



The XePersian Package

Documentation for version 17.7

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 do not send any direct email to me; I will not answer any direct email. Instead please use the issue tracker:

<https://github.com/tex-xet/xepersian/issues>

In doing so, please always explain your issue well enough, always include a minimal working example showing the issue, and always choose the appropriate label for your query (i.e. if you are reporting any bugs, choose 'Bug' label).

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The XePersian Package

Persian for L^AT_EX 2_E, using XeT_EX engine

Documentation for version 17.7

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1 Introduction

XePersian is a package for typesetting Persian/English documents with Xe \LaTeX . The package includes adaptations for use with many other commonly-used packages.

1.1 Important Notes

- ☒ The XePersian package only works with Xe \TeX engine.
- ☒ Before reading this documentation, you should have read the documentation of the bidi package. The XePersian package automatically loads bidi package with RTLdocument option enabled and hence any commands that bidi package offers, is also available in XePersian package. Here, in this documentation, we will not repeat any of bidi package's commands.
- ☒ In previous versions ($\leq 1.0.3$) of XePersian, a thesis class provided for typesetting thesis. As of version 1.0.4, we no longer provide this class because we are not familiar with specification of a thesis in Iran and even if we were, the specifications are different from University to University. XePersian is a general package like \TeX and should not provide any class for typesetting thesis. So if you really want to have a class file for typesetting thesis, then you should ask your University/department to write one for you.

1.2 XePersian Info On The Terminal and In The Log File

If you use XePersian package to write any input \TeX document, and then run `xelatex` on your document, in addition to what bidi package writes to the terminal and to the log file, the XePersian package also writes some information about itself to the terminal and to the log file, too. The information is something like:

```
*****
*
* xepersian package (Persian for LaTeX, using XeTeX engine)
*
* Description: The package supports Persian
* typesetting, using fonts provided in the
* distribution.
*
* Copyright (c) 2008--2017 Vafa Khalighi
*
* v17.7, 2017/02/20
*
* License: LaTeX Project Public License, version
* 1.3c or higher (your choice)
*
* Location on CTAN: /macros/xetex/latex/xepersian
*
* Issue tracker: https://github.com/tex-xet/xepersian/issues
```



```

*
* Support: persian-tex@tug.org
*****

```

2 Basics

2.1 Loading The Package

You can load the package in the ordinary way;

```
\usepackage [Options] {xepersian}
```

Where options of the package are explained later in [subsection 2.4](#).

When loading the package, it is important to know that:

- ❶ xepersian should be the last package that you load, because otherwise you are certainly going to overwrite bidi and XePersian package's definitions and consequently, you will not get the expected output.
- ❷ In fact, in addition to bidi, XePersian also makes sure that some specific packages are loaded before bidi and XePersian; these are those packages that bidi and XePersian modifies them for bidirectional and Persian/English typesetting.

If you load XePersian before any of these packages, then you will get an error saying that you should load XePersian or bidi as your last package. When it says that you should load bidi package as your last package, it really means that you should load XePersian as your last package as bidi package is loaded automatically by XePersian package.

For instance, consider the following minimal example:

```

1 \documentclass{minimal}
2 \usepackage{xepersian}
3 \usepackage{enumerate}
4 \settextfont{XB Niloofar}
5 \begin{document}
6 این فقط یک آزمایش است
7 \end{document}

```

Where enumerate is loaded after XePersian. If you run `xelatex` on this document, you will get an error which looks like this:

```

! Package xepersian Error: Oops! you have loaded package enumerate
after xepersian package. Please load package enumerate before
xepersian package, and then try to run xelatex on your document
again.

See the xepersian package documentation for explanation.
Type H <return> for immediate help.

```



```
...
1.5 \begin{document}
?
```

2.2 XePersian's Symbol

As you may know lion symbolizes T_EX but lion does not symbolizes XePersian. **Simorgh**¹ (shown on the first page of this documentation) symbolizes XePersian.

2.3 Commands for Version number, and Date of The Package

```
\xepersianversion \xepersiandate
```

☞ \xepersianversion gives the current version of the package.

☞ \xepersiandate gives the current date of the package.

```
1 \documentclass{article}
2 \usepackage{xepersian}
3 \settextfont{XB Niloofar}
4 \begin{document}
5 \begin{latin}
6 This is typeset by \textsf{\XePersian} package, \xepersianversion,
7 \xepersiandate.
8 \end{latin}
9 \end{document}
```

2.4 Options of The Package

There are few options:

2.4.1 defaultlatinfontfeatures Option

```
defaultlatinfontfeatures=<value>
```

The defaultlatinfontfeatures option allows you to pass font features to the main Latin font. *<value>* is a set of font features.

