354 \def\write{\begingroup
22355 \def\let{\afterassignment\endgroup\toks@}%
22356 \afterassignment\let\count@}%
22357 \hbadness\@M
22358 \hfuzz\maxdimen
22359 \let\hbadness\@tempcnta
22360 \let\hfuzz\@tempdima
22361 \expandafter\tabular\the\toks@
22362 \endtabular}%
22363 \TX@ckpt
22364 \TX@typeout@{\@spaces
22365 \expandafter\TX@align
22366 \the\wd\@tempboxa\space\space\space\space\space\@@
22367 \expandafter\TX@align
22368 \the\TX@col@width\space\space\space\space\space\@@
22369 \@spaces\the\TX@cols}}
22370
22371 \long\def\TX@LTRftntext#1{%
22372 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
22373 [\the\csname c@\@mpfn\endcsname]]}%
22374 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22375 \long\def\TX@xLTRftntext[#1]#2{%
22376 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
22377
22378 \long\def\TX@RTLftntext#1{%
22379 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
22380 [\the\csname c@\@mpfn\endcsname]]}%
22381 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22382 \long\def\TX@xRTLftntext[#1]#2{%
22383 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 151 File tabulary-xetex-bidi.def

```

22384 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary packag
22385 \def\@testpach{\@chclass
22386 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
22387 \ifnum \@lastchclass=7 5 \else
22388 \ifnum \@lastchclass=8 \tw@ \else

```



```

22389 \ifnum \@lastchclass=9 \thr@@
22390 \else \z@
22391 \ifnum \@lastchclass = 10 \else
22392 \edef\@nextchar{\expandafter\string\@nextchar}%
22393 \@chnum
22394 \if \@nextchar c\z@ \else
22395 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
22396 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
22397 \if \@nextchar C7 \else
22398 \if \@nextchar L8 \else
22399 \if \@nextchar R9 \else
22400 \if \@nextchar J10 \else
22401 \z@ \@chclass
22402 \if\@nextchar |\@ne \else
22403 \if \@nextchar !6 \else
22404 \if \@nextchar @7 \else
22405 \if \@nextchar <8 \else
22406 \if \@nextchar >9 \else
22407 10
22408 \@chnum
22409 \if \@nextchar m\thr@@\else
22410 \if \@nextchar p4 \else
22411 \if \@nextchar b5 \else
22412 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
22413 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

## 152 File tc-xetex-xetex-bidi.def

```

22414 \ProvidesFile{tc-xetex-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver]
22415 \def\@cliptoboxdim#1{%
22416 \setbox#1=\hbox{%
22417 \Gin@defaultbp\WIDTH{\wd#1}%
22418 \Gin@defaultbp\DEPTH{\dp#1}%
22419 \@tempdima\ht#1%
22420 \advance\@tempdima\dp#1%
22421 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
22422 \beginL\special{pdf:bcontent }%
22423 \special{%
22424 pdf:literal direct
22425 0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
22426 }%
22427 \special{pdf:literal direct W }%
22428 \special{pdf:literal direct n }%
22429 \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
22430 \special{pdf:econtent }\endL%
22431 }%
22432 }

```

## 153 File tcolorbox-xetex-bidi.def

```

22433 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox package]
22434 \let\endtcblrbox=\endminipage
22435 \let\endtcbsavebox=\endtcblrbox
22436

```



```

22437 \bidi@patchcmd{\tcb@vbox}{%
22438   \let\@footnotetext\@mpfootnotetext%
22439 }{%
22440   \let\@footnotetext\@mpfootnotetext%
22441   \let\@LTRfootnotetext\@mpLTRfootnotetext%
22442   \let\@RTLfootnotetext\@mpRTLfootnotetext%
22443 }{}{}
22444
22445 \bidi@patchcmd{\end tcb@vbox}{%
22446   \footnoterule%
22447 }{%
22448   \bidi@mpfootnoterule%
22449 }{}{}
22450 \bidi@apptocmd\tcb@icolorbox{%
22451   \@bidi@list@minipage@parboxfalse
22452 }{}{}

```

## 154 File thmbox-xetex-bidi.def

```

22453 \ProvidesFile{thmbox-xetex-bidi.def}[2025/09/04 v0.1 bidi adaptations for thmbox package fo
22454 \renewenvironment{thmbox}[2][]{%
22455   \parskip\z@%
22456   \setkeys{thmbox}{#1}%
22457   \ifx\thmbox@style S\else\ifx\thmbox@style M\else\ifx\thmbox@style L\else%
22458     \PackageWarning{thmbox}{\thmbox@style\ is not a valid style for
22459       \string\thmbox, using M}%
22460     \let\thmbox@style=M%
22461   \fi\fi\fi%
22462   \thmbox@head{#2}\nobreak\relax%
22463   \thmbox@dim=\hsize%
22464   \advance\thmbox@dim-\leftskip%
22465   \advance\thmbox@dim-\rightskip%
22466   \setbox\thmbox@box=\vbox\bgroup%
22467     \if@RTL
22468       \@hboxRconstructtrue
22469     \fi
22470     \hsize=\thmbox@dim%
22471     \advance\hsize -\thmbox@leftmargin%
22472     \advance\hsize -\thmbox@rightmargin%
22473     \textwidth=\hsize%
22474     \linewidth=\hsize%
22475     \vskip\thmbox@vskip%
22476     \begingroup\endgroup%
22477     \vskip\thmbox@vskip%
22478   \egroup%
22479   \thmbox@start%
22480   \ifx\thmbox@style S\else\thmbox@tail\fi%
22481   \@endparenv}

```

## 155 File titlesec-xetex-bidi.def

```

22482 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec packag
22483 \renewcommand\filright{%
22484   \gdef\ttl@filleft##1{\hskip##1}%

```



```

22485 \gdef\ttl@filright##1{\hfill}%
22486 \let\\\@centercr
22487 \advance\rightskip\z@ \@plus 1fil
22488 \parfillskip\z@}
22489 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
22490 \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
22491 \setlength\leftskip{#6}%
22492 \setlength\rightskip{#7}%
22493 \interlinepenalty\@M
22494 \ttl@change@centercr
22495 \ttl@beginlongest
22496 #1{\ifhmode\ttl@hmode@error\fi
22497 \ttl@glcmds
22498 \parindent\z@
22499 \leavevmode
22500 \beginngroup
22501 \ifttl@label
22502 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
22503 \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
22504 \llap{\box\z@}%
22505 \fi
22506 #4{#8}%
22507 \kern\z@\strut\@par
22508 \endgroup
22509 \nobreak\ttl@midlongest#5\@par}%
22510 \ttl@endlongest}

```

## 156 File titletoc-xetex-bidi.def

```

22511 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
22512 \renewcommand\filright{%
22513 \gdef\ttl@filleft##1{\hskip##1}%
22514 \gdef\ttl@filright##1{\hfill}%
22515 \let\\\@centercr
22516 \advance\rightskip\z@ \@plus 1fil
22517 \parfillskip\z@}
22518 \renewcommand\contentspush[1]{%
22519 \sbox\z@{#1}%
22520 \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
22521 \aftergroup\ttl@b
22522 \leavevmode\llap{\box\z@}}
22523 \def\ttl@outnoblock#1#2#3{%
22524 \beginngroup
22525 \ifnum\ttl@b>\ttl@a
22526 \nobreak
22527 \else\ifnum\ttl@b<\ttl@a
22528 \addpenalty{\@secpenalty}%
22529 \else
22530 \addpenalty{\z@}%
22531 \fi\fi
22532 \ttl@contentsstretch
22533 \nobreak
22534 \ifcase#1\relax\else\interlinepenalty\@M\fi
22535 \parindent\z@

```



```

22536 \ifx\@nil#2%
22537 \PackageError{titletoc}{Unimplemented}%
22538 {The optional argument is currently mandatory}%
22539 \else
22540 \if@RTL\setlength\rightskip{#2}\else
22541 \setlength\leftskip{#2}\fi%
22542 \fi
22543 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
22544 \let\contentsmargin\ttl@margin
22545 \def\ttl@makeline##1{##1}%
22546 #3%
22547 \addtolength{\parfillskip}{-\ttl@corr}%
22548 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
22549 \let\ttl@leaders\leaders}
22550 \renewcommand\ttl@margin[2][\z@]{%
22551 \def\ttl@corr{#1}%
22552 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
22553 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
22554 \def\@pnumwidth{#2}}
22555 \let\ttl@savel@part\l@part
22556 \def\l@part{\ttl@lselect{part}}
22557
22558 \let\ttl@savel@chapter\l@chapter
22559 \def\l@chapter{\ttl@lselect{chapter}}

```

## 157 File tocbibind-xetex-bidi.def

```

22560 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind pack
22561 \IfClassLoadedT{memoir}{\endinput}
22562 \if@dotocbib
22563 \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
22564 \renewcommand{\bibsection}{\tcb@bchapsec}
22565 \renewenvironment{thebibliography}[1]{%
22566 \bibsection
22567 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
22568 \renewenvironment{thebibitemlist}[1]{
22569 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22570 \bidi@thebibliography@font@hook%
22571 \list{\@biblabel{\@arabic{c@enumiv}}}%
22572 {\settowidth\labelwidth{\@biblabel{#1}}%
22573 \leftmargin\labelwidth
22574 \advance\leftmargin\labelsep
22575 \@openbib@code
22576 \usecounter{enumiv}%
22577 \let\p@enumiv\@empty
22578 \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
22579 \sloppy
22580 \clubpenalty4000
22581 \@clubpenalty \clubpenalty
22582 \widowpenalty4000%
22583 \sfcode`.\@m}
22584 {\def\@noitemerr
22585 {\@latex@warning{Empty `thebibliography' environment}}}%
22586 \endlist}

```





```

22587
22588 \ApplyPatchCodeToPackage{chapterbib}{%
22589   \@ifpackagewith{chapterbib}{sectionbib}%
22590   {\renewcommand{\sectionbib}[2]{}}%
22591   {}%
22592 }
22593
22594 \fi
22595 \if@inltxdoc\else
22596   \renewenvironment{theindex}%
22597     {\if@twocolumn
22598       \@restonecolfalse
22599     \else
22600       \@restonecoltrue
22601     \fi
22602     \if@bibchapter
22603       \if@donumindex
22604         \refstepcounter{chapter}
22605         \twocolumn[\vspace*{2\topskip}%
22606           \@makechapterhead{\indexname}}%
22607         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
22608         \chaptermark{\indexname}
22609       \else
22610         \if@dotocind
22611           \twocolumn[\vspace*{2\topskip}%
22612             \@makeschapterhead{\indexname}}%
22613           \prw@mkboth{\indexname}
22614           \addcontentsline{toc}{chapter}{\indexname}
22615         \else
22616           \twocolumn[\vspace*{2\topskip}%
22617             \@makeschapterhead{\indexname}}%
22618           \prw@mkboth{\indexname}
22619         \fi
22620       \fi
22621     \else
22622       \if@donumindex
22623         \twocolumn[\vspace*{-1.5\topskip}%
22624           \@nameuse{\@tocextra}{\indexname}}%
22625         \csname \@tocextra mark\endcsname{\indexname}
22626       \else
22627         \if@dotocind
22628           \twocolumn[\vspace*{-1.5\topskip}%
22629             \toc@headstar{\@tocextra}{\indexname}}%
22630           \prw@mkboth{\indexname}
22631           \addcontentsline{toc}{\@tocextra}{\indexname}
22632         \else
22633           \twocolumn[\vspace*{-1.5\topskip}%
22634             \toc@headstar{\@tocextra}{\indexname}}%
22635           \prw@mkboth{\indexname}
22636         \fi
22637       \fi
22638     \fi
22639   \thispagestyle{plain}\parindent\z@
22640   \parskip\z@ \@plus .3\p@\relax

```



```

22641 \let\item\@idxitem}
22642 {\if@restonecol\onecolumn\else\clearpage\fi}
22643 \fi

```

## 158 File tocloft-xetex-bidi.def

