The XePersian *Package*

Source documentation for version 26.2

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/xepersian/issues`

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

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

`https://github.com/xepersian/xepersian/discussions`

The announcements for the new releases of the package will also appear in the Discussions space under the Announcements category.

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The XePersian *Package*

Persian for LaTeX 2ε, using XeTeX engine

Source documentation for version 26.2

Vafa Khalighi*

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```
\ProvidesFile{algorithmic-xetex-xepersian.def}[2010/07/25 v0.2 xepersian adaptations for algo
\def\algorithmicrequire{\if@RTL\textbf{   :}\else\textbf{Require:}\fi}
\def\algorithmicensure{\if@RTL\textbf{   :}\else\textbf{Ensure:}\fi}
```

2 File algorithm-xetex-xepersian.def

```
\ProvidesFile{algorithm-xetex-xepersian.def}[2010/07/25 v0.2 xepersian adaptations for algori
\def\ALG@name{\if@RTL else\      Algorithm\fi}
\def\ALGS@name{      }
\def\listalgorithmname{\if@RTL     \ALGS@name\else List of \ALG@name s\fi}
```

3 File amsart-xetex-xepersian.def

```
\ProvidesFile{amsart-xetex-xepersian.def}[2017/02/04 v0.4 xepersian adaptations for amsart cl
\renewcommand \thepart {\@tartibi\c@part}
\def\appendix{\par\c@section\z@ \c@subsection\z@
   \let\sectionname\appendixname
   \def\thesection{\@harfi\c@section}}

```

4 File amsbook-xetex-xepersian.def

```
\ProvidesFile{amsbook-xetex-xepersian.def}[2017/02/04 v0.5 xepersian adaptations for amsbook
\def\frontmatter{\cleardoublepage\pagenumbering{harfi}}
\renewcommand \thepart {\@tartibi\c@part}
\def\appendix{\par
```

```
  \c@chapter\z@ \c@section\z@
  \let\chaptername\appendixname
  \def\thechapter{\@harfi\c@chapter}}


```

5 File appendix-xetex-xepersian.def

```
\ProvidesFile{appendix-xetex-xepersian.def}[2015/02/01 v0.1 xepersian adaptations for appendi
\renewcommand{\@resets@pp}{\par
  \@ppsavesec
  \stepcounter{@pps}
  \setcounter{section}{0}%
  \if@chapter@pp
    \setcounter{chapter}{0}%
    \renewcommand\@chapapp{\appendixname}%
    \renewcommand\thechapter{\@harfi\c@chapter}%
  \else
    \setcounter{subsection}{0}%
    \renewcommand\thesection{\@harfi\c@section}%
  \fi
  \restoreapp
}
```

6 File article-xetex-xepersian.def

```
\ProvidesFile{article-xetex-xepersian.def}[2010/07/25 v0.2 xepersian adaptations for standarc
\renewcommand \thepart {\@tartibi\c@part}
\renewcommand\appendix{\par
  \setcounter{section}{0}%
  \setcounter{subsection}{0}%
  \gdef\thesection{\@harfi\c@section}}
```

7 File artikel1-xetex-xepersian.def

```
\ProvidesFile{artikel1-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for artikel
\renewcommand*\thepart{\@tartibi\c@part}
\renewcommand*\appendix{\par
  \setcounter{section}{0}%
  \setcounter{subsection}{0}%
  \gdef\thesection{\@harfi\c@section}}
```

8 File artikel2-xetex-xepersian.def

```
\ProvidesFile{artikel2-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for artikel
\renewcommand*\thepart{\@tartibi\c@part}
\renewcommand*\appendix{\par
  \setcounter{section}{0}%
  \setcounter{subsection}{0}%
  \gdef\thesection{\@harfi\c@section}}
```

9 File artikel3-xetex-xepersian.def

```
\ProvidesFile{artikel3-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for artikel
```

```
\renewcommand*\thepart{\@tartibi\c@part}
\renewcommand*\appendix{\par
  \setcounter{section}{0}%
  \setcounter{subsection}{0}%
  \gdef\thesection{\@harfi\c@section}}
```

10 File backref-xetex-xepersian.def

```
\ProvidesFile{backref-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for backref
\def\backrefpagesname{\if@RTL else\    pages\fi}
\def\BR@Latincitex[#1]#2{%
  \BRorg@Latincitex[{#1}]{#2}%
  \ifBR@verbose
    \PackageInfo{backref}{back Latin cite \string`#2\string'}%
  \fi
  \Hy@backout{#2}%
}
\AtBeginDocument{%
  \@ifundefined{NAT@parse}{%
    \global\let\BRorg@Latincitex\@Latincitex
    \global\let\@Latincitex\BR@Latincitex
  }{%
    \@ifpackageloaded{hyperref}{}{%
      \def\hyper@natlinkstart#1{\Hy@backout{#1}}%
    }%
    \PackageInfo{backref}{** backref set up for natbib **}%
  }%
}%
```

11 File beamer-xetex-xepersian.def

```
\ProvidesFile{beamer-xetex-xepersian.def}[2022/06/27 v0.2 xepersian adaptations for beamer cl
\usefonttheme[stillsansserifmath]{serif}

\renewcommand*{\bidi@beamer@today}{%
\the\persianyear-\ifnum\persianmonth<10\relax0\fi\the\persianmonth-\ifnum\persianday<10\relax


```

12 File beamerbasetranslator-xetex-xepersian.def

```
\ProvidesFile{beamerbasetranslator-xetex-xepersian.def}[2022/06/27 v0.3 xepersian adaptations
\newcommand*{\ProvidePersianTranslation}[2]{%
  \providetranslation{#1}{\ifRtoL{#2}{#1}}%
}

\ProvidePersianTranslation{Corollary}{   }
\ProvidePersianTranslation{Definition}{   }
\ProvidePersianTranslation{Definitions}{    }
\ProvidePersianTranslation{Example}{   }
\ProvidePersianTranslation{Examples}{    }
\ProvidePersianTranslation{Fact}{   }
\ProvidePersianTranslation{From?}{ }
\ProvidePersianTranslation{Lemma}{  }
```

```
\ProvidePersianTranslation{Problem}{   }
\ProvidePersianTranslation{Section}{   }
\ProvidePersianTranslation{Solution}{   }
\ProvidePersianTranslation{Subsection}{    }
\ProvidePersianTranslation{Theorem}{   }
\ProvidePersianTranslation{When?}{   }
\ProvidePersianTranslation{Who?}{      }


```

13 File bidituftesidenote-xetex-xepersian.def

```
\ProvidesFile{bidituftesidenote-xetex-xepersian.def}[2017/02/04 v0.3 xepersian adaptations fo

\setLTRcitationfont{\resetlatinfont\footnotesize}

\renewcommand*{\@bidituftesidenote@LTRmarginfont}{\resetlatinfont\footnotesize}

\renewcommand*{\@bidituftesidenote@RTLmarginfont}{\setpersianfont\footnotesize}


```

14 File bidimoderncv-xetex-xepersian.def

```
\ProvidesFile{bidimoderncv-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for bid
\def\refname{\if@RTL else\     Publications\fi}
```

15 File boek3-xetex-xepersian.def

```
\ProvidesFile{boek3-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for boek3 clas
\renewcommand*\thepart{\@tartibi\c@part}
\renewcommand*\frontmatter{%
  \cleardoublepage
  \@mainmatterfalse
  \pagenumbering{harfi}}
\renewcommand*\appendix{\par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}}
```

16 File boek-xetex-xepersian.def

```
\ProvidesFile{boek-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for boek class
\renewcommand*\thepart{\@tartibi\c@part}
\renewcommand*\frontmatter{%
  \cleardoublepage
  \@mainmatterfalse
  \pagenumbering{harfi}}
\renewcommand*\appendix{\par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}}
```

17 File bookest-xetex-xepersian.def

```
\ProvidesFile{bookest-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for bookest
\renewcommand \thepart {\@tartibi\c@part}
\renewcommand\appendix{\par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}
}%end appendix
```

18 File book-xetex-xepersian.def

```
\ProvidesFile{book-xetex-xepersian.def}[2010/07/25 v0.2 xepersian adaptations for book class
\renewcommand\frontmatter{%
    \cleardoublepage
  \@mainmatterfalse
  \pagenumbering{harfi}}
\renewcommand \thepart {\@tartibi\c@part}
\renewcommand\appendix{\par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}
}%end appendix
```

19 File breqn-xetex-xepersian.def

```
\ProvidesFile{breqn-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for breqn pack
\def\@dmath[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
  \everydisplay\expandafter{\the\everydisplay \display@setup}%
  \if@noskipsec \leavevmode \fi
  \if@inlabel \leavevmode \global\@inlabelfalse \fi
  \if\eq@group\else\eq@prelim\fi
  \setkeys{breqn}{#1}%
  \the\eqstyle
  \eq@setnumber
  \begingroup
  \eq@setup@a
  \eq@startup
}
\def\@dgroup[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
  \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
  \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
  \global\let\GRP@label\@empty
  \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
  \global\grp@linewidth\z@\global\grp@wdNum\z@
  \global\let\grp@eqs@numbered\@False
  \global\let\grp@aligned\@True
  \global\let\grp@shiftnumber\@False
  \eq@prelim
  \setkeys{breqn}{#1}%
  \if\grp@hasNumber \grp@setnumber \fi
}
```

```
\def\@dseries[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
  \let\display@setup\dseries@display@setup
  % Question: should this be the default for dseries???
  \global\eq@wdCond\z@
  \@dmath[layout={M},#1]%
  \mathsurround\z@\@@math \penalty\@Mi
  \let\endmath\ends@math
  \def\premath{%
    \ifdim\lastskip<.3em \unskip
    \else\ifnum\lastpenalty<\@M \dquad\fi\fi
}%
  \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
\ignorespaces
}
```

20 File latex-localize-commands-xetex-xepersian.def

```
\ProvidesFile{latex-localize-commands-xetex-xepersian.def}[2014/02/05 v0.3 Persian localizati
\eqcommand{    }{@arstrut}
\eqcommand{  }{above}
\eqcommand{           }{abovedisplayshortskip}
\eqcommand{         }{abovedisplayskip}
\eqcommand{      }{abstractname}
\eqcommand{   }{accent}
\eqcommand{  }{active}
\eqcommand{       }{addcontentsline}
\eqcommand{       }{addpenalty}
\eqcommand{   }{address}
\eqcommand{       }{addtocontents}
\eqcommand{        }{addtocounter}
\eqcommand{      }{addtolength}
\eqcommand{      }{addvspace}
\eqcommand{       }{adjdemerits}
\eqcommand{    }{advance}
\eqcommand{       }{afterassignment}
\eqcommand{     }{aftergroup}
\eqcommand{  }{aleph}
\eqcommand{        }{aliasfontfeature}
\eqcommand{           }{aliasfontfeatureoption}
\eqcommand{   }{allowbreak}
\eqcommand{  @}{alloc@}
\eqcommand{      }{allocationnumber}
\eqcommand{        }{allowdisplaybreaks}
\eqcommand{    }{Alph}
\eqcommand{    }{alph}
\eqcommand{     }{alsoname}
\eqcommand{}{and}
\eqcommand{   }{angle}
\eqcommand{      }{appendixname}
\eqcommand{   }{approx}
\eqcommand{  }{arabic}
\eqcommand{  }{arg}
\eqcommand{     }{arrayrulecolor}
\eqcommand{         }{arraycolsep}
```

```
\eqcommand{      }{arrayrulewidth}
\eqcommand{      }{arraystretch}
\eqcommand{       }{AtBeginDocument}
\eqcommand{       }{AtEndDocument}
\eqcommand{      }{AtEndOfClass}
\eqcommand{      }{AtEndOfPackage}
\eqcommand{    }{author}
\eqcommand{    }{backmatter}
\eqcommand{    }{backslash}
\eqcommand{    }{badness}
\eqcommand{  }{bar}
\eqcommand{     }{baselineskip}
\eqcommand{       }{baselinestretch}
\eqcommand{       }{batchmode}
\eqcommand{  }{begin}
\eqcommand{    }{beginL}
\eqcommand{     }{beginR}
\eqcommand{    }{begingroup}
\eqcommand{           }{belowdisplayshortskip}
\eqcommand{         }{belowdisplayskip}
\eqcommand{  }{bf}
\eqcommand{     }{bfdefault}
\eqcommand{     }{bfseries}
\eqcommand{   }{bgroup}
\eqcommand{   }{bibitem}
\eqcommand{    }{bibliography}
\eqcommand{      }{bibliographystyle}
\eqcommand{       }{bibname}
\eqcommand{    }{bigskip}
\eqcommand{       }{bigskipamount}
\eqcommand{       }{botfigrule}
\eqcommand{     }{botmark}
\eqcommand{      }{bottompageskip}
\eqcommand{     }{bottomfraction}
\eqcommand{  }{box}
\eqcommand{       }{boxmaxdepth}
\eqcommand{  }{break}
\eqcommand{   }{bullet}
\eqcommand{ @  }{@cclv}
\eqcommand{ @  }{@cclvi}
\eqcommand{  }{caption}
\eqcommand{   }{catcode}
\eqcommand{    }{cc}
\eqcommand{     }{ccname}
\eqcommand{    }{cdot}
\eqcommand{    }{cdots}
\eqcommand{      }{centering}
\eqcommand{   }{centerline}
\eqcommand{@ }{ch@ck}
\eqcommand{  }{chapter}
\eqcommand{     }{chaptername}
\eqcommand{   }{char}
\eqcommand{      }{chardef}
\eqcommand{     }{CheckCommand}
```

```
\eqcommand{  }{cite}
\eqcommand{    }{ClassError}
\eqcommand{     }{ClassInfo}
\eqcommand{     }{ClassWarning}
\eqcommand{        }{ClassWarningNoLine}
\eqcommand{      }{cleaders}
\eqcommand{     }{cleardoublepage}
\eqcommand{    }{clearpage}
\eqcommand{   }{cline}
\eqcommand{     }{closein}
\eqcommand{     }{closeout}
\eqcommand{  }{closing}
\eqcommand{     }{clubpenalty}
\eqcommand{ }{clubsuit}
\eqcommand{         }{colbotmark}
\eqcommand{        }{colfirstmark}
\eqcommand{ }{color}
\eqcommand{    }{colorbox}
\eqcommand{         }{coltopmark}
\eqcommand{    }{columncolor}
\eqcommand{    }{columnsep}
\eqcommand{     }{columnwidth}
\eqcommand{     }{columnseprule}
\eqcommand{    }{contentsline}
\eqcommand{        }{contentsname}
\eqcommand{ }{copy}
\eqcommand{    }{copyright}
\eqcommand{  }{count}
\eqcommand{  @}{count@}
\eqcommand{     }{countdef}
\eqcommand{ }{cr}
\eqcommand{  }{crcr}
\eqcommand{    }{csname}
\eqcommand{     }{CurrentOption}
\eqcommand{      }{dashbox}
\eqcommand{    }{dashv}
\eqcommand{@   }{@date}
\eqcommand{   }{date}
\eqcommand{ }{day}
\eqcommand{        }{dblbotfigrule}
\eqcommand{      }{dblbottomfraction}
\eqcommand{        }{dblfigrule}
\eqcommand{         }{dblfloatpagefraction}
\eqcommand{         }{dblfloatsep}
\eqcommand{         }{dblfntlocatecode}
\eqcommand{          }{dbltextfloatsep}
\eqcommand{      }{dbltopfraction}
\eqcommand{      }{DeclareFixedFont}
\eqcommand{         }{DeclareGraphicsExtensions}
\eqcommand{         }{DeclareGraphicsRule}
\eqcommand{          }{DeclareOldFontCommand}
\eqcommand{     }{DeclareOption}
\eqcommand{       }{DeclareRobustCommand}
\eqcommand{       }{DeclareSymbolFont}
```

```
\eqcommand{    }{deadcycles}
\eqcommand{ }{def}
\eqcommand{  @   }{define@key}
\eqcommand{    }{definecolor}
\eqcommand{  }{deg}
\eqcommand{    }{delcode}
\eqcommand{   }{delimiter}
\eqcommand{     }{delimiterfactor}
\eqcommand{  }{depth}
\eqcommand{  }{diamondsuit}
\eqcommand{   }{dim}
\eqcommand{  }{dimen}
\eqcommand{  @}{dimen@}
\eqcommand{ @  }{dimen@i}
\eqcommand{ @  }{dimen@ii}
\eqcommand{    }{dimendef}
\eqcommand{     }{discretionary}
\eqcommand{     }{displaybreak}
\eqcommand{       }{displayindent}
\eqcommand{    }{displaystyle}
\eqcommand{    }{displaywidth}
\eqcommand{   }{divide}
\eqcommand{      }{documentclass}
\eqcommand{ }{do}
\eqcommand{     }{dospecials}
\eqcommand{  }{dot}
\eqcommand{     }{doteq}
\eqcommand{    }{dotfill}
\eqcommand{  }{dots}
\eqcommand{    }{doublebox}
\eqcommand{         }{doublerulesepcolor}
\eqcommand{       }{doublerulesep}
\eqcommand{    }{downarrow}
\eqcommand{  }{dp}
\eqcommand{   }{dump}
\eqcommand{  }{edef}
\eqcommand{    }{egroup}
\eqcommand{      }{eject}
\eqcommand{  }{else}
\eqcommand{   }{em}
\eqcommand{    }{emergencystretch}
\eqcommand{  }{emph}
\eqcommand{@  }{@empty}
\eqcommand{  }{empty}
\eqcommand{     }{emptyset}
\eqcommand{   }{end}
\eqcommand{    }{endL}
\eqcommand{     }{endR}
\eqcommand{       }{endcsname}
\eqcommand{       }{endfirsthead}
\eqcommand{    }{endfoot}
\eqcommand{   }{endgraf}
\eqcommand{     }{endgroup}
\eqcommand{    }{endhead}
```

```
\eqcommand{      }{endinput}
\eqcommand{       }{endlastfoot}
\eqcommand{       }{enlargethispage}
\eqcommand{   }{endline}
\eqcommand{      }{endlinechar}
\eqcommand{    }{enspace}
\eqcommand{    }{enskip}
\eqcommand{       }{eqcommand}
\eqcommand{      }{eqenvironment}
\eqcommand{    }{eqref}
\eqcommand{   }{errhelp}
\eqcommand{    }{errmessage}
\eqcommand{     }{errorcontextlines}
\eqcommand{       }{errorstopmode}
\eqcommand{     }{escapechar}
\eqcommand{  }{euro}
\eqcommand{    }{evensidemargin}
\eqcommand{  }{everycr}
\eqcommand{    }{everydisplay}
\eqcommand{    }{everyhbox}
\eqcommand{   }{everyjob}
\eqcommand{    }{everymath}
\eqcommand{   }{everypar}
\eqcommand{    }{everyvbox}
\eqcommand{       }{ExecuteOptions}
\eqcommand{          }{exhyphenpenalty}
\eqcommand{     }{expandafter}
\eqcommand{           }{extracolsep}
\eqcommand{@    }{@firstofone}
\eqcommand{@    }{@firstoftwo}
\eqcommand{ @ }{f@ur}
\eqcommand{    }{fam}
\eqcommand{     }{fancypage}
\eqcommand{   }{fbox}
\eqcommand{      }{fboxrule}
\eqcommand{      }{fboxsep}
\eqcommand{     }{fcolorbox}
\eqcommand{ }{fi}
\eqcommand{    }{figurename}
\eqcommand{   }{filbreak}
\eqcommand{ }{fill}
\eqcommand{    }{firstmark}
\eqcommand{  }{flat}
\eqcommand{       }{floatpagefraction}
\eqcommand{     }{floatingpenalty}
\eqcommand{       }{floatsep}
\eqcommand{      }{flushbottom}
\eqcommand{    }{fmtname}
\eqcommand{     }{fmtversion}
\eqcommand{   }{fnsymbol}
\eqcommand{  }{font}
\eqcommand{    }{fontdimen}
\eqcommand{     }{fontencoding}
\eqcommand{    }{fontfamily}
```

```
\eqcommand{   }{fontname}
\eqcommand{    }{fontseries}
\eqcommand{   }{fontshape}
\eqcommand{     }{fontsize}
\eqcommand{        }{footheight}
\eqcommand{     }{footins}
\eqcommand{    }{footnote}
\eqcommand{       }{footnotemark}
\eqcommand{     }{footnoterule}
\eqcommand{        }{footnotesep}
\eqcommand{       }{footnotesize}
\eqcommand{     }{footnotetext}
\eqcommand{         }{footskip}
\eqcommand{  }{frame}
\eqcommand{    }{framebox}
\eqcommand{         }{frenchspacing}
\eqcommand{    }{frontmatter}
\eqcommand{    }{futurelet}
\eqcommand{@     }{@gobble}
\eqcommand{@      }{@gobbletwo}
\eqcommand{@       }{@gobblefour}
\eqcommand{@   }{@gtempa}
\eqcommand{@   }{@gtempb}
\eqcommand{  }{gdef}
\eqcommand{     }{GenericInfo}
\eqcommand{     }{GenericWarning}
\eqcommand{    }{GenericError}
\eqcommand{  }{global}
\eqcommand{     }{globaldefs}
\eqcommand{    }{glossary}
\eqcommand{     }{glossaryentry}
\eqcommand{   }{goodbreak}
\eqcommand{    }{graphpaper}
\eqcommand{    }{guillemotleft}
\eqcommand{     }{guillemotright}
\eqcommand{     }{guilsinglleft}
\eqcommand{      }{guilsinglright}
\eqcommand{   }{halign}
\eqcommand{   }{hang}
\eqcommand{    }{hangafter}
\eqcommand{      }{hangindent}
\eqcommand{    }{hbadness}
\eqcommand{   }{hbox}
\eqcommand{       }{headheight}
\eqcommand{       }{headsep}
\eqcommand{    }{headtoname}
\eqcommand{ }{heartsuit}
\eqcommand{   }{height}
\eqcommand{  }{hfil}
\eqcommand{  }{hfill}
\eqcommand{   }{hfilneg}
\eqcommand{    }{hfuzz}
\eqcommand{     }{hideskip}
\eqcommand{    }{hidewidth}
```

```
\bidi@csletcs{  }{hline}% this is an exception
\eqcommand{   }{hoffset}
\eqcommand{   }{holdinginserts}
\eqcommand{     }{hrboxsep}
\eqcommand{  }{hrule}
\eqcommand{   }{hrulefill}
\eqcommand{   }{hsize}
\eqcommand{   }{hskip}
\eqcommand{   }{hspace}
\eqcommand{   }{hss}
\eqcommand{   }{ht}
\eqcommand{  }{huge}
\eqcommand{   }{Huge}
\eqcommand{    }{hyperlink}
\eqcommand{      }{hypersetup}
\eqcommand{   }{hypertarget}
\eqcommand{    }{hyphenation}
\eqcommand{     }{hyphenchar}
\eqcommand{       }{hyphenpenalty}
\eqcommand{@         }{@ifclassloaded}
\eqcommand{@    }{@ifdefinable}
\eqcommand{@      }{@ifnextchar}
\eqcommand{@        }{@ifpackageloaded}
\eqcommand{@    }{@ifstar}
\eqcommand{@      }{@ifundefined}
\eqcommand{ }{if}
\eqcommand{   @ }{if@tempswa}
\eqcommand{    }{ifcase}
\eqcommand{   }{ifcat}
\eqcommand{     }{ifdefined}
\eqcommand{   }{ifdim}
\eqcommand{     }{ifeof}
\eqcommand{  }{iff}
\eqcommand{    }{iffalse}
\eqcommand{       }{IfFileExists}
\eqcommand{    }{ifhbox}
\eqcommand{    }{ifhmode}
\eqcommand{    }{ifinner}
\eqcommand{      }{ifmmode}
\eqcommand{   }{ifnum}
\eqcommand{   }{ifodd}
\eqcommand{      }{ifthenelse}
\eqcommand{   }{iftrue}
\eqcommand{    }{ifvbox}
\eqcommand{    }{ifvmode}
\eqcommand{   }{ifvoid}
\eqcommand{   }{ifx}
\eqcommand{           }{ignorespaces}
\eqcommand{  }{immediate}
\eqcommand{  }{include}
\eqcommand{    }{includegraphics}
\eqcommand{    }{includeonly}
\eqcommand{    }{indent}
\eqcommand{    }{index}
```

```
\eqcommand{    }{indexentry}
\eqcommand{     }{indexname}
\eqcommand{     }{indexspace}
\eqcommand{   }{input}
\eqcommand{         }{InputIfFileExists}
\eqcommand{       }{inputlineno}
\eqcommand{  }{insert}
\eqcommand{    }{insertpenalties}
\eqcommand{           }{interfootnotelinepenalty}
\eqcommand{          }{interdisplaylinepenalty}
\eqcommand{       }{interlinepenalty}
\eqcommand{    }{intertext}
\eqcommand{        }{intertextsep}
\eqcommand{  }{invisible}
\eqcommand{    }{itdefault}
\eqcommand{     }{itshape}
\eqcommand{  }{item}
\eqcommand{      }{itemindent}
\eqcommand{     }{itemsep}
\eqcommand{    }{iterate}
\eqcommand{   }{itshape}
\eqcommand{    }{jobname}
\eqcommand{  }{jot}
\eqcommand{  }{kern}
\eqcommand{  }{kill}
\eqcommand{   }{label}
\eqcommand{       }{labelenumi}
\eqcommand{       }{labelenumii}
\eqcommand{       }{labelenumiii}
\eqcommand{        }{labelenumiv}
\eqcommand{      }{labelitemi}
\eqcommand{      }{labelitemii}
\eqcommand{      }{labelitemiii}
\eqcommand{       }{labelitemiv}
\eqcommand{      }{labelsep}
\eqcommand{     }{labelwidth}
\eqcommand{  }{language}
\eqcommand{  }{large}
\eqcommand{   }{Large}
\eqcommand{    }{LARGE}
\eqcommand{     }{lastbox}
\eqcommand{     }{lastkern}
\eqcommand{     }{lastpenalty}
\eqcommand{     }{lastskip}
\eqcommand{  }{LaTeX}
\eqcommand{   }{LaTeXe}
\eqcommand{   }{lccode}
\eqcommand{   }{ldots}
\eqcommand{   }{leaders}
\eqcommand{  }{leavevmode}
\eqcommand{ }{left}
\eqcommand{    }{leftmargin}
\eqcommand{     }{leftmargini}
\eqcommand{     }{leftmarginii}
```

```
\eqcommand{     }{leftmarginiii}
\eqcommand{      }{leftmarginiv}
\eqcommand{     }{leftmarginv}
\eqcommand{     }{leftmarginvi}
\eqcommand{    }{leftmark}
\eqcommand{     }{leftpageskip}
\eqcommand{        }{leftskip}
\eqcommand{   }{let}
\eqcommand{  }{line}
\eqcommand{   }{linebreak}
\eqcommand{    }{linepenalty}
\eqcommand{     }{lineskip}
\eqcommand{     }{lineskiplimit}
\eqcommand{      }{linespread}
\eqcommand{    }{linethickness}
\eqcommand{     }{linewidth}
\eqcommand{         }{listfigurename}
\eqcommand{       }{listfiles}
\eqcommand{     }{listoffigures}
\eqcommand{     }{listoftables}
\eqcommand{        }{listparindent}
\eqcommand{        }{listtablename}
\eqcommand{     }{LoadClass}
\eqcommand{         }{LoadClassWithOptions}
\eqcommand{  }{location}
\eqcommand{  }{long}
\eqcommand{    }{looseness}
\eqcommand{       }{lower}
\eqcommand{@  }{@makeother}
\eqcommand{@  }{@m}
\eqcommand{  @ }{@M}
\eqcommand{   @ }{@Mi}
\eqcommand{   @ }{@Mii}
\eqcommand{   @ }{@Miii}
\eqcommand{    @ }{@Miv}
\eqcommand{  @  }{@MM}
\eqcommand{ @ }{m@ne}
\eqcommand{     }{mag}
\eqcommand{  }{magstep}
\eqcommand{    }{magstephalf}
\eqcommand{     }{mainmatter}
\eqcommand{   }{makeatletter}
\eqcommand{    }{makeatother}
\eqcommand{     }{makebox}
\eqcommand{     }{makeglossary}
\eqcommand{     }{makeindex}
\eqcommand{     }{makelabel}
\eqcommand{      }{makelabels}
\eqcommand{       }{MakeLowercase}
\eqcommand{    }{maketitle}
\eqcommand{       }{MakeUppercase}
\eqcommand{    }{marginpar}
\eqcommand{       }{marginparpush}
\eqcommand{       }{marginparsep}
```

```
\eqcommand{      }{marginparwidth}
\eqcommand{   }{mark}
\eqcommand{       }{markboth}
\eqcommand{      }{markright}
\eqcommand{     }{mathaccent}
\eqcommand{     }{mathchar}
\eqcommand{        }{mathchardef}
\eqcommand{    }{mathcode}
\eqcommand{     }{mathrm}
\eqcommand{      }{maxdeadcycles}
\eqcommand{       }{maxdepth}
\eqcommand{    }{maxdimen}
\eqcommand{   }{mbox}
\eqcommand{     }{mdseries}
\eqcommand{  }{meaning}
\eqcommand{  }{mediumseries}
\eqcommand{        }{medmuskip}
\eqcommand{    }{medskip}
\eqcommand{       }{medskipamount}
\eqcommand{     }{medspace}
\eqcommand{  }{message}
\eqcommand{    }{MessageBreak}
\eqcommand{        }{minrowclearance}
\eqcommand{     }{mkern}
\eqcommand{  }{month}
\eqcommand{     }{moveleft}
\eqcommand{      }{moveright}
\eqcommand{     }{mskip}
\eqcommand{ @ }{m@th}
\eqcommand{    }{multicolumn}
\eqcommand{  }{multiply}
\eqcommand{    }{multispan}
\eqcommand{    }{muskip}
\eqcommand{       }{muskipdef}
\eqcommand{@   }{@namedef}
\eqcommand{@     }{@nameuse}
\eqcommand{ @}{@ne}
\eqcommand{  }{name}
\eqcommand{   }{natural}
\eqcommand{   }{nearrow}
\eqcommand{    }{nearrower}
\eqcommand{        }{NeedsTeXFormat}
\eqcommand{  }{neg}
\eqcommand{       }{negmedspace}
\eqcommand{      }{negthickspace}
\eqcommand{      }{negthinspace}
\eqcommand{   }{newboolean}
\eqcommand{    }{newbox}
\eqcommand{    }{newcommand}
\eqcommand{    }{newcount}
\eqcommand{      }{newcounter}
\eqcommand{    }{newdimen}
\eqcommand{   }{newenvironment}
\eqcommand{      }{newfam}
```