2.4.2 extrafootnotefeatures Option

This is just the extrafootnotefeatures Option of bidi package. If you enable this option, you can typeset footnotes in paragraph form or in multi-columns (from two-columns to ten-columns). For more details, please read the manual of bidi package.

¹Simorgh is an Iranian benevolent, mythical flying creature which has been shown on the titlepage of this documentation. For more details see <http://en.wikipedia.org/wiki/Simurgh>



2.4.3 Kashida Option

If you pass Kashida option to the package, you will use Kashida for stretching words for better output quality and getting rid of underfull or overfull `\hbox` messages.

Note that you can not use Kashida option when you are using Nastaliq-like font (well, you still can use Kashida option when you use any Nastaliq-like font, but I can not guarantee high quality output!).

The following two commands are provided when you activate the Kashida option:

```
\KashidaOn \KashidaOff
```

☞ `\KashidaOn` enables Kashida and is active by default when Kashida option is activated.

☞ `\KashidaOff` disables Kashida.

2.4.4 quickindex Option

When you generally want to prepare index for your Persian documents, you need to first run `xelatex`, then `xindy`, and again `xelatex` on your document respectively, which is very time consuming. The `quickindex` option gives you the index with only and only one run of `xelatex`. To use this feature, you will need to run `xelatex --shell-escape` on your `TEX` document; otherwise you get an error which indicates that shell escape (or `write18`) is not enabled.

This option is now obsolete and equivalent to `quickindex-variant2` option.

2.4.5 quickindex-variant1 Option

Same as `quickindex` Option but uses variant one (in which `\tilde{I}` is grouped under `I`) for sorting Persian alphabets.

2.4.6 quickindex-variant2 Option

Same as `quickindex` Option but uses variant two (in which `\tilde{I}` is a separate letter) for sorting Persian alphabets.

2.4.7 localise Option

This option allows you to use most frequently-used `LATEX` commands and environments in Persian, almost like what `TEX-e-Parsi` offers. This is still work in progress and we wish to add lots more Persian equivalents of `LATEX` and `TEX` commands and environments. The Persian equivalents of `LATEX` and `TEX` commands are shown in [Table 1](#), The Persian equivalents of XePersian commands are shown in [Table 2](#), Persian equivalents of `LATEX` environments are shown in [Table 3](#) and Persian equivalents of XePersian environments are shown in [Table 4](#)



Please note that the Persian equivalents of \LaTeX and \TeX commands and environments are only available after loading `xepersian` package. This means that you have to write all commands or environments that come before `\usepackage{xepersian}`, in its original form, i.e. `\documentclass`.

Not only you can use Persian equivalents of \LaTeX and \TeX commands and environments, but still original \LaTeX and \TeX commands and environments work too.

The \TeX \LaTeX and XePersian commands and environments and their Persian equivalents listed in [Table 1](#), [Table 2](#), [Table 3](#) and [Table 4](#) is not the whole story; If any command and environment in [Table 1](#), [Table 2](#), [Table 3](#) and [Table 4](#) have a starred version, their starred version also work. For example in [Table 1](#), the Persian equivalent of `\chapter` is `\فصل`. I know that `\chapter` has a starred version, so this means `*فصل` is also the Persian equivalent of `\chapter*`. Is that clear?

However there is more; you can localise any other commands/environments you want. You can use the following commands to localise your own commands/environments:

<code>\eqcommand{<command-name in Persian>} {<original \LaTeX command-name>}</code>
<code>\eqenvironment{<environment-name in Persian>} {<original \TeX environment-name>}</code>