```

22644 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package]
22645 \IfClassLoadedT{memoir}{\endinput}
22646 \renewcommand{\cftpnumalign}{\if@RTL l\else r\fi}
22647 \let\cftdot\@SepMark
22648 \if@cfthaspart
22649 \renewcommand*{\l@part}[2]{
22650 \cftdopartfalse
22651 \ifnum \c@tocdepth >-2\relax
22652 \if@cfthaschapter
22653 \cftdoparttrue
22654 \fi
22655 \ifnum \c@tocdepth >\m@ne
22656 \if@cfthaschapter\else
22657 \cftdoparttrue
22658 \fi
22659 \fi
22660 \fi
22661 \if@cftdopart
22662 \if@cfthaschapter
22663 \addpenalty{-\@highpenalty}
22664 \else
22665 \addpenalty\@secpenalty
22666 \fi
22667 \addvspace{\cftbeforepartskip}
22668 \begingroup
22669 {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
22670 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22671 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22672 \parindent \cftpartindent\relax\@afterindenttrue
22673 \interlinepenalty\@M
22674 \leavevmode
22675 \@tempdima \cftpartnumwidth\relax
22676 \let\@cftbsnum \cftpartpresnum
22677 \let\@cftasnum \cftpartaftersnum
22678 \let\@cftasnumb \cftpartaftersnumb
22679 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\r
22680 {\cftpartfont \cftpartpresnum #1}
22681 \cftpartfillnum{#2}}
22682 \nobreak
22683 \if@cfthaschapter
22684 \global\@nobreaktrue
22685 \everypar{\global\@nobreakfalse\everypar{}}
22686 \else
22687 \if@compatibility
22688 \global\@nobreaktrue
22689 \everypar{\global\@nobreakfalse\everypar{}}
22690 \fi
22691 \fi

```



```

22692 \endgroup
22693 \fi}
22694 \fi
22695 \if@cftaschapter
22696 \renewcommand*{\l@chapter}[2]{
22697 \ifnum \c@tocdepth >\m@ne
22698 \addpenalty{-\@highpenalty}
22699 \vskip \cftbeforechapskip
22700 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
22701 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22702 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22703 \parindent \cftchapindent\relax\@afterindenttrue
22704 \interlinepenalty\@M
22705 \leavevmode
22706 \@tempdima \cftchapnumwidth\relax
22707 \let\@cftbsnum \cftchappresnum
22708 \let\@cftasnum \cftchapaftersnum
22709 \let\@cftasnumb \cftchapaftersnumb
22710 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22711 {\cftchapfont #1}\nobreak
22712 \cftchapfillnum{#2}}
22713 \fi}
22714 \fi
22715 \renewcommand*{\l@section}[2]{%
22716 \ifnum \c@tocdepth >\z@
22717 \if@cftaschapter
22718 \vskip \cftbeforesecskip
22719 \else
22720 \addpenalty\@secpenalty
22721 \addvspace{\cftbeforesecskip}
22722 \fi
22723 {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
22724 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22725 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22726 \parindent \cftsecindent\relax\@afterindenttrue
22727 \interlinepenalty\@M
22728 \leavevmode
22729 \@tempdima \cftsecnumwidth\relax
22730 \let\@cftbsnum \cftsecpresnum
22731 \let\@cftasnum \cftsecaftersnum
22732 \let\@cftasnumb \cftsecaftersnumb
22733 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22734 {\cftsecfont #1}\nobreak
22735 \cftsecfillnum{#2}}
22736 \fi}
22737 \renewcommand*{\l@subsection}[2]{%
22738 \ifnum \c@tocdepth >\@ne
22739 \vskip \cftbeforesubsecskip
22740 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
22741 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22742 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22743 \parindent \cftsubsecindent\relax\@afterindenttrue
22744 \interlinepenalty\@M
22745 \leavevmode

```



```

22746 \@tempdima \cftsubsecnumwidth\relax
22747 \let\@cftbsnum \cftsubsecpresnum
22748 \let\@cftasnum \cftsubsecaftersnum
22749 \let\@cftasnumb \cftsubsecaftersnumb
22750 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip
22751 {\cftsubsecfont #1}\nobreak
22752 \cftsubsecfillnum{#2}}
22753 \fi}
22754 \renewcommand*{\l@subsubsection}[2]{%
22755 \ifnum \c@tocdepth >\tw@
22756 \vskip \cftbeforesubsubsecskip
22757 {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
22758 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22759 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22760 \parindent \cftsubsubsecindent\relax\@afterindenttrue
22761 \interlinepenalty\@M
22762 \leavevmode
22763 \@tempdima \cftsubsubsecnumwidth\relax
22764 \let\@cftbsnum \cftsubsubsecpresnum
22765 \let\@cftasnum \cftsubsubsecaftersnum
22766 \let\@cftasnumb \cftsubsubsecaftersnumb
22767 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip
22768 {\cftsubsubsecfont #1}\nobreak
22769 \cftsubsubsecfillnum{#2}}
22770 \fi}
22771 \renewcommand*{\l@paragraph}[2]{%
22772 \ifnum \c@tocdepth >3\relax
22773 \vskip \cftbeforeparaskip
22774 {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
22775 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22776 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22777 \parindent \cftparaindent\relax\@afterindenttrue
22778 \interlinepenalty\@M
22779 \leavevmode
22780 \@tempdima \cftparanumwidth\relax
22781 \let\@cftbsnum \cftparapresnum
22782 \let\@cftasnum \cftparaaftersnum
22783 \let\@cftasnumb \cftparaaftersnumb
22784 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip
22785 {\cftparafont #1}\nobreak
22786 \cftparafillnum{#2}}
22787 \fi}
22788 \renewcommand*{\l@subparagraph}[2]{%
22789 \ifnum \c@tocdepth >4\relax
22790 \vskip \cftbeforesubparaskip
22791 {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
22792 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22793 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22794 \parindent \cftsubparaindent\relax\@afterindenttrue
22795 \interlinepenalty\@M
22796 \leavevmode
22797 \@tempdima \cftsubparanumwidth\relax
22798 \let\@cftbsnum \cftsubparapresnum
22799 \let\@cftasnum \cftsubparaaftersnum

```



```

22800 \let\@cftasnumb \cftsubparaaftersnumb
22801 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip
22802 {\cftsubparafont #1}\nobreak
22803 \cftsubparafillnum{#2}}
22804 \fi}
22805 \renewcommand*{\l@figure}[2]{%
22806 \ifnum \c@lofdepth >\z@
22807 \vskip \cftbeforefigskip
22808 {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
22809 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22810 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22811 \parindent \cftfigindent\relax\@afterindenttrue
22812 \interlinepenalty\@M
22813 \leavevmode
22814 \@tempdima \cftfignumwidth\relax
22815 \let\@cftbsnum \cftfigpresnum
22816 \let\@cftasnum \cftfigaftersnum
22817 \let\@cftasnumb \cftfigaftersnumb
22818 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip
22819 {\cftfigfont #1}\nobreak
22820 \cftfigfillnum{#2}}
22821 \fi
22822 }
22823 \renewcommand*{\l@table}[2]{%
22824 \ifnum\c@lotdepth >\z@
22825 \vskip \cftbeforetabskip
22826 {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
22827 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22828 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22829 \parindent \cfttabindent\relax\@afterindenttrue
22830 \interlinepenalty\@M
22831 \leavevmode
22832 \@tempdima \cfttabnumwidth\relax
22833 \let\@cftbsnum \cfttabpresnum
22834 \let\@cftasnum \cfttabaftersnum
22835 \let\@cftasnumb \cfttabaftersnumb
22836 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightskip
22837 {\cfttabfont #1}\nobreak
22838 \cfttabfillnum{#2}}
22839 \fi
22840 }
22841 \renewcommand{\@cftl@subfig}{
22842 \renewcommand*{\l@subfigure}[2]{%
22843 \ifnum \c@lofdepth > \toclevel@subfigure
22844 \vskip \cftbeforesubfigskip
22845 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
22846 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22847 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22848 \parindent \cftsubfigindent\relax\@afterindenttrue
22849 \interlinepenalty\@M
22850 \leavevmode
22851 \@tempdima \cftsubfignumwidth\relax
22852 \let\@cftbsnum \cftsubfigpresnum
22853 \let\@cftasnum \cftsubfigaftersnum

```



```

22854 \let\@cftasnumb \cftsubfigaftersnumb
22855 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22856 {\cftsubfigfont ##1}\nobreak
22857 \cftsubfigfillnum{##2}}
22858 \fi
22859 }
22860 }
22861 \renewcommand{\@cftl@subtab}{
22862 \renewcommand*{\l@subtable}[2]{%
22863 \ifnum \c@lotdepth > \toclevel@subtable
22864 \vskip \cftbeforesubtabskip
22865 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
22866 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22867 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22868 \parindent \cftsubtabindent\relax\@afterindenttrue
22869 \interlinepenalty\@M
22870 \leavevmode
22871 \@tempdima \cftsubtabnumwidth\relax
22872 \let\@cftbsnum \cftsubtabpresnum
22873 \let\@cftasnum \cftsubtabaftersnum
22874 \let\@cftasnumb \cftsubtabaftersnumb
22875 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22876 {\cftsubtabfont ##1}\nobreak
22877 \cftsubtabfillnum{##2}}
22878 \fi
22879 }
22880 }
22881 \renewcommand{\newlistentry}[4][\@empty]{%
22882 \@ifundefined{c@#2}{% check & set the counter
22883 \ifx \@empty#1\relax
22884 \newcounter{#2}
22885 \else
22886 \@ifundefined{c@#1}{\PackageWarning{tocloft}%
22887 {#1 has no counter for use as a `within'}
22888 \newcounter{#2}}%
22889 {\newcounter{#2}[#1]%
22890 \expandafter\edef\csname the#2\endcsname{%
22891 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
22892 \fi
22893 \setcounter{#2}{0}
22894 }
22895 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
22896
22897 \@namedef{l@#2}##1##2{%
22898 \ifnum \@nameuse{c@#3depth} > #4\relax
22899 \vskip \@nameuse{cftbefore#2skip}
22900 {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
22901 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22902 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22903 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
22904 \interlinepenalty\@M
22905 \leavevmode
22906 \@tempdima \@nameuse{cft#2numwidth}\relax
22907 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname

```



```

22908 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
22909 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
22910 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\ri
22911 {\@nameuse{cft#2font}##1}\nobreak
22912 \@nameuse{cft#2fillnum}{##2}}
22913 \fi
22914 } % end of \l@#2
22915
22916 \expandafter\newlength\csname cftbefore#2skip\endcsname
22917 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
22918 \expandafter\newlength\csname cft#2indent\endcsname
22919 \expandafter\newlength\csname cft#2numwidth\endcsname
22920 \ifcase #4\relax % 0
22921 \setlength{\@nameuse{cft#2indent}}{0em}
22922 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
22923 \or % 1
22924 \setlength{\@nameuse{cft#2indent}}{1.5em}
22925 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
22926 \or % 2
22927 \setlength{\@nameuse{cft#2indent}}{3.8em}
22928 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
22929 \or % 3
22930 \setlength{\@nameuse{cft#2indent}}{7.0em}
22931 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
22932 \else % anything else
22933 \setlength{\@nameuse{cft#2indent}}{10.0em}
22934 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
22935 \fi
22936 \@namedef{cft#2font}{\normalfont}
22937 \@namedef{cft#2presnum}{\}
22938 \@namedef{cft#2aftersnum}{\}
22939 \@namedef{cft#2aftersnumb}{\}
22940 \@namedef{cft#2dotsep}{\cftdotsep}
22941 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
22942 \@namedef{cft#2pagefont}{\normalfont}
22943 \@namedef{cft#2afterpnum}{\}
22944 \@namedef{toclevel@#2}{#4}
22945 \@namedef{cft#2fillnum}##1{%
22946 {\@nameuse{cft#2leader}}\nobreak
22947 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
22948 } % end \newlistentry
22949 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
22950 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
22951 \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
22952 \if@RTL\leftskip\else\righskip\fi \@tocrmarg\relax
22953 \textit{#1}\protect\par}}}

```

## 159 File tocbasic-xetex-bidi.def

```

22954 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic packag
22955 \bidi@undef\scr@dte@def@l@undottedtocline
22956 \bidi@undef\scr@dte@undottedtocline@init
22957 \DeclareTOCEntryStyle{undottedtocline}[%
22958 \DefineTOCEntryLengthOption{indent}%

```



```

22959 {scr@tso@}{@indent}{entry indent}%
22960 \DefineTOCEntryLengthOption{numwidth}%
22961 {scr@tso@}{@numwidth}{entry number width}%
22962 \@ifundefined{#1tocdepth}{%
22963 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
22964 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
22965 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
22966 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
22967 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
22968 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
22969 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
22970 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
22971 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
22972 \expandafter\let\csname #1tocdepth\expandafter\endcsname
22973 \csname #1numdepth\endcsname
22974 }%
22975 }%
22976 }%
22977 }%
22978 }%
22979 }%
22980 }%
22981 }%
22982 }%
22983 }{}%
22984 \@ifundefined{scr@tso@#1@indent}{%
22985 \@ifundefined{scr@#1@tocindent}{%
22986 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22987 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22988 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
22989 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
22990 \scr@ifundefinedorrelax{1@chapter}{%
22991 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
22992 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22993 \Ifstr{#1}{subsubsection}{%
22994 \@namedef{scr@tso@#1@indent}{3.8em}%
22995 }{%
22996 \Ifstr{#1}{paragraph}{%
22997 \@namedef{scr@tso@#1@indent}{7em}%
22998 }{%
22999 \Ifstr{#1}{subparagraph}{%
23000 \@namedef{scr@tso@#1@indent}{10em}%
23001 }{%
23002 }%
23003 }%
23004 }%
23005 }%
23006 }%
23007 }{}%
23008 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23009 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23010 \Ifstr{#1}{subsubsection}{%
23011 \@namedef{scr@tso@#1@indent}{7.0em}%
23012 }{}%

```