```
\eqcommand{   }{newfont}
\eqcommand{    }{newhelp}
\eqcommand{    }{newinsert}
\eqcommand{     }{newlabel}
\eqcommand{       }{newlength}
\eqcommand{    }{newline}
\eqcommand{       }{newlinechar}
\eqcommand{       }{newmuskip}
\eqcommand{     }{newpage}
\eqcommand{     }{newread}
\eqcommand{       }{newsavebox}
\eqcommand{     }{newskip}
\eqcommand{     }{newtheorem}
\eqcommand{    }{newtoks}
\eqcommand{     }{newwrite}
\eqcommand{   }{noalign}
\eqcommand{  }{nobreak}
\eqcommand{      }{nobreakspace}
\eqcommand{    }{nocite}
\eqcommand{   }{noexpand}
\eqcommand{     }{nofiles}
\eqcommand{      }{noindent}
\eqcommand{     }{nointerlineskip}
\eqcommand{   }{nolimits}
\eqcommand{    }{nolinebreak}
\eqcommand{        }{nonstopmode}
\eqcommand{         }{nonfrenchspacing}
\eqcommand{     }{nonumber}
\eqcommand{    }{nopagebreak}
\eqcommand{       }{normalbaselines}
\eqcommand{        }{normalbaselineskip}
\eqcommand{    }{normalcolor}
\eqcommand{    }{normalfont}
\eqcommand{        }{normallineskip}
\eqcommand{         }{normallineskiplimit}
\eqcommand{      }{normalmarginpar}
\eqcommand{     }{normalsize}
\eqcommand{     }{notag}
\eqcommand{  }{null}
\eqcommand{    }{nullfont}
\eqcommand{  }{number}
\eqcommand{    }{numberline}
\eqcommand{     }{numberwithin}
\eqcommand{      }{@evenfoot}
\eqcommand{      }{@evenhead}
\eqcommand{      }{@oddfoot}
\eqcommand{      }{@oddhead}
\eqcommand{       }{@outeqntrue}
\eqcommand{        }{@outeqnfalse}
\eqcommand{    }{obeylines}
\eqcommand{    }{obeyspaces}
\eqcommand{    }{oddsidemargin}
\eqcommand{      }{offinterlineskip}
\eqcommand{  }{omit}
```

```
\eqcommand{@        }{@onlypreamble}
\eqcommand{    }{onecolumn}
\eqcommand{       }{onlynotes}
\eqcommand{       }{onlyslides}
\eqcommand{      }{openin}
\eqcommand{      }{openout}
\eqcommand{        }{OptionNotUsed}
\eqcommand{ }{or}
\eqcommand{   }{outer}
\eqcommand{     }{output}
\eqcommand{        }{outputpenalty}
\eqcommand{      }{overfullrule}
\eqcommand{@         }{@preamblecmds}
\eqcommand{@ }{p@}
\eqcommand{    }{PackageError}
\eqcommand{     }{PackageInfo}
\eqcommand{     }{PackageWarning}
\eqcommand{        }{PackageWarningNoLine}
\eqcommand{    }{pagebreak}
\eqcommand{    }{pagecolor}
\eqcommand{    }{pagedepth}
\eqcommand{      }{pagefilllstretch}
\eqcommand{      }{pagefillstretch}
\eqcommand{     }{pagefilstretch}
\eqcommand{     }{pagegoal}
\eqcommand{    }{pagename}
\eqcommand{        }{pagenumbering}
\eqcommand{     }{pageref}
\eqcommand{      }{pagerulewidth}
\eqcommand{      }{pageshrink}
\eqcommand{    }{pagestretch}
\eqcommand{    }{pagestyle}
\eqcommand{    }{pagetotal}
\eqcommand{      }{paperheight}
\eqcommand{     }{paperwidth}
\bidi@csdefcs{  }{par}% this is an exception since \par is redefined only in some circumstanc
\eqcommand{     }{paragraph}
\eqcommand{   }{parallel}
\eqcommand{     }{parbox}
\eqcommand{      }{parfillskip}
\eqcommand{       }{parindent}
\eqcommand{       }{parsep}
\eqcommand{    }{parshape}
\eqcommand{     }{parskip}
\eqcommand{  }{part}
\eqcommand{     }{partname}
\eqcommand{         }{partopsep}
\eqcommand{        }{PassOptionToClass}
\eqcommand{        }{PassOptionToPackage}
\eqcommand{  }{path}
\eqcommand{    }{patterns}
\eqcommand{  }{pausing}
\eqcommand{   }{penalty}
\eqcommand{  }{phantom}
```

```
\eqcommand{     }{poptabs}
\eqcommand{       }{postdisplaypenalty}
\eqcommand{      }{predisplaydirection}
\eqcommand{       }{predisplaypenalty}
\eqcommand{        }{predisplaysize}
\eqcommand{       }{pretolerance}
\eqcommand{    }{prevdepth}
\eqcommand{    }{prevgraf}
\eqcommand{       }{printindex}
\eqcommand{        }{ProcessOptions}
\eqcommand{   }{protect}
\eqcommand{     }{providecommand}
\eqcommand{       }{ProvidesClass}
\eqcommand{         }{ProvidesFile}
\eqcommand{       }{ProvidesPackage}
\eqcommand{    }{pushtabs}
\eqcommand{  }{quad}
\eqcommand{   }{qquad}
\eqcommand{@        }{@outputpagerestore}
\eqcommand{    }{radical}
\eqcommand{       }{raggedbottom}
\eqcommand{      }{raggedleft}
\eqcommand{     }{raggedright}
\eqcommand{      }{raise}
\eqcommand{   }{raisebox}
\eqcommand{     }{raisetag}
\eqcommand{   }{rangle}
\eqcommand{  }{rceil}
\eqcommand{   }{read}
\eqcommand{  }{ref}
\eqcommand{     }{reflectbox}
\eqcommand{     }{refname}
\eqcommand{       }{refstepcounter}
\eqcommand{  }{relax}
\eqcommand{       }{removelastskip}
\eqcommand{     }{renewcommand}
\eqcommand{    }{renewenvironment}
\eqcommand{      }{RequirePackage}
\eqcommand{          }{RequirePackageWithOptions}
\eqcommand{     }{resizebox}
\eqcommand{       }{reversemarginpar}
\eqcommand{  }{rfloor}
\eqcommand{  }{right}
\eqcommand{     }{rightmargin}
\eqcommand{     }{rightmark}
\eqcommand{     }{rightpageskip}
\eqcommand{       }{rightskip}
\eqcommand{    }{rmdefault}
\eqcommand{     }{rmfamily}
\eqcommand{    }{Roman}
\eqcommand{    }{roman}
\eqcommand{    }{romannumeral}
\eqcommand{     }{rotatebox}
\eqcommand{    }{rowcolor}
```

```
\eqcommand{ }{rule}
\eqcommand{@    }{@secondoftwo}
\eqcommand{@   }{@spaces}
\eqcommand{    }{samepage}
\eqcommand{     }{savebox}
\eqcommand{   }{sbox}
\eqcommand{     }{scalebox}
\eqcommand{       }{scdefault}
\eqcommand{     }{scshape}
\eqcommand{     }{setkeys}
\eqcommand{    }{scriptfont}
\eqcommand{      }{scriptscriptfont}
\eqcommand{        }{scriptscriptstyle}
\eqcommand{      }{scriptsize}
\eqcommand{     }{scripstyle}
\eqcommand{     }{scrollmode}
\eqcommand{  }{section}
\eqcommand{     }{secdef}
\eqcommand{   }{see}
\eqcommand{     }{seealso}
\eqcommand{     }{seename}
\eqcommand{    }{selectfont}
\eqcommand{     }{setboolean}
\eqcommand{   }{setbox}
\eqcommand{       }{setcounter}
\eqcommand{    }{setlength}
\eqcommand{     }{setminus}
\eqcommand{       }{SetSymbolFont}
\eqcommand{     }{settodepth}
\eqcommand{       }{settoheight}
\eqcommand{         }{settowidth}
\eqcommand{      }{sfcode}
\eqcommand{    }{sfdefault}
\eqcommand{      }{sffamily}
\eqcommand{      }{shadowbox}
\eqcommand{  }{sharp}
\eqcommand{   }{shipout}
\eqcommand{     }{shortstack}
\eqcommand{    }{show}
\eqcommand{       }{showbox}
\eqcommand{        }{showboxbreadth}
\eqcommand{      }{showboxdepth}
\eqcommand{        }{showlists}
\eqcommand{        }{showthe}
\eqcommand{      }{simplefontmode}
\eqcommand{   @}{sixt@@n}
\eqcommand{     }{skewchar}
\eqcommand{   }{skip}
\eqcommand{  @}{skip@}
\eqcommand{     }{skipdef}
\eqcommand{    }{sl}
\eqcommand{    }{sldefault}
\eqcommand{     }{slshape}
\eqcommand{    }{sloppy}
```

```
\eqcommand{    }{slshape}
\eqcommand{  }{small}
\eqcommand{    }{smallskip}
\eqcommand{       }{smallskipamount}
\eqcommand{  }{smash}
\eqcommand{   }{smile}
\eqcommand{       }{snglfntlocatecode}
\eqcommand{  }{space}
\eqcommand{     }{spacefactor}
\eqcommand{     }{spaceskip}
\eqcommand{  }{spadesuit}
\eqcommand{   }{span}
\eqcommand{  }{special}
\eqcommand{       }{splitmaxdepth}
\eqcommand{       }{splittopskip}
\eqcommand{   }{star}
\eqcommand{     }{stepcounter}
\eqcommand{  }{stretch}
\eqcommand{  }{string}
\eqcommand{  }{strut}
\eqcommand{    }{strutbox}
\eqcommand{   }{subitem}
\eqcommand{      }{subparagraph}
\eqcommand{    }{subsection}
\eqcommand{    }{substack}
\eqcommand{     }{subsubitem}
\eqcommand{     }{subsubsection}
\eqcommand{     }{subset}
\eqcommand{      }{subseteq}
\eqcommand{     }{supereject}
\eqcommand{      }{suppressfloats}
\eqcommand{@   }{@tempa}
\eqcommand{@   }{@tempb}
\eqcommand{@   }{@tempc}
\eqcommand{@   }{@tempd}
\eqcommand{@   }{@tempe}
\eqcommand{@    }{@tempboxa}
\eqcommand{@   }{@tempcnta}
\eqcommand{@   }{@tempcntb}
\eqcommand{@   }{@tempdima}
\eqcommand{@   }{@tempdimb}
\eqcommand{@   }{@tempdimc}
\eqcommand{@   }{@tempskipa}
\eqcommand{@   }{@tempskipb}
\eqcommand{@      }{@tempswafalse}
\eqcommand{@     }{@tempswatrue}
\eqcommand{@   }{@temptokena}
\eqcommand{     }{@thefnmark}
\eqcommand{@    }{@thirdofthree}
\eqcommand{      }{tabbingsep}
\eqcommand{       }{tabcolsep}
\eqcommand{     }{tableofcontents}
\eqcommand{     }{tablename}
\eqcommand{      }{tabskip}
```

```
\eqcommand{     }{tabularnewline}
\eqcommand{   }{tag}
\eqcommand{  }{telephone}
\eqcommand{ }{TeX}
\eqcommand{  }{text}
\eqcommand{     }{textbullet}
\eqcommand{   }{textfont}
\eqcommand{    }{textemdash}
\eqcommand{    }{textendash}
\eqcommand{       }{textexclamdown}
\eqcommand{      }{textperiodcentered}
\eqcommand{       }{textquestiondown}
\eqcommand{      }{textquotedblleft}
\eqcommand{       }{textquotedblright}
\eqcommand{     }{textquoteleft}
\eqcommand{      }{textquoteright}
\eqcommand{       }{textvisiblespace}
\eqcommand{      }{textbackslash}
\eqcommand{    }{textbar}
\eqcommand{     }{textgreater}
\eqcommand{    }{textless}
\eqcommand{    }{textbf}
\eqcommand{    }{textcircled}
\eqcommand{   }{textcolor}
\eqcommand{        }{textcompwordmark}
\eqcommand{       }{textfloatsep}
\eqcommand{    }{textfraction}
\eqcommand{     }{textheight}
\eqcommand{     }{textindent}
\eqcommand{     }{textit}
\eqcommand{    }{textmd}
\eqcommand{    }{textnormal}
\eqcommand{    }{textregistered}
\eqcommand{    }{textrm}
\eqcommand{      }{textsc}
\eqcommand{     }{textsf}
\eqcommand{     }{textsl}
\eqcommand{    }{textstyle}
\eqcommand{       }{textsuperscript}
\eqcommand{       }{texttrademark}
\eqcommand{    }{texttt}
\eqcommand{     }{textup}
\eqcommand{    }{textwidth}
\eqcommand{      }{thanks}
\eqcommand{   }{the}
\eqcommand{     }{thempfn}
\eqcommand{    }{thicklines}
\eqcommand{       }{thickmuskip}
\eqcommand{      }{thinmuskip}
\eqcommand{    }{thickspace}
\eqcommand{    }{thinlines}
\eqcommand{    }{thinspace}
\eqcommand{      }{thisfancypage}
\eqcommand{     }{thispagestyle}
```

```
\eqcommand{ @}{thr@@}
\eqcommand{ }{tilde}
\eqcommand{  }{tiny}
\eqcommand{  }{time}
\eqcommand{   }{times}
\eqcommand{   }{title}
\eqcommand{ }{to}
\eqcommand{   }{today}
\eqcommand{  }{toks}
\eqcommand{    }{toksdef}
\eqcommand{     }{tolerance}
\eqcommand{  }{top}
\eqcommand{      }{topfigrule}
\eqcommand{    }{topfraction}
\eqcommand{     }{topmargin}
\eqcommand{     }{topmark}
\eqcommand{      }{toppageskip}
\eqcommand{       }{topsep}
\eqcommand{     }{topskip}
\eqcommand{    }{totalheight}
\eqcommand{    }{tracingall}
\eqcommand{      }{tracingcommands}
\eqcommand{     }{tracinglostchars}
\eqcommand{       }{tracingmacros}
\eqcommand{      }{tracingonline}
\eqcommand{       }{tracingoutput}
\eqcommand{      }{tracingpages}
\eqcommand{      }{tracingparagraphs}
\eqcommand{        }{tracingrestores}
\eqcommand{      }{tracingstats}
\eqcommand{  }{triangle}
\eqcommand{     }{ttdefault}
\eqcommand{    }{ttfamily}
\eqcommand{ @}{tw@}
\eqcommand{   }{twocolumn}
\eqcommand{   }{typein}
\eqcommand{   }{typeout}
\eqcommand{   }{uccode}
\eqcommand{      }{uchyph}
\eqcommand{  }{underline}
\eqcommand{    }{unhbox}
\eqcommand{   }{unhcopy}
\eqcommand{    }{unitlength}
\eqcommand{     }{unkern}
\eqcommand{     }{unpenalty}
\eqcommand{     }{unskip}
\eqcommand{    }{unvbox}
\eqcommand{   }{unvcopy}
\eqcommand{       }{updefault}
\eqcommand{     }{upshape}
\eqcommand{   }{usebox}
\eqcommand{     }{usecounter}
\eqcommand{    }{usefont}
\eqcommand{    }{usepackage}
```

```
\eqcommand{@      }{@vobeyspaces}
\eqcommand{@  }{@void}
\eqcommand{    }{vadjust}
\eqcommand{   }{valign}
\eqcommand{       }{value}
\eqcommand{     }{vbadness}
\eqcommand{   }{vbox}
\eqcommand{    }{vcenter}
\eqcommand{    }{verb}
\eqcommand{  }{vfil}
\eqcommand{   }{vfill}
\eqcommand{    }{vfilneg}
\eqcommand{     }{vfuzz}
\eqcommand{    }{visible}
\eqcommand{    }{vline}
\eqcommand{    }{voffset}
\eqcommand{   @ }{voidb@x}
\eqcommand{      }{vpageref}
\eqcommand{     }{vrboxsep}
\eqcommand{    }{vref}
\eqcommand{  }{vrule}
\eqcommand{    }{vsize}
\eqcommand{    }{vskip}
\eqcommand{   }{vspace}
\eqcommand{   }{vsplit}
\eqcommand{   }{vss}
\eqcommand{    }{vtop}
\eqcommand{  }{wd}
\eqcommand{    }{whiledo}
\eqcommand{    }{widehat}
\eqcommand{   }{widetilde}
\eqcommand{      }{widowpenalty}
\eqcommand{  }{width}
\eqcommand{     }{wlog}
\eqcommand{   }{write}
\eqcommand{@     }{@xobeysp}
\eqcommand{ @ }{@xxxii}
\eqcommand{  }{xdef}
\eqcommand{       }{xleaders}
\eqcommand{         }{xspaceskip}
\eqcommand{  }{year}
\eqcommand{@ }{z@}
\eqcommand{@    }{z@skip}
```

21 File color-localize-xetex-xepersian.def

```
color}        \-localize-xetex-xepersian.def}[2011/03/01 v0.1 localizing color package for Xe
0}{rgb}{  }     \0,,0}
1}{rgb}{  }     \1,,1}
1}{rgb}{  }     \0,,0}
0}{rgb}{  }     \1,,0}
0}{rgb}{  }     \0,,1}
1}{cmyk}{   }     \0,,0,0}
0}{cmyk}{  }     \1,,0,0}
```

```
0}{cmyk}{  }     \0,,1,0}
```

22 File xepersian-localize-commands-xetex-xepersian.def

```
\ProvidesFile{xepersian-localize-commands-xetex-xepersian.def}[2012/07/25 v0.2 Persian locali
\eqcommand{        }{autofootnoterule}
\eqcommand{          }{AutoMathDigits}
\eqcommand{         }{DefaultMathDigits}
\eqcommand{  @   }{keyval@eq@alias@key}
\eqcommand{       }{deflatinfont}
\eqcommand{       }{defpersianfont}
\eqcommand{    }{hboxL}
\eqcommand{    }{hboxR}
\eqcommand{     }{Latincite}
\eqcommand{    }{latinfont}
\eqcommand{     }{latintoday}
\eqcommand{      }{leftfootnoterule}
\eqcommand{    }{lr}
\eqcommand{    }{LRE}
\eqcommand{     }{LTRdblcol}
\eqcommand{   }{LTRfootnote}
\eqcommand{     }{LTRfootnotetext}
\eqcommand{      }{LTRthanks}
\eqcommand{    }{persianday}
\eqcommand{    }{persianfont}
\eqcommand{         }{PersianMathDigits}
\eqcommand{    }{persianmonth}
\eqcommand{    }{persianyear}
\eqcommand{          }{plq}
\eqcommand{           }{prq}
\eqcommand{       }{rightfootnoterule}
\eqcommand{    }{rl}
\eqcommand{    }{RLE}
\eqcommand{      }{RTLdblcol}
\eqcommand{   }{RTLfootnote}
\eqcommand{     }{RTLfootnotetext}
\eqcommand{      }{RTLthanks}
\eqcommand{@    }{@SepMark}
\eqcommand{    }{SepMark}
\eqcommand{         }{setdefaultbibitems}
\eqcommand{         }{setdefaultmarginpar}
\eqcommand{           }{setmathdigitfont}
\eqcommand{        }{setfootnoteLR}
\eqcommand{         }{setfootnoteRL}
\eqcommand{         }{setlatintextfont}
\eqcommand{     }{setLTR}
\eqcommand{        }{setLTRbibitems}
\eqcommand{        }{setLTRmarginpar}
\eqcommand{      }{setRTL}
\eqcommand{         }{setRTLbibitems}
\eqcommand{         }{setRTLmarginpar}
\eqcommand{      }{settextfont}
\eqcommand{          }{textwidthfootnoterule}
\eqcommand{          }{twocolumnstableofcontents}
```

```
\eqcommand{         }{unsetfootnoteRL}
\eqcommand{      }{unsetLTR}
\eqcommand{       }{unsetRTL}
\eqcommand{     }{vboxL}
\eqcommand{      }{vboxR}
\eqcommand{   }{XeLaTeX}
\eqcommand{    }{XePersian}
\eqcommand{      }{xepersianversion}
\eqcommand{         }{xepersiandate}
\eqcommand{  }{XeTeX}
```

23 File enumerate-xetex-xepersian.def

```
\ProvidesFile{enumerate-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for enumer
\def\@enloop@{%
  \ifx entemp@\          \def\@tempa{\@enLabel\harfi  }\else
  \ifx entemp@\          \def\@tempa{\@enLabel\adadi  }\else
  \ifx entemp@\          \def\@tempa{\@enLabel\tartibi  }\else
  \ifx A\@entemp         \def\@tempa{\@enLabel\Alph  }\else
  \ifx a\@entemp         \def\@tempa{\@enLabel\alph  }\else
  \ifx i\@entemp         \def\@tempa{\@enLabel\roman }\else
  \ifx I\@entemp         \def\@tempa{\@enLabel\Roman }\else
  \ifx 1\@entemp         \def\@tempa{\@enLabel\arabic}\else
  \ifx \@sptoken\@entemp \let\@tempa\@enSpace         \else
  \ifx \bgroup\@entemp   \let\@tempa\@enGroup         \else
  \ifx \@enum@\@entemp   \let\@tempa\@gobble          \else
                         \let\@tempa\@enOther
                         \@enhook
            \fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi
  \@tempa}
```

24 File enumitem-xetex-xepersian.def

```
\ProvidesFile{enumitem-xetex-xepersian.def}[2017/09/06 v0.1 xepersian adaptations for enumite
\AddEnumerateCounter*\tartibi\@tartibi{999999999}
\AddEnumerateCounter*\adadi\@adadi{999999999}
\AddEnumerateCounter\harfi\@harfi{ }
\AddEnumerateCounter\Abjad\@Abjad{ }
\AddEnumerateCounter\abjad\@abjad{  }
\SetEnumerateShortLabel{  }{\tartibi*}
\SetEnumerateShortLabel{ }{\adadi*}
\SetEnumerateShortLabel{ }{\harfi*}
\SetEnumerateShortLabel{ }{\Abjad*}
\SetEnumerateShortLabel{ }{\abjad*}
```

25 File latex-localize-environments-xetex-xepersian.def

```
\ProvidesFile{latex-localize-environments-xetex-xepersian.def}[2022/06/06 v0.3 Persian locali
\eqenvironment{   }{abstract}
\eqenvironment{   }{appendix}
\eqenvironment{   }{array}
\eqenvironment{    }{center}
\eqenvironment{   }{description}
\eqenvironment{      }{displaymath}
```

```
\EqEnvironment{   }{document}
\eqenvironment{   }{enumerate}
\eqenvironment{  }{figure}
\eqenvironment{  *}{figure*}
\eqenvironment{      }{filecontents}
\eqenvironment{      *}{filecontents*}
\eqenvironment{   }{flushleft}
\eqenvironment{    }{flushright}
\eqenvironment{   }{itemize}
\eqenvironment{  }{letter}
\eqenvironment{  }{list}
\eqenvironment{    }{longtable}
\eqenvironment{   }{lrbox}
\eqenvironment{   }{math}
\eqenvironment{    }{matrix}
\eqenvironment{     }{minipage}
\eqenvironment{   }{multline}
\eqenvironment{    }{note}
\eqenvironment{    }{overlay}
\eqenvironment{   }{picture}
\eqenvironment{    }{quotation}
\eqenvironment{  }{quote}
\eqenvironment{    }{slide}
\eqenvironment{     }{sloppypar}
\eqenvironment{   }{split}
\eqenvironment{     }{subarray}
\eqenvironment{    }{tabbing}
\eqenvironment{  }{table}
\eqenvironment{  *}{table*}
\eqenvironment{   }{tabular}
\eqenvironment{   *}{tabular*}
\eqenvironment{   }{thebibliography}
\eqenvironment{      }{theindex}
\eqenvironment{     }{titlepage}
\eqenvironment{    }{trivlist}
\eqenvironment{  }{verse}
```

26 File xepersian-localize-environments-xetex-xepersian.def

```
\ProvidesFile{xepersian-localize-environments-xetex-xepersian.def}[2010/07/25 v0.1 Persian lo
\eqenvironment{   }{latin}
\eqenvironment{   }{LTR}
\eqenvironment{      }{LTRitems}
\eqenvironment{   }{modernpoem}
\eqenvironment{   *}{modernpoem*}
\eqenvironment{   }{persian}
\eqenvironment{    }{RTL}
\eqenvironment{       }{RTLitems}
\eqenvironment{    }{traditionalpoem}
\eqenvironment{    *}{traditionalpoem*}
```

27 File extarticle-xetex-xepersian.def

```
\ProvidesFile{extarticle-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for extar
```

```
\renewcommand\thepart          {\@tartibi\c@part}
\renewcommand\appendix{\par
  \setcounter{section}{0}%
  \setcounter{subsection}{0}%
  \gdef\thesection{\@harfi\c@section}}
```

28 File extbook-xetex-xepersian.def

```
\ProvidesFile{extbook-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for extbook
\renewcommand\frontmatter{%
    \cleardoublepage
  \@mainmatterfalse
  \pagenumbering{harfi}}
\renewcommand \thepart {\@tartibi\c@part}
\renewcommand\appendix{\par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}
}%end appendix
```

29 File extrafootnotefeatures-xetex-bidi-xetex-xepersian.def

```
\ProvidesFile{extrafootnotefeatures-xetex-bidi-xetex-xepersian.def}[2012/01/01 v0.2 xepersian
\renewcommand{\foottextfont}{\footnotesize\if@RTL@footnote\else\resetlatinfont\fi}
\renewcommand{\LTRfoottextfont}{\footnotesize\resetlatinfont}
\renewcommand{\RTLfoottextfont}{\footnotesize\setpersianfont}
```

30 File extreport-xetex-xepersian.def

```
\ProvidesFile{extreport-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for extrep
\renewcommand\thepart          {\@tartibi\c@part}
\renewcommand\appendix{\par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}}
```

31 File fancyref-xetex-xepersian.def

```
\ProvidesFile{fancyref-xetex-xepersian.def}[2018/09/29 v0.1 xepersian adaptations for fancyre
\renewcommand*{\Frefchapname}{\chaptername}
\renewcommand*{\Frefenumname}{%
  \if@RTL
%
  \else
    Item%
  \fi
}
\renewcommand*{\Frefeqname}{%
  \if@RTL
%
  \else
    Equation%
```

```
  \fi
}
\renewcommand*{\Freffigname}{\figurename}
\renewcommand*{\Freffnname}{%
  \if@RTL
%
  \else
    Footnote%
  \fi
}
\renewcommand*{\Frefonname}{%
  \if@RTL
%
  \else
    On%
  \fi
}
\renewcommand*{\Frefpgname}{\pagename}
\renewcommand*{\Frefsecname}{%
  \if@RTL
%
  \else
    Section%
  \fi
}
\renewcommand*{\Frefseename}{%
  \if@RTL
%
  \else
    See%
  \fi
}
\renewcommand*{\Freftabname}{\tablename}
\renewcommand*{\Freffigshortname}{%
  \if@RTL
    \Freffigname
  \else
    Fig.%
  \fi
}
\renewcommand*{\Frefpgshortname}{%
  \if@RTL
    \Frefpgname
  \else
    P.%
  \fi
}
\renewcommand*{\Freftabshortname}{%
  \if@RTL
    \tablename
  \else
    Tab.%
  \fi
}
```

```
\renewcommand*{\frefchapname}{%
  \if@RTL
    \Frefchapname
  \else
    \MakeLowercase{\Frefchapname}%
\fi
}
\renewcommand*{\frefenumname}{%
  \if@RTL
    \Frefenumname
  \else
    \MakeLowercase{\Frefenumname}%
  \fi
}
\renewcommand*{\frefeqname}{%
  \if@RTL
    \Frefeqname
  \else
    \MakeLowercase{\Frefeqname}%
  \fi
}
\renewcommand*{\freffigname}{%
  \if@RTL
    \Freffigname
  \else
    \MakeLowercase{\Freffigname}%
  \fi
}
\renewcommand*{\freffnname}{%
  \if@RTL
    \Freffnname
  \else
    \MakeLowercase{\Freffnname}%
  \fi
}
\renewcommand*{\frefonname}{%
  \if@RTL
    \Frefonname
  \else
    \MakeLowercase{\Frefonname}%
  \fi
}
\renewcommand*{\frefpgname}{%
  \if@RTL
    \Frefpgname
  \else
    \MakeLowercase{\Frefpgname}%
  \fi
}
\renewcommand*{\frefsecname}{%
  \if@RTL
    \Frefsecname
  \else
    \MakeLowercase{\Frefsecname}%
```

```
  \fi
}
\renewcommand*{\frefseename}{%
  \if@RTL
    \Frefseename
  \else
    \MakeLowercase{\Frefseename}%
  \fi
}
\renewcommand*{\freftabname}{%
  \if@RTL
    \Freftabname
  \else
    \MakeLowercase{\Freftabname}%
  \fi
}
\renewcommand*{\freffigshortname}{%
  \if@RTL
    \Freffigshortname
  \else
    \MakeLowercase{\Freffigshortname}%
  \fi
}
\renewcommand*{\frefpgshortname}{%
  \if@RTL
    \Frefpgshortname
  \else
    \MakeLowercase{\Frefpgshortname}%
  \fi
}
\renewcommand*{\freftabshortname}{%
  \if@RTL
    \Freftabshortname
  \else
    \MakeLowercase{\Freftabshortname}%
  \fi
}
```

32 File footnote-xetex-bidi-xetex-xepersian.def

```
\ProvidesFile{footnote-xetex-bidi-xetex-xepersian.def}[2017/08/09 v0.6 xepersian adaptations

\renewcommand*{\bidi@@footnotetext@font}{\footnotesize\if@RTL@footnote\else\resetlatinfont\fi

\renewcommand*{\bidi@@LTRfootnotetext@font}{\footnotesize\resetlatinfont}

\renewcommand*{\bidi@@RTLfootnotetext@font}{\footnotesize\setpersianfont}

```

33 File framed-xetex-xepersian.def

```
\ProvidesFile{framed-xetex-xepersian.def}[2012/06/05 v0.1 xepersian adaptations for framed pa
\renewenvironment{titled-frame}[1]{%
  \def\FrameCommand{\fboxsep8pt\fboxrule2pt
```

```
    \TitleBarFrame{\textbf{#1}}}%
  \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
    \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
  \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
    \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1\ (\if@
  \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
    \TitleBarFrame{\textbf{#1\ (\if@RTL else\    cont\fi)}}}%
  \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
%  note: 8 + 2 + 8 + 2 = 20.  Don't use \width because the frame title
%  could interfere with the width measurement.
 {\endMakeFramed}
```

34 File glossaries-xetex-xepersian.def

```
\ProvidesFile{glossaries-xetex-xepersian.def}[2014/09/04 v0.4 xepersian adaptations for gloss
\glsaddprotectedpagefmt{@harfi}
\glsaddprotectedpagefmt{@tartibi}
\glsaddprotectedpagefmt{@adadi}
```

35 File hyperref-xetex-xepersian.def

```
\ProvidesFile{hyperref-xetex-xepersian.def}[2022/10/30 v0.8 xepersian adaptations for hyperre
  \def\equationautorefname{\if@RTL else\    Equation\fi}%
  \def\footnoteautorefname{\if@RTL else\    footnote\fi}%
  \def\itemautorefname{\if@RTL else\   item\fi}%
  \def\figureautorefname{\if@RTL else\   Figure\fi}%
  \def\tableautorefname{\if@RTL else\   Table\fi}%
  \def\partautorefname{\if@RTL else\   Part\fi}%
  \def\appendixautorefname{\if@RTL else\    Appendix\fi}%
  \def\chapterautorefname{\if@RTL else\   chapter\fi}%
  \def\sectionautorefname{\if@RTL else\   section\fi}%
  \def\subsectionautorefname{\if@RTL else\     subsection\fi}%
  \def\subsubsectionautorefname{\if@RTL else\      subsubsection\fi}%
  \def\paragraphautorefname{\if@RTL else\     paragraph\fi}%
  \def\subparagraphautorefname{\if@RTL else\      subparagraph\fi}%
  \def\FancyVerbLineautorefname{\if@RTL else\   line\fi}%
  \def\theoremautorefname{\if@RTL else\   Theorem\fi}%
  \def\pageautorefname{\if@RTL else\   page\fi}%
\ifHy@implicit
  \AtBeginDocument{%
    \let\HyOrg@appendix\appendix
      \def\appendix{%
        \ltx@IfUndefined{chapter}%
          {\gdef\theHsection{\Alph{section}}}%
          {\gdef\theHchapter{\Alph{chapter}}}%
        \xdef\Hy@chapapp{\Hy@appendixstring}%
        \HyOrg@appendix
      }%
    }%
\fi
\pdfstringdefDisableCommands{%
  \let\lr\@firstofone
  \let\rl\@firstofone
  \def\XePersian{XePersian}%
```