Table 1: The Equivalent \LaTeX and \TeX Commands

Command in \TeX or \LaTeX	Equivalent Persian Command
<code>\@arstrut</code>	<code>\شمع جدول</code>
<code>\above</code>	<code>\ فوق</code>
<code>\abovedisplayshortskip</code>	<code>\فاصله کوتاه بالای نمایش</code>
<code>\abovedisplayskip</code>	<code>\فاصله بالای نمایش</code>
<code>\abstractname</code>	<code>\عنوان چکیده</code>
<code>\accent</code>	<code>\اکسنت</code>
<code>\active</code>	<code>\فعال</code>
<code>\addcontentsline</code>	<code>\بیفزاسطرفهرست</code>
<code>\addpenalty</code>	<code>\اضافه بر جریمه</code>
<code>\address</code>	<code>\نشانی</code>
<code>\addtocontents</code>	<code>\بیفزایه فهرست</code>
<code>\addtocounter</code>	<code>\اضافه بر شمارنده</code>
<code>\addtolength</code>	<code>\اضافه بر بعد</code>
<code>\addvspace</code>	<code>\بیفزایه فضای و</code>
<code>\adjdemerits</code>	<code>\تنظیم بد نمایی</code>
<code>\advance</code>	<code>\بیفزایبر</code>
<code>\afterassignment</code>	<code>\بعد از انتساب</code>
<code>\aftergroup</code>	<code>\بعد از گروه</code>
<code>\aleph</code>	<code>\الف</code>
<code>\aliasfontfeature</code>	<code>\خصیصه مستعار قلم</code>
<code>\aliasfontfeatureoption</code>	<code>\انتخاب خصیصه مستعار قلم</code>

Continued on next page



Command in T _E X or L _A T _E X	Equivalent Persian Command
\allowbreak	\اشکستنی
\alloc@	@تخصی
\allocationnumber	\تخصیص یافته
\allowdisplaybreaks	\اشکست نمایش مجاز
\Alph	\حروف بزرگ
\alph	\حروف کوچک
\alsoname	\نام همچنین
\and	\و
\angle	\زاویه
\appendixname	\عنوان پیوست
\approx	\اقریب
\arabic	\عربی
\arg	\آرگ
\arrayrulecolor	\رنگ خط جدول
\arraycolsep	\فاصله ستونهای آرایه
\arrayrulewidth	\ضخامت خط جدول
\arraystretch	\کشیدگی آرایه
\AtBeginDocument	\در آغاز توشتار
\AtEndDocument	\در پایان توشتار
\AtEndOfClass	\در اننهای طبقه
\AtEndOfPackage	\در اننهای سبک
\author	\نویسنده
\backmatter	\مطلوب پشت
\backslash	\شکاف پشت
\badness	\بد نمایی
\bar	\امیله
\baselineskip	\فاصله کرسی
\baselineskip	\کشن فاصله کرسی
\batchmode	\پردازش دسته ای
\begin	\شروع
\beginL	\شروع چپ
\beginR	\شروع راست
\begingroup	\شروع گروه
\belowdisplayshortskip	\فاصله کوتاه پایین نمایش
\belowdisplayskip	\فاصله پایین نمایش
\bf	\سیاه
\bfdefault	\پیش فرض سیاه
\bfseries	\شمایل سیاه
\bgroup	\شرگروه
\bibitem	\مرجوع

Continued on next page



Command in TeX or L ^A T _E X	Equivalent Persian Command
\bibliography	\کتاب نامه
\bibliographystyle	\سبک کتاب نامه
\biblename	\عنوان کتاب نامه
\bigskip	\پرش بلند
\bigskipamount	\مقدار پرش بلند
\botfigrule	\خط پایین شناور
\botmark	\علامت پایین
\bottompageskip	\کادر تا پایین
\bottomfraction	\نسبت پایین
\box	\کادر
\boxmaxdepth	\حداکثر عمق کادر
\break	\ بشکن
\bullet	\گلوله
\@cclv	\دوپن@پنج
\@cclvi	\دوپن@شش
\caption	\شرح
\catcode	\کدرده
\cc	\رونوشت
\ccname	\نام رونوشت
\cdot	\ نقطه وسط
\cdots	\ نقاط وسط
\centering	\تنظيم از وسط
\centerline	\خط وسط
\ch@ck	\چک@ن
\chapter	\فصل
\chaptername	\عنوان فصل
\char	\نویسه
\chardef	\تعريف نویسه
\CheckCommand	\بررسی فرمان
\cite	\مرجع
\ClassError	\خطای طبقه
\ClassInfo	\اطلاع طبقه
\ClassWarning	\هشدار طبقه
\ClassWarningNoLine	\هشدار طبقه بی سطر
\cleaders	\نشانگر مرکزی
\cleardoublepage	\دروصفحه پاک
\clearpage	\صفحه پاک
\cline	\خط ناپر
\closein	\بند و رو دی
\closeout	\بند خروجی