```

23013             \Ifstr{#1}{paragraph}{%
23014                 \@namedef{scr@tso@#1@indent}{10em}%
23015             }{%
23016                 \Ifstr{#1}{subparagraph}{%
23017                     \@namedef{scr@tso@#1@indent}{12em}%
23018                 }{%
23019                     }%
23020                 }%
23021             }%
23022         }%
23023     }%
23024 }%
23025 }%
23026 }%
23027 }%
23028 }%
23029 }{%
23030     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23031 }%
23032 }{%
23033     \@ifundefined{scr@tso@#1@numwidth}{%
23034         \@ifundefined{scr@#1@tocnumwidth}{%
23035             \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23036                 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23037                     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23038                         \scr@ifundefinedorrelax{chapter}{%
23039                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23040                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23041                                     \Ifstr{#1}{subsubsection}{%
23042                                         \@namedef{scr@tso@#1@numwidth}{3.2em}%
23043                                     }{%
23044                                         \Ifstr{#1}{paragraph}{%
23045                                             \@namedef{scr@tso@#1@numwidth}{4.1em}%
23046                                         }{%
23047                                             \Ifstr{#1}{subparagraph}{%
23048                                                 \@namedef{scr@tso@#1@numwidth}{5m}%
23049                                             }{%
23050                                                 }%
23051                                             }%
23052                                         }%
23053                                     }%
23054                                 }%
23055                             }{%
23056                                 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23057                                     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23058                                         \Ifstr{#1}{subsubsection}{%
23059                                             \@namedef{scr@tso@#1@numwidth}{3.1em}%
23060                                         }{%
23061                                             \Ifstr{#1}{paragraph}{%
23062                                                 \@namedef{scr@tso@#1@numwidth}{5em}%
23063                                             }{%
23064                                                 \Ifstr{#1}{subparagraph}{%
23065                                                     \@namedef{scr@tso@#1@numwidth}{6em}%
23066                                                     }{%

```



```

23067             }%
23068         }%
23069     }%
23070 }%
23071 }%
23072 }%
23073 }%
23074 }%
23075 }%
23076 }{%
23077     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23078 }%
23079 }{%}%
23080 }]{%
23081     \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23082     \ifnum \@nameuse{#1tocdepth}<\@ne
23083         \scr@ifundefinedorrelax{chapter}{%
23084             \addpenalty\@secpenalty
23085             \addvspace{1.0em \@plus\p@}%
23086         }{%
23087             \addpenalty{-\@highpenalty}%
23088             \vskip 1.0em \@plus\p@
23089         }%
23090     \else
23091         \addpenalty\@secpenalty
23092         \addvspace{1.0em \@plus\p@}%
23093     \fi
23094     \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
23095     \begingroup
23096         \parindent \z@ \bidi@rightskip \@pnumwidth
23097         \parfillskip -\@pnumwidth
23098         \leavevmode
23099         \bfseries
23100         \advance\bidi@leftskip\@tempdima
23101         \Iftocfeature{\@currentt}{noindent}{%
23102             \hskip -\bidi@leftskip
23103         }{%
23104             \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23105             \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
23106         }%
23107         ##1%
23108         \nobreak
23109         \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23110         \par
23111         \penalty\@highpenalty
23112     \endgroup
23113 \fi
23114 }
23115
23116 \bidi@undef\scr@dte@def@l@largetocline
23117 \bidi@undef\scr@dte@largetocline@init
23118 \DeclareTOCEntryStyle{largetocline}[{%
23119     \DefineTOCEntryLengthOption{indent}%
23120     {scr@tso@}{@indent}{entry indent}%

```



```

23121 \@ifundefined{#1tocdepth}{%
23122   \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23123     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23124       \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23125         \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23126           \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23127             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23128               \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23129                 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23130                   \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23131                     \expandafter\let\csname #1tocdepth\expandafter\endcsname
23132                     \csname #1numdepth\endcsname
23133                   }%
23134                 }%
23135               }%
23136             }%
23137           }%
23138         }%
23139       }%
23140     }%
23141   }%
23142 }{%
23143 \@ifundefined{scr@tso@#1@indent}{%
23144   \@ifundefined{scr@#1@tocindent}{%
23145     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23146       \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23147         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23148           \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23149             \scr@ifundefinedorrelax{1@chapter}{%
23150               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23151                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23152                   \Ifstr{#1}{subsubsection}{%
23153                     \@namedef{scr@tso@#1@indent}{3.8em}%
23154                   }{%
23155                     \Ifstr{#1}{paragraph}{%
23156                       \@namedef{scr@tso@#1@indent}{7em}%
23157                     }{%
23158                       \Ifstr{#1}{subparagraph}{%
23159                         \@namedef{scr@tso@#1@indent}{10em}%
23160                       }{%
23161                         }%
23162                       }%
23163                     }%
23164                   }%
23165                 }%
23166               }{%
23167                 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23168                   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23169                     \Ifstr{#1}{subsubsection}{%
23170                       \@namedef{scr@tso@#1@indent}{7.0em}%
23171                     }{%
23172                       \Ifstr{#1}{paragraph}{%
23173                         \@namedef{scr@tso@#1@indent}{10em}%
23174                       }{%

```



```

23175 \Ifstr{#1}{subparagraph}{%
23176 \namedef{scr@tso@#1@indent}{12em}%
23177 }{%
23178 }%
23179 }%
23180 }%
23181 }%
23182 }%
23183 }%
23184 }%
23185 }%
23186 }%
23187 }%
23188 }{%
23189 \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23190 }%
23191 }{}%
23192 }]{%
23193 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23194 \ifnum \@nameuse{#1tocdepth}<\@ne
23195 \scr@ifundefinedorrelax{chapter}{%
23196 \addpenalty\@secpenalty
23197 \addvspace{2.25em \@plus\p@}%
23198 }{%
23199 \addpenalty{-\@highpenalty}%
23200 \addvspace{2.25em \@plus\p@}%
23201 }%
23202 \else
23203 \addpenalty\@secpenalty
23204 \addvspace{2.25em \@plus\p@}%
23205 \fi
23206 \setlength\@tempdima{3em}%
23207 \begingroup
23208 \parindent \z@ \bidi@rightskip \@pnumwidth
23209 \parfillskip -\@pnumwidth
23210 \leavevmode
23211 \large
23212 \bfseries
23213 \Iftocfeature{\@currentx}{noindent}{%
23214 }{%
23215 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23216 }%
23217 ##1%
23218 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23219 \par
23220 \nobreak
23221 \ifnum 0=
23222 \scr@ifundefinedorrelax{chapter}{\ifcompatibility 1\else 0\fi}{1}\relax
23223 \global\@nobreaktrue
23224 \everypar{\global\@nobreakfalse\everypar{}}%
23225 \fi
23226 \endgroup
23227 \fi
23228 }

```



```

23229
23230 \renewcommand*{\scr@dte@tocline}[3]{%
23231   \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
23232   \else
23233     \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
23234     \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
23235     \@nameuse{Ifscr@tso@#1@dynindent}{%
23236       \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
23237       \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
23238     \else
23239       \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
23240       \@for \reserved@a:=\reserved@a\do {%
23241         \scr@trim@spaces\reserved@a
23242         \ifx\reserved@a\@empty\else
23243           \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
23244             }{%
23245               \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
23246                 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
23247                 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
23248                   \scr@ifundefinedorrelax
23249                     {scr@dte@\reserved@a @lastmaxnumwidth}{%
23250                       \advance\@tempdima
23251                       \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23252                     }{%
23253                       \advance\@tempdima
23254                       \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
23255                     }%
23256                   }{%
23257                     \advance\@tempdima
23258                     \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23259                   }%
23260                 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
23261                 \expandafter\edef\csname scr@tso@#1@indent\endcsname
23262                   {\the\@tempdima}%
23263               \fi
23264             \fi
23265           }%
23266         \fi
23267       }%
23268     \fi
23269   }{}%
23270  {%
23271    \Iftocfeature{\@currentt}{noindent}{%
23272      \bidi@leftskip \z@
23273    }{%
23274      \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
23275    }%
23276    \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
23277    \parfillskip -\bidi@rightskip
23278    \@nameuse{Ifscr@tso@#1@raggedpage}{%
23279      \addtolength{\parfillskip}{\z@ \@plus 1fil}%
23280    }{}%
23281    \Iftocfeature{\@currentt}{noindent}{%
23282      \parindent \z@

```



```

23283 }{%
23284 \parindent \@nameuse{scr@tso@#1@indent}\relax
23285 }%
23286 \@afterindenttrue
23287 \interlinepenalty\@M
23288 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
23289 \addtolength\@bidi@rightskip\@flushglue
23290 \else
23291 \def\reserved@a{\raggedright}%
23292 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23293 \addtolength\@bidi@rightskip\@flushglue
23294 \else
23295 \renewcommand\reserved@a{\raggedright}%
23296 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23297 \addtolength\@bidi@rightskip\@flushglue
23298 \fi
23299 \fi
23300 \fi
23301 \leavevmode
23302 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
23303 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
23304 \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}{%
23305 \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
23306 \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
23307 \fi
23308 }%
23309 }-}%
23310 \advance\@bidi@leftskip \@tempdima
23311 \null\nobreak\hskip -\@bidi@leftskip
23312 {%
23313 \usetocbasicnumberline
23314 \let\scr@dte@numberline@box\numberline@box
23315 \def\numberline@box##1{%
23316 \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23317 \global\scr@dte@tocline@numberwidth
23318 \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
23319 \relax
23320 \ifdim \scr@dte@tocline@numberwidth
23321 >\@nameuse{scr@dte@#1@maxnumwidth}\relax
23322 \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
23323 \fi
23324 \@nameuse{Ifscr@tso@#1@dynnumwidth}{}{%
23325 \ifdim \scr@dte@tocline@numberwidth
23326 >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
23327 +\@nameuse{scr@tso@#1@numsep}\relax\relax
23328 \PackageWarning{tocbasic}{%
23329 number width of #1 toc entries should be
23330 increased!\MessageBreak
23331 Currently used number width =
23332 \the\wd\scr@dte@tocline@numbox,\MessageBreak
23333 Wanted number separation
23334 \space\space\space =
23335 \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
23336 Reserved number width \space\space\space\space\space =

```



```

23337         \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
23338     }%
23339     \fi
23340 }%
23341 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23342 \@nameuse{Ifscr@tso@#1@breakafternumber}{%
23343     {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
23344 }{}}%
23345 }%
23346 {\@nameuse{scr@tso@#1@entryformat}}{%
23347     #2%
23348     \nobreak
23349     {%
23350         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
23351         \nobreak
23352         \expandafter\let\expandafter\scr@dte@pagenumberwidth
23353         \csname scr@tso@#1@pagenumberwidth\endcsname
23354         \@nameuse{scr@tso@#1@pagenumberbox}{%
23355             \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
23356         }%
23357     }%
23358 }}\@par
23359 }%
23360 }%
23361 \tocbasic@SetPenaltyByTOCLevel{#1}%
23362 \fi
23363 }
23364
23365
23366 \bidi@undef\scr@dte@def@l@tocline
23367 \bidi@undef\scr@dte@tocline@init
23368 \DeclareTOCEntryStyle{tocline}[{%
23369     \DefineTOCEntryLengthOption{beforeskip}%
23370     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
23371     \DefineTOCEntryIfOption{breakafternumber}%
23372     {scr@tso@}{@breakafternumber}{line break after number flag}%
23373     \DefineTOCEntryIfOption{dynnumwidth}%
23374     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
23375     \DefineTOCEntryListOption{indentfollows}%
23376     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
23377     \DefineTOCEntryIfOption{dynindent}%
23378     {scr@tso@}{@dynindent}{dynamic indent width flag}%
23379     \DefineTOCEntryCommandOption{entryformat}%
23380     {scr@tso@}{@entryformat}[1]{entry format}%
23381     \DefineTOCEntryCommandOption{entrynumberformat}%
23382     {scr@tso@}{@numberformat}[1]{entry number format}%
23383     \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
23384     {scr@tso@}{@linefill}{filling between text and page number}%
23385     \DefineTOCEntryLengthOption{numsep}%
23386     {scr@tso@}{@numsep}{entry number separation}%
23387     \DefineTOCEntryCommandOption{onstarthigherlevel}%
23388     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
23389     \DefineTOCEntryCommandOption{onstartlowerlevel}%
23390     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%

```