```
}
\ltx@IfUndefined{@resets@pp}{%
}{%
  \let\HyOrg@resets@pp\@resets@pp
  \def\@resets@pp{%
    \ltx@IfUndefined{chapter}{%
      \gdef\theHsection{\Hy@AlphNoErr{section}}%
    }{%
      \gdef\theHchapter{\Hy@AlphNoErr{chapter}}%
    }%
    \xdef\Hy@chapapp{\Hy@appendixstring}%
    \HyOrg@resets@pp
  }%
}
```

36 File imsproc-xetex-xepersian.def

```
\ProvidesFile{imsproc-xetex-xepersian.def}[2017/06/09 v0.5 xepersian adaptations for imsproc
\renewcommand \thepart {\@tartibi\c@part}
\def\appendix{\par\c@section\z@ \c@subsection\z@
   \let\sectionname\appendixname
   \def\thesection{\@harfi\c@section}}
```

37 File kashida-xetex-xepersian.def

```
\ProvidesFile{kashida-xetex-xepersian.def}[2024/12/20 v1.0 implementation of Kashida for XeTe
\chardef\xepersian@zwj="200D % zero-width joiner
\chardef\xepersian@kashidachar="0640 % kashida

\chardef\xepersian@dualjoiner=10 % dual-joiner class
\chardef\xepersian@lam=11 % lam
\chardef\xepersian@rightjoiner=12 % right-joiner
\chardef\xepersian@alef=13 % alef
\chardef\xepersian@vowel=4096 % vowel or other combining mark (to be ignored)
\newif\if@Kashida@on
\def\xepersian@kashida{%
  \if@Kashida@on
    \xepersian@zwj
    \nobreak
    \leaders\hrule height \XeTeXglyphbounds\tw@
    \the\XeTeXcharglyph\xepersian@kashidachar
    depth \XeTeXglyphbounds\f@ur
    \the\XeTeXcharglyph\xepersian@kashidachar
    \hskip0pt plus 0.5em
    \xepersian@zwj
  \fi
}

\def\setclass#1#2{\def\theclass{#1}\def\charlist{#2}%
  \expandafter\dosetclass\charlist,\end}
\def\dosetclass#1,#2\end{%
  \def\test{#1}\def\charlist{#2}%
```

```
  \ifx\test\empty\let\next\finishsetclass
  \else \XeTeXcharclass "\test = \theclass
     \let\next\dosetclass \fi
  \expandafter\next\charlist,,\end}
\def\finishsetclass#1,,\end{}

\setclass \xepersian@alef {0622,0623,0625,0627}
\setclass \xepersian@rightjoiner {0624,0629,062F,0630,0631,0632,0648,0698}
\setclass \xepersian@dualjoiner {0626,0628,062A,062B,062C,062D,062E}
\setclass \xepersian@dualjoiner {0633,0634,0635,0636,0637,0638,0639,063A}
\setclass \xepersian@dualjoiner {0640,0641,0642,0643,0645,0646,0647,0649,064A}
\setclass \xepersian@dualjoiner {067E,0686,06A9,06AF,06CC}
\setclass \xepersian@lam {0644}
\setclass \xepersian@vowel {064B,064C,064D,064E,064F,0650,0651,0652}

\XeTeXinterchartoks \xepersian@dualjoiner \xepersian@dualjoiner = {\xepersian@kashida}
\XeTeXinterchartoks \xepersian@lam \xepersian@dualjoiner = {\xepersian@kashida}
\XeTeXinterchartoks \xepersian@dualjoiner \xepersian@lam = {\xepersian@kashida}
\XeTeXinterchartoks \xepersian@lam \xepersian@lam = {\xepersian@kashida}
\XeTeXinterchartoks \xepersian@dualjoiner \xepersian@rightjoiner = {\xepersian@kashida}
\XeTeXinterchartoks \xepersian@dualjoiner \xepersian@alef = {\xepersian@kashida}
\XeTeXinterchartoks \xepersian@lam \xepersian@rightjoiner = {\xepersian@kashida}
\XeTeXinterchartoks \xepersian@lam \xepersian@alef = {}

\newcommand{\KashidaOn}{\@Kashida@ontrue}
\newcommand{\KashidaOff}{\@Kashida@onfalse}

\KashidaOn
```

38 File listings-xetex-xepersian.def

```
\ProvidesFile{listings-xetex-xepersian.def}[2014/07/17 v0.3 xepersian adaptations for listing
\def\lstlistingname{\if@RTL else\    Listing\fi}
\def\lstlistlistingname{\if@RTL     else\     Listings\fi}
```

39 File localize-xetex-xepersian.def

```
\ProvidesFile{localize-xetex-xepersian.def}[2025/01/06 v0.2e Persian localization of LaTeX2e
\newcommand{\makezwnjletter}{\catcode`=11\relax}
\makezwnjletter
\newcommand*{\eqcommand}[2]{\if@bidi@csprimitive{#2}{\bidi@csletcs{#1}{#2}}{\bidi@csdefcs{#1}
\newcommand*{\eqenvironment}[2]{\newenvironment{#1}{%
\if@bidi@csdef{verbatim@}{\let\verbatim@\xepersian@localize@verbatim@}{}\csname#2\endcsname}{
\newcommand*{\EqEnvironment}[2]{%
  \expandafter\let\csname #1\expandafter\endcsname\csname #2\endcsname
  \expandafter\let\csname end#1\expandafter\endcsname\csname end#2\endcsname
}
\newcommand*\keyval@eq@alias@key[4][KV]{%
  \bidi@csletcs{#1@#2@#3}{#1@#2@#4}%
  \bidi@csletcs{#1@#2@#3@default}{#1@#2@#4@default}%
}
\input{latex-localize-commands-xetex-xepersian.def}
\input{xepersian-localize-commands-xetex-xepersian.def}
\input{latex-localize-environments-xetex-xepersian.def}
```

```
\input{xepersian-localize-environments-xetex-xepersian.def}
\input{latex-localize-messages-xetex-xepersian.def}
\input{latex-localize-misc-xetex-xepersian.def}
\input{packages-localize-xetex-xepersian.def}
\aliasfontfeature{ExternalLocation}{     }
\aliasfontfeature{Path}{  }
\aliasfontfeature{Renderer}{      }
\aliasfontfeature{BoldFont}{    }
\aliasfontfeature{Language}{  }
\aliasfontfeature{Script}{ }
\aliasfontfeature{UprightFont}{     }
\aliasfontfeature{ItalicFont}{      }
\aliasfontfeature{BoldItalicFont}{        }
\aliasfontfeature{SlantedFont}{      }
\aliasfontfeature{BoldSlantedFont}{        }
\aliasfontfeature{SmallCapsFont}{      }
\aliasfontfeature{UprightFeatures}{         }
\aliasfontfeature{BoldFeatures}{         }
\aliasfontfeature{ItalicFeatures}{          }
\aliasfontfeature{BoldItalicFeatures}{            }
\aliasfontfeature{SlantedFeatures}{          }
\aliasfontfeature{BoldSlantedFeatures}{            }
\aliasfontfeature{SmallCapsFeatures}{          }
\aliasfontfeature{SizeFeatures}{        }
\aliasfontfeature{Scale}{  }
\aliasfontfeature{WordSpace}{     }
\aliasfontfeature{PunctuationSpace}{       }
\aliasfontfeature{FontAdjustment}{     }
\aliasfontfeature{LetterSpace}{    }
\aliasfontfeature{HyphenChar}{     }
\aliasfontfeature{Color}{  }
\aliasfontfeature{Opacity}{  }
\aliasfontfeature{Mapping}{   }
\aliasfontfeature{Weight}{    }
\aliasfontfeature{Width}{  }
\aliasfontfeature{OpticalSize}{     }
\aliasfontfeature{FakeSlant}{       }
\aliasfontfeature{FakeStretch}{     }
\aliasfontfeature{FakeBold}{     }
\aliasfontfeature{AutoFakeSlant}{          }
\aliasfontfeature{AutoFakeBold}{         }
\aliasfontfeature{Ligatures}{          }
\aliasfontfeature{Alternate}{   }
\aliasfontfeature{Variant}{    }
\aliasfontfeature{Variant}{      }
\aliasfontfeature{CharacterVariant}{       }
\aliasfontfeature{Style}{  }
\aliasfontfeature{Annotation}{    }
\aliasfontfeature{RawFeature}{      }
\aliasfontfeature{CharacterWidth}{     }
\aliasfontfeature{Numbers}{   }
\aliasfontfeature{Contextuals}{  }
\aliasfontfeature{Diacritics}{       }
\aliasfontfeature{Letters}{  }
```

```
\aliasfontfeature{Kerning}{  }
\aliasfontfeature{VerticalPosition}{      }
\aliasfontfeature{Fractions}{  }
\aliasfontfeatureoption{Language}{Default}{    }
\aliasfontfeatureoption{Language}{Persian}{   }
\aliasfontfeatureoption{Script}{Persian}{   }
\aliasfontfeatureoption{Script}{Latin}{   }
\aliasfontfeatureoption{Style}{MathScript}{      }
\aliasfontfeatureoption{Style}{MathScriptScript}{          }
```

40 File memoir-xetex-xepersian.def

```
\ProvidesFile{memoir-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for memoir cl
\renewcommand{\@memfront}{%
  \@smemfront\pagenumbering{harfi}}
\renewcommand{\setthesection}{\thechapter\@SepMark\harfi{section}}
\renewcommand*{\thebook}{\@tartibi\c@book}
\renewcommand*{\thepart}{\@tartibi\c@part}
\renewcommand{\appendix}{\par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}%
  \anappendixtrue}
```

41 File latex-localize-messages-xetex-xepersian.def

```
latex}        \-localize-messages-xetex-xepersian.def}[2011/03/01 v0.1 localizing LaTeX2e mes
```

42 File minitoc-xetex-xepersian.def

```
\ProvidesFile{minitoc-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for minitoc
\def\ptctitle{\if@RTL     else\    Table of Contents\fi}%
\def\plftitle{\if@RTL     else\     List of Figures\fi}%
\def\plttitle{\if@RTL     else\    List of Tables\fi}%
\def\mtctitle{\if@RTL else\     Contents\fi}%
\def\mlftitle{\if@RTL else\    Figures\fi}%
\def\mlttitle{\if@RTL else\    Tables\fi}%
\def\stctitle{\if@RTL else\     Contents\fi}%
\def\slftitle{\if@RTL else\    Figures\fi}%
\def\slttitle{\if@RTL else\    Tables\fi}%
```

43 File latex-localize-misc-xetex-xepersian.def

```
\ProvidesFile{latex-localize-misc-xetex-xepersian.def}[2025/01/03 v0.3 miscellaneous Persian
%}1#    \ \
     \@  \      @ \     \
      \1#   \
    \1# @\
     \1# @\
{@  \     \
%}2#1# @\ \
%1#  \       @\     \     \ \     \
       \2#  \       @\     \
```

```
{{2#1#   \}
undefined\     \   \

%{ \    \     \  \1#}    \ \}  \1#  \ \
      \ {  \    \   \
 \  \   \

 \  \    \ %}  \#1
    \1#}    \ \  %   \
                \    \     \
               }%
      \
    \    \   \
}
 \=  \   \


\ApplyPatchCodeToFile{latex-xetex-bidi}{%
\def\@xfloat #1[#2]{%
  \@nodocument
  \def \@captype {#1}%
   \def \@fps {#2}%
   \@onelevel@sanitize \@fps
   \def \reserved@b {!}%
   \ifx \reserved@b \@fps
     \@fpsadddefault
   \else
     \ifx \@fps \@empty
       \@fpsadddefault
     \fi
   \fi
   \ifhmode
     \@bsphack
     \@floatpenalty -\@Mii
   \else
     \@floatpenalty-\@Miii
   \fi
  \ifinner
     \@parmoderr\@floatpenalty\z@
  \else
    \@next\@currbox\@freelist
      {%
       \@tempcnta \sixt@@n
       \expandafter \@tfor \expandafter \reserved@a
         \expandafter :\expandafter =\@fps
         \do
          {%
           \if \reserved@a h%
             \ifodd \@tempcnta
             \else
               \advance \@tempcnta \@ne
             \fi
           \fi
```

```
            \if \reserved@a %
              \ifodd \@tempcnta
              \else
                \advance \@tempcnta \@ne
              \fi
            \fi
            \if \reserved@a t%
              \@setfpsbit \tw@
            \fi
            \if \reserved@a %
              \@setfpsbit \tw@
            \fi
            \if \reserved@a b%
              \@setfpsbit 4%
            \fi
            \if \reserved@a %
              \@setfpsbit 4%
            \fi
            \if \reserved@a p%
              \@setfpsbit 8%
            \fi
            \if \reserved@a %
              \@setfpsbit 8%
            \fi
            \if \reserved@a !%
              \ifnum \@tempcnta>15
                \advance\@tempcnta -\sixt@@n\relax
              \fi
            \fi
            }%
        \@tempcntb \csname ftype@\@captype \endcsname
        \multiply \@tempcntb \@xxxii
        \advance \@tempcnta \@tempcntb
        \global \count\@currbox \@tempcnta
        }%
    \@fltovf
  \fi
  \global \setbox\@currbox
    \color@vbox
      \normalcolor
      \vbox \bgroup
        \hsize\columnwidth
        \@parboxrestore
        \@floatboxreset
}
\let\bm@ \bm@c
\let\bm@ \bm@l
\let\bm@ \bm@r
\let\bm@ \bm@b
\let\bm@ \bm@t
\let\bm@ \bm@s
\long\def\@iiiparbox#1#2[#3]#4#5{%
  \leavevmode
  \@pboxswfalse
```

```
  \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
  \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\else
  \setlength\@tempdima{#4}%
  \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@@par}%
    \ifx\relax#2\else
      \setlength\@tempdimb{#2}%
      \edef\@parboxto{to\the\@tempdimb}%
    \fi
    \if#1b\vbox
    \else\if#1 \vbox
    \else\if #1t\vtop
    \else\if vtop\ #1
    \else\ifmmode\vcenter
    \else\@pboxswtrue $\vcenter
    \fi\fi\fi\fi\fi
    \@parboxto{\let\hss\vss\let\unhbox\unvbox
       \csname bm@#3\endcsname}%
    \if@pboxsw \m@th$\fi
  \@end@tempboxa}
\def\@iiiminipage#1#2[#3]#4{%
  \leavevmode
  \@pboxswfalse
    \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
    \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\el
  \setlength\@tempdima{#4}%
  \def\@mpargs{{#1}{#2}[#3]{#4}}%
  \setbox\@tempboxa\vbox\bgroup
    \color@begingroup
      \hsize\@tempdima
      \textwidth\hsize \columnwidth\hsize
      \@parboxrestore
      \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
      \let\@footnotetext\@mpfootnotetext
      \let\@LTRfootnotetext\@mpLTRfootnotetext
      \let\@RTLfootnotetext\@mpRTLfootnotetext
      \let\@listdepth\@mplistdepth \@mplistdepth\z@
      \@minipagerestore
      \@setminipage}
\def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
    \ifnum \@lastchclass=3 5 \else
     \z@ \if #1c\@chnum \z@ \else
                \if chnum@\ #1 \z@ \else
                               \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
                               \if \if@RTLtab#1 \else#1 \fi\@chnum \@ne \else
                               \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
                               \if \if@RTLtab#1 \else#1 \fi\@chnum \tw@ \else
          \@chclass \if #1|\@ne \else
                    \if #1@\tw@ \else
                    \if #1p3    \else
                    \if 3 #1    \else          \z@ \@preamerr 0\fi
  \fi  \fi  \fi  \fi  \fi  \fi \fi \fi \fi \fi
\fi}%
}
\ApplyPatchCodeToFile{array-xetex-bidi}{%
```

```
\def\@testpach{\@chclass
 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
  \ifnum \@lastchclass=7 5 \else
   \ifnum \@lastchclass=8 \tw@ \else
    \ifnum \@lastchclass=9 \thr@@
   \else \z@
   \ifnum \@lastchclass = 10 \else
   \edef\@nextchar{\expandafter\string\@nextchar}%
   \@chnum
   \if \@nextchar c\z@ \else
   \if \@nextchar @z\  \else
    \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
    \if \@nextchar \if@RTLtab else\  fi\@ne\  \else
     \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
     \if \@nextchar \if@RTLtab else\  @fi\tw\  \else
   \z@ \@chclass
   \if\@nextchar |\@ne \else
    \if \@nextchar !6 \else
     \if \@nextchar @7 \else
      \if \@nextchar <8 \else
       \if \@nextchar >9 \else
  10
  \@chnum
  \if \@nextchar m\thr@@\else
  \if \@nextchar thr@@\else\
   \if \@nextchar p4 \else
  \if \@nextchar 4  \else
    \if \@nextchar b5 \else
    \if \@nextchar 5  \else
   \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi
   \fi \fi  \fi  \fi  \fi  \fi  \fi \fi \fi \fi \fi \fi \fi \fi \fi}%
}
\ApplyPatchCodeToFile{arydshln-xetex-bidi}{
\ifadl@usingarypkg
\def\@testpach{\@chclass
 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
  \ifnum \@lastchclass=7 5 \else
   \ifnum \@lastchclass=8 \tw@ \else
    \ifnum \@lastchclass=9 \thr@@
   \else \z@
   \ifnum \@lastchclass = 10 \else
   \edef\@nextchar{\expandafter\string\@nextchar}%
   \@chnum
   \if \@nextchar c\z@ \else
    \if \@nextchar @z\  \else
    \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
    \if \@nextchar \if@RTLtab else\  fi\@ne\  \else
     \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
    \if \@nextchar \if@RTLtab else\  @fi\tw\  \else
   \z@ \@chclass
   \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
   \if\@nextchar :\@ne \let\@arrayrule\adl@arraydashrule \else
   \if\@nextchar ;\@ne \let\@arrayrule\adl@argarraydashrule \else
    \if \@nextchar !6 \else
```

```
    \if \@nextchar @7 \else
     \if \@nextchar <8 \else
      \if \@nextchar >9 \else
  10
  \@chnum
  \if \@nextchar m\thr@@\else
   \if \@nextchar thr@@\else\
   \if \@nextchar p4 \else
    \if \@nextchar 4  \else
    \if \@nextchar b5 \else
   \if \@nextchar 5  \else
   \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi
   \fi \fi  \fi  \fi  \fi  \fi  \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

\def\@classz{\@classx
   \@tempcnta \count@
   \prepnext@tok
   \@addtopreamble{\ifcase \@chnum
      \hfil
      \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
      \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
      \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
   \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
        \adl@endmbox\or
   \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
   \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
  \fi}\prepnext@tok}
\def\adl@class@start{4}
\def\adl@class@iiiorvii{7}

\else
\def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
        \ifnum \@lastchclass=\thr@@ 5\relax \else
                \z@ \if #1c\@chnum \z@ \else
                    \if @chnum\z@\ #1 \else
                    \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
                   \if \if@RTLtab#1 \else#1 \fi\@chnum \@ne \else
                    \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
                     \if \if@RTLtab#1 \else#1 \fi\@chnum \tw@ \else
                \@chclass
                    \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
                    \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
                    \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
                    \if #1@\tw@ \else
                    \if #1p\thr@@ \else
                   \if @@thr\ #1 \else\z@ \@preamerr 0\fi
        \fi  \fi  \fi  \fi  \fi  \fi  \fi  \fi  \fi \fi \fi \fi \fi}

\def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
                \or \or \@addamp \or
                \@acolampacol \or \@firstampfalse \@acol \fi
        \edef\@preamble{\@preamble
                \ifcase \@chnum
                    \hfil\adl@putlrc{$\relax\@sharp$}\hfil
```

```
                \or \adl@putlrc{$\relax\@sharp$}\hfil
                \or \hfil\adl@putlrc{$\relax\@sharp$}\fi}}
\def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
                \or \or \@addamp \or
                \@acolampacol \or \@firstampfalse \@acol \fi
        \edef\@preamble{\@preamble
        \ifcase \@chnum
                    \hfil\adl@putlrc{\@sharp\unskip}\hfil
                \or \adl@putlrc{\@sharp\unskip}\hfil
                \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
\def\adl@class@start{6}
\def\adl@class@iiiorvii{3}
\fi
}
\ApplyPatchCodeToFile{tabulary-xetex-bidi}{%
\def\@testpach{\@chclass
 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
  \ifnum \@lastchclass=7 5 \else
   \ifnum \@lastchclass=8 \tw@ \else
    \ifnum \@lastchclass=9 \thr@@
   \else \z@
   \ifnum \@lastchclass = 10 \else
   \edef\@nextchar{\expandafter\string\@nextchar}%
   \@chnum
   \if \@nextchar c\z@ \else
    \if \@nextchar @z\  \else
    \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
     \if \@nextchar \if@RTLtab else\  fi\@ne\  \else
     \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
     \if \@nextchar \if@RTLtab else\  @fi\tw\  \else
   \if \@nextchar C7 \else
   \if \@nextchar 7  \else
    \if \@nextchar L8 \else
    \if \@nextchar 8  \else
     \if \@nextchar R9 \else
     \if \@nextchar 9  \else
     \if \@nextchar J10 \else
     \if \@nextchar 10  \else
   \z@ \@chclass
   \if\@nextchar |\@ne \else
    \if \@nextchar !6 \else
     \if \@nextchar @7 \else
      \if \@nextchar <8 \else
       \if \@nextchar >9 \else
  10
  \@chnum
  \if \@nextchar m\thr@@\else
  \if \@nextchar thr@@\else\
   \if \@nextchar p4 \else
  \if \@nextchar4  \else
    \if \@nextchar b5 \else
  \if \@nextchar 5  \else
   \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi\fi \fi \fi\fi \fi \fi \fi \fi \fi \fi \fi \fi
     \fi  \fi  \fi  \fi  \fi  \fi \fi \fi \fi \fi \fi \fi \fi \fi}%
```

```
}
\ApplyPatchCodeToFile{float-xetex-bidi}{%
\let\@float@Hx\@xfloat
\def\@xfloat#1[{\@ifnextchar{H}{\@float@HH{#1}[}{\@ifnextchar{ }{\@float@{1#} [}{\@float@Hx{#
\def\@float@HH#1[H]{%
  \expandafter\let\csname end#1\endcsname\float@endH
  \let\@currbox\float@box
  \def\@captype{#1}\setbox\@floatcapt=\vbox{}%
  \expandafter\ifx\csname fst@#1\endcsname\relax
    \@flstylefalse\else\@flstyletrue\fi
  \setbox\@currbox\color@vbox\normalcolor
    \vbox\bgroup \hsize\columnwidth \@parboxrestore
      \@floatboxreset \@setnobreak
  \ignorespaces}
\def\@float@[ ]1# {%
  \expandafter\let\csname end#1\endcsname\float@endH
  \let\@currbox\float@box
  \def\@captype{#1}\setbox\@floatcapt=\vbox{}%
  \expandafter\ifx\csname fst@#1\endcsname\relax
    \@flstylefalse\else\@flstyletrue\fi
  \setbox\@currbox\color@vbox\normalcolor
    \vbox\bgroup \hsize\columnwidth \@parboxrestore
      \@floatboxreset \@setnobreak
  \ignorespaces}
}
\begingroup \catcode `|=0 \catcode `[= 1
\catcode`]=2 \catcode `\{=12 \catcode `\}=12
\catcode`\\=12 |gdef|@x@xepersian@localize@verbatim#1\[[      ]   |1#]{      }
|gdef|@sx@xepersian@localize@verbatim#1\[[*      ]   |1#]{*      }
|endgroup
\def\      {\@verbatim \frenchspacing\@vobeyspaces \@x@xepersian@localize@verbatim}
\def\end       {\if@newlist \leavevmode\fi\endtrivlist}
\ExplSyntaxOn
\AtBeginDocument{\@namedef{      *}{\@verbatim \fontspec_print_visible_spaces: \@sx@xepersia
\ExplSyntaxOff
\expandafter\let\csname end      *\endcsname =\end
```

44 File natbib-xetex-xepersian.def

```
\ProvidesFile{natbib-xetex-xepersian.def}[2011/08/01 v0.1 xepersian adaptations for natbib pa
\renewcommand\NAT@set@cites{%
  \ifNAT@numbers
    \ifNAT@super \let\@cite\NAT@citesuper
       \def\NAT@mbox##1{\unskip\nobreak\textsuperscript{##1}}%
       \let\citeyearpar=\citeyear
       \let\NAT@space\relax
       \def\NAT@super@kern{\kern\p@}%
    \else
       \let\NAT@mbox=\mbox
       \let\@cite\NAT@citenum
       \let\NAT@space\NAT@spacechar
       \let\NAT@super@kern\relax
    \fi
    \let\@citex\NAT@citexnum
```

```
   \let\@Latincitex\NAT@Latin@citexnum
   \let\@biblabel\NAT@biblabelnum
   \let\@bibsetup\NAT@bibsetnum
   \renewcommand\NAT@idxtxt{\NAT@name\NAT@spacechar\NAT@open\NAT@num\NAT@close}%
   \def\natexlab##1{}%
   \def\NAT@penalty{\penalty\@m}%
  \else
   \let\@cite\NAT@cite
   \let\@citex\NAT@citex
    \let\@Latincitex\NAT@Latin@citex
   \let\@biblabel\NAT@biblabel
   \let\@bibsetup\NAT@bibsetup
   \let\NAT@space\NAT@spacechar
   \let\NAT@penalty\@empty
   \renewcommand\NAT@idxtxt{\NAT@name\NAT@spacechar\NAT@open\NAT@date\NAT@close}%
   \def\natexlab##1{##1}%
  \fi}
\newcommand\NAT@Latin@citex{}
\def\NAT@Latin@citex%
  [#1][#2]#3{%
  \NAT@reset@parser
  \NAT@sort@cites{#3}%
  \NAT@reset@citea
  \@cite{\lr{\let\NAT@nm\@empty\let\NAT@year\@empty
    \@for\@citeb:=\NAT@cite@list\do
    {\@safe@activestrue
     \edef\@citeb{\expandafter\@firstofone\@citeb\@empty}%
     \@safe@activesfalse
     \@ifundefined{b@\@citeb\@extra@b@citeb}{\@citea%
       {\reset@font\bfseries ?}\NAT@citeundefined
                  \PackageWarning{natbib}%
       {Citation `\@citeb' on page \thepage \space undefined}\def\NAT@date{}}%
     {\let\NAT@last@nm=\NAT@nm\let\NAT@last@yr=\NAT@year
      \NAT@parse{\@citeb}%
      \ifNAT@longnames\@ifundefined{bv@\@citeb\@extra@b@citeb}{%
        \let\NAT@name=\NAT@all@names
        \global\@namedef{bv@\@citeb\@extra@b@citeb}{}}{}%
      \fi
     \ifNAT@full\let\NAT@nm\NAT@all@names\else
       \let\NAT@nm\NAT@name\fi
     \ifNAT@swa\ifcase\NAT@ctype
       \if\relax\NAT@date\relax
         \@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}\NAT@date}%
       \else
         \ifx\NAT@last@nm\NAT@nm\NAT@yrsep
            \ifx\NAT@last@yr\NAT@year
              \def\NAT@temp{{?}}%
              \ifx\NAT@temp\NAT@exlab\PackageWarningNoLine{natbib}%
               {Multiple citation on page \thepage: same authors and
               year\MessageBreak without distinguishing extra
               letter,\MessageBreak appears as question mark}\fi
              \NAT@hyper@{\NAT@exlab}%
            \else\unskip\NAT@spacechar
              \NAT@hyper@{\NAT@date}%
```

```
            \fi
          \else
            \@citea\NAT@hyper@{%
              \NAT@nmfmt{\NAT@nm}%
              \hyper@natlinkbreak{%
                \NAT@aysep\NAT@spacechar}{\@citeb\@extra@b@citeb
              }%
              \NAT@date
            }%
          \fi
        \fi
      \or\@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}}%
      \or\@citea\NAT@hyper@{\NAT@date}%
      \or\@citea\NAT@hyper@{\NAT@alias}%
      \fi \NAT@def@citea
      \else
        \ifcase\NAT@ctype
         \if\relax\NAT@date\relax
           \@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}}%
         \else
          \ifx\NAT@last@nm\NAT@nm\NAT@yrsep
             \ifx\NAT@last@yr\NAT@year
               \def\NAT@temp{{?}}%
               \ifx\NAT@temp\NAT@exlab\PackageWarningNoLine{natbib}%
                {Multiple citation on page \thepage: same authors and
                year\MessageBreak without distinguishing extra
                letter,\MessageBreak appears as question mark}\fi
               \NAT@hyper@{\NAT@exlab}%
             \else
               \unskip\NAT@spacechar
               \NAT@hyper@{\NAT@date}%
             \fi
          \else
            \@citea\NAT@hyper@{%
              \NAT@nmfmt{\NAT@nm}%
              \hyper@natlinkbreak{\NAT@spacechar\NAT@@open\if*#1*\else#1\NAT@spacechar\fi}%
                {\@citeb\@extra@b@citeb}%
              \NAT@date
            }%
          \fi
         \fi
        \or\@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}}%
        \or\@citea\NAT@hyper@{\NAT@date}%
        \or\@citea\NAT@hyper@{\NAT@alias}%
        \fi
        \if\relax\NAT@date\relax
          \NAT@def@citea
        \else
          \NAT@def@citea@close
        \fi
      \fi
      }}\ifNAT@swa\else\if*#2*\else\NAT@cmt#2\fi
      \if\relax\NAT@date\relax\else\NAT@@close\fi\fi}}{#1}{#2}}
\newcommand\NAT@Latin@citexnum{}
```