Continued on next page



Command in TeX or L ^A T _E X	Equivalent Persian Command
\closing	\بستن
\clubpenalty	\حریمه سربند
\clubsuit	\خاج
\colbotmark	\علامت پایین ستون اول
\colfirstmark	\علامت اول ستون اول
\color	\رنگ
\colorbox	\کادر رنگ
\coltopmark	\علامت بالای ستون اول
\columncolor	\رنگ ستون
\columnsep	\بین ستون
\columnwidth	\پهنهای ستون
\columnseprule	\خط بین ستون
\contentsline	\اسطرفرهست
\contentsname	\عنوان فهرست مطالب
\copy	\کپی
\copyright	\حق تالیف
\count	\شمار
\count@	\@شمار
\countdef	\تعريف شمار
\cr	\اسخ
\crcr	\اسخ سخ
\csname	\نام فرمان
\CurrentOption	\گزینه جاری
\dashbox	\کادر بینابین
\dashv	\بینایین ع
\@date	\@تاریخ
\date	\تاریخ
\day	\روز
\dblbotfigrule	\خط پایین شناور پهن
\dblbottomfraction	\نسبت پهن پایین
\dblfigrule	\خط بالای شناور پهن
\dblfloatpagefraction	\نسبت صفحه شناور پهن
\dblfloatsep	\فاصله بین شناور پهن
\dblfontlocatecode	\کد مکان غیره مانطور
\dbltextfloatsep	\فاصله متن و شناور پهن
\dbltopfraction	\نسبت پهن بالا
\DeclareFixedFont	\اعلان قلم ثابت
\DeclareGraphicsExtensions	\اعلان پسوند گرافیک
\DeclareGraphicsRule	\اعلان دستور گرافیک
\DeclareOldFontCommand	\اعلان فرمان قلم قدیمی

Continued on next page



Command in \TeX or \LaTeX	Equivalent Persian Command
<code>\DeclareOption</code>	\اعلان_گزینه
<code>\DeclareRobustCommand</code>	\اعلان_فرمان_قوی
<code>\DeclareSymbolFont</code>	\اعلان_قلم_علائم
<code>\deadcycles</code>	\دوربسته
<code>\def</code>	\اتر
<code>\define@key</code>	\تعريف_@کلید
<code>\definecolor</code>	\تعريف_رنگ
<code>\deg</code>	\درجہ
<code>\delcode</code>	\کد_جدا_ساز
<code>\delimiter</code>	\جداساز
<code>\delimiterfactor</code>	\ضریب_جداساز
<code>\depth</code>	\اگودی
<code>\diamondsuit</code>	\خشتش
<code>\dim</code>	\ابعاد
<code>\dimen</code>	\بعد
<code>\dimen@</code>	\بعد_@
<code>\dimen@i</code>	\بعد_@یک
<code>\dimen@ii</code>	\بعد_@دو
<code>\dimendef</code>	\تعريف_بعد
<code>\discretionary</code>	\اتیره_گذاری
<code>\displaybreak</code>	\شکست_نمایش
<code>\displayindent</code>	\تورفتگی_نمایش
<code>\displaystyle</code>	\سبک_نمایش
<code>\displaywidth</code>	\عرض_نمایش
<code>\divide</code>	\ تقسیم
<code>\documentclass</code>	\طبقه_نوشتار
<code>\do</code>	\اکن
<code>\dospecials</code>	\اعویض_کدها
<code>\dot</code>	\ نقطه
<code>\doteq</code>	\ نقطه_مساوی
<code>\dotfill</code>	\ پر نقطه_ا
<code>\dots</code>	\ نقاط
<code>\doublebox</code>	\کادر_دولا
<code>\doublerulesepcolor</code>	\رنگ_فاصله_دو خط_جدول
<code>\doublerulesep</code>	\فاصله_بین_دو خط
<code>\downarrow</code>	\فلش_پایین
<code>\dp</code>	\عمق
<code>\dump</code>	\تخلیه
<code>\edef</code>	\اترگ
<code>\egroup</code>	\اپاگروه

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\reject	\انتهای فاصله
\else	\اگرنه
\em	\اتاکید
\emergencystretch	\اکشش لاجرم
\emph	\اموکد
\empty	\اپوج @\
\emptyset	\اچموعه‌پوج
\end	\اپیان
\endL	\اپیان چپ
\endR	\اپیان راست
\endcsname	\اپیان نام فرمان
\endfirsthead	\اپیان اولین سر
\endfoot	\اپیان پا
\endgraf	\اته بند
\endgroup	\اپیان گروه
\endhead	\اپیان سر
\endinput	\اپیان ورودی
\endlastfoot	\اپیان آخرین پا
\enlargethispage	\اگسترش این صفحه
\endline	\اوه سطر
\endlinechar	\انویسه ته سطر
\enspace	\ان دوری
\enskip	\ان فاصله
\eqcommand	\فرمان جانشین
\eqenvironment	\محیط جانشین
\eqref	\ارجاع فر
\errhelp	\اکمک خطا
\errmessage	\اپیام خطا
\errorcontextlines	\اسطرمتن خطا
\errorstopmode	\اپردازش توقف خطا
\escapechar	\انویسه ویژه
\euro	\یورو
\evensidemargin	\حاشیه زوج
\everycr	\هرسخ
\everydisplay	\هرنمايش
\everyhbox	\هرکادرا
\everyjob	\هرکار
\everymath	\هرریاضی
\everypar	\هربند