```

23391 \DefineTOCEntryCommandOption{onstartsamelevel}%
23392 {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
23393 \DefineTOCEntryCommandOption{pagenumberbox}%
23394 {scr@tso@}{@pagenumberbox}[1]{page number box}%
23395 \DefineTOCEntryCommandOption{pagenumberformat}%
23396 {scr@tso@}{@pagenumberformat}[1]{page number format}%
23397 \DefineTOCEntryLengthOption{pagenumberwidth}%
23398 {scr@tso@}{@pagenumberwidth}{width of page number box}%
23399 \DefineTOCEntryLengthOption{rightindent}%
23400 {scr@tso@}{@rightindent}{entry's text right indent}%
23401 \DefineTOCEntryOption{raggedentrytext}[true]{%
23402 \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
23403 \ifx\FamilyKeyState\FamilyKeyStateProcessed
23404 \if@tempswa
23405 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23406 \raggedright
23407 \else
23408 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23409 \relax
23410 \fi
23411 \fi
23412 }%
23413 \DefineTOCEntryIfOption{raggedpagenumber}%
23414 {scr@tso@}{@raggedpage}{page number ragged flag}%
23415 \DefineTOCEntryLengthOption{indent}%
23416 {scr@tso@}{@indent}{entry indent}%
23417 \DefineTOCEntryLengthOption{numwidth}%
23418 {scr@tso@}{@numwidth}{entry number width}%
23419 \scr@ifundefinedorrelax{#1tocdepth}{%
23420 \Ifstrstart{#1}{sub}{%
23421 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
23422 \expandafter\edef\csname #1tocdepth\endcsname{%
23423 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
23424 }%
23425 }%
23426 }{}%
23427 }{}%
23428 \@ifundefined{#1tocdepth}{%
23429 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23430 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23431 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23432 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23433 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23434 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23435 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23436 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23437 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23438 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23439 \csname #1numdepth\endcsname
23440 }%
23441 }%
23442 }%
23443 }%
23444 }%

```





```

23445         }%
23446     }%
23447 }%
23448 }%
23449 }{}%
23450 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
23451     \@ifundefined{scr@#1@tocindent}{%
23452         \Ifstrstart{#1}{sub}{%
23453             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
23454                 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{-}{%
23455                     \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23456                         \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23457                         \relax
23458                     }%
23459                 }%
23460             }{%
23461                 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{-}{%
23462                     \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23463                         \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
23464                         \relax
23465                     }%
23466                 }{%
23467                     \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23468                         \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
23469                         +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23470                     }%
23471                 }%
23472             }%
23473         }%
23474     }{}%
23475 }{}%
23476     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23477 }%
23478 }{}%
23479 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
23480     \Ifstrstart{#1}{sub}{%
23481         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
23482             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23483         }{%
23484             \expandafter\let
23485             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
23486             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
23487         }%
23488     }{}%
23489     \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23490 }%
23491 }{}%
23492 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
23493     \Ifstrstart{#1}{sub}{%
23494         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
23495             \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23496         }{%
23497             \expandafter\let
23498             \csname scr@tso@#1@rightindent\expandafter\endcsname

```



```

23499     \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
23500   }%
23501 }{%
23502   \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23503 }%
23504 }{%
23505 \@ifundefined{scr@tso@#1@indent}{%
23506   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23507   \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23508   \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23509   \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23510   \scr@ifundefinedorrelax{1@chapter}{%
23511   \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23512   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23513   \Ifstr{#1}{subsubsection}{%
23514     \@namedef{scr@tso@#1@indent}{3.8em}%
23515   }{%
23516     \Ifstr{#1}{paragraph}{%
23517       \@namedef{scr@tso@#1@indent}{7em}%
23518     }{%
23519       \Ifstr{#1}{subparagraph}{%
23520         \@namedef{scr@tso@#1@indent}{10em}%
23521       }{%
23522       }%
23523     }%
23524   }%
23525 }%
23526 }%
23527 }{%
23528   \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23529   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23530   \Ifstr{#1}{subsubsection}{%
23531     \@namedef{scr@tso@#1@indent}{7.0em}%
23532   }{%
23533     \Ifstr{#1}{paragraph}{%
23534       \@namedef{scr@tso@#1@indent}{10em}%
23535     }{%
23536       \Ifstr{#1}{subparagraph}{%
23537         \@namedef{scr@tso@#1@indent}{12em}%
23538       }{%
23539       }%
23540     }%
23541   }%
23542 }%
23543 }%
23544 }%
23545 }%
23546 }%
23547 }%
23548 }%
23549 }{%
23550 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
23551   \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
23552     \Ifstrstart{#1}{sub}{%

```



```

23553 \scr@ifundefinedorrelax{scr@tso@scr@dte@nosub{#1}@numwidth}{-}{%
23554 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
23555 \glueexpr \noexpand\@nameuse{scr@tso@scr@dte@nosub{#1}@numwidth}%
23556 +.9em%
23557 \relax
23558 }%
23559 }%
23560 }-}%
23561 }{%
23562 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23563 }%
23564 }-}%
23565 \@ifundefined{scr@tso@#1@numwidth}{%
23566 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23567 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23568 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23569 \scr@ifundefinedorrelax{chapter}{%
23570 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23571 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23572 \Ifstr{#1}{subsubsection}{%
23573 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23574 }{%
23575 \Ifstr{#1}{paragraph}{%
23576 \@namedef{scr@tso@#1@numwidth}{4.1em}%
23577 }{%
23578 \Ifstr{#1}{subparagraph}{%
23579 \@namedef{scr@tso@#1@numwidth}{5em}%
23580 }{%
23581 }%
23582 }%
23583 }%
23584 }%
23585 }%
23586 }-}%
23587 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23588 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23589 \Ifstr{#1}{subsubsection}{%
23590 \@namedef{scr@tso@#1@numwidth}{3.1em}%
23591 }{%
23592 \Ifstr{#1}{paragraph}{%
23593 \@namedef{scr@tso@#1@numwidth}{5em}%
23594 }{%
23595 \Ifstr{#1}{subparagraph}{%
23596 \@namedef{scr@tso@#1@numwidth}{6em}%
23597 }{%
23598 }%
23599 }%
23600 }%
23601 }%
23602 }%
23603 }%
23604 }%
23605 }%
23606 }%

```



```

23607 }{}%
23608 \expandafter\renewcommand%
23609 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
23610 \expandafter\renewcommand%
23611 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
23612 \expandafter\renewcommand%
23613 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
23614 \@ifundefined{scr@tso@#1@beforeskip}{%
23615   \Ifstr{#1}{part}{%
23616     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
23617   }{%
23618     \Ifstr{#1}{chapter}{%
23619       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23620     }{%
23621       \Ifstr{#1}{section}{%
23622         \scr@ifundefinedorrelax{1@chapter}{%
23623           \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23624         }{}%
23625       }{}%
23626     }%
23627   }%
23628   \expandafter\renewcommand\expandafter*%
23629   \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
23630 }{}%
23631 \@ifundefined{scr@dte@#1@maxnumwidth}{%
23632   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
23633   \setlength{\nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
23634 }{}%
23635 \renewcommand*{\scr@dte@donumwidth}{}%
23636 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
23637 \expandafter\renewcommand\expandafter*%
23638 \csname scr@tso@#1@numsep\endcsname{.4em}%
23639 \expandafter\renewcommand%
23640 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
23641 \Ifstr{#1}{part}{%
23642   \expandafter\providecommand%
23643   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
23644 }{%
23645   \Ifstr{#1}{chapter}{%
23646     \expandafter\providecommand%
23647     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23648   }{%
23649     \scr@ifundefinedorrelax{1@chapter}{%
23650       \Ifstr{#1}{section}{%
23651         \expandafter\providecommand%
23652         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23653       }{}%
23654     }{}%
23655     \expandafter\providecommand%
23656     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
23657   }%
23658 }%
23659 \expandafter\renewcommand
23660 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%

```



```

23661 \@ifundefined{scr@tso@#1@linefill}{%
23662 \Ifstr{#1}{part}{%
23663 \@namedef{scr@tso@#1@linefill}{\hfill}%
23664 }{%
23665 \Ifstr{#1}{chapter}{%
23666 \@namedef{scr@tso@#1@linefill}{\hfill}%
23667 }{%
23668 \scr@ifundefinedorrelax{1@chapter}{%
23669 \Ifstr{#1}{section}{%
23670 \@namedef{scr@tso@#1@linefill}{\hfill}%
23671 }{%
23672 }{}%
23673 \expandafter\renewcommand%
23674 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23675 }%
23676 }%
23677 }{}%
23678 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
23679 \Ifstr{#1}{part}{%
23680 \expandafter\providecommand%
23681 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
23682 }{%
23683 \Ifstr{#1}{chapter}{%
23684 \expandafter\providecommand%
23685 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23686 }{%
23687 \scr@ifundefinedorrelax{1@chapter}{%
23688 \Ifstr{#1}{section}{%
23689 \expandafter\providecommand%
23690 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23691 }{}%
23692 }{}%
23693 \expandafter\providecommand%
23694 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23695 {\normalfont\normalcolor ##1}}%
23696 }%
23697 }%
23698 \expandafter\renewcommand%
23699 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
23700 \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
23701 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
23702 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
23703 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
23704 \Ifstrstart{#1}{sub}{%
23705 \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
23706 \scr@dte@nosub{#1}%
23707 }%
23708 }{}%
23709 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
23710 }%
23711 }{}%
23712 }]{%
23713 \scr@dte@tocline{#1}{##1}{##2}%
23714 }

```



```

23715
23716 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
23717   \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
23718     {\normalfont\normalcolor #1}%
23719   }%
23720 }{}
23721
23722 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
23723   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
23724     {\normalfont\normalcolor #1}%
23725   }%
23726 }{}
23727

```

## 160 File tocstyle-xetex-bidi.def

```

23728 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
23729 \renewcommand*{\tocstyle@dottedtocline}[5]{%
23730   \let\numberline\tocstyle@numberline
23731   \ifnum #1>\c@tocdepth \else
23732     \if@tocstyle@penalties
23733       \begingroup
23734         \@tempcnta 20010
23735         \advance \@tempcnta by -#1
23736         \ifnum \@tempcnta>\lastpenalty
23737           \aftergroup\penalty\aftergroup\@lowpenalty
23738         \fi
23739       \endgroup
23740     \fi
23741     \edef\tocstyledepth{#1}%
23742     \tocstyle@activate@features
23743     \ifx\tocstyle@feature@entryvskip\relax
23744       \vskip \z@ \@plus.2\p@
23745     \else
23746       \addvspace{\tocstyle@feature@entryvskip}%
23747     \fi
23748   {%
23749     \parskip \z@ \parindent \z@ \if@RTL\righskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
23750     \tocstyle@feature@raggedhook
23751     \@tempdima #3\relax
23752     \@tempdimb #2\relax
23753     \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23754     \ifnum #1>\z@\relax
23755       \@tempcnta #1\relax \advance\@tempcnta \m@ne
23756       \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23757         \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23758           \@tempdimb
23759           \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23760           \advance\@tempdimb
23761           \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23762         \fi
23763       \fi
23764     \fi
23765     \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%

```



```

23766 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
23767 \ifdim \@tempdimb>
23768 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
23769 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23770 @#1\endcsname{\the\@tempdimb}%
23771 \fi
23772 \else
23773 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23774 @#1\endcsname{\the\@tempdimb}%
23775 \fi
23776 \iftocstyle@autolength
23777 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23778 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23779 \relax
23780 \fi
23781 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23782 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23783 \relax
23784 \fi
23785 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23786 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23787 \else
23788 \@tempdimb #2\relax
23789 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23790 \fi
23791 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
23792 \ifdim \@tempdima>
23793 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
23794 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23795 @\endcsname{\the\@tempdima}%
23796 \fi
23797 \else
23798 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23799 @\endcsname{\the\@tempdima}%
23800 \fi
23801 \ifcase\tocstyle@indentstyle\relax\else
23802 \@tempdimb \z@
23803 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23804 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23805 \relax
23806 \fi
23807 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23808 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23809 \fi
23810 \advance\parindent \@tempdimb\@afterindenttrue
23811 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
23812 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
23813 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
23814 \ifx\tocstyle@feature@parfillskip\relax\else
23815 \advance\parfillskip \tocstyle@feature@parfillskip\relax
23816 \fi
23817 \interlinepenalty\@M
23818 \leavevmode
23819 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima

```