```
\def\NAT@Latin@citexnum[#1][#2]#3{%
  \NAT@reset@parser
  \NAT@sort@cites{#3}%
  \NAT@reset@citea
  \@cite{\lr{\def\NAT@num{-1}\let\NAT@last@yr\relax\let\NAT@nm\@empty
    \@for\@citeb:=\NAT@cite@list\do
    {\@safe@activestrue
     \edef\@citeb{\expandafter\@firstofone\@citeb\@empty}%
     \@safe@activesfalse
     \@ifundefined{b@\@citeb\@extra@b@citeb}{%
       {\reset@font\bfseries?}
        \NAT@citeundefined\PackageWarning{natbib}%
       {Citation `\@citeb' on page \thepage \space undefined}}%
     {\let\NAT@last@num\NAT@num\let\NAT@last@nm\NAT@nm
      \NAT@parse{\@citeb}%
      \ifNAT@longnames\@ifundefined{bv@\@citeb\@extra@b@citeb}{%
        \let\NAT@name=\NAT@all@names
        \global\@namedef{bv@\@citeb\@extra@b@citeb}{}}{}%
      \fi
      \ifNAT@full\let\NAT@nm\NAT@all@names\else
        \let\NAT@nm\NAT@name\fi
      \ifNAT@swa
       \@ifnum{\NAT@ctype>\@ne}{%
        \@citea
        \NAT@hyper@{\@ifnum{\NAT@ctype=\tw@}{\NAT@test{\NAT@ctype}}{\NAT@alias}}%
       }{%
        \@ifnum{\NAT@cmprs>\z@}{%
         \NAT@ifcat@num\NAT@num
          {\let\NAT@nm=\NAT@num}%
          {\def\NAT@nm{-2}}%
         \NAT@ifcat@num\NAT@last@num
          {\@tempcnta=\NAT@last@num\relax}%
          {\@tempcnta\m@ne}%
         \@ifnum{\NAT@nm=\@tempcnta}{%
          \@ifnum{\NAT@merge>\@ne}{}{\NAT@last@yr@mbox}%
         }{%
           \advance\@tempcnta by\@ne
           \@ifnum{\NAT@nm=\@tempcnta}{%
             \ifx\NAT@last@yr\relax
               \def@NAT@last@yr{\@citea}%
             \else
               \def@NAT@last@yr{--\NAT@penalty}%
             \fi
           }{%
             \NAT@last@yr@mbox
           }%
         }%
        }{%
         \@tempswatrue
         \@ifnum{\NAT@merge>\@ne}{\@ifnum{\NAT@last@num=\NAT@num\relax}{\@tempswafalse}{}}{}%
         \if@tempswa\NAT@citea@mbox\fi
        }%
       }%
       \NAT@def@citea
```

```
      \else
        \ifcase\NAT@ctype
          \ifx\NAT@last@nm\NAT@nm \NAT@yrsep\NAT@penalty\NAT@space\else
            \@citea \NAT@test{\@ne}\NAT@spacechar\NAT@mbox{\NAT@super@kern\NAT@@open}%
          \fi
          \if*#1*\else#1\NAT@spacechar\fi
          \NAT@mbox{\NAT@hyper@{{\citenumfont{\NAT@num}}}}%
          \NAT@def@citea@box
        \or
          \NAT@hyper@citea@space{\NAT@test{\NAT@ctype}}%
        \or
          \NAT@hyper@citea@space{\NAT@test{\NAT@ctype}}%
        \or
          \NAT@hyper@citea@space\NAT@alias
        \fi
      \fi
     }%
    }%
      \@ifnum{\NAT@cmprs>\z@}{\NAT@last@yr}{}%
      \ifNAT@swa\else
        \@ifnum{\NAT@ctype=\z@}{%
          \if*#2*\else\NAT@cmt#2\fi
        }{}%
        \NAT@mbox{\NAT@@close}%
      \fi
  }}{#1}{#2}%
}%
\AtBeginDocument{\NAT@set@cites}
\DeclareRobustCommand\Latincite
    {\begingroup\let\NAT@ctype\z@\NAT@partrue\NAT@swatrue
      \@ifstar{\NAT@fulltrue\NAT@Latin@cites}{\NAT@fullfalse\NAT@Latin@cites}}
\newcommand\NAT@Latin@cites{\@ifnextchar [{\NAT@@Latin@@citetp}{%
     \ifNAT@numbers\else
     \NAT@swafalse
     \fi
    \NAT@@Latin@@citetp[]}}
\newcommand\NAT@@Latin@@citetp{}
\def\NAT@@Latin@@citetp[#1]{\@ifnextchar[{\@Latincitex[#1]}{\@Latincitex[][#1]}}
```

45 File packages-localize-xetex-xepersian.def

```
packages}        \-localize-xetex-xepersian.def}[2025/01/03 v0.3 localizing LaTeX2e Packages
color}   \}{color}         @\-localize-xetex-xepersian.def}}{}
\ApplyPatchCodeToPackage{multicol}{%
\newenvironment{      }{\begin{multicols}}{\end{multicols}}%
\newenvironment{      *}{\begin{multicols*}}{\end{multicols*}}%
}
\ApplyPatchCodeToPackage{verbatim}{%
\begingroup
 \vrb@catcodes
 \lccode`\!=`\\ \lccode`\[=`\{ \lccode`\]=`\}
 \catcode`\~=\active \lccode`\~=`\^^M
 \lccode`\C=`\C
 \lowercase{\endgroup
```

```
\def\xepersian@localize@verbatim@start#1{%
  \verbatim@startline
  \if\noexpand#1\noexpand~%
    \let\next\xepersian@localize@verbatim@
  \else \def\next{\xepersian@localize@verbatim@#1}\fi
  \next}%
\def\xepersian@localize@verbatim@#1~{\xepersian@localize@verbatim@@#1!   \@nil}%
\def\xepersian@localize@verbatim@@#1!   {%
   \verbatim@addtoline{#1}%
   \futurelet\next\xepersian@localize@verbatim@@@}%
\def\xepersian@localize@verbatim@@@#1\@nil{%
   \ifx\next\@nil
     \verbatim@processline
     \verbatim@startline
     \let\next\xepersian@localize@verbatim@
   \else
     \def\@tempa##1!   \@nil{##1}%
     \@temptokena{!   }%
     \def\next{\expandafter\xepersian@localize@verbatim@test\@tempa#1\@nil~}%
   \fi \next}%
\def\xepersian@localize@verbatim@test#1{%
       \let\next\xepersian@localize@verbatim@test
       \if\noexpand#1\noexpand~%
         \expandafter\verbatim@addtoline
           \expandafter{\the\@temptokena}%
         \verbatim@processline
         \verbatim@startline
         \let\next\xepersian@localize@verbatim@
       \else \if\noexpand#1
         \@temptokena\expandafter{\the\@temptokena#1}%
       \else \if\noexpand#1\noexpand[%
         \let\@tempc\@empty
         \let\next\xepersian@localize@verbatim@testend
       \else
         \expandafter\verbatim@addtoline
           \expandafter{\the\@temptokena}%
         \def\next{\xepersian@localize@verbatim@#1}%
       \fi\fi\fi
       \next}%
\def\xepersian@localize@verbatim@testend#1{%
     \if\noexpand#1\noexpand~%
       \expandafter\verbatim@addtoline
         \expandafter{\the\@temptokena[}%
       \expandafter\verbatim@addtoline
         \expandafter{\@tempc}%
       \verbatim@processline
       \verbatim@startline
       \let\next\xepersian@localize@verbatim@
     \else\if\noexpand#1\noexpand]%
       \let\next\xepersian@localize@verbatim@@testend
     \else\if\noexpand#1\noexpand!%
       \expandafter\verbatim@addtoline
         \expandafter{\the\@temptokena[}%
       \expandafter\verbatim@addtoline
```

```
            \expandafter{\@tempc}%
          \def\next{\xepersian@localize@verbatim@!}%
        \else \expandafter\def\expandafter\@tempc\expandafter
          {\@tempc#1}\fi\fi\fi
        \next}%
    \def\xepersian@localize@verbatim@@testend{%
       \ifx\@tempc\@currenvir
         \verbatim@finish
         \edef\next{\noexpand\end{\@currenvir}%
                    \noexpand\xepersian@localize@verbatim@rescan{\@currenvir}}%
       \else
         \expandafter\verbatim@addtoline
           \expandafter{\the\@temptokena[}%
           \expandafter\verbatim@addtoline
             \expandafter{\@tempc]}%
         \let\next\xepersian@localize@verbatim@
       \fi
       \next}%
    \def\xepersian@localize@verbatim@rescan#1#2~{\if\noexpand~\noexpand#2~\else
        \@warning{Characters dropped after `\string\end{#1}'}\fi}}%
\def\       {\begingroup\@verbatim \frenchspacing\@vobeyspaces
               \xepersian@localize@verbatim@start}
\@namedef{       *}{\begingroup\@verbatim\xepersian@localize@verbatim@start}
\def\end       {\endtrivlist\endgroup\@doendpe}
\expandafter\let\csname end       *\endcsname =\end
}
\ExplSyntaxOn
\AtBeginDocument{
  \xepersian_localize_patch_verbatim:
}
\cs_set:Npn \xepersian_localize_patch_verbatim: {
  \ApplyPatchCodeToPackage{verbatim}{
    \cs_set:cpn {*       } }
      \group_begin: \@verbatim \fontspec_print_visible_spaces: \xepersian@localize@verbatim@s
    }
  }
}
\ExplSyntaxOff
\ApplyPatchCodeToPackage{graphicx}{%
\def\Gin@boolkey#1#2{%
\expandafter\@ifdefinable  \csname Gin@#2  \endcsname{%
\expandafter\let\csname Gin@#2  \expandafter\endcsname\csname Gin@#2true\endcsname}%
\expandafter\@ifdefinable  \csname Gin@#2   \endcsname{%
\expandafter\let\csname Gin@#2   \expandafter\endcsname\csname Gin@#2false\endcsname}%
  \csname Gin@#2\ifx\relax#1\relax true\else#1\fi\endcsname}
\define@key{Grot}{origin}[c]{%
 \@tfor\@tempa:=#1\do{%
    \if l\@tempa \Grot@x\z@\else
    \if tempa@\  \Grot@x\z@\else
    \if r\@tempa \Grot@x\width\else
    \if tempa@\  \Grot@x\width\else
    \if t\@tempa \Grot@y\height\else
    \if tempa@\  \Grot@y\height\else
    \if b\@tempa \Grot@y-\depth\else
```

```
    \if tempa@\  \Grot@y-\depth\else
    \if B\@tempa \Grot@y\z@\else
    \if tempa@\  \Grot@y\z@\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi}}
{draft}{    }{Gin}  @   \
{origin}{  }{Gin}  @   \
{origin}{  }{Grot}  @   \
{clip}{    }{Gin}  @   \
{keepaspectratio}{    }{Gin}  @   \
{natwidth}{     }{Gin}  @   \
{natheight}{      }{Gin}  @   \
{bb}{   }{Gin}  @   \
{viewport}{      }{Gin}  @   \
{trim}{    }{Gin}  @   \
{angle}{   }{Gin}  @   \
{width}{  }{Gin}  @   \
{height}{   }{Gin}  @   \
{totalheight}{    }{Gin}  @   \
{scale}{  }{Gin}  @   \
{type}{  }{Gin}  @   \
{ext}{   }{Gin}  @   \
{read}{    }{Gin}  @   \
{command}{   }{Gin}  @   \
{x}{  }{Grot}  @   \
{y}{  }{Grot}  @   \
{units}{  }{Grot}  @   \
}
```

46 File `url-xetex-xepersian.def`

```
\ProvidesFile{url-xetex-xepersian.def}[2022/02/18 v0.1 xepersian adaptations for url package
\begingroup
 \lccode`+=`\% \lccode`\~=`\%
  \lowercase {\long\gdef\Url@actpercent{\Url@Edit\Url@String{+}{~}%
    \ifnum\Umathcodenum`\%<32768 \def~{\%}\fi}}%
\endgroup%
```

47 File `persian-tex-text.map`

```
LHSName "persian-TeX-text"
RHSName "Unicode"

pass(Unicode)
U+0030 <> U+06F0 ;
U+0031 <> U+06F1 ;
U+0032 <> U+06F2 ;
U+0033 <> U+06F3 ;
U+0034 <> U+06F4 ;
U+0035 <> U+06F5 ;
U+0036 <> U+06F6 ;
U+0037 <> U+06F7 ;
U+0038 <> U+06F8 ;
U+0039 <> U+06F9 ;


```

```
U+002C <> U+060C ; comma > arabic comma
U+003F <> U+061F ; question mark -> arabic qm
U+003B <> U+061B ; semicolon -> arabic semicolon

; ligatures from Knuth's original CMR fonts
U+002D U+002D <> U+2013 ; -- -> en dash
U+002D U+002D U+002D <> U+2014 ; --- -> em dash

U+0027 <> U+2019 ; ' -> right single quote
U+0027 U+0027 <> U+201D ; '' -> right double quote
U+0022  > U+201D ; " -> right double quote

U+0060 <> U+2018 ; ` -> left single quote
U+0060 U+0060 <> U+201C ; `` -> left double quote

U+0021 U+0060 <> U+00A1 ; !` -> inverted exclam
U+003F U+0060 <> U+00BF ; ?` -> inverted question

; additions supported in T1 encoding
U+002C U+002C <> U+201E ; ,, -> DOUBLE LOW-9 QUOTATION MARK
U+003C U+003C <> U+00AB ; << -> LEFT POINTING GUILLEMET
U+003E U+003E <> U+00BB ; >> -> RIGHT POINTING GUILLEMET
```

48 File persian-tex-text-nonumbers.map

```
LHSName "persian-TeX-text-nonumbers"
RHSName "Unicode"

pass(Unicode)
U+002C <> U+060C ; comma > arabic comma
U+003F <> U+061F ; question mark -> arabic qm
U+003B <> U+061B ; semicolon -> arabic semicolon

; ligatures from Knuth's original CMR fonts
U+002D U+002D <> U+2013 ; -- -> en dash
U+002D U+002D U+002D <> U+2014 ; --- -> em dash

U+0027 <> U+2019 ; ' -> right single quote
U+0027 U+0027 <> U+201D ; '' -> right double quote
U+0022  > U+201D ; " -> right double quote

U+0060 <> U+2018 ; ` -> left single quote
U+0060 U+0060 <> U+201C ; `` -> left double quote

U+0021 U+0060 <> U+00A1 ; !` -> inverted exclam
U+003F U+0060 <> U+00BF ; ?` -> inverted question

; additions supported in T1 encoding
U+002C U+002C <> U+201E ; ,, -> DOUBLE LOW-9 QUOTATION MARK
U+003C U+003C <> U+00AB ; << -> LEFT POINTING GUILLEMET
U+003E U+003E <> U+00BB ; >> -> RIGHT POINTING GUILLEMET
```

49 File rapport1-xetex-xepersian.def

```
\ProvidesFile{rapport1-xetex-xepersian.def}[2010/07/25 v0.1 xepersian adaptations for rapport
\renewcommand*\thepart{\@tartibi\c@part}
\renewcommand*\appendix{\par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}}
```

50 File rapport3-xetex-xepersian.def

```
\ProvidesFile{rapport3-xetex-xepersian.def}[2010/07/25 v0.2 xepersian adaptations for rapport
\renewcommand*\thepart{\@tartibi\c@part}
\renewcommand*\appendix{\par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}}
```

51 File refrep-xetex-xepersian.def

```
\ProvidesFile{refrep-xetex-xepersian.def}[2010/07/25 v0.2 xepersian adaptations for refrep cl
\renewcommand \thepart {\@tartibi\c@part}
\renewcommand\appendix{\par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}
}%end appendix
```

52 File report-xetex-xepersian.def

```
\ProvidesFile{report-xetex-xepersian.def}[2010/07/25 v0.2 xepersian adaptations for report cl
\renewcommand \thepart {\@tartibi\c@part}
\renewcommand\appendix{\par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}
}%end appendix
```

53 File scrartcl-xetex-xepersian.def

```
\ProvidesFile{scrartcl-xetex-xepersian.def}[2022/05/22 v0.3 xepersian adaptations for scrartc
\renewcommand*{\thepart}{\@tartibi\c@part}
\renewcommand*\appendix{%
  \Ifstr{\@currenvir}{appendix}{%
    \ClassWarning{\KOMAClassName}{%
      You are using
      `\string\begin{appendix}...\string\end{appendix}'.\MessageBreak
      You should note, that `\string\appendix' is a mostly
      globally\MessageBreak
      working command not an enviroment with only local\MessageBreak
      effects. Therefore `\string\end{appendix}' will neither\MessageBreak
      switch back to normal section numbering nor finish\MessageBreak
```

```
      every other effect of `\string\begin{appendix}'.\MessageBreak
      Nevertheless, some effects may end with\MessageBreak
      `\string\end{appendix}' and the document may become\MessageBreak
      inconsistent.\MessageBreak
      Because of this, you should remove `\string\end{appendix}'\MessageBreak
      and replace `\string\begin{appendix}' by command\MessageBreak
      `\string\appendix'%
    }%
  }{}%
  \par
  \setcounter{section}{0}%
  \setcounter{subsection}{0}%
  \gdef\thesection{\@harfi\c@section}%
}
\IfLTXAtLeastTF{2020/10/01}{%
  \g@addto@macro{\appendix}{\UseOneTimeHook{\KOMAClassName/appendix}}%
}{}
\g@addto@macro{\appendix}{\csname appendixmore\endcsname}
\renewcommand*{\@@maybeautodot}[1]{%
  \ifx #1\@stop\let\@@maybeautodot\relax
  \else
    \ifx #1\harfi \@autodottrue\fi
    \ifx #1\adadi \@autodottrue\fi
    \ifx #1\tartibi \@autodottrue\fi
    \ifx #1\Alph \@autodottrue\fi
    \ifx #1\alph \@autodottrue\fi
    \ifx #1\Roman \@autodottrue\fi
    \ifx #1\roman \@autodottrue\fi
    \ifx #1\@harfi \@autodottrue\fi
    \ifx #1\@adadi \@autodottrue\fi
    \ifx #1\@tartibi \@autodottrue\fi
    \ifx #1\@Alph \@autodottrue\fi
    \ifx #1\@alph \@autodottrue\fi
    \ifx #1\@Roman \@autodottrue\fi
    \ifx #1\@roman \@autodottrue\fi
    \ifx #1\romannumeral \@autodottrue\fi
  \fi
  \@@maybeautodot
}
```

54 File scrbook-xetex-xepersian.def

```
\ProvidesFile{scrbook-xetex-xepersian.def}[2022/05/22 v0.3 xepersian adaptations for scrbook
\renewcommand*\frontmatter{%
  \if@twoside\cleardoubleoddpage\else\clearpage\fi
  \@mainmatterfalse\pagenumbering{harfi}%
}
\renewcommand*{\thepart}{\@tartibi\c@part}
\renewcommand*\appendix{%
  \Ifstr{\@currenvir}{appendix}{%
    \ClassWarning{\KOMAClassName}{%
      You are using
      `\string\begin{appendix}...\string\end{appendix}'.\MessageBreak
      You should note, that `\string\appendix' is a mostly
```

```
      globally\MessageBreak
      working command not an enviroment with only local\MessageBreak
      effects. Therefore `\string\end{appendix}' will neither\MessageBreak
      switch back to normal section numbering nor finish\MessageBreak
      every other effect of `\string\begin{appendix}'.\MessageBreak
      Nevertheless, some effects may end with\MessageBreak
      `\string\end{appendix}' and the document may become\MessageBreak
      inconsistent.\MessageBreak
      Because of this, you should remove `\string\end{appendix}'\MessageBreak
      and replace `\string\begin{appendix}' by command\MessageBreak
      `\string\appendix'%
    }%
  }{}%
  \par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}%
}
\IfLTXAtLeastTF{2020/10/01}{%
  \g@addto@macro{\appendix}{\UseOneTimeHook{\KOMAClassName/appendix}}%
}{}
\g@addto@macro{\appendix}{\csname appendixmore\endcsname}
\renewcommand*{\@@maybeautodot}[1]{%
  \ifx #1\@stop\let\@@maybeautodot\relax
  \else
    \ifx #1\harfi \@autodottrue\fi
    \ifx #1\adadi \@autodottrue\fi
    \ifx #1\tartibi \@autodottrue\fi
    \ifx #1\Alph \@autodottrue\fi
    \ifx #1\alph \@autodottrue\fi
    \ifx #1\Roman \@autodottrue\fi
    \ifx #1\roman \@autodottrue\fi
    \ifx #1\@harfi \@autodottrue\fi
    \ifx #1\@adadi \@autodottrue\fi
    \ifx #1\@tartibi \@autodottrue\fi
    \ifx #1\@Alph \@autodottrue\fi
    \ifx #1\@alph \@autodottrue\fi
    \ifx #1\@Roman \@autodottrue\fi
    \ifx #1\@roman \@autodottrue\fi
    \ifx #1\romannumeral \@autodottrue\fi
  \fi
  \@@maybeautodot
}
```

55 File scrreprt-xetex-xepersian.def

```
\ProvidesFile{scrreprt-xetex-xepersian.def}[2022/05/22 v0.3 xepersian adaptations for scrrepr
\renewcommand*{\thepart}{\@tartibi\c@part}
\renewcommand*\appendix{%
  \Ifstr{\@currenvir}{appendix}{%
    \ClassWarning{\KOMAClassName}{%
      You are using
      `\string\begin{appendix}...\string\end{appendix}'.\MessageBreak
```

```
      You should note, that `\string\appendix' is a mostly
      globally\MessageBreak
      working command not an enviroment with only local\MessageBreak
      effects. Therefore `\string\end{appendix}' will neither\MessageBreak
      switch back to normal section numbering nor finish\MessageBreak
      every other effect of `\string\begin{appendix}'.\MessageBreak
      Nevertheless, some effects may end with\MessageBreak
      `\string\end{appendix}' and the document may become\MessageBreak
      inconsistent.\MessageBreak
      Because of this, you should remove `\string\end{appendix}'\MessageBreak
      and replace `\string\begin{appendix}' by command\MessageBreak
      `\string\appendix'%
    }%
  }{}%
  \par
  \setcounter{chapter}{0}%
  \setcounter{section}{0}%
  \gdef\@chapapp{\appendixname}%
  \gdef\thechapter{\@harfi\c@chapter}%
}
\IfLTXAtLeastTF{2020/10/01}{%
  \g@addto@macro{\appendix}{\UseOneTimeHook{\KOMAClassName/appendix}}%
}{}
\g@addto@macro{\appendix}{\csname appendixmore\endcsname}
\renewcommand*{\@@maybeautodot}[1]{%
  \ifx #1\@stop\let\@@maybeautodot\relax
  \else
    \ifx #1\harfi \@autodottrue\fi
    \ifx #1\adadi \@autodottrue\fi
    \ifx #1\tartibi \@autodottrue\fi
    \ifx #1\Alph \@autodottrue\fi
    \ifx #1\alph \@autodottrue\fi
    \ifx #1\Roman \@autodottrue\fi
    \ifx #1\roman \@autodottrue\fi
    \ifx #1\@harfi \@autodottrue\fi
    \ifx #1\@adadi \@autodottrue\fi
    \ifx #1\@tartibi \@autodottrue\fi
    \ifx #1\@Alph \@autodottrue\fi
    \ifx #1\@alph \@autodottrue\fi
    \ifx #1\@Roman \@autodottrue\fi
    \ifx #1\@roman \@autodottrue\fi
    \ifx #1\romannumeral \@autodottrue\fi
  \fi
  \@@maybeautodot
}
```

56 File soul-xetex-xepersian.def

```
\ProvidesFile{soul-xetex-xepersian.def}[2018/12/12 v0.2 xepersian adaptations for soul packag
\let\SOUL@tt@latin\SOUL@tt
\newfontface{\SOUL@tt@nonlatin}{Times New Roman}
\def\SOUL@tt{%
  \if@nonlatin
    \SOUL@tt@nonlatin
```

```
  \else
    \SOUL@tt@latin
  \fi
}
\bidi@appto\resetlatinfont{%
  \setbox\z@\hbox{\SOUL@tt-}%
  \SOUL@ttwidth\wd\z@
}
\bidi@appto\setpersianfont{%
  \setbox\z@\hbox{\SOUL@tt-}%
  \SOUL@ttwidth\wd\z@
}
```

57 File tkz-linknodes-xetex-xepersian.def

```
\ProvidesFile{tkz-linknodes-xetex-xepersian.def}[2012/06/13 v0.1 xepersian adaptations for tk
\renewcommand*{\@SetTab}{%
 \let\@alph\@latinalph%
  \ifnum \value{C@NumTab}>25\relax%
     \setcounter{C@NumTab}{1}%
  \else%
     \stepcounter{C@NumTab}%
  \fi%
    \setcounter{C@NumGroup}{0}%
 \newcommand*{\PrefixCurrentTab}{\alph{C@NumTab}}
  \setboolean{B@FirstLink}{true}
  \setboolean{B@NewGroup}{false}
  \setcounter{C@NumGroup}{0}
  \setcounter{C@CurrentGroup}{0}
  \setcounter{NumC@Node}{0}
  \setcounter{NumC@Stop}{0}
  \setcounter{C@NextNode}{0}
  \setcounter{C@CurrentStop}{0}
  \setcounter{C@CurrentNode}{0}
}%
```

58 File tocloft-xetex-xepersian.def

```
\ProvidesFile{tocloft-xetex-xepersian.def}[2025/01/03 v0.2 xepersian adaptations for tocloft
\IfClassLoadedT{memoir}{\endinput}
\renewcommand*{\cftchapname}{\if@RTL else\   chapter\fi}
\renewcommand*{\cftsecname}{\if@RTL else\   section\fi}
\renewcommand*{\cftsubsecname}{\if@RTL else\     subsection\fi}
\renewcommand*{\cftsubsubsecname}{\if@RTL else\       subsubsection\fi}
\renewcommand*{\cftparaname}{\if@RTL else\     paragraph\fi}
\renewcommand*{\cftsubparaname}{\if@RTL else\       subparagraph\fi}
\renewcommand*{\cftfigname}{\if@RTL else\   figure\fi}
\renewcommand*{\cftsubfigname}{\if@RTL else\     subfigure\fi}
\renewcommand*{\cfttabname}{\if@RTL else\   table\fi}
\renewcommand*{\cftsubtabname}{\if@RTL else\     subtable\fi}
```

59 File varioref-xetex-xepersian.def

```
\ProvidesFile{varioref-xetex-xepersian.def}[2018/09/29 v0.1 xepersian adaptations for varioref
```

```
\def\reftextfaceafter{%
  \if@RTL

\reftextvario{   }{  }%
  \else
    on the \reftextvario{facing}{next} page%
  \fi
}
\def\reftextfacebefore{%
  \if@RTL

\reftextvario{   }{  }%
  \else
    on the \reftextvario{facing}{preceding} page%
  \fi
}
\def\reftextafter{%
  \if@RTL

\reftextvario{  }{  }%
  \else
    on the \reftextvario{following}{next} page%
  \fi
}
\def\reftextbefore{%
  \if@RTL

\reftextvario{  }{  }%
  \else
    on the \reftextvario{preceding}{previous} page%
  \fi
}
\def\reftextcurrent{%
  \if@RTL

\reftextvario{     }{   %{
  \else
    on \reftextvario{this}{the current} page%
  \fi
}
\def\reftextfaraway#1{%
  \if@RTL
  %
~\pageref{#1}%
  \else
    on page~\pageref{#1}%
  \fi
}
\def\reftextpagerange#1#2{%
  \if@RTL
  %
~\pageref{#1}--\pageref{#2}%
  \else
    on pages~\pageref{#1}--\pageref{#2}%
```

```
  \fi
}
\def\reftextlabelrange#1#2{%
  \if@RTL
    \ref{#1} %ref{#2}\~
  \else
    \ref{#1} to~\ref{#2}%
  \fi
}
```

60 File xepersian.sty

```
\NeedsTeXFormat{LaTeX2e}
\def\xepersian@version{26.2}
\def\xepersiandate{2025/01/16}
\def\xepersian@releasename{Persian Gate}
\def\xepersian@persian@@releasename{    {
\newcommand*{\xepersianreleasename}{\if@RTL\xepersian@persian@@releasename\else\xepersian@rel
\ProvidesPackage{xepersian}[\xepersiandate\space v\xepersian@version\space (Release \xepersia
Persian typesetting in XeLaTeX]
\newif\if@xepersian@banner
\newif\if@xepersian@@computeautoilg
\DeclareUnknownKeyHandler{%
  \PassOptionsToPackage{\CurrentOption}{bidi}%
}
\ExplSyntaxOn
\msg_new:nnn {xepersian} {cannot-use-engine}
  {
    Oops!~can~not~use~\c_sys_engine_str.\\\\
    The~xepersian~package~requires~XeTeX.
  }
\sys_if_engine_xetex:F
  {
    \msg_fatal:nn {xepersian} {cannot-use-engine}
  }

\keys_define:nn { xepersian }
  {
    banner .choice: ,
    banner / on .code:n =
      \@xepersian@bannertrue
      \PassOptionsToPackage{banner=on}{bidi} ,
    banner / off .code:n =
      \@xepersian@bannerfalse
      \PassOptionsToPackage{banner=off}{bidi} ,
    banner .default:n = on
  }
\keys_define:nn { xepersian }
  {
    mathdigits .choice: ,
    mathdigits / automatic .code:n = \AtEndOfPackage{\AutoMathDigits} ,
    mathdigits / default .code:n = \AtEndOfPackage{\DefaultMathDigits} ,
    mathdigits / persian .code:n = \AtEndOfPackage{\PersianMathDigits}
  }
```

```
\keys_define:nn { xepersian }
  {
    inlinemathdigits .choice: ,
    inlinemathdigits / automatic .code:n = \AtEndOfPackage{\AutoInlineMathDigits} ,
    inlinemathdigits / default .code:n = \AtEndOfPackage{\DefaultInlineMathDigits} ,
    inlinemathdigits / persian .code:n = \AtEndOfPackage{\PersianInlineMathDigits}
  }
\keys_define:nn { xepersian }
  {
    displaymathdigits .choice: ,
    displaymathdigits / automatic .code:n = \AtEndOfPackage{\AutoDisplayMathDigits} ,
    displaymathdigits / default .code:n = \AtEndOfPackage{\DefaultDisplayMathDigits} ,
    displaymathdigits / persian .code:n = \AtEndOfPackage{\PersianDisplayMathDigits}
  }
\keys_define:nn { xepersian }
  {
    Kashida .choice: ,
    Kashida / on .code:n = \AtEndOfPackage{\input{kashida-xetex-xepersian.def}} ,
    Kashida / off .code:n = \relax ,
    Kashida .default:n = on
  }
\keys_define:nn { xepersian }
  {
    localize .choice: ,
    localize / on .code:n = \AtEndOfPackage{\input{localize-xetex-xepersian.def}} ,
    localize / off .code:n = \relax ,
    localize .default:n = on
  }
\cs_new_protected:Npn \__xepersian_quickindex_variant:n #1
{
  \AtEndOfPackage{%
      \ifwritexviii
        \@ifclassloaded{memoir}{%
          \PackageError{xepersian}{%
            This~feature~does~not~yet~work~with~the~memoir~class}{}%
        }{%
          \renewcommand\printindex{\newpage%
            \immediate\closeout\@indexfile
            \immediate\write18{%
              xindy~-L~persian-variant#1~-C~utf8~-M~texindy~-M~page-ranges~\jobname.idx}
               \@input@{\jobname.ind}}%
        }
      \else
        \PackageError{xepersian}{%
          "shell~escape"~(or~"write18")~is~not~enabled.~You~need~to~run~"xelatex~--shell-esca
      \fi
    }
}
\keys_define:nn { xepersian }
  {
    quickindex-variant .choice: ,
    quickindex-variant / one .code:n = \__xepersian_quickindex_variant:n { 1 } ,
    quickindex-variant / two .code:n = \__xepersian_quickindex_variant:n { 2 } ,
    quickindex-variant / three .code:n = \__xepersian_quickindex_variant:n { 3 }
```