```

23820 \null\nobreak
23821 \iftocstyle@indentnotnumbered\else
23822 \hskip -\if@RTL\righskip\else\leftskip\fi
23823 \fi
23824 \tocstyle@feature@entryhook
23825 {#4}\nobreak
23826 \ifx\tocstyle@feature@leaders\relax
23827 \leaders\hbox{$\m@th
23828 \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
23829 \mkern \@dotsep mu$}\hfill
23830 \else
23831 \tocstyle@feature@leaders
23832 \fi
23833 \nobreak
23834 \ifx\tocstyle@feature@pagenumberbox\relax
23835 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
23836 \else
23837 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
23838 \fi
23839 \par
23840 }%
23841 \if@tocstyle@penalties
23842 \bgroup
23843 \@tempcnta 20009
23844 \advance\@tempcnta by -#1
23845 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
23846 \reserved@a
23847 \fi
23848 \fi}
23849 \renewcommand*{\tocstyle@numberline}[1]{%
23850 \beginngroup
23851 \ifx\tocstyle@feature@spaceafternumber\relax
23852 \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
23853 \else
23854 \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
23855 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
23856 \fi
23857 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
23858 \ifdim \@tempdima >
23859 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
23860 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23861 @\tocstyledepth\endcsname{\the\@tempdima}%
23862 \fi
23863 \else
23864 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23865 @\tocstyledepth\endcsname{\the\@tempdima}%
23866 \fi
23867 \endgroup
23868 \iftocstyle@indentnotnumbered
23869 \hskip -\if@RTL\righskip\else\leftskip\fi
23870 \fi
23871 \ifcase \tocstyle@indentstyle
23872 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
23873 \or

```





```

23874 \hb@xt@{\@tempdima{\tocstyle@numberline{#1}\hfil}%
23875 \else
23876 \ifx\tocstyle@feature@spaceafternumber\relax
23877 \hbox{\tocstyle@numberline{#1}\enskip}%
23878 \else
23879 \hbox{\tocstyle@numberline{#1}\hskip
23880 \tocstyle@feature@spaceafternumber\relax}%
23881 \fi
23882 \fi
23883 }
23884 \AtBeginDocument{%
23885 \ifcsname l@part\endcsname
23886 \ifcsname l@chapter\endcsname
23887 \setbox\@tempboxa\vbox{\hsize\maxdimen
23888 \l@part{\tocstyle@l@define{part}{-1}}{}}%
23889 \else
23890 \setbox\@tempboxa\vbox{\hsize\maxdimen
23891 \l@part{\tocstyle@l@define{part}{0}}{}}%
23892 \fi
23893 \fi
23894 \ifcsname l@chapter\endcsname
23895 \setbox\@tempboxa\vbox{\hsize\maxdimen
23896 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
23897 \fi
23898 \ifcsname l@section\endcsname
23899 \setbox\@tempboxa\vbox{\hsize\maxdimen
23900 \l@section{\tocstyle@l@define{section}{1}}{}}%
23901 \fi
23902 \ifcsname l@subsection\endcsname
23903 \setbox\@tempboxa\vbox{\hsize\maxdimen
23904 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
23905 \fi
23906 \ifcsname l@subsubsection\endcsname
23907 \setbox\@tempboxa\vbox{\hsize\maxdimen
23908 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
23909 \fi
23910 \ifcsname l@paragraph\endcsname
23911 \setbox\@tempboxa\vbox{\hsize\maxdimen
23912 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
23913 \fi
23914 \ifcsname l@subparagraph\endcsname
23915 \setbox\@tempboxa\vbox{\hsize\maxdimen
23916 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
23917 \fi
23918 \ifcsname l@table\endcsname
23919 \setbox\@tempboxa\vbox{\hsize\maxdimen
23920 \l@table{\tocstyle@l@define{table}{1}}{}}%
23921 \fi
23922 \ifcsname l@figure\endcsname
23923 \setbox\@tempboxa\vbox{\hsize\maxdimen
23924 \l@figure{\tocstyle@l@define{figure}{1}}{}}%
23925 \fi
23926 \def\@tempa#1#2#3#4#5{%
23927 \ifnum #1>\c@tocdepth \else

```



```

23928 \vskip \z@ \@plus.2\p@
23929 {\if@RTL\rightright\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightright\fi \@toc
23930 \parindent #2\relax\@afterindenttrue
23931 \interlinepenalty\@M
23932 \leavevmode
23933 \@tempdima #3\relax
23934 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\r
23935 {#4}\nobreak
23936 \leaders\hbox{$\m@th
23937 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
23938 mu$}\hfill
23939 \nobreak
23940 \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
23941 \par}%
23942 \fi}%
23943 \ifx\@dottedtocline\@tempa\else
23944 \tocstyle@macrochangewarning\@dottedtocline
23945 \fi
23946 \let\tocstyle@saved\@dottedtocline\@dottedtocline
23947 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
23948 \ifx\numberline\@tempa\else
23949 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
23950 \ifx\numberline\@tempa\else
23951 \tocstyle@macrochangewarning\numberline
23952 \fi
23953 \fi
23954 \let\tocstyle@saved\numberline\numberline
23955 }
23956 \renewcommand*{\tocstyle@l@define}[2]{%
23957 \advance\if@RTL\rightright\else\leftskip\fi-\@tempdima
23958 \edef\@tempa{%
23959 \noexpand\global\noexpand\let
23960 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
23961 \expandafter\noexpand\csname l@#1\endcsname
23962 \noexpand\gdef
23963 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
23964 \noexpand\@dottedtocline{#2}{\the\if@RTL\rightright\else\leftskip\fi}{\the\@tempdima}}
23965 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l@#1{%
23966 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
23967 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
23968 }%
23969 }%
23970 \PackageInfo{tocstyle}{prepare \expandafter\string
23971 \csname l@#1\endcsname\space for redefinition}%
23972 \@tempa
23973 }

```

## 161 File todonotes-xetex-bidi.def

```

23974 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes pack
23975 \newif\if@bidi@todonotes@texdirection@RTL
23976 \newif\if@bidi@todonotes@figposition@right
23977 \newcommand{\@bidi@todonotes@align}{}%
23978 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%

```



```

23979 \newcommand{\@bidi@todonotes@textdirection}{}%
23980 \define@choicekey{todonotes}{textdirection}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{rig
23981 \ifcase\bidi@todonotes@tempb\relax
23982 \@bidi@todonotes@textdirection@RTLtrue
23983 \let\bidi@todonotes@textdirection\RL
23984 \or
23985 \@bidi@todonotes@textdirection@RTLfalse
23986 \let\bidi@todonotes@textdirection\LR
23987 \fi}
23988 \define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right
23989 \ifcase\bidi@todonotes@tempb\relax
23990 \@bidi@todonotes@figposition@righttrue
23991 \or
23992 \@bidi@todonotes@figposition@rightfalse
23993 \fi}
23994 \if@todonotes@disabled%
23995 \else % \if@todonotes@disabled
23996 \renewcommand{\@todonotes@drawInlineNote}{%
23997 \if@todonotes@dviStyle%
23998 {\par\noindent\begin{tikzpicture}[remember picture]%
23999 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24000 \if@todonotes@authorgiven%
24001 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
24002 \else%
24003 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24004 \fi
24005 {\par\noindent\begin{tikzpicture}[remember picture]%
24006 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24007 \else%
24008 {\par\noindent\begin{tikzpicture}[remember picture]%
24009 \if\bidi@todonotes@textdirection@RTL\setRTL\fi%
24010 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
24011 \if@todonotes@authorgiven%
24012 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@tex
24013 \else%
24014 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24015 \fi};%
24016 \end{tikzpicture}\par}%
24017 \fi}%
24018 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
24019 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
24020 \node [coordinate] (inText) {};%
24021 \end{tikzpicture}%
24022 \marginpar[{\% Draw note in left margin
24023 \@todonotes@drawMarginNote%
24024 \ifRTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
24025 }]{\% Draw note in right margin
24026 \@todonotes@drawMarginNote%
24027 \ifRTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
24028 }%
24029 }%
24030 \renewcommand{\@todonotes@drawMarginNote}{%
24031 \if@todonotes@dviStyle%
24032 \begin{tikzpicture}[remember picture]%

```



```

24033         \draw node[notestyle] {};%
24034     \end{tikzpicture}\}%
24035     \begin{minipage}{\@todonotes@textwidth}%
24036     \if@todonotes@authorgiven%
24037         \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
24038     \else%
24039         \@todonotes@sizecommand \@todonotes@text%
24040     \fi%
24041     \end{minipage}\}%
24042     \begin{tikzpicture}[remember picture]%
24043         \draw node[notestyle] (inNote) {};%
24044     \end{tikzpicture}%
24045 \else%
24046     \let\originalHbadness\hbadness%
24047     \hbadness 100000%
24048     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
24049         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24050         \node(X){\vphantom{X}};%
24051         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24052         \if@todonotes@authorgiven%
24053             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@sizecommand \@todonotes@author};%
24054             \node(Y)[below=of X]{};%
24055             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24056         \else%
24057             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
24058         \fi%
24059     \end{tikzpicture}%
24060     \hbadness \originalHbadness%
24061 \fi%
24062 \end{tikzpicture}%
24063 \hbadness \originalHbadness%
24064 \fi}%
24065 \renewcommand{\missingfigure}[2]{}%
24066 \setkeys{todonotes}{#1}%
24067 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
24068 \par
24069 \noindent
24070 \begin{tikzpicture}
24071 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
24072 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
24073 \if@bidi@todonotes@figposition@right%
24074 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24075 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
24076 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
24077 \if@bidi@todonotes@figposition@right%
24078 \end{scope}
24079 \begin{scope}[xshift=-3.8cm]
24080 \draw (2, -0.3) node[right, text
24081 width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
24082 \if@bidi@todonotes@figposition@right%

```



```

24087 \end{scope}
24088 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24089 \fi%
24090 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@textdirection}}
24091 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@textdirection}}
24092 \if@bidi@todonotes@figposition@right%
24093 \end{scope}
24094 \fi%
24095 \end{tikzpicture}\hfill
24096 }% Ending \missingfigure command
24097 \fi % Ending \@todonotes@ifdisabled
24098 \presetkeys%
24099     {todonotes}%
24100     {align=left,%
24101     textdirection=lefttoright,%
24102     figposition=left}{}%

```

## 162 File wrapfig-xetex-bidi.def

```

24103 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package]
24104 \let\WF@everypar\@everypar
24105 \def\WF@putfigmaybe{%
24106 \ifinner
24107   \vskip-\parskip \global\WF@floatfalse
24108   \let\pagetotal\maxdimen % kludge flag for "not top of page"
24109 \else % outer page
24110   \@tempdima\pagedepth % save page depth
24111   {\advance\parskip\@tempdima\ifRTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
24112   \penalty\interlinepenalty % update pg. parameters
24113   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
24114   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
24115     \global\WF@floatfalse
24116     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
24117   \else
24118     \ifdim\WF@size>\@tempdimb
24119       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
24120       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
24121       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
24122       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
24123       \advance\dimen@.5\baselineskip
24124       \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
24125         \global\WF@floatfalse \pagebreak
24126       \fi
24127     \else % \WF@info{Fits in \the\@tempdimb;}%
24128       \global\WF@floatfalse
24129     \fi\fi
24130   \vskip\@tempdima\relax % (return erased page depth)
24131 \fi
24132 \noindent
24133 \ifWF@float
24134   \WF@fltmes
24135 \else % putting here;
24136   \WF@info{Put \WF@wfname here;}%
24137   {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement

```



```

24138 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
24139 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
24140 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
24141 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
24142 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
24143 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
24144 \xdef\WF@adjlw{\the\@tempdima}%
24145 \ifnum `l=\WF@place % fig on left
24146 \if@RTL%
24147 \kern\@tempdimb \kern\columnsep
24148 \def\@tempa{\hss}% position to left of the gap
24149 \else%
24150 \hss % figure overlaps space to the left
24151 \def\@tempa{\kern\columnsep}% position to left of the gap
24152 \fi%
24153 \else % fig on right
24154 \if@RTL%
24155 \hss
24156 \@tempdima\z@
24157 \def\@tempa{\kern\columnsep}
24158 \else%
24159 \@tempdima\z@ % no left indentation
24160 \kern\@tempdimb \kern\columnsep
24161 \def\@tempa{\hss}% figure overlaps space to the right
24162 \fi%
24163 \fi
24164 \ifdim\@tempdimb<\hsize
24165 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
24166 \xdef\WF@adjtlm{\the\@tempdima}%
24167 \else
24168 \xdef\WF@wrapil{\z@ \the\hsize}%
24169 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
24170 \fi
24171 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
24172 \global\advance\WF@size-\intextsep
24173 \else % \WF@info{Putting \WF@wfname in middle of page}%
24174 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
24175 \fi \dp\WF@box\z@ \box\WF@box \@tempa
24176 }% end \hbox to Opt
24177 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
24178 \fi}

```

## 163 File xcolor-xetex-bidi.def

```

24179 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package fo
24180 \long\def\color@b@x#1#2#3%
24181 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
24182 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}
24183 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
24184 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
24185 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
24186 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
24187 \DeclareRobustCommand\color
24188 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor

```



```

24189 \def\@undeclaredcolor[#1]#2%
24190 {\begingroup
24191   \let\@cls\@empty
24192   \XC@getmodclr12{#1}{#2}{}%
24193   {\ifblendcolors
24194     \ifx\colorblend\@empty\else
24195       \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
24196       \XC@coremodel\@mod\@clr\xcolor@{}{}\@mod\@clr
24197     \fi
24198   \fi
24199   \ifconvertcolorsU
24200     \edef\@tmp{\XC@tgt@mod{\@mod}}%
24201     \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24202   \fi
24203   \ifmaskcolors
24204     \convertcolorspec\@mod\@clr\XC@mmod\@clr
24205     \let\@mod\XC@mmod
24206     \XC@inflate\@mod\XC@mclr\@clr\@tmp
24207     \expandafter\XC@mul\@tmp,\@clr
24208   \fi
24209   \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
24210   \expandafter\endgroup\@tmp}}
24211 \def\@declaredcolor#1%
24212 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24213 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24214   \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24215   \ifconvertcolorsU\XC@tsttrue\fi
24216 \fi
24217 \ifXC@tst
24218   \expandafter\XC@declaredcolor\else
24219   \expandafter\XC@declaredc@lor\fi}
24220 \def\XC@undeclaredcolor#1#2%
24221 {\@ifundefinedmodel{#1}%
24222   {\c@lor@error{model `#1'}}%
24223   {\@nameuse{color@#1}\current@color{#2}%
24224     \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24225     \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24226 \def\XC@declaredc@lor
24227 {\XC@let\Nc\XC@current@color{\string\color\XC@tmp}%
24228   \edef\current@color{\XC@current@color}%
24229   \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24230 \DeclareRobustCommand\bidicolor
24231 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
24232 \def\@bidiundeclaredcolor[#1]#2%
24233 {\begingroup
24234   \let\@cls\@empty
24235   \XC@getmodclr12{#1}{#2}{}%
24236   {\ifblendcolors
24237     \ifx\colorblend\@empty\else
24238       \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
24239       \XC@coremodel\@mod\@clr\xcolor@{}{}\@mod\@clr
24240     \fi
24241   \fi
24242   \ifconvertcolorsU

```



```

24243 \edef\@tmp{\XC@tgt@mod{\@mod}}%
24244 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24245 \fi
24246 \ifmaskcolors
24247 \convertcolorspec\@mod\@clr\XC@mmod\@clr
24248 \let\@mod\XC@mmod
24249 \XC@inflate\@mod\XC@mclr\@clr\@tmp
24250 \expandafter\XC@mul\@tmp,\@clr
24251 \fi
24252 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
24253 \expandafter\endgroup\@tmp}}
24254 \def\XC@bidiundeclaredcolor#1#2%
24255 {\@ifundefinedmodel{#1}%
24256 {\color@error{model `#1'}}%
24257 {\@nameuse{color#1}\current@color{#2}%
24258 \edef\XC@current@color{\noexpand\xcolor@{\current@color}{#1}{#2}}%
24259 \XC@display}}
24260 \def\@bidideclaredcolor#1%
24261 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24262 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24263 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24264 \ifconvertcolorsU\XC@tsttrue\fi
24265 \fi
24266 \ifXC@tst
24267 \expandafter\XC@bidideclaredcolor\else
24268 \expandafter\XC@bidideclaredcolor\fi}
24269 \def\XC@bidideclaredcolor
24270 {\XC@split\XC@tmp
24271 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
24272 \expandafter\endgroup\@tmp}
24273 \def\XC@bidideclaredcolor
24274 {\XC@let\Nc\XC@current@color{\string\color\XC@tmp}%
24275 \edef\current@color{\XC@current@color}%
24276 \XC@display}
24277 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
24278 \def\color@fbbox#1#2#3#4{\protect\color@fb@x{#1}{#2}{#3}}
24279 \def\color@fb@x#1#2#3#4%
24280 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
24281 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
24282 \def\color@setgroup{\begingroup\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\setcolor\ifhmo

```

## 164 File latex-xetex-bidi.def

```

24283 \ProvidesFile{latex-xetex-bidi.def}[2025/09/20 v1.5.3 bidi adaptations for `latex.ltx' for
24284 \newcommand{\TeXXeTOn}{\TeXXeTstate\one}
24285 \newcommand{\TeXXeTOff}{\TeXXeTstate\z@}
24286 \TeXXeTOn
24287 \def\bidi@RTL@everypar{\setbox\z@\lastbox\ifRTL\beginR\else\beginL\fi\ifvoid\z@\else\useb
24288 \let\bidi@o@everypar=everypar
24289 \newtoks\bidi@n@everypar
24290 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
24291 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
24292 \let\everypar=\bidi@n@everypar
24293 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}

```





```

24294 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
24295 \protected\def\hboxR{\hbox\bgroup
24296   \everyhbox{%
24297     \aftergroup\egroup
24298     \everyhbox{}}%
24299   \beginR
24300   \@hboxRconstructtrue
24301   \bgroup
24302   \aftergroup\endR
24303   \aftergroup\egroup
24304 } \hbox}
24305 \protected\def\hboxL{\hbox\bgroup
24306   \everyhbox{%
24307     \aftergroup\egroup
24308     \everyhbox{}}%
24309   \beginL
24310   \@hboxRconstructfalse
24311   \bgroup
24312   \aftergroup\endL
24313   \aftergroup\egroup
24314 } \hbox}
24315 \protected\def\vboxR{\vbox\bgroup
24316   \everyvbox{%
24317     \aftergroup\egroup
24318     \everyvbox{}}%
24319   \@RTLtrue
24320   \@RTLtabtrue
24321   \bgroup
24322   \aftergroup\egroup
24323 } \vbox}
24324 \protected\def\vboxL{\vbox\bgroup
24325   \everyvbox{%
24326     \aftergroup\egroup
24327     \everyvbox{}}%
24328   \@RTLfalse
24329   \@RTLtabfalse
24330   \bgroup
24331   \aftergroup\egroup
24332 } \vbox}
24333 \newcommand*{\bidi@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
24334 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
24335 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@be}
24336 \def\endLTR{\par}
24337 \newenvironment{LTR*}{\LTR
24338   \everypar{%
24339     {\setbox\z@\lastbox
24340       \ifvoid\z@
24341         \kern-\parindent
24342       \fi}%
24343   }%
24344 }{\endLTR\@endpetrue}
24345 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beame}
24346 \def\endRTL{\par}
24347 \newenvironment{RTL*}{\RTL

```



```

24348 \everypar{%
24349     {\setbox\z@\lastbox
24350      \ifvoid\z@
24351       \kern-\parindent
24352      \fi}%
24353 }%
24354 }\endRTL\@endpetrue}
24355 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\@bidi@beamer@ragged}
24356 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTL@tabfalse\@bidi@beamer@ragged}
24357 \let\unsetRTL=\setLTR
24358 \let\unsetLTR=\setRTL
24359 \let\LR=\LRE
24360 \let\RL=\RLE
24361 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
24362 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
24363 \let\@ensure@RL=\@ensure@RTL
24364 \let\@ensure@LR=\@ensure@LTR
24365 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
24366 \let\@ensure@maindir=\@ensure@dir
24367 \def\@RTL{RTL}
24368 \def\@LTR{LTR}
24369 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
24370 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
24371 \let\@TeX\TeX
24372 \def\TeX{\@ensure@LTR{\@TeX}}
24373 \let\@LaTeX\LaTeX
24374 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
24375 \let\@LaTeXe\LaTeXe
24376 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
24377 \long\def\bidi@reflect@box#1{%
24378     \leavevmode
24379     \setbox\z@\hbox{#1}}%
24380     \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
24381     \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}}%
24382 }
24383 \if@bidi@csundef{XeTeX}{%
24384     \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24385         \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
24386 }{%
24387     \let\@bidi@orig@XeTeX\XeTeX
24388     \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
24389 }
24390 \if@bidi@csundef{XeLaTeX}{%
24391     \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24392         \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
24393 }{%
24394     \let\@bidi@orig@XeLaTeX\XeLaTeX
24395     \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
24396 }
24397 \let\setRL=\setRTL
24398 \let\setLR=\setLTR
24399 \let\unsetRL=\setLTR
24400 \def\bidi@tabular@RTLCases{\let\@halignto\@empty\@bidi@tabular@RTLCases}
24401 \ApplyPatchIfPackageLoaded{array}{%

```



```

24402 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24403 \leavevmode
24404 \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
24405 \let\dollarend\end\group
24406 \@tabarray}
24407 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
24408 }{%
24409 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24410 \leavevmode \hbox \bgroup
24411 $\left.\let\@acol\@tabacol
24412 \let\@classz\@tabclassz
24413 \let\@classiv\@tabclassiv \let\\ \@tabularcr\@tabarray}
24414
24415 \def\endbidi@tabular@RTLcases{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
24416 \egroup\right\rbrace $\egroup}}
24417 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
24418 \ialign{##\hfil$\&\quad{##}\hfil\crrc#1\crrc}}\,\right\}}
24419 \renewenvironment{RTLcases}{%
24420 \bidi@matrix@check\RTLcases\env@RTLcases
24421 }{%
24422 \endbidi@tabular@RTLcases%
24423 }
24424 \def\env@RTLcases{%
24425 \let\@ifnextchar\bidi@new@ifnextchar
24426 \def\arraystretch{1.2}%
24427 \bidi@tabular@RTLcases{\@{}r@{\quad}r@{}}%
24428 }
24429 \def\SepMark#1{\gdef\@SepMark{#1}}
24430 \SepMark{.}
24431 \def\@thmcountersep{\@SepMark}
24432 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
24433 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
24434 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
24435 \newcommand*{\bidi@thebibliography@font@hook}{}
24436 \def\list#1#2{%
24437 \ifnum \@listdepth >5\relax
24438 \@toodeep
24439 \else
24440 \global\advance\@listdepth\@ne
24441 \fi
24442 \rightmargin\z@
24443 \listparindent\z@
24444 \itemindent\z@
24445 \csname @list\romannumeral\the\@listdepth\endcsname
24446 \def\@itemlabel{#1}%
24447 \let\makelabel\@mklab
24448 \@nmbrrlistfalse
24449 #2\relax
24450 \@trivlist
24451 \parskip\parsep
24452 \parindent\listparindent
24453 \advance\linewidth -\rightmargin
24454 \advance\linewidth -\leftmargin
24455 \if@bidi@list@minipage@parbox

```



```

24456 \if@RTL
24457 \advance\@totalleftmargin \leftmargin
24458 \else
24459 \advance\@totalleftmargin \rightmargin
24460 \fi
24461 \else
24462 \if@hboxRconstruct
24463 \if@bidi@list@minipage@parbox@not@nob
24464 \if@RTL
24465 \advance\@totalleftmargin \rightmargin
24466 \else
24467 \advance\@totalleftmargin \leftmargin
24468 \fi
24469 \else
24470 \if@RTL
24471 \advance\@totalleftmargin \leftmargin
24472 \else
24473 \advance\@totalleftmargin \rightmargin
24474 \fi\fi
24475 \else
24476 \if@RTL
24477 \advance\@totalleftmargin \rightmargin
24478 \else
24479 \advance\@totalleftmargin \leftmargin
24480 \fi\fi\fi
24481 \parshape \@ne \@totalleftmargin \linewidth
24482 \ignorespaces}
24483 \long\def\@iiiparbox#1#2[#3]#4#5{%
24484 \leavevmode
24485 \@pboxswfalse
24486 \if@hboxRconstruct
24487 \@bidi@list@minipage@parbox@not@nobtrue
24488 \fi
24489 \if@RTL
24490 \ifx#1t%
24491 \@bidi@list@minipage@parboxtrue
24492 \else
24493 \ifx#1b%
24494 \@bidi@list@minipage@parboxtrue
24495 \fi
24496 \fi
24497 \fi
24498 \setlength\@tempdima{#4}%
24499 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@@par}%
24500 \ifx\relax#2\else
24501 \setlength\@tempdimb{#2}%
24502 \edef\@parboxto{to\the\@tempdimb}%
24503 \fi
24504 \if#1b\vbox
24505 \else\if #1t\vtop
24506 \else\ifmmode\vcenter
24507 \else\@pboxswtrue $\vcenter
24508 \fi\fi\fi
24509 \@parboxto{\let\hss\vss\let\unhbox\unvbox

```