```
  }
\keys_define:nn { xepersian }
  {
    abjad-variant .choice: ,
    abjad-variant / one .code:n =
      \def\PersianAlphs{%
        \let\@alph\@abjad
        \let\@Alph\@abjad
      } ,
    abjad-variant / two .code:n =
     \def\PersianAlphs{%
       \let\@alph\@Abjad
       \let\@Alph\@Abjad
     }
  }
\keys_define:nn { xepersian }
  {
    defaultlatinfontfeatures .code:n = \AtEndOfPackage{\defaultfontfeatures[\latinfont]{#1}}
  }
\keys_define:nn { xepersian }
  {
    mathfontsizescale .code:n = \def\xepersian@@math@fontsize@scale{#1}
  }
\keys_define:nn { xepersian }
  {
    fontsizescale .code:n = \def\xepersian@@fontsize@scale{#1}
  }
\keys_define:nn { xepersian }
  {
    fontsize .code:n = \AtEndOfPackage{\xepersian@@fontsize@branch{#1}}
  }
\keys_define:nn { xepersian }
  {
    latinfontsizescale .code:n = \def\xepersian@@latin@fontsize@scale{#1}
  }
\keys_define:nn { xepersian }
  {
    baselineskipscale .code:n = \def\xepersian@@baselineskip@scale{#1}
  }
\keys_define:nn { xepersian }
  {
    latinbaselineskipscale .code:n = \def\xepersian@@latin@baselineskip@scale{#1}
  }
\keys_define:nn { xepersian }
  {
    computeautoilg .choice: ,
    computeautoilg / on .code:n = \@xepersian@@computeautoilgtrue ,
    computeautoilg / off .code:n = \@xepersian@@computeautoilgfalse ,
    computeautoilg .default:n = on
  }
\keys_define:nn { xepersian }
  {
    debugtextdigitfont .choice: ,
    debugtextdigitfont / on .code:n = \AtEndOfPackage{%
```

```
      \bidi@AtEndPreamble{%
        \bidi@patchcmd\xepersian@@start@switch@textdigitfont\xepersian@textdigitfont{%
          \addfontfeature{Color=C71585}
        }{}{}
      }
    } ,
    debugtextdigitfont / off .code:n = \relax ,
    debugtextdigitfont .default:n = on
  }
\keys_set:nn { xepersian }
  {
    banner = on ,
    abjad-variant = two ,
    fontsizescale = \@ne ,
    latinfontsizescale = \@ne ,
    mathfontsizescale = \@ne ,
    baselineskipscale = \@ne ,
    latinbaselineskipscale = \@ne
  }
\ExplSyntaxOff
\ProcessKeyOptions
\edef\@xepersian@info{**************************************************^^J%
* ^^J%
* xepersian package (Persian for LaTeX, using XeTeX engine)^^J%
* ^^J%
* Description: The package supports Persian^^J%
* typesetting, using fonts provided in the^^J%
* distribution.^^J%
* ^^J%
* Copyright (c) 2008--2025 Vafa Khalighi^^J%
* Copyright (c) 2018--2020 bidi-tex GitHub Organization^^J%
* ^^J%
* v\xepersian@version\space (Release \xepersian@releasename), \xepersiandate^^J%
* ^^J%
* License: LaTeX Project Public License, version^^J%
* 1.3c or higher (your choice)^^J%
* ^^J%
* Location on CTAN: /macros/xetex/latex/xepersian^^J%
* ^^J%
* Issue tracker: https://github.com/xepersian/xepersian/issues^^J%
* ^^J%
* Discussions: https://github.com/xepersian/xepersian/discussions^^J%
* ^^J%
* Primary author of xepersian package: Vafa Khalighi.^^J%
* ^^J%
**************************************************}
\edef\xepersian@everyjob{\the\everyjob}
\if@xepersian@banner
  \typeout{\@xepersian@info}
  \everyjob{\xepersian@everyjob\typeout{\@xepersian@info}}
\fi
\RequirePackage{fontspec}
\RequirePackage{xepersian-persiancal}
\RequirePackage{xepersian-mathdigitspec}
```

```
\RequirePackage[%
  documentdirection=righttoleft,%
  tabledirection=righttoleft,%
  script=nonlatin,%
  footnotedirection=righttoleft,%
  footnoterule=automatic%
]{bidi}
\newcommand*{\xepersianversion}
  {\ensuremath\xepersian@version}
\newcommand*{\IfxepersianPackageVersionLater}[1]{%
  \ifdim\xepersian@version pt > #1 pt %
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}
\newcommand*{\IfxepersianPackageVersionBefore}[1]{%
  \ifdim\xepersian@version pt < #1 pt %
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}
\newcommand*{\IfxepersianPackageVersion}[1]{%
  \ifdim\xepersian@version pt = #1 pt %
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}
\def\prq{«}
\def\plq{»}
\def\xepersian@cmds@temp#1{%
  \begingroup\expandafter\expandafter\expandafter\endgroup
  \expandafter\ifx\csname xepersian@#1\endcsname\relax
    \begingroup
      \escapechar=-1 %
      \edef\x{\expandafter\meaning\csname#1\endcsname}%
      \def\y{#1}%
      \def\z##1->{}%
      \edef\y{\expandafter\z\meaning\y}%
    \expandafter\endgroup
    \ifx\x\y
      \expandafter\def\csname xepersian@#1\expandafter\endcsname
      \expandafter{%
        \csname#1\endcsname
      }%
    \fi
  \fi
}%
\xepersian@cmds@temp{shellescape}
\newif\ifwritexviii
\ifnum\xepersian@shellescape=1\relax
  \writexviiitrue
\else
\writexviiifalse
\fi
```

```
\newfontscript{Persian}{arab}
\newfontlanguage{Persian}{FAR}
\ExplSyntaxOn

\keys_define:nn {fontspec-opentype}
 {
   Ligatures / PersianTeX .code:n = { \tl_set:Nn \l__fontspec_mapping_tl {persian-tex-text}
   Ligatures / PersianTeXOff .code:n = { \tl_clear:N \l__fontspec_mapping_tl },
   Ligatures / PersianTeXReset .code:n = { \tl_clear:N \l__fontspec_mapping_tl },
 }

\keys_define:nn {fontspec-aat}
 {
  Ligatures / PersianTeX .code:n =
   {
     \tl_set:Nn \l__fontspec_mapping_tl { persian-tex-text }
   }
 }

\keys_define:nn {fontspec-opentype}
 {
   Ligatures / PersianTeXNoNumbers .code:n = { \tl_set:Nn \l__fontspec_mapping_tl {persian-t
   Ligatures / PersianTeXNoNumbersOff .code:n = { \tl_clear:N \l__fontspec_mapping_tl },
   Ligatures / PersianTeXNoNumbersReset .code:n = { \tl_clear:N \l__fontspec_mapping_tl },
 }

\keys_define:nn {fontspec-aat}
 {
  Ligatures / PersianTeXNoNumbers .code:n =
   {
     \tl_set:Nn \l__fontspec_mapping_tl { persian-tex-text-nonumbers }
   }
 }

\DeclareDocumentCommand \settextfont { O{} m O{} }
 {
   \__xepersian_main_settextfont:nn {#1,#3} {#2}
   \ignorespaces
 }
\cs_new:Nn \__xepersian_main_settextfont:nn
 {
  \fontspec_set_family:Nnn \l__fontspec_persianfont_family_tl {RawFeature={script=arab},Ligat
  \tl_set_eq:NN \rmdefault \l__fontspec_persianfont_family_tl
  \use:x { \exp_not:n { \DeclareRobustCommand \persianfont }
   {
    \exp_not:N \fontencoding { \g__fontspec_nfss_enc_tl }
    \exp_not:N \fontfamily { \l__fontspec_persianfont_family_tl }
    \exp_not:N \selectfont
   }
  }
  \str_if_eq:eeT {\familydefault} {\rmdefault}
    { \tl_set_eq:NN \encodingdefault \g__fontspec_nfss_enc_tl }
  \__xepersian_settextfont_hook:nn {#1} {#2}
  \normalfont
```

```
}

\cs_set_eq:NN \__xepersian_settextfont_hook:nn   \use_none:nn

\DeclareDocumentCommand \settextdigitfont { O{} m O{} }
 {
   \__xepersian_main_settextdigitfont:nn {#1,#3} {#2}
   \ignorespaces
 }
\cs_new:Nn \__xepersian_main_settextdigitfont:nn
 {
  \fontspec_set_family:Nnn \l__fontspec_textdigitfont_family_tl {Ligatures=PersianTeX,#1} {#2
  \use:x
   {
    \exp_not:n { \DeclareRobustCommand \xepersian@textdigitfont }
     {
      \exp_not:N \fontfamily { \l__fontspec_textdigitfont_family_tl }
      \exp_not:N \fontencoding { \g__fontspec_nfss_enc_tl }
      \exp_not:N \selectfont
     }
   }
   \__xepersian_settextdigitfont_hook:nn {#1} {#2}
   \XeTeXinterchartoks \e@alloc@intercharclass@top \bidi@digits@charclass = {\xepersian@@star
   \XeTeXinterchartoks \bidi@digits@charclass \e@alloc@intercharclass@top = {\xepersian@@stop
   \XeTeXinterchartoks \z@ \bidi@digits@charclass = {\xepersian@@start@switch@textdigitfont}
   \XeTeXinterchartoks \bidi@digits@charclass \z@ = {\xepersian@@stop@switch@textdigitfont}
   \XeTeXinterchartoks \bidi@digits@charclass  \bidi@sepmark@charclass = {\xepersian@@stop@sw
   \XeTeXinterchartoks \bidi@sepmark@charclass  \bidi@digits@charclass = {\DigitsDotDashInter
   \if@bidi@csundef{xepersian@dualjoiner}{}{%
     \XeTeXinterchartoks \xepersian@dualjoiner  \bidi@digits@charclass = {\xepersian@@start@s
     \XeTeXinterchartoks \bidi@digits@charclass  \xepersian@dualjoiner = {\xepersian@@stop@sw
     \XeTeXinterchartoks \xepersian@lam  \bidi@digits@charclass = {\xepersian@@start@switch@t
     \XeTeXinterchartoks \bidi@digits@charclass  \xepersian@lam = {\xepersian@@stop@switch@te
     \XeTeXinterchartoks \xepersian@alef  \bidi@digits@charclass = {\xepersian@@start@switch@
     \XeTeXinterchartoks \bidi@digits@charclass  \xepersian@alef = {\xepersian@@stop@switch@t
     \XeTeXinterchartoks \xepersian@rightjoiner  \bidi@digits@charclass = {\xepersian@@start@
     \XeTeXinterchartoks \bidi@digits@charclass  \xepersian@rightjoiner = {\xepersian@@stop@s
   }
 }

\newcommand*{\xepersian@@start@switch@textdigitfont}{\ifx\f@family\ttdefault\else\if@nonlatin
\newcommand*{\xepersian@@stop@switch@textdigitfont}{\ifx\f@family\ttdefault\else\if@nonlatin\

\cs_set_eq:NN \__xepersian_settextdigitfont_hook:nn   \use_none:nn

\DeclareDocumentCommand \setdigitfont { O{} m O{} }
 {
   \__xepersian_main_settextdigitfont:nn {#1,#3} {#2}
   \__xepersian_main_setmathdigitfont:nn {#1,#3} {#2}
   \ignorespaces
 }


\DeclareDocumentCommand \setlatintextfont { O{} m O{} }
```

```
  {
    \__xepersian_main_setlatintextfont:nn {#1,#3} {#2}
    \ignorespaces
  }
\cs_new:Nn \__xepersian_main_setlatintextfont:nn
 {
  \fontspec_set_family:Nnn \l__fontspec_latinfont_family_tl {Ligatures=TeX,#1} {#2}
  \use:x { \exp_not:n { \DeclareRobustCommand \latinfont }
   {
    \exp_not:N \fontencoding { \g__fontspec_nfss_enc_tl }
    \exp_not:N \fontfamily { \l__fontspec_latinfont_family_tl }
    \exp_not:N \selectfont
   }
  }
  \str_if_eq:eeT {\familydefault} {\rmdefault}
    { \tl_set_eq:NN \encodingdefault \g__fontspec_nfss_enc_tl }
  \__xepersian_setlatintextfont_hook:nn {#1} {#2}
  \normalfont
 }

\cs_set_eq:NN \__xepersian_setlatintextfont_hook:nn   \use_none:nn

\tl_set_eq:NN \setlatinsansfont \setsansfont
\tl_set_eq:NN \setlatinmonofont \setmonofont

\DeclareDocumentCommand \defpersianfont { m O{} m O{} }
  {
    \__xepersian_main_defpersianfont:NnnN #1 {#2,#4} {#3}
    \NewDocumentCommand
  }
\DeclareDocumentCommand \redefpersianfont { m O{} m O{} }
  {
    \__xepersian_main_defpersianfont:NnnN #1 {#2,#4} {#3}
    \RenewDocumentCommand
  }
\cs_new:Nn \__xepersian_main_defpersianfont:NnnN
 {
  \fontspec_set_family:cnn { l__fontspec_ \cs_to_str:N #1 _family_tl } {RawFeature={script=ar
  \use:x
   {
    \exp_not:N #4 \exp_not:N #1 {}
     {
      \exp_not:N \fontfamily { \use:c {l__fontspec_ \cs_to_str:N #1 _family_tl } }
      \exp_not:N \fontencoding { \g__fontspec_nfss_enc_tl }
      \exp_not:N \selectfont
     }
   }
 }

\DeclareDocumentCommand \deflatinfont { m O{} m O{} }
  {
    \__xepersian_main_deflatinfont:NnnN #1 {#2,#4} {#3}
    \NewDocumentCommand
  }
```

```
\DeclareDocumentCommand \redeflatinfont { m O{} m O{} }
 {
   \__xepersian_main_deflatinfont:NnnN #1 {#2,#4} {#3}
   \RenewDocumentCommand
 }
\cs_new:Nn \__xepersian_main_deflatinfont:NnnN
 {
  \fontspec_set_family:cnn { l__fontspec_ \cs_to_str:N #1 _family_tl } {Ligatures=TeX,#2} {#3
  \use:x
   {
    \exp_not:N #4 \exp_not:N #1 {}
     {
      \exp_not:N \fontfamily { \use:c {l__fontspec_ \cs_to_str:N #1 _family_tl } }
      \exp_not:N \fontencoding { \g__fontspec_nfss_enc_tl }
      \exp_not:N \selectfont
     }
   }
 }

\newcommand\persiansfdefault{}
\newcommand\persianttdefault{}
\newcommand\iranicdefault{}
\newcommand\navardefault{}
\newcommand\pookdefault{}
\newcommand\sayehdefault{}
\DeclareRobustCommand\persiansffamily
        {\not@math@alphabet\persiansffamily\mathpersiansf
         \fontfamily\persiansfdefault\selectfont}
\DeclareRobustCommand\persianttfamily
        {\not@math@alphabet\persianttfamily\mathpersiantt
         \fontfamily\persianttdefault\selectfont}
\DeclareRobustCommand\iranicfamily
        {\not@math@alphabet\iranicfamily\mathiranic
         \fontfamily\iranicdefault\selectfont}
\DeclareRobustCommand\navarfamily
        {\not@math@alphabet\navarfamily\mathnavar
         \fontfamily\navardefault\selectfont}
\DeclareRobustCommand\pookfamily
        {\not@math@alphabet\pookfamily\mathpook
         \fontfamily\pookdefault\selectfont}
\DeclareRobustCommand\sayehfamily
        {\not@math@alphabet\sayehfamily\mathsayeh
         \fontfamily\sayehdefault\selectfont}
\DeclareTextFontCommand{\textpersiansf}{\persiansffamily}
\DeclareTextFontCommand{\textpersiantt}{\persianttfamily}
\DeclareTextFontCommand{\textiranic}{\iranicfamily}
\DeclareTextFontCommand{\textnavar}{\navarfamily}
\DeclareTextFontCommand{\textpook}{\pookfamily}
\DeclareTextFontCommand{\textsayeh}{\sayehfamily}

\DeclareDocumentCommand \setpersiansansfont { O{} m O{} }
 {
   \__xepersian_main_setpersiansansfont:nn {#1,#3} {#2}
   \ignorespaces
```

```
  }
\cs_new:Nn \__xepersian_main_setpersiansansfont:nn
 {
  \fontspec_set_family:Nnn \l__fontspec_persiansffamily_family_tl {RawFeature={script=arab},I
  \tl_set_eq:NN \persiansfdefault \l__fontspec_persiansffamily_family_tl
  \use:x { \exp_not:n { \DeclareRobustCommand \persiansffamily }
   {
    \exp_not:N \fontencoding { \g__fontspec_nfss_enc_tl }
    \exp_not:N \fontfamily { \l__fontspec_persiansffamily_family_tl }
    \exp_not:N \selectfont
   }
  }
  \str_if_eq:eeT {\familydefault} {\persiansfdefault}
    { \tl_set_eq:NN \encodingdefault \g__fontspec_nfss_enc_tl }
  \__xepersian_setpersiansansfont_hook:nn {#1} {#2}
  \normalfont
 }

\cs_set_eq:NN \__xepersian_setpersiansansfont_hook:nn   \use_none:nn

\DeclareDocumentCommand \setpersianmonofont { O{} m O{} }
  {
    \__xepersian_main_setpersianmonofont:nn {#1,#3} {#2}
    \ignorespaces
  }
\cs_new:Nn \__xepersian_main_setpersianmonofont:nn
 {
  \fontspec_set_family:Nnn \l__fontspec_persianttfamily_family_tl {RawFeature={script=arab},I
  \tl_set_eq:NN \persianttdefault \l__fontspec_persianttfamily_family_tl
  \use:x { \exp_not:n { \DeclareRobustCommand \persianttfamily }
   {
    \exp_not:N \fontencoding { \g__fontspec_nfss_enc_tl }
    \exp_not:N \fontfamily { \l__fontspec_persianttfamily_family_tl }
    \exp_not:N \selectfont
   }
  }
  \str_if_eq:eeT {\familydefault} {\persianttdefault}
    { \tl_set_eq:NN \encodingdefault \g__fontspec_nfss_enc_tl }
  \__xepersian_setpersianmonofont_hook:nn {#1} {#2}
  \normalfont
 }

\cs_set_eq:NN \__xepersian_setpersianmonofont_hook:nn   \use_none:nn

\DeclareDocumentCommand \setnavarfont { O{} m O{} }
  {
    \__xepersian_main_setnavarfont:nn {#1,#3} {#2}
    \ignorespaces
  }
\cs_new:Nn \__xepersian_main_setnavarfont:nn
 {
  \fontspec_set_family:Nnn \l__fontspec_navarfamily_family_tl {RawFeature={script=arab},Ligat
  \tl_set_eq:NN \navardefault \l__fontspec_navarfamily_family_tl
  \use:x { \exp_not:n { \DeclareRobustCommand \navarfamily }
```

```
   {
    \exp_not:N \fontencoding { \g__fontspec_nfss_enc_tl }
    \exp_not:N \fontfamily { \l__fontspec_navarfamily_family_tl }
    \exp_not:N \selectfont
   }
  }
  \str_if_eq:eeT {\familydefault} {\navardefault}
    { \tl_set_eq:NN \encodingdefault \g__fontspec_nfss_enc_tl }
  \__xepersian_setnavarfont_hook:nn {#1} {#2}
  \normalfont
 }

\cs_set_eq:NN \__xepersian_setnavarfont_hook:nn   \use_none:nn

\DeclareDocumentCommand \setpookfont { O{} m O{} }
  {
    \__xepersian_main_setpookfont:nn {#1,#3} {#2}
    \ignorespaces
  }
\cs_new:Nn \__xepersian_main_setpookfont:nn
 {
  \fontspec_set_family:Nnn \l__fontspec_pookfamily_family_tl {RawFeature={script=arab},Ligatu
  \tl_set_eq:NN \pookdefault \l__fontspec_pookfamily_family_tl
  \use:x { \exp_not:n { \DeclareRobustCommand \pookfamily }
   {
    \exp_not:N \fontencoding { \g__fontspec_nfss_enc_tl }
    \exp_not:N \fontfamily { \l__fontspec_pookfamily_family_tl }
    \exp_not:N \selectfont
   }
  }
  \str_if_eq:eeT {\familydefault} {\pookdefault}
    { \tl_set_eq:NN \encodingdefault \g__fontspec_nfss_enc_tl }
  \__xepersian_setpookfont_hook:nn {#1} {#2}
  \normalfont
 }

\cs_set_eq:NN \__xepersian_setpookfont_hook:nn   \use_none:nn

\DeclareDocumentCommand \setsayehfont { O{} m O{} }
  {
    \__xepersian_main_setsayehfont:nn {#1,#3} {#2}
    \ignorespaces
  }
\cs_new:Nn \__xepersian_main_setsayehfont:nn
 {
  \fontspec_set_family:Nnn \l__fontspec_sayehfamily_family_tl {RawFeature={script=arab},Ligat
  \tl_set_eq:NN \sayehdefault \l__fontspec_sayehfamily_family_tl
  \use:x { \exp_not:n { \DeclareRobustCommand \sayehfamily }
   {
    \exp_not:N \fontencoding { \g__fontspec_nfss_enc_tl }
    \exp_not:N \fontfamily { \l__fontspec_sayehfamily_family_tl }
    \exp_not:N \selectfont
   }
  }
```

```
  \str_if_eq:eeT {\familydefault} {\sayehdefault}
    { \tl_set_eq:NN \encodingdefault \g__fontspec_nfss_enc_tl }
  \__xepersian_setsayehfont_hook:nn {#1} {#2}
  \normalfont
 }

\cs_set_eq:NN \__xepersian_setsayehfont_hook:nn   \use_none:nn

\DeclareDocumentCommand \setiranicfont { O{} m O{} }
 {
   \__xepersian_main_setiranicfont:nn {#1,#3} {#2}
   \ignorespaces
 }
\cs_new:Nn \__xepersian_main_setiranicfont:nn
 {
  \fontspec_set_family:Nnn \l__fontspec_iranicfamily_family_tl {RawFeature={script=arab},Liga
  \tl_set_eq:NN \iranicdefault \l__fontspec_iranicfamily_family_tl
  \use:x { \exp_not:n { \DeclareRobustCommand \iranicfamily }
   {
    \exp_not:N \fontencoding { \g__fontspec_nfss_enc_tl }
    \exp_not:N \fontfamily { \l__fontspec_iranicfamily_family_tl }
    \exp_not:N \selectfont
   }
  }
  \str_if_eq:eeT {\familydefault} {\iranicdefault}
    { \tl_set_eq:NN \encodingdefault \g__fontspec_nfss_enc_tl }
  \__xepersian_setiranicfont_hook:nn {#1} {#2}
  \normalfont
 }

\cs_set_eq:NN \__xepersian_setiranicfont_hook:nn   \use_none:nn

\ExplSyntaxOff
\def\resetlatinfont{%
\let\@xepersian@@fontsize@scale\xepersian@@fontsize@scale%
\let\@xepersian@@baselineskip@scale\xepersian@@baselineskip@scale%
\def\xepersian@@fontsize@scale{%
  \strip@pt\dimexpr 1pt * \dimexpr
  \xepersian@@latin@fontsize@scale pt\relax
  /  \dimexpr \@xepersian@@fontsize@scale pt\relax\relax
}%
\def\xepersian@@baselineskip@scale{%
  \strip@pt\dimexpr 1pt * \dimexpr
  \xepersian@@latin@baselineskip@scale pt\relax
  /  \dimexpr \@xepersian@@baselineskip@scale pt\relax\relax
}%
\@nonlatinfalse%
\let\normalfont\latinfont%
\let\reset@font\normalfont%
\latinfont%
\fontsize\f@size\f@baselineskip%
\selectfont%
\let\xepersian@@fontsize@scale\xepersian@@latin@fontsize@scale%
\let\xepersian@@baselineskip@scale\xepersian@@latin@baselineskip@scale%
```

```
}
\def\setpersianfont{%
\let\@xepersian@@fontsize@scale\xepersian@@fontsize@scale%
\let\@xepersian@@baselineskip@scale\xepersian@@baselineskip@scale%
\let\xepersian@@fontsize@scale\@ne%
\let\xepersian@@baselineskip@scale\@ne%
\@nonlatintrue%
\let\normalfont\persianfont%
\let\reset@font\normalfont%
\persianfont%
\fontsize\f@size\f@baselineskip%
\selectfont%
\let\xepersian@@fontsize@scale\@xepersian@@fontsize@scale%
\let\xepersian@@baselineskip@scale\@xepersian@@baselineskip@scale%
}
\bidi@newrobustcmd*{\lr}[1]{\LRE{\resetlatinfont#1}}
\bidi@newrobustcmd*{\rl}[1]{\RLE{\setpersianfont#1}}
\def\latin{\LTR\LatinAlphs\@RTL@footnotefalse\resetlatinfont}
\def\endlatin{\endLTR}
\newenvironment{latin*}{\latin
  \everypar{%
    {\setbox\z@\lastbox
      \ifvoid\z@
        \kern-\parindent
    \fi}%
  }%
}{\endlatin\@endpetrue}
\def\persian{\RTL\PersianAlphs\@RTL@footnotetrue\setpersianfont}
\def\endpersian{\endRTL}
\newenvironment{persian*}{\persian
  \everypar{%
    {\setbox\z@\lastbox
      \ifvoid\z@
        \kern-\parindent
    \fi}%
  }%
}{\endpersian\@endpetrue}
\newenvironment{latinitems}{\begin{LTRitems}\LatinAlphs\@RTL@footnotefalse\resetlatinfont}{\e
\newenvironment{persianitems}{\begin{RTLitems}\PersianAlphs\@RTL@footnotetrue\setpersianfont}
\let\originaltoday=\today
\def\latintoday{\lr{\originaltoday}}
\def\today{\rl{\persiantoday}}
\def \@LTRmarginparreset {%
        \reset@font
        \resetlatinfont
        \normalsize
        \@minipagetrue
        \everypar{\@minipagefalse\everypar{}\beginL}%
}
\DeclareRobustCommand\Latincite{%
  \@ifnextchar [{\@tempswatrue\@Latincitex}{\@tempswafalse\@Latincitex[]}}
\def\@Latincitex[#1]#2{\leavevmode
  \let\@citea\@empty
  \@cite{\lr{\@for\@citeb:=#2\do
```

```
    {\@citea\def\@citea{,\penalty\@m\ }%
     \edef\@citeb{\expandafter\@firstofone\@citeb\@empty}%
     \if@filesw\immediate\write\@auxout{\string\citation{\@citeb}}\fi
     \@ifundefined{b@\@citeb}{\hbox{\reset@font\bfseries ?}%
       \G@refundefinedtrue
       \@latex@warning
         {Citation `\@citeb' on page \thepage \space undefined}}%
       {\@cite@ofmt{\csname b@\@citeb\endcsname}}}}}{#1}}

\renewcommand*{\bidi@font@@outputpage}{\if@RTLmain\setpersianfont\else\resetlatinfont\fi}

\newcount\xepersian@tcl
\newdimen\xepersian@ilg
\newdimen\xepersian@strutilg
\chardef\f@ur=4
\newcommand*{\xepersian@computeautoilg}{% compute the interline glue
 \xepersian@tcl=1536\xepersian@ilg\z@\xepersian@strutilg\z@
 \loop
 \iffontchar\font\xepersian@tcl
 \ifdim\XeTeXglyphbounds\tw@ \the\XeTeXcharglyph\xepersian@tcl>\z@
 \ifdim\XeTeXglyphbounds\tw@ \the\XeTeXcharglyph\xepersian@tcl>\xepersian@ilg
   \xepersian@ilg=\XeTeXglyphbounds\tw@ \the\XeTeXcharglyph\xepersian@tcl
 \fi
 \else
 \ifdim\XeTeXglyphbounds\tw@ \the\XeTeXcharglyph\xepersian@tcl<\z@
  \ifdim-\XeTeXglyphbounds\tw@ \the\XeTeXcharglyph\xepersian@tcl>\xepersian@ilg
   \xepersian@ilg=-\XeTeXglyphbounds\tw@ \the\XeTeXcharglyph\xepersian@tcl
 \fi
 \fi
 \fi
 \ifdim\XeTeXglyphbounds\f@ur \the\XeTeXcharglyph\xepersian@tcl>\z@
 \ifdim\XeTeXglyphbounds\f@ur \the\XeTeXcharglyph\xepersian@tcl>\xepersian@strutilg
   \xepersian@strutilg=\XeTeXglyphbounds\f@ur \the\XeTeXcharglyph\xepersian@tcl
 \fi
 \else
 \ifdim\XeTeXglyphbounds\f@ur \the\XeTeXcharglyph\xepersian@tcl<\z@
  \ifdim-\XeTeXglyphbounds\f@ur \the\XeTeXcharglyph\xepersian@tcl>\xepersian@strutilg
   \xepersian@strutilg=-\XeTeXglyphbounds\f@ur \the\XeTeXcharglyph\xepersian@tcl
 \fi
 \fi
 \fi
 \fi
 \advance\xepersian@tcl\@ne
 \ifnum\xepersian@tcl<1792\repeat
 \advance\xepersian@strutilg\xepersian@ilg
% \ifdim\xepersian@strutilg>\baselineskip
%  \PackageInfo{xepersian}{character with height+depth greater than current baselineskip foun
%  \PackageInfo{xepersian}{baselineskip changed to that height+depth!}
%  \linespread{\strip@pt\dimexpr 1pt * \xepersian@strutilg / \baselineskip\relax}
%  \selectfont
% \fi
}

\newif\if@@textdigitfont@on
```

```
3577
3578 \newcommand{\TextDigitFontOn}{\@@textdigitfont@ontrue}
3579 \newcommand{\TextDigitFontOff}{\@@textdigitfont@onfalse}
3580
3581 \TextDigitFontOn
3582
3583 \newcommand*\xepersian@setlength[4]{%
3584     \ifdim #2<\ifdim #2=\z@ \z@ \else \p@\fi
3585       \ifdim #3<\ifdim #3=\z@ \z@ \else \p@\fi
3586         \ifdim #4<\ifdim #4=\z@ \z@ \else \p@\fi
3587           \setlength{#1}{\p@ \@plus\p@ \@minus\p@}%
3588         \else
3589           \setlength{#1}{\p@ \@plus\p@ \@minus#4}%
3590         \fi
3591       \else
3592         \ifdim #4<\ifdim #4=\z@ \z@ \else \p@\fi
3593           \setlength{#1}{\p@ \@plus#3 \@minus\p@}%
3594         \else
3595           \setlength{#1}{\p@ \@plus#3 \@minus#4}%
3596         \fi
3597       \fi
3598     \else
3599       \ifdim #3<\ifdim #3=\z@ \z@ \else \p@\fi
3600         \ifdim #4<\ifdim #4=\z@ \z@ \else \p@\fi
3601           \setlength{#1}{#2 \@plus\p@ \@minus\p@}%
3602         \else
3603           \setlength{#1}{#2 \@plus\p@ \@minus#4}%
3604         \fi
3605       \else
3606         \ifdim #4<\ifdim #4=\z@ \z@ \else \p@\fi
3607           \setlength{#1}{#2 \@plus#3 \@minus\p@}%
3608         \else
3609           \setlength{#1}{#2 \@plus#3 \@minus#4}%
3610         \fi
3611       \fi
3612     \fi
3613 }
3614
3615 \newcommand*{\setfontsize}[2][1.2\@tempdima]{%
3616   \@defaultunits\@tempdima#2pt\relax\@nnil
3617   \setlength{\@tempdimc}{\@tempdima}%
3618   \addtolength{\@tempdimc}{-10\p@}%
3619   \edef\@ptsize{\strip@pt\@tempdimc}%
3620   \@defaultunits\@tempdimb#1pt\relax\@nnil
3621   \setlength{\@tempdimc}{\dimexpr (100\@tempdimb / \@tempdima * \p@)}%
3622   \edef\@tempb{\the\@tempdimc}%
3623   \setlength{\@tempdimc}{\@tempdima}%
3624   \def\@tempa##1##2##3##4##5\@nnil{\def##1{##2.##3##4}}%
3625   \expandafter\@tempa\expandafter\@tempb\@tempb\@nnil%
3626     \xepersian@setlength{\abovedisplayskip}%
3627                   {.8333\@tempdimb}{.1667\@tempdimb}{.5\@tempdimb}%
3628     \xepersian@setlength{\abovedisplayshortskip}{\z@}{.25\@tempdimb}{\z@}%
3629     \xepersian@setlength{\belowdisplayshortskip}%
3630                   {.5\@tempdimb}{.25\@tempdimb}{.25\@tempdimb}%
```