```

24510      \csname bm@#3\endcsname}%
24511      \if@pboxsw \m@th$\fi
24512      \@end@tempboxa}
24513 \newenvironment{LTRitems}
24514     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24515      \if@bidi@list@minipage@parbox
24516      \parshape \@One \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24517      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24518      \parshape \@One \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24519      \parshape \@One \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24520      \else \parshape \@One \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24521      \ignorespaces}{\vskip\z@}
24522 \newenvironment{RTLitems}
24523     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24524      \if@bidi@list@minipage@parbox
24525      \parshape \@One \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24526      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24527      \parshape \@One \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24528      \parshape \@One \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24529      \else \parshape \@One \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24530      \ignorespaces}{\vskip\z@}
24531 \newenvironment{LTRbibitems}
24532     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24533      \if@bidi@list@minipage@parbox
24534      \parshape \@One \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24535      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24536      \parshape \@One \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24537      \parshape \@One \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24538      \else \parshape \@One \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24539      \ignorespaces}{\vskip\z@}
24540 \newenvironment{RTLbibitems}
24541     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24542      \if@bidi@list@minipage@parbox
24543      \parshape \@One \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24544      \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24545      \parshape \@One \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24546      \parshape \@One \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24547      \else \parshape \@One \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24548      \ignorespaces}{\vskip\z@}
24549 \def\raggedright{%
24550   \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
24551   \leftskip\z@skip
24552   \parindent\z@\parfillskip\z@skip}
24553 \let\@bidi@orig@raggedleft\raggedleft
24554 \let\@bidi@orig@raggedright\raggedright
24555 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRconstruct\@bidi@orig@raggedleft\else\if@hboxRconstruct\@bidi@orig@raggedright\fi}
24556 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRconstruct\@bidi@orig@raggedright\else\if@hboxRconstruct\@bidi@orig@raggedleft\fi}
24557 \newcommand{\bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
24558 \newcommand{\bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
24559 \DeclareRobustCommand\centerline[1]{%
24560 \if@RTL\@@line{\hss\beginR#1\endR\hss}
24561 \else\@@line{\hss#1\hss}\fi}
24562 \def\@bidi@orig@leftline#1{%
24563 \if@RTL\@@line{\beginR#1\endR\hss}

```



```

24564 \else\@@line{#1\hss}\fi}
24565 \def\ bidi@orig@rightline#1{%
24566 \if@RTL\@@line{\hss\beginR#1\endR}
24567 \else\@@line{\hss#1}\fi}
24568 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\ bidi@orig@rightline{#1}\else\ bidi@orig@le
24569 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\ bidi@orig@leftline{#1}\else\ bidi@orig@ri
24570 \DeclareRobustCommand\bidirlap[1]{\hb@xt@\z@\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
24571 \DeclareRobustCommand\bidillap[1]{\hb@xt@\z@\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
24572 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#1}}%
24573 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
24574 \def\narrower{%
24575 \advance\if@RTL\rightskip\else\leftskip\fi\parindent
24576 \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
24577 \DeclareRobustCommand\underline[1]{%
24578 \relax
24579 \ifmmode\@@underline{#1}%
24580 \else
24581 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
24582 \else
24583 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
24584 \if@compatibility
24585 \let\undertext=\underline
24586 \fi
24587 \def\@tabular{%
24588 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
24589 $\let\@acol\@tabacol
24590 \let\@classz\@tabclassz
24591 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24592 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24593 \egroup $\if@RTLtab\endR\fi\egroup}
24594 \expandafter \let \csname endtabular*\endcsname = \endtabular
24595 \def\@array[#1]#2{%
24596 \if #1t\top \else \if#1b\bottom \else \vcenter \fi\fi
24597 \bgroup
24598 \setbox\@arstrutbox\hbox{%
24599 \vrule \@height\arraystretch\ht\strutbox
24600 \@depth\arraystretch \dp\strutbox
24601 \@width\z@}%
24602 \mkpream{#2}%
24603 \edef\@preamble{%
24604 \ialign \noexpand\@halignto
24605 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
24606 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
24607 \let\@tabularnewline\\%
24608 \let\par\@empty
24609 \let\@sharp##%
24610 \set@typeset@protect
24611 \lineskip\z@skip\baselineskip\z@skip
24612 \ifhmode \@preamerr\z@ \@@par\fi
24613 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \bottom \fi\bgroup\fi
24614 \@preamble}
24615 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
24616 \let\@classiv\@arrayclassiv
24617 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}

```



```

24618 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
24619     \ifnum \@lastchclass=3 5 \else
24620     \z@ \if #1c\@chnum \z@ \else
24621         \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
24622         \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
24623         \@chclass \if #1|\@ne \else
24624         \if #1@\tw@ \else
24625         \if #1p3 \else \z@ \@preamerr 0\fi
24626 \fi \fi \fi \fi \fi \fi
24627 \fi}
24628 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
24629 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
24630 \def\bm@t{\unhbox\@tempboxa\hss}
24631 \def\bm@b{\hss\unhbox\@tempboxa}
24632 \def\@dottedtocline#1#2#3#4#5{%
24633     \ifnum #1>\c@tocdepth \else
24634     \vskip \z@ \@plus.2\p@
24635     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrm
24636     \parindent #2\relax\@afterindenttrue
24637     \interlinepenalty\@M
24638     \leavevmode
24639     \@tempdima #3\relax
24640     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rig
24641     {#4}\nobreak
24642     \leaders\hbox{$\m@th
24643         \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
24644         mu$}\hfill
24645     \nobreak
24646     \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
24647     \par}%
24648 \fi}
24649
24650 \newcount\@bidi@column@check@number
24651
24652 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}
24653
24654 \def\@bidi@set@column@status#1#2{%
24655     \global\expandafter\let\csname #1\endcsname\@bidi@current@column@status}
24656
24657 \if@twocolumn
24658 \newcommand\DetectColumn[3][1]{%
24659     \ifx\@bidi@firstcolumn@status@write\relax
24660         \PackageError{bidi}%
24661         {Option 'DetectColumn' not selected}%
24662         {\string\DetectColumn\space
24663         requires the use of the 'DetectColumn'
24664         option on the package}%
24665     \fi
24666     \global\advance\@bidi@column@check@number\@ne
24667     \edef\@bidi@column@type{\expandafter\ifx
24668         \csname bidi@column-\the\@bidi@column@check@number\endcsname\relax
24669         0\else
24670         \csname bidi@column-\the\@bidi@column@check@number\endcsname
24671         \fi}%

```



```

24672 \ifcase \bidi@column@type\relax
24673     \ifcase #1\or #2\or#3\fi    % 0 not known use first column as default
24674     \or
24675         #2%    % 1 First column
24676     \or
24677         #3%    % 2 Second (Last column)
24678     \else
24679         \ERROR
24680     \fi
24681     \edef\next{\write\@auxout
24682         {\string\bidi@set@column@status{\bidi@column-\the\bidi@column@check@number}%
24683             {\bidi@column@type}}}%
24684     \next
24685 }
24686
24687 \AtEndDocument{\def\bidi@set@column@status#1#2{%
24688     \ifnum #2=\bidi@current@column@status\else
24689         \@tempwattrue
24690         \fi}%
24691 }
24692 \fi
24693
24694 \def\RTL@outputdblcol{%
24695     \if@firstcolumn
24696         \global\@firstcolumnfalse
24697         \global\setbox\@leftcolumn\copy\@outputbox
24698         \splitmaxdepth\maxdimen
24699         \vbadness\maxdimen
24700         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24701         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24702         \toks@\expandafter{\topmark}%
24703         \xdef\@firstcoltopmark{\the\toks@}%
24704         \toks@\expandafter{\splitfirstmark}%
24705         \xdef\@firstcolfirstmark{\the\toks@}%
24706         \ifx\@firstcolfirstmark\@empty
24707             \global\let\@setmarks\relax
24708         \else
24709             \gdef\@setmarks{%
24710                 \let\firstmark\@firstcolfirstmark
24711                 \let\topmark\@firstcoltopmark}%
24712         \fi
24713     \else
24714         \global\@firstcolumntrue
24715         \setbox\@outputbox\vbox{%
24716             \hb@xt@\textwidth{%
24717                 \hskip \columnwidth
24718                 \hfil
24719                 {\normalcolor\vrule \columnseprule}%
24720                 \hfil
24721                 \hb@xt@\columnwidth{%
24722                     \bidi@firstcolumn@status@write%
24723                     \box\@leftcolumn \hss}%
24724                 \hskip -\textwidth
24725                 \hb@xt@\columnwidth{%

```





```

24726      \bidi@lastcolumn@status@write%
24727      \box\@outputbox \hss}%
24728      \hskip \columnsep
24729      \hskip \columnwidth }}%
24730 \@combinedblfloats
24731 \setmarks
24732 \outputpage
24733 \begingroup
24734 \dblfloatplacement
24735 \startdblcolumn
24736 \whiles\if@fcolmade \fi{\@outputpage
24737 \startdblcolumn}%
24738 \endgroup
24739 \fi}%
24740
24741 \def\LTR@outputdblcol{%
24742 \if@firstcolumn
24743 \global\@firstcolumnfalse
24744 \global\setbox\@leftcolumn\copy\@outputbox
24745 \splitmaxdepth\maxdimen
24746 \vbadness\maxdimen
24747 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24748 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24749 \toks@\expandafter{\topmark}%
24750 \xdef\@firstcoltopmark{\the\toks@}%
24751 \toks@\expandafter{\splitfirstmark}%
24752 \xdef\@firstcolfirstmark{\the\toks@}%
24753 \ifx\@firstcolfirstmark\@empty
24754 \global\let\setmarks\relax
24755 \else
24756 \gdef\setmarks{%
24757 \let\firstmark\@firstcolfirstmark
24758 \let\topmark\@firstcoltopmark}%
24759 \fi
24760 \else
24761 \global\@firstcolumntrue
24762 \setbox\@outputbox\vbox{%
24763 \hb@xt@\textwidth{%
24764 \hb@xt@\columnwidth{%
24765 \bidi@firstcolumn@status@write%
24766 \box\@leftcolumn \hss}%
24767 \hfil
24768 {\normalcolor\vrule \@width\columnseprule}%
24769 \hfil
24770 \hb@xt@\columnwidth{%
24771 \bidi@lastcolumn@status@write%
24772 \box\@outputbox \hss}}}%
24773 \@combinedblfloats
24774 \setmarks
24775 \outputpage
24776 \begingroup
24777 \dblfloatplacement
24778 \startdblcolumn
24779 \whiles\if@fcolmade \fi{\@outputpage

```



```

24780 \startdblcolumn}%
24781 \endgroup
24782 \fi}%
24783
24784
24785 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
24786 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
24787 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
24788
24789 \bidi@appto\@outputbox@appendfootnotes{%
24790 \ifvoid\@bidi@copyins@
24791 \else
24792 \@outputbox@append{%
24793 \vskip \skip\@bidi@copyins@
24794 \color@begingroup
24795 \normalcolor
24796 \unvbox \@bidi@copyins@
24797 \color@endgroup
24798 }%
24799 \fi
24800 }
24801
24802 \def\LTRmarginpar{%
24803 \ifhmode
24804 \@bsphack
24805 \@floatpenalty -\@Mii
24806 \else
24807 \@floatpenalty-\@Miii
24808 \fi
24809 \ifinner
24810 \@parmoderr
24811 \@floatpenalty\z@
24812 \else
24813 \@next\@currbox\@freelist{}{}%
24814 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24815 {\@floatpenalty\z@
24816 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24817 \fi
24818 \@ifnextchar [\@LTRxmpar\@LTRympar}
24819 \long\def\@LTRxmpar[#1]#2{%
24820 \@LTRsavemarbox\@marbox{#1}%
24821 \@LTRsavemarbox\@currbox{#2}%
24822 \@xympar}
24823 \long\def\@LTRympar#1{%
24824 \@LTRsavemarbox\@marbox{#1}%
24825 \global\setbox\@currbox\copy\@marbox
24826 \@xympar}
24827 \long\def \@LTRsavemarbox #1#2{%
24828 \global\setbox #1%
24829 \color@vbox
24830 \vtop{%
24831 \hsize\marginparwidth
24832 \@parboxrestore
24833 \@LTRmarginparreset

```