```
\setlength{\belowdisplayskip}{\abovedisplayskip}%
\edef\normalsize{%
  \noexpand\@setfontsize\noexpand\normalsize
  {\the\@tempdima}{\the\@tempdimb}%
  \abovedisplayskip \the\abovedisplayskip
  \abovedisplayshortskip \the\abovedisplayshortskip
  \belowdisplayskip \the\belowdisplayskip
  \belowdisplayshortskip \the\belowdisplayshortskip
  \let\noexpand\@listi\noexpand\@listI
}%
\setlength{\@tempdima}{0.9125\@tempdimc}%
\setlength{\@tempdimb}{\@tempb\@tempdima}%
  \xepersian@setlength{\abovedisplayskip}%
                {.8333\@tempdimb}{.1667\@tempdimb}{.5\@tempdimb}%
  \xepersian@setlength{\abovedisplayshortskip}{\z@}{.25\@tempdimb}{\z@}%
  \xepersian@setlength{\belowdisplayshortskip}%
                {.5\@tempdimb}{.25\@tempdimb}{.25\@tempdimb}%
\setlength{\belowdisplayskip}{\abovedisplayskip}%
\edef\small{%
  \noexpand\@setfontsize\noexpand\small
  {\the\@tempdima}{\the\@tempdimb}%
  \abovedisplayskip \the\abovedisplayskip
  \abovedisplayshortskip \the\abovedisplayshortskip
  \belowdisplayskip \the\belowdisplayskip
  \belowdisplayshortskip \the\belowdisplayshortskip
  \let\noexpand\@listi\noexpand\@listi@small
}%
\setlength{\@tempdima}{.83334\@tempdimc}%
\setlength{\@tempdimb}{\@tempb\@tempdima}%
  \xepersian@setlength{\abovedisplayskip}%
                {.8333\@tempdimb}{.1667\@tempdimb}{.5\@tempdimb}%
  \xepersian@setlength{\abovedisplayshortskip}{\z@}{.25\@tempdimb}{\z@}%
  \xepersian@setlength{\belowdisplayshortskip}%
                {.5\@tempdimb}{.25\@tempdimb}{.25\@tempdimb}%
\setlength{\belowdisplayskip}{\abovedisplayskip}%
\edef\footnotesize{%
  \noexpand\@setfontsize\noexpand\footnotesize
  {\the\@tempdima}{\the\@tempdimb}%
  \abovedisplayskip \the\abovedisplayskip
  \abovedisplayshortskip \the\abovedisplayshortskip
  \belowdisplayskip \the\belowdisplayskip
  \belowdisplayshortskip \the\belowdisplayshortskip
  \let\noexpand\@listi\noexpand\@listi@footnotesize
}%
\setlength{\@tempdima}{.66667\@tempdimc}%
\setlength{\@tempdimb}{\@tempb\@tempdima}%
\edef\scriptsize{%
  \noexpand\@setfontsize\noexpand\scriptsize
  {\the\@tempdima}{\the\@tempdimb}%
}%
\setlength{\@tempdima}{.5\@tempdimc}%
\setlength{\@tempdimb}{\@tempb\@tempdima}%
\edef\tiny{%
  \noexpand\@setfontsize\noexpand\tiny
```

```
    {\the\@tempdima}{\the\@tempdimb}%
  }%
  \setlength{\@tempdima}{1.2\@tempdimc}%
  \setlength{\@tempdimb}{\@tempb\@tempdima}%
  \edef\large{%
    \noexpand\@setfontsize\noexpand\large
    {\the\@tempdima}{\the\@tempdimb}%
  }%
  \setlength{\@tempdima}{1.44\@tempdimc}%
  \setlength{\@tempdimb}{\@tempb\@tempdima}%
  \edef\Large{%
    \noexpand\@setfontsize\noexpand\Large
    {\the\@tempdima}{\the\@tempdimb}%
  }%
  \setlength{\@tempdima}{1.728\@tempdimc}%
  \setlength{\@tempdimb}{\@tempb\@tempdima}%
  \edef\LARGE{%
    \noexpand\@setfontsize\noexpand\LARGE
    {\the\@tempdima}{\the\@tempdimb}%
  }%
  \setlength{\@tempdima}{2.074\@tempdimc}%
  \setlength{\@tempdimb}{\@tempb\@tempdima}%
  \edef\huge{%
    \noexpand\@setfontsize\noexpand\huge
    {\the\@tempdima}{\the\@tempdimb}%
  }%
  \setlength{\@tempdima}{2.488\@tempdimc}%
  \setlength{\@tempdimb}{\@tempb\@tempdima}%
  \edef\Huge{%
    \noexpand\@setfontsize\noexpand\Huge
    {\the\@tempdima}{\the\@tempdimb}%
  }%
  \normalsize
    \setlength{\@tempdimb}{\f@baselineskip}%
    \xepersian@setlength{\parsep}%
                  {.3333\@tempdimb}{.1667\@tempdimb}{.0833\@tempdimb}%
    \xepersian@setlength{\topsep}%
                  {.6667\@tempdimb}{.1667\@tempdimb}{.3333\@tempdimb}%
  \@tempswafalse
  \begingroup
    \def\@list@extra{\aftergroup\@tempswatrue}%
    \csname @listi\endcsname
  \endgroup
  \edef\@listi{\leftmargin\leftmargini
    \topsep \the\topsep
    \parsep \the\parsep
    \itemsep \parsep
    \if@tempswa\noexpand\@list@extra\fi
  }%
  \let\@listI\@listi
    \xepersian@setlength{\parsep}%
                  {.1667\@tempdimb}{.0833\@tempdimb}{.0833\@tempdimb}%
    \xepersian@setlength{\topsep}%
                  {.3333\@tempdimb}{.1667\@tempdimb}{.1667\@tempdimb}%
```

```
\@tempswafalse
\begingroup
  \def\@list@extra{\aftergroup\@tempswatrue}%
  \csname @listi\endcsname
\endgroup
\edef\@listi@small{\leftmargin\leftmargini
  \topsep \the\topsep
  \parsep \the\parsep
  \itemsep \parsep
  \if@tempswa\noexpand\@list@extra\fi
}%
  \xepersian@setlength{\parsep}%
                {.125\@tempdimb}{.0625\@tempdimb}{.0625\@tempdimb}%
  \xepersian@setlength{\topsep}%
                {.25\@tempdimb}{.125\@tempdimb}{.125\@tempdimb}
\@tempswafalse
\begingroup
  \def\@list@extra{\aftergroup\@tempswatrue}%
  \csname @listi\endcsname
\endgroup
\edef\@listi@footnotesize{\leftmargin\leftmargini
  \topsep \the\topsep
  \parsep \the\parsep
  \itemsep \parsep
  \if@tempswa\noexpand\@list@extra\fi
}%
  \xepersian@setlength{\parsep}%
                {.1667\@tempdimb}{.0833\@tempdimb}{.0833\@tempdimb}%
  \xepersian@setlength{\topsep}%
                {.3333\@tempdimb}{.1667\@tempdimb}{.0833\@tempdimb}%
\@tempswafalse
\begingroup
  \def\@list@extra{\aftergroup\@tempswatrue}%
  \csname @listii\endcsname
\endgroup
\edef\@listii{\leftmargin\leftmarginii
  \labelwidth=\dimexpr \leftmargin-\labelsep
  \topsep \the\topsep
  \parsep \the\parsep
  \itemsep \parsep
  \if@tempswa\noexpand\@list@extra\fi
}%
  \xepersian@setlength{\topsep}%
                {.1667\@tempdimb}{.0833\@tempdimb}{.0833\@tempdimb}%
\setlength{\partopsep}{\z@ \@plus\z@ \@minus\p@}%
\@tempswafalse
\begingroup
  \def\@list@extra{\aftergroup\@tempswatrue}%
  \csname @listiii\endcsname
\endgroup
\edef\@listiii{\leftmargin\leftmarginiii
  \labelwidth=\dimexpr \leftmargin-\labelsep
  \topsep \the\topsep
  \parsep \z@
```

```
    \partopsep \the\partopsep
    \itemsep \topsep
    \if@tempswa\noexpand\@list@extra\fi
  }%
  \@tempswafalse
  \begingroup
    \def\@list@extra{\aftergroup\@tempswatrue}%
    \csname @listiv\endcsname
  \endgroup
  \edef\@listiv{\leftmargin\leftmarginiv
    \labelwidth=\dimexpr \leftmargin-\labelsep\relax
    \if@tempswa\noexpand\@list@extra\fi
  }%
  \@tempswafalse
  \begingroup
    \def\@list@extra{\aftergroup\@tempswatrue}%
    \csname @listv\endcsname
  \endgroup
  \edef\@listv{\leftmargin\leftmarginv
    \labelwidth=\dimexpr \leftmargin-\labelsep\relax
    \if@tempswa\noexpand\@list@extra\fi
  }%
  \@tempswafalse
  \begingroup
    \def\@list@extra{\aftergroup\@tempswatrue}%
    \csname @listvi\endcsname
  \endgroup
  \edef\@listvi{\leftmargin\leftmarginvi
    \labelwidth=\dimexpr \leftmargin-\labelsep\relax
    \if@tempswa\noexpand\@list@extra\fi
  }%
  \@listi
    \setlength{\@tempdimb}{\f@baselineskip}%
    \setlength{\footnotesep}{.555\@tempdimb}%
    \xepersian@setlength{\skip\footins}%
                  {.75\@tempdimb}{.3333\@tempdimb}{.1667\@tempdimb}%
    \xepersian@setlength{\floatsep}%
                  {\@tempdimb}{.1667\@tempdimb}{.1667\@tempdimb}%
    \xepersian@setlength{\textfloatsep}%
                  {1.6667\@tempdimb}{.1667\@tempdimb}{.3333\@tempdimb}%
    \setlength{\intextsep}{\floatsep}%
    \setlength{\dblfloatsep}{\floatsep}%
    \setlength{\dbltextfloatsep}{\textfloatsep}%
    \setlength{\@fptop}{\z@ \@plus 1fil}%
    \setlength{\@fpsep}{.6667\@tempdimb \@plus 2fil}%
    \setlength{\@fpbot}{\@fptop}%
    \setlength{\@dblfptop}{\@fptop}%
    \setlength{\@dblfpsep}{\@fpsep}%
    \setlength{\@dblfpbot}{\@fptop}%
    \xepersian@setlength{\partopsep}{.2\@tempdimb}{.1\@tempdimb}{.1\@tempdimb}%
}

\renewcommand*{\@bidi@logo@}{%
  \@bidi@logo@hb@xt@columnwidth
```

```
  {\hss\bfseries
        {\today}   {\TypesetTime}
  \textsf{\XePersian}\quad\@bidi@logo{xepersian-logo.pdf}}}

\renewcommand*{\@bidi@pdfcreator}{%
  The xepersian package, v\xepersian@version\space (Release \xepersian@releasename), \xepersi
}

\newcommand*{\@xepersian@pdfcustomproperties}{%
  This is the xepersian package, Version \xepersian@version\space (Release \xepersian@release
  Released January 16, 2025.
}

\newcommand\twocolumnstableofcontents{%
\if@bidi@csundef{multi@column@out}{%
\PackageError{xepersian}{Oops! you should load multicol package before xepersian package for
  \begin{multicols}{2}[\section*{\contentsname}]%
    \small
    \@starttoc{toc}%
  \end{multicols}}}
\bidi@newrobustcmd*{\XePersian}{\leavevmode$\smash{\hbox{X\lower.5ex
  \hbox{\kern-.125em\bidi@reflect@box{E}}Persian}}$}
\AtBeginDocument{%
  \def\figurename{\if@RTL else\   Figure\fi}%
  \def\tablename{\if@RTL else\   Table\fi}%
  \def\contentsname{\if@RTL     else\    Contents\fi}%
  \def\listfigurename{\if@RTL     else\    List of Figures\fi}%
  \def\listtablename{\if@RTL     else\    List of Tables\fi}%
  \def\appendixname{\if@RTL else\    Appendix\fi}%
  \def\indexname{\if@RTL else\    Index\fi}%
  \def\refname{\if@RTL else\    References\fi}%
  \def\abstractname{\if@RTL else\    Abstract\fi}%
  \def\partname{\if@RTL else\   Part\fi}%
  \def\datename{\if@RTL else\:    Date:\fi}%
  \def\@@and{\if@RTL else\  and\fi}%
  \def\bibname{\if@RTL else\     Bibliography\fi}%
  \def\chaptername{\if@RTL else\   Chapter\fi}%
  \def\ccname{\if@RTL else\    cc\fi}%
  \def\enclname{\if@RTL else\    encl\fi}%
  \def\pagename{\if@RTL else\   Page\fi}%
  \def\headtoname{\if@RTL else\  To\fi}%
  \def\proofname{\if@RTL else\    Proof\fi}%
}
\def\@Abjad#1{%
  \ifcase#1\or or\  or\  or\  %
            \or or\  or\  or\  or\  %
            \or or\  or\  or\  or\  %
            \or or\  or\  or\  %
            \or or\  or\  or\  or\  %
             \or or\  or\  or\  or\  %
             \else\@ctrerr\fi}
\def\Abjad#1{\expandafter\@Abjad\csname c@#1\endcsname}
\let\Abjadnumeral\@Abjad
\def\@harfi#1{\ifcase#1\or or\  or\  or\  or\  or\
```

```
or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\
or\ or\ or\ or\ or\ or\ or\ or\ or\ {else\@ctrerr\fi\
\def\harfi#1{\expandafter\@harfi\csname c@#1\endcsname}
\let\harfinumeral\@harfi
\newcommand{\adadi}[1]{%
\expandafter\@adadi\csname c@#1\endcsname%
}
\newcommand{\@adadi}[1]{%
\xepersian@numberstring{#1}\xepersian@yekanii{ }{}%
}
\let\adadinumeral\@adadi%
\def\xepersian@numberoutofrange#1#2{%
\PackageError{xepersian}{The number `#1' is too large %
to be formatted using xepersian}{The largest possible %
number is 999,999,999.}%
}
\def\xepersian@numberstring#1#2#3#4{%
\ifnum\number#1<\@ne%
#3%
\else\ifnum\number#1<1000000000 %
\expandafter\xepersian@adadi\expandafter{\number#1}#2%
\else%
\xepersian@numberoutofrange{#1}{#4}%
\fi\fi%
}
\def\xepersian@adadi#1#2{%
\expandafter\xepersian@@adadi%
\ifcase%
\ifnum#1<10 1%
\else\ifnum#1<100 2%
\else\ifnum#1<\@m 3%
\else\ifnum#1<\@M 4%
\else\ifnum#1<100000 5%
\else\ifnum#1<1000000 6%
\else\ifnum#1<10000000 7%
\else\ifnum#1<100000000 8%
\else9%
\fi\fi\fi\fi\fi\fi\fi\fi %
\or00000000#1% case 1: Add 8 leading zeros
\or0000000#1%  case 2: Add 7 leading zeros
\or000000#1%   case 3: Add 6 leading zeros
\or00000#1%    case 4: Add 5 leading zeros
\or0000#1%     case 5: Add 4 leading zeros
\or000#1%      case 6: Add 3 leading zeros
\or00#1%       case 7: Add 2 leading zeros
\or0#1%        case 8: Add 1 leading zero
\or#1%         case 9: Add no leading zeros
\or%
\@nil#2%
\fi%
}
\def\xepersian@@adadi#1#2#3#4#5#6#7\or#8\@nil#9{%
\ifnum#1#2#3>\z@
\xepersian@milyoongan#1#2#3%
```

```
\ifnum#7>\z@\ifnum#4#5#6>\z@\   \else\   \fi\else\ifnum#4#5#6>\z@\   \fi\fi%
\fi%
\ifnum#4#5#6>\z@%
\xepersian@sadgan#4#5#6{#1#2#3}{#4#5}\xepersian@yekani%
\ifnum#4#5#6>\@ne\fi%
%
\ifnum#7>\z@\   \fi%
\fi%
\xepersian@sadgan#7{#4#5#6}1#9%
}
\def\xepersian@milyoongan#1#2#3{%
\ifnum#1#2#3=\@ne%
\xepersian@sadgan#1#2#301\xepersian@yekaniii%
%
%
\else%
\xepersian@sadgan#1#2#301\xepersian@yekanii%
%
%
\fi%
}
\def\xepersian@sadgan#1#2#3#4#5#6{%
\ifnum#1>\z@%
\ifnum#4#1>\@ne\xepersian@yekaniv#1\fi%
%
\ifnum#2#3>\z@\   \fi%
\fi%
\ifnum#2#3<20%
\ifnum#5#2#3>\@ne#6{#2#3}\fi%
\else%
\xepersian@dahgan#2%
\ifnum#3>\z@\   \xepersian@yekani#3\fi%
#60%
\fi%
}
\def\xepersian@yekani#1{%
\ifcase#1\@empty\or or\  or\  or\  or\   or\   %
\or or\   or\   or\  or\  or\    or\    %
\or or\    or\    or\    %
\or or\   %fi\
}
\def\xepersian@yekanii#1{%
\ifcase#1\@empty\or %else\xepersian@yekani{#1}\fi\
}
\def\xepersian@yekaniii#1{%
\ifcase#1\@empty\or %else\xepersian@yekani{#1}\fi\
}
\def\xepersian@yekaniv#1{%
\ifcase#1\@empty\or\or or\   or\  or\   or\   %
\or or\   or\   %fi\
}
\def\xepersian@dahgan#1{%
\ifcase#1\or\or or\   or\  %
\or or\    or\   or\    %
```

```
\or %fi\
}
\newcommand{\tartibi}[1]{%
\expandafter\@tartibi\csname c@#1\endcsname%
}
\newcommand{\@tartibi}[1]{%
\xepersian@numberstring@tartibi{#1}\xepersian@tartibi{  }{ }%
}
\let\tartibinumeral\@tartibi%
\def\xepersian@numberstring@tartibi#1#2#3#4{%
\ifnum\number#1<\@ne%
#3%
\else\ifnum\number#1<1000000000 %
\expandafter\xepersian@adadi@tartibi\expandafter{\number#1}#2%
\else%
\xepersian@numberoutofrange{#1}{#4}%
\fi\fi%
}
\def\xepersian@adadi@tartibi#1#2{%
\expandafter\xepersian@@adadi@tartibi%
\ifcase%
\ifnum#1<10 1%
\else\ifnum#1<100 2%
\else\ifnum#1<\@m 3%
\else\ifnum#1<\@M 4%
\else\ifnum#1<100000 5%
\else\ifnum#1<1000000 6%
\else\ifnum#1<10000000 7%
\else\ifnum#1<100000000 8%
\else9%
\fi\fi\fi\fi\fi\fi\fi\fi %
\or00000000#1% case 1: Add 8 leading zeros
\or0000000#1%  case 2: Add 7 leading zeros
\or000000#1%   case 3: Add 6 leading zeros
\or00000#1%    case 4: Add 5 leading zeros
\or0000#1%     case 5: Add 4 leading zeros
\or000#1%      case 6: Add 3 leading zeros
\or00#1%       case 7: Add 2 leading zeros
\or0#1%        case 8: Add 1 leading zero
\or#1%         case 9: Add no leading zeros
\or%
\@nil#2%
\fi%
}
\def\xepersian@@adadi@tartibi#1#2#3#4#5#6#7\or#8\@nil#9{%
\ifnum#1#2#3>\z@
\xepersian@milyoongan@tartibi#1#2#3%
\ifnum#7>\z@\ifnum#4#5#6>\z@\   \else\   \fi\else\ifnum#4#5#6>\z@\   \fi\fi%
\fi%
\ifnum#4#5#6>\z@%
\xepersian@sadgan#4#5#6{#1#2#3}{#4#5}\xepersian@yekani%
\ifnum#4#5#6>\@ne \fi%
%
\ifnum#7>\z@\   \fi%
```

```
\fi%
\xepersian@sadgan@tartibi#7{#4#5#6}1#9%
}
\def\xepersian@milyoongan@tartibi#1#2#3{%
\ifnum#1#2#3=\@ne%
\xepersian@sadgan@tartibi#1#2#301\xepersian@yekaniii%
%
%
\else%
\xepersian@sadgan#1#2#301\xepersian@yekanii%
%
%
\fi%
}
\def\xepersian@sadgan@tartibi#1#2#3#4#5#6{%
\ifnum#1>\z@%
\ifnum#4#1>\@ne\xepersian@yekaniv#1\fi%
%
\ifnum#2#3>\z@\   \fi%
\fi%
\ifnum#2#3<20%
\ifnum#5#2#3>\@ne\ifnum#1#2#3#4#5=10001 %else#6{#2#3}\fi\fi\
\else%
\ifnum#2#3=30%
\xepersian@dahgan@tartibi#2%
\else%
\xepersian@dahgan#2%
\fi%
\ifnum#3>\z@\   \xepersian@yekanv#3\fi%
#60%
\fi%
}
\def\xepersian@dahgan@tartibi#1{%
\ifcase#1\or\or or\   or\   %
\or or\    or\   or\    %
\or %fi\
}
\def\xepersian@tartibi#1{%
\ifcase#1 \or or\   or\   or\   %
\or or\    or\   or\    or\   %
\or or\   or\    or\     %
\or or\     or\     %
\or or\    or\    %fi\
}
\def\xepersian@yekanv#1{%
\ifcase#1\@empty\or or\  or\  or\  or\   or\   %
\or or\   or\   or\  or\  or\    or\    %
\or or\    or\    or\    %
\or or\   %fi\
}
\providecommand*{\xpg@warning}[1]{%
   \PackageWarning{XePersian}%
   {#1}}
\if@bidi@csundef{@abjad}{%
```

```
\def\@abjad#1{%
\ifnum#1>1999 \xpg@warning{Illegal value (#1) for abjad numeral} {#1}
\else
  \ifnum#1<\z@\space\xpg@warning{Illegal value (#1) for abjad numeral}%
  \else
    \ifnum#1<10\expandafter\abj@num@i\number#1%
    \else
      \ifnum#1<100\expandafter\abj@num@ii\number#1%
      \else
        \ifnum#1<\@m\expandafter\abj@num@iii\number#1%
        \else
          \ifnum#1<\@M\expandafter\abj@num@iv\number#1%since #1<2000, we must have 1000
          \fi
        \fi
      \fi
    \fi
  \fi
\fi
}
\def\abjad#1{\expandafter\@abjad\csname c@#1\endcsname}
\let\abjadnumeral\@abjad
\def\abjad@zero{}
\def\abj@num@i#1{%
  \ifcase#1\or or\  or\  or\  %
            \or or\  or\  or\  or\  fi\
  \ifnum#1=\z@\abjad@zero\fi}
\def\abj@num@ii#1{%
  \ifcase#1\or or\  or\  or\  or\  %
            \or or\  or\  or\  fi\
  \ifnum#1=\z@\fi\abj@num@i}
\def\abj@num@iii#1{%
  \ifcase#1\or or\  or\  or\  or\  %
             \or or\  or\  or\  fi\
  \ifnum#1=\z@\fi\abj@num@ii}
\def\abj@num@iv#1{%
  \ifcase#1\or fi\
  \ifnum#1=\z@\fi\abj@num@iii}
}{}
\let\@latinalph\@alph%
\let\@latinAlph\@Alph%
\def\LatinAlphs{%
   \let\@alph\@latinalph%
   \let\@Alph\@latinAlph%
}
\def\thempfootnote{{\itshape\@latinalph\c@mpfootnote}}
\renewcommand*{\bidi@@thebibliography@font@hook}{%
\if@LTRbibitems
  \resetlatinfont
\fi}
\bidi@AfterEndPreamble{%
\if@bidi@csundef{persianfont}{%
\PackageError{xepersian}{You have not specified any font\MessageBreak
 for the main Persian text}{Use `\settextfont' to load a font.}%
}{}}
```

```
4171
4172 \ApplyPatchToFiles{%
4173   footnote-xetex-bidi, %
4174   extrafootnotefeatures-xetex-bidi %
4175 }[def][xepersian]
4176
4177 \ApplyPatchToClasses{%
4178   article, %
4179   amsart, %
4180   amsbook, %
4181   artikel1, %
4182   artikel2, %
4183   artikel3, %
4184   beamer, %
4185   bidimoderncv, %
4186   boek, %
4187   boek3, %
4188   book, %
4189   bookest, %
4190   extbook, %
4191   extarticle, %
4192   extreport, %
4193   imsproc, %
4194   memoir, %
4195   rapport1, %
4196   rapport3, %
4197   refrep, %
4198   report, %
4199   scrartcl, %
4200   scrbook, %
4201   scrreprt %
4202 }[xepersian]
4203
4204 \ApplyPatchToPackages{%
4205   algorithm, %
4206   algorithmic, %
4207   appendix, %
4208   backref, %
4209   beamerbasetranslator, %
4210   bidituftesidenote, %
4211   breqn, %
4212   enumerate, %
4213   enumitem, %
4214   fancyref, %
4215   framed, %
4216   glossaries, %
4217   hyperref, %
4218   listings, %
4219   minitoc, %
4220   natbib, %
4221   soul, %
4222   tkz-linknodes, %
4223   tocloft, %
4224   url, %
```

```
  varioref %
}[xepersian]

\newtoks\xepersian@toks
\def\xepersian@tempa#1{%
\long\def\xepersian@@sp@def##1##2{%
  \futurelet\xepersian@resa\xepersian@@sp@d##2\@nil\@nil#1\@nil\relax##1}%
\long\def\xepersian@@sp@d{%
  \ifx\xepersian@resa\@sptoken
    \expandafter\xepersian@@sp@b
  \else
    \expandafter\xepersian@@sp@b\expandafter#1%
  \fi}%
\long\def\xepersian@@sp@b#1##1 \@nil{\xepersian@@sp@c##1}%
  }
\xepersian@tempa{ }
\long\def\xepersian@@sp@c#1\@nil#2\relax#3{\xepersian@toks{#1}\edef#3{\the\xepersian@toks}}
\def\xepersian@@fontsize@branch#1{%
  \@tempcnta\z@
  \@for\xepersian@tmp:=#1\do{%
    \xepersian@@sp@def\xepersian@frag{\xepersian@tmp}%
    \ifcase\@tempcnta\relax% cnta == 0
      \edef\xepersian@value{\xepersian@frag}%
      \setfontsize{\xepersian@frag}%
    \or% cnta == 1
      \setfontsize[\xepersian@frag]{\xepersian@value}%
    \else\fi
    \advance\@tempcnta\@ne}%
}

\bidi@patchcmd{\set@fontsize}{\@tempdimb#2pt}{%
  \@tempdimb\xepersian@@fontsize@scale\dimexpr#2pt\relax
}{}{}

\bidi@patchcmd{\set@fontsize}{\@tempskipa#3pt}{%
  \@tempskipa\xepersian@@baselineskip@scale\dimexpr#3pt\relax
}{}{}


\newcommand*{\xepersian@@update@math@fontsize}[1]{%
  \strip@pt\dimexpr\xepersian@@math@fontsize@scale
  \dimexpr 1pt * \dimexpr #1 pt\relax /
  \dimexpr \xepersian@@fontsize@scale pt\relax
  \relax\relax
}

\bidi@patchcmd{\getanddefine@fonts}{%
  \xdef\font@name{\csname \string#2/\tf@size\endcsname}%
}{%
  \xdef\font@name{\csname \string#2/\xepersian@@update@math@fontsize\tf@size\endcsname}%
}{}{}

\bidi@patchcmd{\getanddefine@fonts}{%
  \xdef\font@name{\csname \string#2/\sf@size\endcsname}%
```

```
}{%
  \xdef\font@name{\csname \string#2/\xepersian@@update@math@fontsize\sf@size\endcsname}%
}{}{}

\bidi@patchcmd{\getanddefine@fonts}{%
  \xdef\font@name{\csname \string#2/\ssf@size\endcsname}%
}{%
  \xdef\font@name{\csname \string#2/\xepersian@@update@math@fontsize\ssf@size\endcsname}%
}{}{}


\if@xepersian@@computeautoilg
\bidi@patchcmd{\set@fontsize}{%
\baselineskip\f@baselineskip\relax
}{%
\baselineskip\f@baselineskip\relax
\xepersian@computeautoilg
 \ifdim\xepersian@strutilg>\baselineskip
  \PackageInfo{xepersian}{character with height+depth greater than current baselineskip found
  \PackageInfo{xepersian}{baselineskip changed to that height+depth!}%
  \baselineskip\xepersian@strutilg
  \ifdim\footnotesep=.7\baselineskip
  \else
    \footnotesep.7\baselineskip
  \fi
 \fi
}{}{}
\fi

\AtEndOfPackage{%
  \setlatintextfont[%
    Path,%
    BoldFont={lmroman10-bold},%
    BoldItalicFont={lmroman10-bolditalic},%
    ItalicFont={lmroman10-italic},%
    SmallCapsFont={lmromancaps10-regular},%
    SlantedFont={lmromanslant10-regular},%
    BoldSlantedFont={lmromanslant10-bold}%
  ]{lmroman10-regular}
}
\PersianAlphs
```

61 File xepersian-magazine.cls

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesClass{xepersian-magazine}[2010/07/25 v0.2 Typesetting Persian magazines in XeLaTeX]
\RequirePackage{ifthen}
\newlength{\xepersian@imgsize}
\newlength{\xepersian@coltitsize}
\newlength{\xepersian@pageneed}
\newlength{\xepersian@pageleft}
\newlength{\xepersian@indexwidth}
\newcommand{\xepersian@ncolumns}{0}
\newlength{\columnlines}
```

```
\setlength{\columnlines}{0 pt} % no lines by default
\newboolean{xepersian@hyphenatedtitles}
\setboolean{xepersian@hyphenatedtitles}{true}
\newboolean{xepersian@ninepoints}
\setboolean{xepersian@ninepoints}{false}
\newboolean{xepersian@showgrid}
\setboolean{xepersian@showgrid}{false}
\newboolean{xepersian@a3paper}
\setboolean{xepersian@a3paper}{false}
\newboolean{xepersian@insidefrontpage}
\setboolean{xepersian@insidefrontpage}{false}
\newboolean{xepersian@insideweather}
\setboolean{xepersian@insideweather}{false}
\newboolean{xepersian@insideindex}
\setboolean{xepersian@insideindex}{false}
\newcount\xepersian@gridrows
\newcount\xepersian@gridcolumns
\xepersian@gridrows=40
\xepersian@gridcolumns=50
\newcount\minraggedcols
\minraggedcols=5
\DeclareOption{10pt}{\PassOptionsToClass{10pt}{article}}
\DeclareOption{11pt}{\PassOptionsToClass{11pt}{article}}
\DeclareOption{12pt}{\PassOptionsToClass{12pt}{article}}
\DeclareOption{twocolumn}%
{\ClassWarning{xepersian-magazine}{Option 'twocolumn' not available for xepersian-magazine.}}
\DeclareOption{notitlepage}%
{\ClassWarning{xepersian-magazine}{Option 'notitlepage' not available for xepersian-magazine.
\DeclareOption{twoside}%
{\ClassWarning{xepersian-magazine}{Option 'twoside' not available for xepersian-magazine.}}
\DeclareOption{9pt}{\setboolean{xepersian@ninepoints}{true}}
\DeclareOption{hyphenatedtitles}{\setboolean{xepersian@hyphenatedtitles}{false}}
\DeclareOption{columnlines}{\setlength{\columnlines}{0.1 pt}}
\DeclareOption{showgrid}{\setboolean{xepersian@showgrid}{true}}
\DeclareOption{a3paper}{\setboolean{xepersian@a3paper}{true}}
\ProcessOptions\relax
\LoadClass[10pt, onecolumn, titlepage, a4paper]{article}
\RequirePackage{ifxetex}
\RequirePackage{multido}
\RequirePackage{datetime}
\RequirePackage{multicol}
\RequirePackage{fancyhdr}
\RequirePackage{fancybox}
\ifthenelse{\boolean{xepersian@a3paper}}{%
\RequirePackage[a3paper,headsep=0.5cm,vmargin={2cm,2cm},hmargin={1.5cm,1.5cm}]{geometry}
}{
\RequirePackage[headsep=0.5cm,vmargin={2cm,2cm},hmargin={1.5cm,1.5cm}]{geometry}
}
\RequirePackage[absolute]{textpos} % absoulte positioning
\RequirePackage{hyphenat} % when hyphenate
\RequirePackage{lastpage} % to know the last page number
\RequirePackage{setspace} % set space between lines
\RequirePackage{ragged2e}
\newcommand{\raggedFormat}{\RaggedLeft}
```

```
\AtEndOfClass{\xepersianInit}
\ifthenelse{\boolean{xepersian@showgrid}}{%
\AtBeginDocument{
\grid[show]{\xepersian@gridrows}{\xepersian@gridcolumns}}
\advance\minraggedcols by -1
}{%
\AtBeginDocument{
\grid[]{\xepersian@gridrows}{\xepersian@gridcolumns}}
\advance\minraggedcols by -1
}
\ifthenelse{\boolean{xepersian@ninepoints}}{
\renewcommand{\normalsize}{%
  \@setfontsize{\normalsize}{9pt}{10pt}%
  \setlength{\abovedisplayskip}{5pt plus 1pt minus .5pt}%
  \setlength{\belowdisplayskip}{\abovedisplayskip}%
  \setlength{\abovedisplayshortskip}{3pt plus 1pt minus 2pt}%
  \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}

\renewcommand{\tiny}{\@setfontsize{\tiny}{5pt}{6pt}}

\renewcommand{\scriptsize}{\@setfontsize{\scriptsize}{7pt}{8pt}}

\renewcommand{\small}{%
  \@setfontsize{\small}{8pt}{9pt}%
  \setlength{\abovedisplayskip}{4pt plus 1pt minus 1pt}%
  \setlength{\belowdisplayskip}{\abovedisplayskip}%
  \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
  \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}

\renewcommand{\footnotesize}{%
  \@setfontsize{\footnotesize}{8pt}{9pt}%
  \setlength{\abovedisplayskip}{4pt plus 1pt minus .5pt}%
  \setlength{\belowdisplayskip}{\abovedisplayskip}%
  \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
  \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}

\renewcommand{\large}{\@setfontsize{\large}{11pt}{13pt}}
\renewcommand{\Large}{\@setfontsize{\Large}{14pt}{18pt}}
\renewcommand{\LARGE}{\@setfontsize{\LARGE}{18pt}{20pt}}
\renewcommand{\huge}{\@setfontsize{\huge}{20pt}{25pt}}
\renewcommand{\Huge}{\@setfontsize{\Huge}{25pt}{30pt}}
}{}
\def\customwwwTxt#1{\gdef\@customwwwTxt{\lr{#1}}}
\newcommand{\xepersian@wwwFormat}{\sffamily}
\newcommand{\xepersian@www}{%
\raisebox{-3pt}{{\xepersian@wwwFormat\@customwwwTxt}}
}
\newcommand{\xepersian@edition}{    {
\newcommand{\editionFormat}{\large\bfseries\texttt}
\newcommand{\xepersian@editionLogo}{%
\raisebox{-3pt}{%
{\editionFormat\xepersian@edition}%
}%
}
```

```
\newcommand{\indexFormat}{\large\bfseries}
\newcommand{\xepersian@indexFrameTitle}[1]
{\begin{flushright}{{\indexFormat #1}}\end{flushright}}

\newcommand{\indexEntryFormat}{\normalsize}
\newcommand{\xepersian@indexEntry}[1]{\begin{minipage}{13\TPHorizModule}%
{\indexEntryFormat\noindent\ignorespaces{#1}}%
\end{minipage}}
\newcommand{\indexEntrySeparator}{\rule{\xepersian@indexwidth}{.1pt}}
\newcommand{\indexEntryPageTxt}{  }
\newcommand{\indexEntryPageFormat}{\footnotesize}
\newcommand{\xepersian@indexEntryPage}[1]{%
{\indexEntryPageFormat{\indexEntryPageTxt{}~#1}}%
}
\newcommand{\headDateTimeFormat}{}
\newcommand{\xepersian@headDateTime}{%
\headDateTimeFormat\date\hspace{5pt}$\parallel$\hspace{5pt}%
\currenttime %
}
\newcommand{\weatherFormat}{\bfseries}
\newcommand{\xepersian@weather}[1]{%
\noindent{\weatherFormat #1}%
}
\newcommand{\weatherTempFormat}{\small}
\newcommand{\weatherUnits}{\textdegree{}C}
\newcommand{\xepersian@section}[0]{   {
\newcommand{\xepersian@headleft}{%
{\small\bfseries \@custommagazinename}  \date
}
\newcommand{\xepersian@headcenter}{%
\xepersian@section{}
}
\newcommand{\xepersian@headright}{%
\small\xepersian@edition%
\hspace*{5pt}\beginL\thepage\ / \pageref{LastPage}\endL
}

\newcommand{\heading}[3]{%
\renewcommand{\xepersian@headleft}{\beginR#1\endR}%
\renewcommand{\xepersian@headcenter}{\beginR#2\endR}%
\renewcommand{\xepersian@headright}{\beginR#3\endR}%
}
\newcommand{\xepersian@footright}{%
{\footnotesize\lr{\copyright\ \@customwwwTxt{}}--    -    \lr{\XePersian}}%
}
\newcommand{\xepersian@footcenter}{%
}
\newcommand{\xepersian@footleft}{%
}

\newcommand{\foot}[3]{%
\renewcommand{\xepersian@footleft}{\beginR#1\endR}%
\renewcommand{\xepersian@footcenter}{\beginR#2\endR}%
\renewcommand{\xepersian@footright}{\beginR#3\endR}%
```

```
}
\newcommand{\firstTitleFormat}{\Huge\bfseries\flushright}
\newcommand{\xepersian@firstTitle}[1]{%
{%
\begin{spacing}{2.0}{%
\noindent\ignorespaces
\ifthenelse{\boolean{xepersian@hyphenatedtitles}}%
{\nohyphens{\firstTitleFormat #1}}%
{{\firstTitleFormat #1}}%
}%
\end{spacing}%
}%
}
\newcommand{\firstTextFormat}{}
\newcommand{\xepersian@firstText}[1]{%
{\noindent\ignorespaces\firstTextFormat #1}%
}
\newcommand{\secondTitleFormat}{\LARGE\bfseries}
\newcommand{\xepersian@secondTitle}[1]{%
\begin{spacing}{1.5}{%
\noindent\ignorespaces\flushright
\ifthenelse{\boolean{xepersian@hyphenatedtitles}}%
{\nohyphens{\secondTitleFormat #1}}%
{{\secondTitleFormat #1}}%
}\end{spacing}%
}
\newcommand{\secondSubtitleFormat}{\large}
\newcommand{\xepersian@secondSubtitle}[1]{%
{\noindent\ignorespaces{\secondSubtitleFormat #1}}%
}
\newcommand{\secondTextFormat}{}
\newcommand{\xepersian@secondText}[1]{%
\begin{multicols}{2}
{\noindent\ignorespaces\secondTextFormat #1}
\end{multicols}
}
\newcommand{\thirdTitleFormat}{\Large\bfseries}
\newcommand{\xepersian@thirdTitle}[1]{%
\begin{spacing}{1.5}{%
\noindent\ignorespaces\flushright
\ifthenelse{\boolean{xepersian@hyphenatedtitles}}%
{\nohyphens{\thirdTitleFormat #1}}%
{{\thirdTitleFormat #1}}%
}\end{spacing}%
}
\newcommand{\thirdSubtitleFormat}{\large}
\newcommand{\xepersian@thirdSubtitle}[1]%
{{\noindent\ignorespaces\thirdSubtitleFormat #1}}
\newcommand{\thirdTextFormat}{}
\newcommand{\xepersian@thirdText}[1]{{\thirdTextFormat #1}}
\newcommand{\pictureCaptionFormat}{\small\bfseries}
\newcommand{\xepersian@pictureCaption}[1]{%
{\noindent\pictureCaptionFormat #1}%
}
```

```
\newcommand{\pagesFormat}{\bfseries\footnotesize}
\newcommand{\xepersian@pages}[1]%
{\noindent{\pagesFormat\MakeUppercase{#1}}}
\newcommand{\innerTitleFormat}{\Huge}
\newcommand{\xepersian@innerTitle}[1]{%
\begin{flushright}{%
\noindent
\ifthenelse{\boolean{xepersian@hyphenatedtitles}}%
{\nohyphens{\innerTitleFormat #1}}%
{{\innerTitleFormat #1}}%
}%
\\%
\end{flushright}%
}
\newcommand{\innerSubtitleFormat}{\large}
\newcommand{\xepersian@innerSubtitle}[1]{{\innerSubtitleFormat #1}}
\newcommand{\timestampTxt}{}
\newcommand{\timestampSeparator}{|}
\newcommand{\timestampFormat}{\small}
\newcommand{\timestamp}[1]{%
{\timestampFormat%
#1~\timestampTxt{}%
}~\timestampSeparator{}%
}
\newcommand{\innerAuthorFormat}{\footnotesize}
\newcommand{\innerPlaceFormat}{\footnotesize\bfseries}
\newcommand{\innerTextFinalMark}{\rule{0.65em}{0.65em}}
\newcommand{\editorialTitleFormat}{\LARGE\textit}
\newcommand{\xepersian@editorialTitle}[1]{\editorialTitleFormat{#1}}
\newcommand{\editorialAuthorFormat}{\textsc}
\newcommand{\shortarticleTitleFormat}{\LARGE\bfseries}
\newcommand{\xepersian@shortarticleTitle}[1]{{\shortarticleTitleFormat #1}}
\newcommand{\shortarticleSubtitleFormat}{\Large}
\newcommand{\xepersian@shortarticleSubtitle}[1]{{\shortarticleSubtitleFormat #1}}
\newcommand{\shortarticleItemTitleFormat}{\large\bfseries}
\newcommand{\xepersian@shortarticleItemTitle}[1]{{\shortarticleItemTitleFormat #1}}
\renewcommand{\maketitle}{\begin{titlepage}%
  \let\footnotesize\small
  \let\footnoterule\relax
  \let \footnote \thanks
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 1em%
    {\LARGE «\xepersian@edition» \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%
```

```
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\newcommand{\xepersian@say}[1]{\typeout{#1}}
\newsavebox{\xepersian@fmbox}
\newenvironment{xepersian@fmpage}[1]
 {\begin{lrbox}{\xepersian@fmbox}\begin{minipage}{#1}}
 {\end{minipage}\end{lrbox}\fbox{\usebox{\xepersian@fmbox}}}
\newcommand{\image}[2]{
\vspace{5pt}
\setlength{\fboxsep}{1pt}
\addtolength{\xepersian@imgsize}{\columnwidth}
\addtolength{\xepersian@imgsize}{-1\columnsep}
\ifxetex
\setlength{\xepersian@pageneed}{1.5\xepersian@imgsize}
\addtolength{\xepersian@pageneed}{50pt}
\ClassWarning{xepersian-magazine}{%
Image #1 needs: \the\xepersian@pageneed \space %
and there is left: \the\page@free\space%
}
\ifdim \xepersian@pageneed < \page@free

{\centering\fbox{%
\includegraphics[width = \xepersian@imgsize,
height = \xepersian@imgsize,
keepaspectratio ]{#1}}}
\xepersian@pictureCaption{#2}

\vspace{5pt}
\else
\ClassWarning{Image #1 needs more space!%
  It was not inserted!}
\fi
\fi
}
\textblockorigin{1cm}{1cm}
\newdimen\xepersian@dx
\newdimen\xepersian@dy
\newcount\xepersian@cx
\newcount\xepersian@cy
\newcommand{\grid}[3][]{
```

```
\xepersian@dx=\textwidth%
\xepersian@dy=\textheight%
\xepersian@cx=#3% %columns
\xepersian@cy=#2% %rows

\count1=#3%
\advance\count1 by 1

\count2=#2%
\advance\count2 by 1

\divide\xepersian@dx by #3
\divide\xepersian@dy by #2

\setlength{\TPHorizModule}{\xepersian@dx}
\setlength{\TPVertModule}{\xepersian@dy}

\ifthenelse{\equal{#1}{show}}{
\multido{\xepersian@nrow=0+1}{\count2}{
\begin{textblock}{\xepersian@cx}(0,\xepersian@nrow)
\rule[0pt]{\textwidth}{.1pt}
\end{textblock}
}

\multido{\xepersian@ncol=0+1}{\count1}{
\begin{textblock}{\xepersian@cy}(\xepersian@ncol,0)
\rule[0pt]{.1pt}{\textheight}
\end{textblock}
}
}{}
}
\newcommand{\xepersianInit}{
\setlength{\headheight}{14pt}
\renewcommand{\headrulewidth}{0.4pt}

\pagestyle{fancy}

\setlength{\columnseprule}{\columnlines}
\setlength{\fboxrule}{0.1 pt}

}

\def\customlogo#1{\gdef\@customlogo{\beginR#1\endR}}
\def\customminilogo#1{\gdef\@customminilogo{\beginR#1\endR}}
\def\custommagazinename#1{\gdef\@custommagazinename{\beginR#1\endR}}
\newcommand{\logo}[0]{
%% Heading %%
\noindent\hrulefill\hspace{10pt}\xepersian@editionLogo\hspace{5pt}\xepersian@www

\vspace*{-3pt}

{\Large\bfseries \@customlogo}
\hrulefill
\hspace{10pt}\xepersian@headDateTime
```

```
4708
4709 }
4710 \newcommand{\minilogo}[0]{
4711 {\large\bfseries \@customminilogo}
4712
4713 \vspace*{5pt}
4714 }
4715 \newcommand{\mylogo}[1]{
4716 {\beginR#1\endR}
4717
4718 \noindent
4719 \xepersian@editionLogo\hspace{5pt}
4720 \hrulefill
4721 \hspace{5pt}\xepersian@headDateTime
4722 }
4723 \newcommand{\edition}[1]{\renewcommand{\xepersian@edition}{#1}}
4724 \newenvironment{frontpage}[0]
4725 {
4726 \setboolean{xepersian@insidefrontpage}{true}
4727 \thispagestyle{empty}
4728 \logo
4729
4730 }%
4731 {
4732 \thispagestyle{empty}
4733 \clearpage
4734 \newpage
4735 \fancyhead{}
4736  \fancyfoot{}
4737 \fancyhead[RO,LE]{\beginR\xepersian@headright\endR}
4738 \fancyhead[LO,RE]{\beginR\xepersian@headleft\endR}
4739     \fancyhead[C]{\beginR\xepersian@headcenter\endR}
4740     \fancyfoot[RO,LE]{\beginR\xepersian@footright\endR}
4741     \fancyfoot[LO,RE]{\beginR\xepersian@footleft\endR}
4742 \fancyfoot[C]{\beginR\xepersian@footcenter\endR}
4743 \renewcommand{\headrulewidth}{0.4pt}
4744 \setboolean{xepersian@insidefrontpage}{false}
4745
4746 }
4747 \newcommand{\firstarticle}[3]
4748 {
4749 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4750 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
4751 \begin{textblock}{24}(22,5)
4752 }
4753 {
4754 \begin{textblock}{28}(22,5)
4755 }
4756 \vspace{-7pt}
4757 \xepersian@firstTitle{#1}
4758 \end{textblock}
4759 \begin{textblock}{29}(22,10)
4760 \vspace{5pt plus 2pt minus 2pt}
4761
```

```
\xepersian@firstText{\timestamp{#3}~#2}

\end{textblock}

\begin{textblock}{50}(0,15)
\rule{50\TPHorizModule}{.3pt}
\end{textblock}
}{%else
\ClassError{xepersian-magazine}{%
\protect\firstarticle\space in a wrong place.\MessageBreak
\protect\firstarticle\space may only appear inside frontpage environment.
}{%
\protect\firstarticle\space may only appear inside frontpage environment.
}%
}
}
\newcommand{\secondarticle}[5]
{
\ifthenelse{\boolean{xepersian@insidefrontpage}}{%
\begin{textblock}{33}(2,16)
\xepersian@pages{#4}
\vspace{-5pt}
\xepersian@secondTitle{#1}

\vspace*{5pt}

\xepersian@secondSubtitle{#2}

\vspace*{-7pt}

\xepersian@secondText{\timestamp{#5}~#3}

\end{textblock}

\begin{textblock}{33}(2,25)
\vspace{5pt plus 2pt minus 2pt}

\noindent\ignorespaces\rule{33\TPHorizModule}{.3pt}
\end{textblock}
}{%else
\ClassError{xepersian-magazine}{%
\protect\secondarticle\space in a wrong place.\MessageBreak
\protect\secondarticle\space may only appear inside frontpage environment.
}{%
\protect\secondarticle\space may only appear inside frontpage environment.
}%
}
}
\newcommand{\thirdarticle}[6]
{
\ifthenelse{\boolean{xepersian@insidefrontpage}}{%
\begin{textblock}{32}(2,26)
\xepersian@pages{#5}
\vspace{-5pt}
```

```
\setlength{\fboxsep}{1pt}
\xepersian@thirdTitle{#1}

\vspace*{5pt}

\xepersian@thirdSubtitle{#2}

\vspace*{5pt}

{\noindent\ignorespaces %
\ifthenelse{\equal{#4}{}}{}

\xepersian@thirdText{\timestamp{#6}~#3}

}

\vspace*{5pt}

\end{textblock}
}{%else
\ClassError{xepersian-magazine}{%
\protect\thirdarticle\space in a wrong place.\MessageBreak
\protect\thirdarticle\space may only appear inside frontpage environment.
}{%
\protect\thirdarticle\space may only appear inside frontpage environment.
}%
}
}
\newcommand{\firstimage}[2]
{
\ifthenelse{\boolean{xepersian@insidefrontpage}}{%
\begin{textblock}{18}(2,5)
\setlength{\fboxsep}{1pt}
\ifxetex % only in PDF
\noindent\fbox{\includegraphics[width = 18\TPHorizModule ]{#1}}
\fi

\xepersian@pictureCaption{#2}
\end{textblock}%
}
{\ClassError{xepersian-magazine}{%
\protect\firstimage\space in a wrong place.\MessageBreak
\protect\firstimage\space may only appear inside frontpage environment.
}{%
\protect\firstimage\space may only appear inside frontpage environment.
}}
}%
\newcommand{\weatheritem}[5]{%
\ifthenelse{\boolean{xepersian@insideweather}}{
\begin{minipage}{45pt}
\ifxetex
\includegraphics[width=40pt]{#1}
\fi
\end{minipage}
```

```
\begin{minipage}{50pt}
\weatherTempFormat
#2\\
\beginL#3 $\|$ #4 \lr{\weatherUnits{}}\endL\\
#5
\end{minipage}
}{%else
\ClassError{xepersian-magazine}{%
\protect\weatheritem\space in a wrong place.\MessageBreak
\protect\weatheritem\space may only appear inside weatherblock environment.
}{%
\protect\weatheritem\space may only appear inside weatherblock environment.\MessageBreak
weatherblock environment may only appear inside frontpage environment.
}%
}
}
\newenvironment{weatherblock}[1]
{
\ifthenelse{\boolean{xepersian@insidefrontpage}}{%
\setboolean{xepersian@insideweather}{true}
\begin{textblock}{32}(2,38)
\vspace*{-15pt}

\xepersian@weather{\beginR#1\endR}

\vspace*{5pt}

\noindent\begin{xepersian@fmpage}{32\TPHorizModule}
\begin{minipage}{32\TPHorizModule}
\hspace{5pt}

}{%
\ClassError{xepersian-magazine}{%
weatherblock in a wrong place.\MessageBreak
weatherblock may only appear inside frontpage environment.
}{%
weatherblock may only appear inside frontpage environment.
}
}
}%
{
\end{minipage}
\end{xepersian@fmpage}
\end{textblock}
\setboolean{xepersian@insideweather}{false}
}
\newenvironment{authorblock}[0]
{
\ifthenelse{\boolean{xepersian@insidefrontpage}}{%
\begin{textblock}{15}(36,35)
\setlength{\fboxsep}{5pt}
\begin{xepersian@fmpage}{13\TPHorizModule}
\begin{minipage}{13\TPHorizModule}
\centering
```

```
\minilogo

}{%else
\ClassError{xepersian-magazine}{%
authorblock in a wrong place.\MessageBreak
authorblock may only appear inside frontpage environment.
}{%
authorblock may only appear inside frontpage environment.
}
}
}
{
\end{minipage}
\end{xepersian@fmpage}
\end{textblock}
}
\newenvironment{indexblock}[1]
{
\ifthenelse{\boolean{xepersian@insidefrontpage}}{%
\setboolean{xepersian@insideindex}{true}%let's in
\begin{textblock}{15}(36,16)
\setlength{\xepersian@indexwidth}{13\TPHorizModule}
\xepersian@indexFrameTitle{#1}

\setlength{\fboxsep}{5pt} %espacio entre el frame y la imagen
\begin{xepersian@fmpage}{\xepersian@indexwidth}
\begin{minipage}{\xepersian@indexwidth}
\vspace*{10pt}
}{%else
\ClassError{xepersian-magazine}{%
indexblock in a wrong place.\MessageBreak
indexblock may only appear inside frontpage environment.
}{%
indexblock may only appear inside frontpage environment.
}
}
}%
{
\end{minipage}
\end{xepersian@fmpage}
\end{textblock}
\setboolean{xepersian@insideindex}{false}%let's out
}
\newcommand{\indexitem}[2]
{
\ifthenelse{\boolean{xepersian@insideindex}}{
\xepersian@indexEntry{#1  \xepersian@indexEntryPage{\pageref{#2}}}

\vspace{0.5cm}

\noindent\ignorespaces\indexEntrySeparator{}
}{%else
\ClassError{xepersian-magazine}{%
\protect\indexitem\space in a wrong place.\MessageBreak
```

```
\protect\indexitem\space may only appear inside indexblock environment.
}{%
\protect\indexitem\space may only appear inside indexblock environment.\MessageBreak
indexblock environment may only appear inside frontpage environment.
}%
}
}
\newcommand{\xepersian@inexpandedtitle}[1]{
\begin{minipage}{.95\textwidth}
\begin{center}
\noindent\Large\textbf{\beginR#1\endR}
\end{center}
\end{minipage}
}
\newcommand{\expandedtitle}[2]{
\end{multicols}

\begin{center}
\setlength{\fboxsep}{5pt}
\setlength{\shadowsize}{2pt}
\ifthenelse{\equal{#1}{shadowbox}}{%
\shadowbox{%
\xepersian@inexpandedtitle{#2}%
}%
}{}
\ifthenelse{\equal{#1}{doublebox}}{%
\doublebox{%
\xepersian@inexpandedtitle{#2}%
}%
}{}
\ifthenelse{\equal{#1}{ovalbox}}{%
\ovalbox{%
\xepersian@inexpandedtitle{#2}%
}%
}{}
\ifthenelse{\equal{#1}{Ovalbox}}{%
\Ovalbox{%
\xepersian@inexpandedtitle{#2}%
}%
}{}
\ifthenelse{\equal{#1}{lines}}{
\hrule
\vspace*{8pt}
\begin{center}
\noindent\Large\textbf{#2}
\end{center}
\vspace*{8pt}
\hrule
}{}
\end{center}

\begin{multicols}{\xepersian@ncolumns{}}
\ifnum \xepersian@ncolumns > \minraggedcols
\raggedFormat
```

```
\fi
}
\newcommand{\xepersian@incolumntitle}[2]{
\begin{minipage}{#1}
\begin{center}
\noindent\normalsize\textbf{#2}
\end{center}
\end{minipage}
}

\newcommand{\columntitle}[2]{
\vspace*{5pt}
\begin{center}
\setlength{\fboxsep}{5pt}
\setlength{\shadowsize}{2pt}
\addtolength{\xepersian@coltitsize}{\columnwidth}
\addtolength{\xepersian@coltitsize}{-1\columnsep}
\addtolength{\xepersian@coltitsize}{-5pt}
\addtolength{\xepersian@coltitsize}{-1\shadowsize}
\ifthenelse{\equal{#1}{shadowbox}}{%
\shadowbox{%
\xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
}%
}{}
\ifthenelse{\equal{#1}{doublebox}}{%
\doublebox{%
\xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
}%
}{}
\ifthenelse{\equal{#1}{ovalbox}}{%
\ovalbox{%
\xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
}%
}{}
\ifthenelse{\equal{#1}{Ovalbox}}{%
\Ovalbox{%
\xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
}%
}{}
\ifthenelse{\equal{#1}{lines}}{
\hrule
\vspace*{5pt}
\begin{center}
\noindent\normalsize\textbf{#2}
\end{center}
\vspace*{5pt}
\hrule
}{}
\end{center}
}
\renewcommand{\date}{%
\longdate{\today}%
}
\newcommand{\authorandplace}[2]{%
```

```
\rightline{%
{\innerAuthorFormat #1},\space{}{\innerPlaceFormat #2}%
}%
\par %
}
\newcommand{\newsection}[1]{
\renewcommand{\xepersian@section}{#1}
}
\newenvironment{article}[5]
{
\xepersian@say{Adding a new piece of article}
\renewcommand{\xepersian@ncolumns}{#1}
\begin{multicols}{#1}[
\xepersian@pages{#4}
\xepersian@innerTitle{#2}%
\xepersian@innerSubtitle{#3}%
][4cm]%
\label{#5}
\ifnum #1 > \minraggedcols
\raggedFormat
\fi
}
{~\innerTextFinalMark{}
\end{multicols}
}
\newcommand{\articlesep}{%
\setlength{\xepersian@pageneed}{16000pt}
\setlength\xepersian@pageleft{\pagegoal}
\addtolength\xepersian@pageleft{-\pagetotal}

\xepersian@say{How much left \the\xepersian@pageleft}

\ifdim \xepersian@pageneed < \xepersian@pageleft
\xepersian@say{Not enough space}
\else
\xepersian@say{Adding sep line between articles}
\vspace*{10pt plus 10pt minus 5pt}
\hrule
\vspace*{10pt plus 5pt minus 5pt}
\fi

}
\newcommand{\xepersian@editorialTit}[2]{
\setlength{\arrayrulewidth}{.1pt}
\begin{center}
\begin{tabular}{c}
\noindent
\xepersian@editorialTitle{#1}
\vspace{2pt plus 1pt minus 1pt}
\\
\hline
\vspace{2pt plus 1pt minus 1pt}
\\
\editorialAuthorFormat{#2}
```

```
\end{tabular}
\end{center}
}
\newenvironment{editorial}[4]
{
\xepersian@say{Adding a new editorial}
\begin{multicols}{#1}[%
\xepersian@editorialTit{#2}{#3}%
][4cm]
\label{#4}
\ifnum #1 > \minraggedcols
\raggedFormat
\fi
}
{
\end{multicols}
}
\newcommand{\xepersian@shortarticleTit}[2]{
\begin{center}
\vbox{%
\noindent
\xepersian@shortarticleTitle{#1}
\vspace{4pt plus 2pt minus 2pt}
\hrule
\vspace{4pt plus 2pt minus 2pt}
\xepersian@shortarticleSubtitle{#2}
}
\end{center}
}
\newenvironment{shortarticle}[4]
{
\xepersian@say{Adding a short article block}
\begin{multicols}{#1}[\xepersian@shortarticleTit{#2}{#3}][4cm] %
    \label{#4}
\par %
\ifnum #1 > \minraggedcols
\raggedFormat
\fi
}
{
\end{multicols}
}
\newcommand{\shortarticleitem}[2]{
\goodbreak
\vspace{5pt plus 3pt minus 3pt}
{\vbox{\noindent\xepersian@shortarticleItemTitle{#1}}}
\vspace{5pt plus 3pt minus 3pt}
{\noindent #2}\\
}
```

62 File xepersian-mathdigitspec.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{xepersian-mathdigitspec}
```

```
  [2025/01/08 v1.2.2 Unicode Persian math digits in XeLaTeX]
\def\new@mathgroup{\alloc@8\mathgroup\chardef\@cclvi}
\let\newfam\new@mathgroup
\def\select@group#1#2#3#4{%
 \ifx\math@bgroup\bgroup\else\relax\expandafter\@firstofone\fi
 {%
 \ifmmode
  \ifnum\csname c@mv@\math@version\endcsname<\@cclvi
     \begingroup
       \escapechar\m@ne
       \getanddefine@fonts{\csname c@mv@\math@version\endcsname}#3%
       \globaldefs\@ne  \math@fonts
     \endgroup
     \init@restore@version
     \xdef#1{\noexpand\use@mathgroup\noexpand#2%
             {\number\csname c@mv@\math@version\endcsname}}%
     \global\advance\csname c@mv@\math@version\endcsname\@ne
   \else
     \let#1\relax
     \@latex@error{Too many math alphabets used in
                   version \math@version}%
        \@eha
   \fi
 \else \expandafter\non@alpherr\fi
 #1{#4}%
 }%
}
\def\document@select@group#1#2#3#4{%
 \ifx\math@bgroup\bgroup\else\relax\expandafter\@firstofone\fi
 {%
 \ifmmode
   \ifnum\csname c@mv@\math@version\endcsname<\@cclvi
     \begingroup
       \escapechar\m@ne
       \getanddefine@fonts{\csname c@mv@\math@version\endcsname}#3%
       \globaldefs\@ne  \math@fonts
     \endgroup
     \expandafter\extract@alph@from@version
         \csname mv@\math@version\expandafter\endcsname
         \expandafter{\number\csname
                       c@mv@\math@version\endcsname}%
          #1%
     \global\advance\csname c@mv@\math@version\endcsname\@ne
   \else
     \let#1\relax
     \@latex@error{Too many math alphabets used
                   in version \math@version}%
        \@eha
  \fi
 \else \expandafter\non@alpherr\fi
 #1{#4}%
 }%
}
\ExplSyntaxOn
```