```

24834      #2%
24835      \@minipagefalse
24836      \outer@nobreak
24837      }%
24838      \color@endbox
24839 }
24840 \def \@LTRmarginparreset {%
24841     \reset@font
24842     \normalsize
24843     \@minipagetrue
24844     \everypar{\@minipagefalse\everypar{}\beginL}%
24845 }
24846 \def\RTLmarginpar{%
24847     \ifhmode
24848         \bsphack
24849         \@floatpenalty -\@Mii
24850     \else
24851         \@floatpenalty-\@Miii
24852     \fi
24853     \ifinner
24854         \@parmoderr
24855         \@floatpenalty\z@
24856     \else
24857         \@next\@currbox\@freelist{}\{}%
24858         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24859         {\@floatpenalty\z@
24860          \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
24861     \fi
24862     \@ifnextchar [\@RTLxmpar\@RTLympar}
24863 \long\def\@RTLxmpar[#1]#2{%
24864     \@RTLSavemarbox\@marbox{#1}%
24865     \@RTLSavemarbox\@currbox{#2}%
24866     \@xympar}
24867 \long\def\@RTLympar#1{%
24868     \@RTLSavemarbox\@marbox{#1}%
24869     \global\setbox\@currbox\copy\@marbox
24870     \@xympar}
24871 \long\def \@RTLSavemarbox #1#2{%
24872     \global\setbox #1%
24873     \color@vbox
24874     \vtop{%
24875         \hsize\marginparwidth
24876         \@parboxrestore
24877         \@RTLmarginparreset
24878         #2%
24879         \@minipagefalse
24880         \outer@nobreak
24881         }%
24882     \color@endbox
24883 }
24884 \def \@RTLmarginparreset {%
24885     \reset@font
24886     \normalsize
24887     \@minipagetrue

```



```

24888      \everypar{\@minipagefalse\everypar{}\beginR}%
24889 }
24890 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
24891   \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
24892   \if@twocolumn
24893     \if@firstcolumn \@tempcnta\m@ne \fi
24894   \else
24895     \if@mparswitch
24896       \ifodd\c@page \else\@tempcnta\m@ne \fi
24897     \fi
24898     \if@reversemargin \@tempcnta -\@tempcnta \fi
24899   \fi
24900   \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
24901   \@tempdima\@mparbottom
24902   \advance\@tempdima -\@pageht
24903   \advance\@tempdima\ht\@marbox
24904   \ifdim\@tempdima >\z@
24905     \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
24906   \else
24907     \@tempdima\z@
24908   \fi
24909   \global\@mparbottom\@pageht
24910   \global\advance\@mparbottom\@tempdima
24911   \global\advance\@mparbottom\dp\@marbox
24912   \global\advance\@mparbottom\marginparpush
24913   \advance\@tempdima -\ht\@marbox
24914   \global\setbox \@marbox
24915     \vbox {\vskip \@tempdima
24916       \box \@marbox}%
24917   \global \ht\@marbox \z@
24918   \global \dp\@marbox \z@
24919   \kern -\@pagedp
24920   \nointerlineskip
24921   \hb@xt@\columnwidth
24922     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\begin
24923       \hskip\columnwidth \hskip\marginparsep
24924     \else
24925       \hskip -\marginparsep \hskip -\marginparwidth
24926     \fi
24927     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
24928   \nointerlineskip
24929   \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
24930 \long\def\@ympar#1{%
24931   \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmargin
24932   \global\setbox\@currbox\copy\@marbox
24933   \@xympar}
24934 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
24935 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
24936 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
24937 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
24938   \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
24939 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
24940   \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
24941   \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge

```



```

24942 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
24943 \fi}
24944
24945 \newcommand*{\bidi@font@outputpage}{%
24946
24947 \def\@outputpage{%
24948 \begingroup % the \endgroup is put in by \aftergroup
24949 \let \protect \noexpand
24950 \@resetactivechars
24951 \global\let\@if@newlist\if@newlist
24952 \global\@newlistfalse
24953 \@parboxrestore
24954 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
24955 \bidi@BeforeOutputPageShipOuthook
24956 \shipout \vbox{%
24957 \set@typeset@protect
24958 \aftergroup \endgroup
24959 \aftergroup \set@typeset@protect
24960 % correct? or just restore by ending
24961 % the group?
24962 \if@specialpage
24963 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
24964 \fi
24965 \if@twoside
24966 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
24967 \if@RTLmain
24968 \let\@themargin\evensidemargin
24969 \else
24970 \let\@themargin\oddsidemargin
24971 \fi
24972 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
24973 \if@RTLmain
24974 \let\@themargin\oddsidemargin
24975 \else
24976 \let\@themargin\evensidemargin
24977 \fi
24978 \fi
24979 \ifx\@thehead\@empty \let\@thehead\hfil \fi
24980 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
24981 \else %% not @twoside
24982 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
24983 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
24984 \fi
24985 \reset@font
24986 \normalsize
24987 \bidi@font@outputpage
24988 \normalsfcodes
24989 \let\label\@gobble
24990 \let\index\@gobble
24991 \let\glossary\@gobble
24992 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
24993 \@beginndvi
24994 \vskip \topmargin
24995 \moveright\@themargin \vbox {%

```



```

24996 \global\let\bidibeforeheader\@firstofone
24997 \bidibeforeheaderhook
24998 \setbox\@tempboxa \vbox to\headheight{%
24999 \vfil
25000 \color@hbox
25001 \normalcolor
25002 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\i
25003 \color@endbox
25004 }% %% 22 Feb 87
25005 \dp\@tempboxa \z@
25006 \box\@tempboxa
25007 \vskip \headsep
25008 \global\let\bidibeforeoutputboxoutputpage\@firstofone
25009 \bidibeforeoutputboxoutputpagehook
25010 \box\@outputbox
25011 \global\let\bidiafteroutputboxoutputpage\@firstofone
25012 \bidiafteroutputboxoutputpagehook
25013 \global\let\bidibeforefooter\@firstofone
25014 \bidibeforefooterhook
25015 \baselineskip \footskip
25016 \color@hbox
25017 \normalcolor
25018 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
25019 \color@endbox
25020 \global\let\bidiafterfooter\@firstofone
25021 \bidiafterfooterhook
25022 }%
25023 }%
25024 \global\let\bidiafteroutputpageshipout\@firstofone
25025 \bidiafteroutputpageshipouthook
25026 \global\let\if@newlist\@if@newlist
25027 \global \colht \textheight
25028 \stepcounter{page}%
25029 \let\firstmark\botmark
25030 \global\let\bidiatendoutputpage\@firstofone
25031 \bidiatendoutputpagehook
25032 }
25033 \long\def\@makecaption#1#2{%
25034 \vskip\abovecaptionskip
25035 \sbox\@tempboxa{#1: #2}%
25036 \ifdim \wd\@tempboxa >\hsize
25037 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
25038 \else
25039 \global \@minipagefalse
25040 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
25041 \fi
25042 \vskip\belowcaptionskip}
25043 \let\bidisaved@eqno=\eqno
25044 \let\bidisaved@leqno=\leqno
25045 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@eqno \fi}
25046 \def\leqno{\ifnum\predisplaydirection<\z@ \bidisaved@eqno \else \bidisaved@leqno \fi}
25047 \ApplyPatchIfPackageLoadedF{amsmath}{
25048 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
25049 }

```



```

25050 \input{footnote-xetex-bidi.def}
25051 \if@twocolumn
25052   \let\autofooterule\relax
25053   \let\leftfootnoterule\relax
25054   \let\rightfootnoterule\relax
25055   \textwidthfootnoterule
25056 \fi
25057 \if@bidi@csundef{@idxitem}{-}{-}{%
25058 \renewcommand{@idxitem}{\par\hangindent \if@RTL-\fi40\p@}%
25059 }
25060
25061 \ApplyPatchToClassesIfPackageLoadedF{%
25062   book, %
25063   report %
25064 }{flowfram}
25065
25066 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
25067
25068 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
25069   fleqn, %
25070   leqno%
25071 }[clo]
25072
25073 \ApplyPatchToClasses{%
25074   amsart, %
25075   amsbook, %
25076   article, %
25077   artikel1, %
25078   artikel2, %
25079   artikel3, %
25080   beamer, %
25081   boek, %
25082   boek3, %
25083   bookest, %
25084   combine, %
25085   extbook, %
25086   extletter, %
25087   extarticle, %
25088   extreport, %
25089   imsproc, %
25090   letter, %
25091   memoir, %
25092   rapport1, %
25093   rapport3, %
25094   refrep, %
25095   scrartcl, %
25096   scrbook, %
25097   scrreprt %
25098 }
25099
25100 \ApplyPatchToPackages{%
25101   algorithm2e, %
25102   amsmath, %
25103   amstext, %

```



25104 amsthm, %  
 25105 arydshln, %  
 25106 array, %  
 25107 beamerbaseauxtemplates, %  
 25108 beamerbaseboxes, %  
 25109 beamerbasecolor, %  
 25110 beamerbasecompatibility, %  
 25111 beamerbaseframecomponents, %  
 25112 beamerbaseframesize, %  
 25113 beamerbaselocalstructure, %  
 25114 beamerbasemisc, %  
 25115 beamerbasenavigation, %  
 25116 beamerbaseoverlay, %  
 25117 beamerinnerthemecircles, %  
 25118 beamerinnerthemedefault, %  
 25119 beamerinnerthemefocus, %  
 25120 beamerinnerthemeinmargin, %  
 25121 beamerinnerthememetropolis, %  
 25122 beamerinnerthemerectangles, %  
 25123 beamerinnerthemrounded, %  
 25124 beamerouterthemedefault, %  
 25125 beamerouterthemefocus, %  
 25126 beamerouterthemeinfolines, %  
 25127 beamerouterthememetropolis, %  
 25128 beamerouterthememiniframes, %  
 25129 beamerouterthemesidebar, %  
 25130 beamerouterthemesplit, %  
 25131 beamerouterthemeshadow, %  
 25132 beamerouterthemesmoothbars, %  
 25133 beamerouterthemesmoothtree, %  
 25134 beamerouterthemetree, %  
 25135 beamerthemeHannover, %  
 25136 beamerthemeSingapore, %  
 25137 breqn, %  
 25138 calcs, %  
 25139 caption, %  
 25140 caption3, %  
 25141 color, %  
 25142 colortbl, %  
 25143 crop, %  
 25144 cuted, %  
 25145 cutwin, %  
 25146 dblfnote, %  
 25147 diagbox, %  
 25148 draftwatermark, %  
 25149 eso-pic, %  
 25150 empheq, %  
 25151 fancybox, %  
 25152 fancyhdr, %  
 25153 fix2col, %  
 25154 float, %  
 25155 floatrow, %  
 25156 flowfram, %  
 25157 fnpct, %





```

25158 footnotebackref, %
25159 framed, %
25160 ftnright, %
25161 geometry, %
25162 graphicx, %
25163 hvfloat, %
25164 hyperref, %
25165 lettrine, %
25166 lineno, %
25167 listings, %
25168 longtable, %
25169 lscape, %
25170 mathtools, %
25171 mdframed, %
25172 media9, %
25173 midfloat, %
25174 minitoc, %
25175 multicol, %
25176 adjmulticol, %
25177 multienum, %
25178 natbib, %
25179 newfloat, %
25180 nicematrix, %
25181 ntheorem, %
25182 ntheorem-hyper, %
25183 overpic, %
25184 pdfbase, %
25185 pdflscape, %
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25190 rotating, %
25191 sidecap, %
25192 soul, %
25193 stabular, %
25194 subfigure, %
25195 tabs, %
25196 tabularx, %
25197 tabulary, %
25198 tcolorbox, %
25199 thmbox, %
25200 titlesec, %
25201 titletoc, %
25202 tocbasic, %
25203 tocbibind, %
25204 tocloft, %
25205 tocstyle, %
25206 todonotes, %
25207 wrapfig, %
25208 xcolor, %
25209 xltextra %
25210 }
25211

```



```

25212 \ApplyPatchToFiles{%
25213   pgfcorescopes.code, %
25214   pstricks %
25215 }[tex]
25216
25217 \ApplyPatchToFiles{%
25218   hgeneric-testphase, %
25219   tc-xetex %
25220 }
25221

```

## 165 File xltextra-xetex-bidi.def

```

25222 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package
25223 \let\@@XeTeX\XeTeX
25224 \def\XeTeX{\@ensure@LTR{\@@XeTeX}}
25225 \let\@@XeLaTeX\XeLaTeX
25226 \def\XeLaTeX{\@ensure@LTR{\@@XeLaTeX}}

```

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