```
\bool_set_false:N \g__fontspec_math_bool
\tl_map_inline:nn
 {
  \new@mathgroup\cdp@list\cdp@elt\DeclareMathSizes
  \@DeclareMathSizes\newmathalphabet\newmathalphabet@@\newmathalphabet@@@
  \DeclareMathVersion\define@mathalphabet\define@mathgroup\addtoversion
  \version@list\version@elt\alpha@list\alpha@elt
  \restore@mathversion\init@restore@version\dorestore@version\process@table
  \new@mathversion\DeclareSymbolFont\group@list\group@elt
  \new@symbolfont\SetSymbolFont\SetSymbolFont@\get@cdp
  \DeclareMathAlphabet\new@mathalphabet\SetMathAlphabet\SetMathAlphabet@
  \DeclareMathAccent\set@mathaccent\DeclareMathSymbol\set@mathchar
  \set@mathsymbol\DeclareMathDelimiter\@xxDeclareMathDelimiter
  \@DeclareMathDelimiter\@xDeclareMathDelimiter\set@mathdelimiter
  \set@@mathdelimiter\DeclareMathRadical\mathchar@type
  \DeclareSymbolFontAlphabet\DeclareSymbolFontAlphabet@
 }
 {
  \tl_remove_once:Nn \@preamblecmds {\do#1}
 }
\ExplSyntaxOff
\newcommand\xepersian@PackageInfo[1]{\PackageInfo{xepersian-mathdigitspec}{#1}}
\newcommand\SetMathCode[4]{%
  \Umathcode#1="\mathchar@type#2 \csname sym#3\endcsname #4\relax}
\newcommand\SetMathCharDef[4]{%
  \Umathchardef#1="\mathchar@type#2 \csname sym#3\endcsname #4\relax}
\ExplSyntaxOn
\cs_new_eq:NN \orig_mathbf:n \mathbf
\cs_new_eq:NN \orig_mathit:n \mathit
\cs_new_eq:NN \orig_mathrm:n \mathrm
\cs_new_eq:NN \orig_mathsf:n \mathsf
\cs_new_eq:NN \orig_mathtt:n \mathtt
%\int_const:Nn \c_one_int { 1 }
\NewDocumentCommand \new@mathbf { m } {
 \orig_mathbf:n {
   \int_step_inline:nnnn { `0 } { \c_one_int } { `9 } {
     \mathcode ##1 = \numexpr "100 * \symnew@mathbf@font@digits + ##1 \relax
   }
   #1
 }
}
\NewDocumentCommand \new@mathit { m } {
 \orig_mathit:n {
   \int_step_inline:nnnn { `0 } { \c_one_int } { `9 } {
     \mathcode ##1 = \numexpr "100 * \symnew@mathit@font@digits + ##1 \relax
   }
   #1
 }
}
\NewDocumentCommand \new@mathrm { m } {
 \orig_mathrm:n {
   \int_step_inline:nnnn { `0 } { \c_one_int } { `9 } {
     \mathcode ##1 = \numexpr "100 * \symnew@mathrm@font@digits + ##1 \relax
   }
```

```
    #1
  }
}
\NewDocumentCommand \new@mathsf{ m } {
  \orig_mathsf:n {
    \int_step_inline:nnnn { `0 } { \c_one_int } { `9 } {
      \mathcode ##1 = \numexpr "100 * \symnew@mathsf@font@digits + ##1 \relax
    }
    #1
  }
}
\NewDocumentCommand \new@mathtt{ m } {
  \orig_mathtt:n {
    \int_step_inline:nnnn { `0 } { \c_one_int } { `9 } {
      \mathcode ##1 = \numexpr "100 * \symnew@mathtt@font@digits + ##1 \relax
    }
    #1
  }
}

\cs_new:Npn \__xepersian_mathdigitspec_error:nxx    { \msg_error:nnxx    {xepersian-mathdigit
\cs_new:Nn \__xepersian_mathdigitspec_msg_new:nnnn
  { \msg_new:nnxx {#1} {#2} { \tl_trim_spaces:n {#3} } { \tl_trim_spaces:n {#4} } }
\char_set_catcode_space:n {32}
\__xepersian_mathdigitspec_msg_new:nnnn {xepersian-mathdigitspec} {char-not-exist}
 {
  The font "#1" does not contain U+#2.
 }
 {
  Select another font and rerun xelatex.
 }
\char_set_catcode_ignore:n {32}

%\__kernel_primitive:NN \iffontchar            \tex_iffontchar:D
\prg_new_conditional:Nnn \__xepersian_mathdigitspec_primitive_font_char_if_exist:n {p,TF,T,F}
  {
    \tex_iffontchar:D \l_fontspec_font "#1 \scan_stop:
      \prg_return_true:
    \else:
      \prg_return_false:
    \fi:
  }

\clist_new:N \l_xepersian_mathdigitspec_char_clist

\cs_new:Nn \__xepersian_mathdigitspec_char_set_not_exist_error:nn
 {
    \clist_set:Nn \l_xepersian_mathdigitspec_char_clist { #1 }
    \clist_map_inline:Nn \l_xepersian_mathdigitspec_char_clist {
      \__xepersian_mathdigitspec_primitive_font_char_if_exist:nF { ##1 }{ \__xepersian_mathdi
    }
 }

\cs_new:Nn \__xepersian_mathdigitspec_char_prepend_not_exist_error:nn
```

```
{
   \clist_put_left:Nn \l_xepersian_mathdigitspec_char_clist { #1 }
   \clist_map_inline:Nn \l_xepersian_mathdigitspec_char_clist {
     \__xepersian_mathdigitspec_primitive_font_char_if_exist:nF { ##1 }{ \__xepersian_mathdi
   }
}

\cs_new:Nn \__xepersian_mathdigitspec_char_append_not_exist_error:nn
{
   \clist_put_right:Nn \l_xepersian_mathdigitspec_char_clist { #1 }
   \clist_map_inline:Nn \l_xepersian_mathdigitspec_char_clist {
     \__xepersian_mathdigitspec_primitive_font_char_if_exist:nF { ##1 }{ \__xepersian_mathdi
   }
}

\cs_new:Nn \__xepersian_mathdigitspec_char_not_exist_error:n
{
   \__xepersian_mathdigitspec_char_set_not_exist_error:nn {
     06F0 , 06F1 , 06F2 , 06F3 , 06F4 , 06F5 , 06F6 , 06F7 , 06F8 ,
     06F9 , 066A , 066B
   } { #1 }
}

\DeclareDocumentCommand \setmathdigitfont { O{} m O{} }
 {
   \__xepersian_main_setmathdigitfont:nn {#1,#3} {#2}
 }
\cs_new:Nn \__xepersian_main_setmathdigitfont:nn
{
 \let\glb@currsize\relax
 \fontspec_set_family:Nnn \g__xepersian_mathdigitsfamily_tl {Ligatures=PersianTeX,#1} {#2}
 \__xepersian_setmathdigitfont_hook:nn {#1} {#2}
   \xepersian@PackageInfo{Defining the default Persian math digits font as '#2'}
 \DeclareSymbolFont{OPERATORS}   {\g_fontspec_encoding_tl}{\g__xepersian_mathdigitsfamily_tl
 \DeclareSymbolFont{new@mathbf@font@digits}{\g_fontspec_encoding_tl}{\g__xepersian_mathdigit
 \DeclareSymbolFont{new@mathit@font@digits}{\g_fontspec_encoding_tl}{\g__xepersian_mathdigit
 \DeclareSymbolFont{new@mathrm@font@digits}{\g_fontspec_encoding_tl}{\g__xepersian_mathdigit
 \__xepersian_mathdigitspec_char_not_exist_error:n { #2 }
 \def\persianmathdigits{%
 \SetMathCode{`0}{\mathalpha}{OPERATORS}{`0}
 \SetMathCode{`1}{\mathalpha}{OPERATORS}{`1}
 \SetMathCode{`2}{\mathalpha}{OPERATORS}{`2}
 \SetMathCode{`3}{\mathalpha}{OPERATORS}{`3}
 \SetMathCode{`4}{\mathalpha}{OPERATORS}{`4}
 \SetMathCode{`5}{\mathalpha}{OPERATORS}{`5}
 \SetMathCode{`6}{\mathalpha}{OPERATORS}{`6}
 \SetMathCode{`7}{\mathalpha}{OPERATORS}{`7}
 \SetMathCode{`8}{\mathalpha}{OPERATORS}{`8}
 \SetMathCode{`9}{\mathalpha}{OPERATORS}{`9}
 \SetMathCode{`\%}{\mathbin}{OPERATORS}{` }
 \SetMathCharDef{\persiandecimalseparator}{\mathord}{OPERATORS}{"066B}
 \tl_set_eq:NN \mathbf \new@mathbf
 \tl_set_eq:NN \mathit \new@mathit
 \tl_set_eq:NN \mathrm \new@mathrm}
```

```
}

\cs_set_eq:NN \__xepersian_setmathdigitfont_hook:nn     \use_none:nn

\DeclareDocumentCommand \setmathsfdigitfont { O{} m O{} }
 {
   \__xepersian_main_setmathsfdigitfont:nn {#1,#3} {#2}
 }
\cs_new:Nn \__xepersian_main_setmathsfdigitfont:nn
{
 \fontspec_set_family:Nnn \g__xepersian_mathsfdigitfamily_tl {Ligatures=PersianTeX,#1} {#2}
 \__xepersian_setmathsfdigitfont_hook:nn {#1} {#2}
     \DeclareSymbolFont{new@mathsf@font@digits}{\g_fontspec_encoding_tl}{\g__xepersian_maths
     \__xepersian_mathdigitspec_char_not_exist_error:n { #2 }
   \def\persianmathsfdigits{\tl_set_eq:NN \mathsf \new@mathsf}
}

\cs_set_eq:NN \__xepersian_setmathsfdigitfont_hook:nn     \use_none:nn

\DeclareDocumentCommand \setmathttdigitfont { O{} m O{} }
 {
   \__xepersian_main_setmathttdigitfont:nn {#1,#3} {#2}
 }
\cs_new:Nn \__xepersian_main_setmathttdigitfont:nn
{
 \fontspec_set_family:Nnn \g__xepersian_mathttdigitfamily_tl {Ligatures=PersianTeX,#1} {#2}
 \__xepersian_setmathttdigitfont_hook:nn {#1} {#2}
     \DeclareSymbolFont{new@mathtt@font@digits}{\g_fontspec_encoding_tl}{\g__xepersian_matht
     \__xepersian_mathdigitspec_char_not_exist_error:n { #2 }
   \def\persianmathttdigits{\tl_set_eq:NN \mathtt \new@mathtt}
}

\cs_set_eq:NN \__xepersian_setmathttdigitfont_hook:nn     \use_none:nn

\ExplSyntaxOff
\mathchardef\decimalseparator@point="013A
%{%
% \catcode`\.=\active
% \gdef.{\begingroup\obeyspaces\futurelet\@let@decimalsep@token\decimalseparator@pointcheck}}
\bgroup
  \uccode`\~`\.%
  \uppercase{%
\egroup
  \def~}{\begingroup\obeyspaces\futurelet\@let@decimalsep@token\decimalseparator@pointcheck}
\def\decimalseparator@pointcheck{\decimalseparator@check\MathDecimalSeparator\decimalseparato
\def\decimalseparator@check#1#2{%
  \ifx\@let@decimalsep@token1\endgroup#1\else
    \ifx\@let@decimalsep@token2\endgroup#1\else
      \ifx\@let@decimalsep@token3\endgroup#1\else
        \ifx\@let@decimalsep@token4\endgroup#1\else
          \ifx\@let@decimalsep@token5\endgroup#1\else
            \ifx\@let@decimalsep@token6\endgroup#1\else
              \ifx\@let@decimalsep@token7\endgroup#1\else
                \ifx\@let@decimalsep@token8\endgroup#1\else
```

```
                  \ifx\@let@decimalsep@token9\endgroup#1\else
                    \ifx\@let@decimalsep@token0\endgroup#1\else
                     \ifx\@let@decimalsep@token\dot\endgroup#1\else
                       \ifx\@let@decimalsep@token\overline\endgroup#1\else
                         \endgroup#2%
                       \fi
                     \fi
                    \fi
                  \fi
                \fi
              \fi
            \fi
          \fi
        \fi
      \fi
    \fi
  \fi}
\AtBeginDocument{\mathcode`.="8000\relax}
\def\MathDecimalSeparator{\ifx\persiandecimalseparator\undefined .\else \persiandecimalsepara
\def\DefaultMathDecimalSeparator{.}
\def\DefaultInlineMathDigits{\def\SetInlineMathDigits{}}
\def\DefaultDisplayMathDigits{\def\SetDisplayMathDigits{}}
\def\DefaultMathDigits{%
  \DefaultInlineMathDigits%
  \DefaultDisplayMathDigits%
}
\def\PersianInlineMathDigits{\def\SetInlineMathDigits{%
\ifx\persianmathdigits\undefined\else\persianmathdigits\fi%
\ifx\persianmathsfdigits\undefined\else\persianmathsfdigits\fi%
\ifx\persianmathttdigits\undefined\else\persianmathttdigits\fi}}
\def\PersianDisplayMathDigits{\def\SetDisplayMathDigits{%
\ifx\persianmathdigits\undefined\else\persianmathdigits\fi%
\ifx\persianmathsfdigits\undefined\else\persianmathsfdigits\fi%
\ifx\persianmathttdigits\undefined\else\persianmathttdigits\fi}}
\def\PersianMathDigits{%
  \PersianInlineMathDigits%
  \PersianDisplayMathDigits%
}
\def\AutoInlineMathDigits{\def\SetInlineMathDigits{%
\ifx\persianmathdigits\undefined\else\if@nonlatin\persianmathdigits\fi\fi%
\ifx\persianmathsfdigits\undefined\else\if@nonlatin\persianmathsfdigits\fi\fi%
\ifx\persianmathttdigits\undefined\else\if@nonlatin\persianmathttdigits\fi\fi}}
\def\AutoDisplayMathDigits{\def\SetDisplayMathDigits{%
\ifx\persianmathdigits\undefined\else\if@nonlatin\persianmathdigits\fi\fi%
\ifx\persianmathsfdigits\undefined\else\if@nonlatin\persianmathsfdigits\fi\fi%
\ifx\persianmathttdigits\undefined\else\if@nonlatin\persianmathttdigits\fi\fi}}
\def\AutoMathDigits{%
  \AutoInlineMathDigits%
  \AutoDisplayMathDigits%
}
\AutoMathDigits
\everymath\expandafter{\the\everymath\SetInlineMathDigits%
  \let\SetDisplayMathDigits\relax%
}
```

```
\everydisplay\expandafter{%
  \the\everydisplay\SetDisplayMathDigits%
  \let\SetInlineMathDigits\relax%
}

\ExplSyntaxOn
\cs_new_eq:NN \orig_MathDecimalSeparator \MathDecimalSeparator

\NewDocumentCommand \SwitchToDefaultMathDigits {  } {
  \int_step_inline:nnnn { `0 } { \c_one_int } { `9 } {
    \SetMathCode{##1}{\mathalpha}{operators}{##1}
  }
  \SetMathCode{`\%}{\mathbin}{operators}{`\%}
  \tl_set_eq:NN \MathDecimalSeparator \DefaultMathDecimalSeparator
  \tl_set_eq:NN \mathbf \orig_mathbf:n
  \tl_set_eq:NN \mathit \orig_mathit:n
  \tl_set_eq:NN \mathrm \orig_mathrm:n
  \tl_set_eq:NN \mathsf \orig_mathsf:n
  \tl_set_eq:NN \mathtt \orig_mathtt:n
}

\NewDocumentCommand \SwitchToPersianMathDigits {  } {
  \int_step_inline:nnnn { `0 } { \c_one_int } { `9 } {
    \SetMathCode{##1}{\mathalpha}{OPERATORS}{##1}
  }
  \SetMathCode{`\%}{\mathbin}{OPERATORS}{` }
  \tl_set_eq:NN \MathDecimalSeparator \orig_MathDecimalSeparator
  \tl_set_eq:NN \mathbf \new@mathbf
  \tl_set_eq:NN \mathit \new@mathit
  \tl_set_eq:NN \mathrm \new@mathrm
  \tl_set_eq:NN \mathsf \new@mathsf
  \tl_set_eq:NN \mathtt \new@mathtt
}
\ExplSyntaxOff
```

63 File xepersian-multiplechoice.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{xepersian-multiplechoice}[2010/07/25 v0.2
                    Multiple Choice Questionnaire class for Persian in XeLaTeX]
\RequirePackage{pifont}
\RequirePackage{fullpage}
\RequirePackage{ifthen}
\RequirePackage{calc}
\RequirePackage{verbatim}
\RequirePackage{tabularx}
\def\@headerfont{\bfseries}
\newcommand\headerfont[1]{\gdef\@headerfont{#1}}
\def\@X{X}
\newcommand\X[1]{\gdef\@X{#1}}
\def\pbs#1{\let\tmp=\\#1\let\\=\tmp}
\newcolumntype{D}{>{\pbs\centering}X}
\newcolumntype{Q}{>{\@headerfont}X}

```

```
\renewcommand\tabularxcolumn[1]{m{#1}}
\newcommand\makeform@nocorrection{%
  \addtocontents{frm}{\protect\end{tabularx}}
  \@starttoc{frm}}
\newcommand\makeform@correction{%
  \addtocontents{frm}{\protect\end{tabularx}}}
\newcommand\makemask@nocorrection{%
  \addtocontents{msk}{\protect\end{tabularx}}
  \@starttoc{msk}}
\newcommand\makemask@correction{%
  \addtocontents{msk}{\protect\end{tabularx}}}
\newlength\questionspace
\setlength\questionspace{0pt}
\newcommand\answerstitle[1]{\gdef\@answerstitle{#1}}
\def\@answerstitlefont{\bfseries}
\newcommand\answerstitlefont[1]{\gdef\@answerstitlefont{#1}}
\def\@answernumberfont{\bfseries}
\newcommand\answernumberfont[1]{\gdef\@answernumberfont{#1}}
\newcounter{question}\stepcounter{question}
\newcounter{@choice}
\def\@initorcheck{%
  \xdef\@choices{\the@choice}%
  \setcounter{@choice}{1}%
  \gdef\@arraydesc{|Q||}%
  \gdef\@headerline{}%
  \whiledo{\not{\value{@choice}>\@choices}}{
    \xdef\@arraydesc{\@arraydesc D|}
    \def\@appendheader{\g@addto@macro\@headerline}
    \@appendheader{&\protect\@headerfont}
    \edef\@the@choice{{\alph{@choice}}}
    \expandafter\@appendheader\@the@choice
    \stepcounter{@choice}}%
  \addtocontents{frm}{%
    \protect\begin{tabularx}{\protect\linewidth}{\@arraydesc}
    \protect\hline
    \@headerline\protect\\\protect\hline\protect\hline}%
  \addtocontents{msk}{%
    \protect\begin{tabularx}{\protect\linewidth}{\@arraydesc}
    \protect\hline
    \@headerline\protect\\\protect\hline\protect\hline}%
  \gdef\@initorcheck{%
    \ifthenelse{\value{@choice} = \@choices}{}{%
      \ClassError{xepersian-multiplechoice}{Question \thequestion: wrong number of choices
        (\the@choice\space instead of \@choices)}{%
        Questions must all have the same number of proposed answers.%
        \MessageBreak
        Type X <return> to quit, fix your MCQ (multiple choice question) and rerun XeLaTeX.}}}
\newenvironment{question}[1]{%
  %% \begin{question}
  \begin{minipage}{\textwidth}
    \xdef\@formanswerline{\@questionheader}%
    \xdef\@maskanswerline{\@questionheader}%
    \fbox{\parbox[c]{\linewidth}{#1}}
    \vspace\questionspace\par
```

```
    {\@answerstitlefont\@answerstitle}
    \begin{list}{\@answernumberfont\alph{@choice})~}{\usecounter{@choice}}}{%
  %% \end{question}
    \end{list}
    \@initorcheck%
    \addtocontents{frm}{\@formanswerline\protect\\\protect\hline}%
    \addtocontents{msk}{\@maskanswerline\protect\\\protect\hline}%
  \end{minipage}
  \stepcounter{question}}
\def\@truesymbol{\ding{52}~}
\def\@falsesymbol{\ding{56}~}
\newcommand\truesymbol[1]{\gdef\@truesymbol{#1}}
\newcommand\falsesymbol[1]{\gdef\@falsesymbol{#1}}
\def\@true@nocorrection{\item}
\def\@false@nocorrection{\item}
\def\@true@correction{\item[\@truesymbol\refstepcounter{@choice}]}
\def\@false@correction{\item[\@falsesymbol\refstepcounter{@choice}]}
\newcommand\true{%
  \xdef\@formanswerline{\@formanswerline&}%
  \xdef\@maskanswerline{\@maskanswerline&\@X}%
  \@true}%
\newcommand\false{%
  \xdef\@formanswerline{\@formanswerline&}%
  \xdef\@maskanswerline{\@maskanswerline&}%
  \@false}%
\def\@correctionstyle{\itshape}
\newcommand\correctionstyle[1]{\gdef\@correctionstyle{#1}}
\newenvironment{@correction}{\@correctionstyle}{}
 \def\@questionheader{    \thequestion}
  \answerstitle{     {:
\DeclareOption{nocorrection}{%
  \let\@true\@true@nocorrection
  \let\@false\@false@nocorrection
  \let\correction\comment
  \let\endcorrection\endcomment
  \def\makeform{\makeform@nocorrection}
  \def\makemask{\makemask@nocorrection}}
\DeclareOption{correction}{%
  \let\@true\@true@correction
  \let\@false\@false@correction
  \let\correction\@correction
  \let\endcorrection\end@correction
  \def\makeform{\makeform@correction}
  \def\makemask{\makemask@correction}}
\ExecuteOptions{nocorrection}
\newcommand\questiontitle[1]{\gdef\@questiontitle{#1}}
\def\@questiontitlefont{\bfseries}
\newcommand\questiontitlefont[1]{\gdef\@questiontitlefont{#1}}
\newlength\questiontitlespace
\setlength\questiontitlespace{5pt}
\newlength\questionsepspace
\setlength\questionsepspace{20pt}
\gdef\@questionsepspace{0pt}
\let\old@question\question
```

```
\let\old@endquestion\endquestion
\renewenvironment{question}[1]{%
  %% \begin{question}
  \vspace\@questionsepspace
  \fbox{\parbox[c]{0.25\linewidth}{\@questiontitlefont\@questiontitle}}
  \nopagebreak\vspace\questiontitlespace\par
  \old@question{#1}}{%
  %% \end{question}
  \old@endquestion
  \gdef\@questionsepspace{\questionsepspace}}
 \questiontitle{   \thequestion:}
\ProcessOptions
```

64 File xepersian-persiancal.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{xepersian-persiancal}[2025/01/01 v0.3 provides Persian calendar]

\newif\ifXePersian@leap \newif\ifXePersian@kabiseh
\newcount\XePersian@i  \newcount\XePersian@y  \newcount\XePersian@m  \newcount\XePersian@d
\newcount\XePersian@latini    \newcount\XePersian@persiani
\newcount\XePersian@latinii   \newcount\XePersian@persianii
\newcount\XePersian@latiniii  \newcount\XePersian@persianiii
\newcount\XePersian@latiniv   \newcount\XePersian@persianiv
\newcount\XePersian@latinv    \newcount\XePersian@persianv
\newcount\XePersian@latinvi   \newcount\XePersian@persianvi
\newcount\XePersian@latinvii  \newcount\XePersian@persianvii
\newcount\XePersian@latinviii \newcount\XePersian@persianviii
\newcount\XePersian@latinix   \newcount\XePersian@persianix
\newcount\XePersian@latinx    \newcount\XePersian@persianx
\newcount\XePersian@latinxi   \newcount\XePersian@persianxi
\newcount\XePersian@latinxii  \newcount\XePersian@persianxii
                        \newcount\XePersian@persianxiii

\newcount\XePersian@temp
\newcount\XePersian@temptwo
\newcount\XePersian@tempthree
\newcount\XePersian@yModHundred
\newcount\XePersian@thirtytwo
\newcount\XePersian@dn
\newcount\XePersian@sn
\newcount\XePersian@mminusone


\XePersian@y=\year \XePersian@m=\month \XePersian@d=\day
\XePersian@temp=\XePersian@y
\divide\XePersian@temp by 100\relax
\multiply\XePersian@temp by 100\relax
\XePersian@yModHundred=\XePersian@y
\advance\XePersian@yModHundred by -\XePersian@temp\relax
\ifodd\XePersian@yModHundred
   \XePersian@leapfalse
\else
   \XePersian@temp=\XePersian@yModHundred
```

```
5725    \divide\XePersian@temp by 2\relax
5726    \ifodd\XePersian@temp\XePersian@leapfalse
5727    \else
5728       \ifnum\XePersian@yModHundred=0%
5729          \XePersian@temp=\XePersian@y
5730          \divide\XePersian@temp by 400\relax
5731          \multiply\XePersian@temp by 400\relax
5732          \ifnum\XePersian@y=\XePersian@temp\XePersian@leaptrue\else\XePersian@leapfalse\fi
5733       \else\XePersian@leaptrue
5734       \fi
5735    \fi
5736 \fi
5737 \XePersian@latini=31\relax
5738 \ifXePersian@leap
5739   \XePersian@latinii = 29\relax
5740 \else
5741   \XePersian@latinii = 28\relax
5742 \fi
5743 \XePersian@latiniii = 31\relax
5744 \XePersian@latiniv  = 30\relax
5745 \XePersian@latinv = 31\relax
5746 \XePersian@latinvi = 30\relax
5747 \XePersian@latinvii = 31\relax
5748 \XePersian@latinviii = 31\relax
5749 \XePersian@latinix = 30\relax
5750 \XePersian@latinx = 31\relax
5751 \XePersian@latinxi = 30\relax
5752 \XePersian@latinxii = 31\relax
5753 \XePersian@thirtytwo=32\relax
5754 \XePersian@temp=\XePersian@y
5755 \advance\XePersian@temp by -17\relax
5756 \XePersian@temptwo=\XePersian@temp
5757 \divide\XePersian@temptwo by 33\relax
5758 \multiply\XePersian@temptwo by 33\relax
5759 \advance\XePersian@temp by -\XePersian@temptwo
5760 \ifnum\XePersian@temp=\XePersian@thirtytwo\XePersian@kabisehfalse
5761 \else
5762    \XePersian@temptwo=\XePersian@temp
5763    \divide\XePersian@temptwo by 4\relax
5764    \multiply\XePersian@temptwo by 4\relax
5765    \advance\XePersian@temp by -\XePersian@temptwo
5766    \ifnum\XePersian@temp=\z@\XePersian@kabisehtrue\else\XePersian@kabisehfalse\fi
5767 \fi
5768 \XePersian@tempthree=\XePersian@y                % Number of Leap years
5769 \advance\XePersian@tempthree by -1
5770 \XePersian@temp=\XePersian@tempthree             % T := (MY-1) div 4
5771 \divide\XePersian@temp by 4\relax
5772 \XePersian@temptwo=\XePersian@tempthree          % T := T - ((MY-1) div 100)
5773 \divide\XePersian@temptwo by 100\relax
5774 \advance\XePersian@temp by -\XePersian@temptwo
5775 \XePersian@temptwo=\XePersian@tempthree          % T := T + ((MY-1) div 400)
5776 \divide\XePersian@temptwo by 400\relax
5777 \advance\XePersian@temp by \XePersian@temptwo
5778 \advance\XePersian@tempthree by -611       % Number of Kabise years
```

```
\XePersian@temptwo=\XePersian@tempthree           % T := T - ((SY+10) div 33) * 8
\divide\XePersian@temptwo by 33\relax
\multiply\XePersian@temptwo by 8\relax
\advance\XePersian@temp by -\XePersian@temptwo
\XePersian@temptwo=\XePersian@tempthree           %
\divide\XePersian@temptwo by 33\relax
\multiply\XePersian@temptwo by 33\relax
\advance\XePersian@tempthree by -\XePersian@temptwo
\ifnum\XePersian@tempthree=32\advance\XePersian@temp by 1\fi % if (SY+10) mod 33=32 then Inc(
\divide\XePersian@tempthree by 4\relax     % T := T - ((SY+10) mod 33) div 4
\advance\XePersian@temp by -\XePersian@tempthree
\advance\XePersian@temp by -137            % T := T - 137  Adjust the value
\XePersian@persiani=31
\advance\XePersian@persiani by -\XePersian@temp                % now 31 - T is the persiani
\XePersian@persianii = 30\relax
\ifXePersian@kabiseh
  \XePersian@persianiii = 30\relax
\else
  \XePersian@persianiii = 29\relax
\fi
\XePersian@persianiv  = 31\relax
\XePersian@persianv   = 31\relax
\XePersian@persianvi  = 31\relax
\XePersian@persianvii = 31\relax
\XePersian@persianviii= 31\relax
\XePersian@persianix  = 31\relax
\XePersian@persianx   = 30\relax
\XePersian@persianxi  = 30\relax
\XePersian@persianxii = 30\relax
\XePersian@persianxiii= 30\relax
\XePersian@dn= 0\relax
\XePersian@sn= 0\relax
\XePersian@mminusone=\XePersian@m
\advance\XePersian@mminusone by -1\relax
\XePersian@i=0\relax
\ifnum\XePersian@i < \XePersian@mminusone
\loop
\advance \XePersian@i by 1\relax
\advance\XePersian@dn by \csname XePersian@latin\romannumeral\the\XePersian@i\endcsname
\ifnum\XePersian@i<\XePersian@mminusone \repeat
\fi
\advance \XePersian@dn by \XePersian@d
\XePersian@i=1\relax
\XePersian@sn = \XePersian@persiani
\ifnum \XePersian@sn<\XePersian@dn
\loop
\advance \XePersian@i by 1\relax
\advance\XePersian@sn by \csname XePersian@persian\romannumeral\the\XePersian@i\endcsname
\ifnum \XePersian@sn<\XePersian@dn \repeat
\fi
\ifnum \XePersian@i < 4
   \XePersian@m = 9 \advance\XePersian@m by \XePersian@i
   \advance \XePersian@y by -622\relax
\else
```

```
    \XePersian@m = \XePersian@i \advance \XePersian@m by -3\relax
    \advance \XePersian@y by -621\relax
\fi
\advance\XePersian@sn by -\csname XePersian@persian\romannumeral\the\XePersian@i%
\endcsname
\ifnum\XePersian@i = 1
  \XePersian@d = \XePersian@dn \advance \XePersian@d by 30 \advance\XePersian@d by -\XePersia
\else
  \XePersian@d = \XePersian@dn \advance \XePersian@d by -\XePersian@sn
\fi
\newcommand*{\persiantoday}{%
\number\XePersian@d\space%
\XePersian@persian@month{\XePersian@m}\space\number\XePersian@y%
}
\let\persianyear\XePersian@y
\let\persianmonth\XePersian@m
\let\persianday\XePersian@d
\def\XePersian@persian@month#1{\ifcase#1\or or\
or\
or\    or\
or\
or\     or\
or\   or\
or\  or\
{fi\

\newcommand*{\persianseason}{%
  \ifcase\persianmonth\or
  or\   or\   or\   or\     or\     or\
  or\    or\    or\    or\    or\    fi\
}
```

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