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Command in \TeX or \LaTeX	Equivalent Persian Command
<code>\everyvbox</code>	\هـرڪـارـو
<code>\ExecuteOptions</code>	\اـجـرـايـ گـزـينـهـ هـا
<code>\exhyphenpenalty</code>	\اـجـريـمهـ اـضـافـيـ تـيـرهـ بـندـيـ
<code>\expandafter</code>	\اـبـگـسـتـرـپـسـ اـزـ
<code>\extracolsep</code>	\اـفـاصـلـهـ اـضـافـيـ بـيـنـ سـتوـنـهاـ
<code>\@firstofone</code>	\اـولـيـ اـزـيـكـ
<code>\@firstoftwo</code>	\اـولـيـ اـرـدوـ
<code>\f@ur</code>	\اـجـ@ـاـرـ
<code>\fam</code>	\اـخـانـوـادـهـ
<code>\fancypage</code>	\اـصـفـحـهـ تـجمـلـيـ
<code>\fbox</code>	\اـكـادـرـبـاـ
<code>\fboxrule</code>	\اـضـخـامـتـ کـادـرـبـاـ
<code>\fboxsep</code>	\اـحـاشـيـهـ کـادـرـبـاـ
<code>\fcolorbox</code>	\اـکـادـرـبـارـنـگـ
<code>\fi</code>	\اـرـگـ
<code>\figurename</code>	\اـعنـوانـ شـكـلـ
<code>\filbreak</code>	\اـپـرـشـكـنـ
<code>\fill</code>	\اـپـرـ
<code>\firstmark</code>	\اـعـلامـ اـولـ
<code>\flat</code>	\اـپـهـنـ
<code>\floatpagefraction</code>	\اـنـسـبـتـ صـفـحـهـ شـناـورـ
<code>\floatingpenalty</code>	\اـجـريـمهـ شـناـورـ
<code>\floatsep</code>	\اـفـاصـلـهـ بـيـنـ شـناـورـ
<code>\flushbottom</code>	\اـتـنظـيمـ اـزـيـابـيـنـ
<code>\fmtname</code>	\اـشـكـلـبـندـيـ
<code>\fmtversion</code>	\اـرـدـهـ شـكـلـبـندـيـ
<code>\fnsymbol</code>	\اـنـشـانـهـ
<code>\font</code>	\اـقـلمـ
<code>\fontdimen</code>	\اـبعـدـقـلمـ
<code>\fontencoding</code>	\اـرمـزيـنـهـ قـلمـ
<code>\fontfamily</code>	\اـفـاميـلـ قـلمـ
<code>\fontname</code>	\اـنـامـ قـلمـ
<code>\fontseries</code>	\اـشـمـايـلـ قـلمـ
<code>\fontshape</code>	\اـشـكـلـ قـلمـ
<code>\fontsize</code>	\اـنـداـزـهـ قـلمـ
<code>\footheight</code>	\اـبلـنـدـاـيـ پـايـيـنـ صـفـحـهـ
<code>\footins</code>	\اـدرـجـ زـيـرـنوـيـسـ
<code>\footnote</code>	\اـزـيـرـنوـيـسـ
<code>\footnotemark</code>	\اـعـلامـ زـيـرـنوـيـسـ
<code>\footnoterule</code>	\اـخطـ زـيـرـنوـيـسـ

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Command in \TeX or \LaTeX	Equivalent Persian Command
<code>\footnotesep</code>	\فاصله تازیرنویس
<code>\footnotysize</code>	\اندازه زیرنویس
<code>\footnotetext</code>	\متن زیرنویس
<code>\footskip</code>	\فاصله تا پایین صفحه
<code>\frame</code>	\فریم
<code>\framebox</code>	\کادر با خطر
<code>\frenchspacing</code>	\فواصل یکنواخت لاتین
<code>\frontmatter</code>	\مطلوب پیش
<code>\futurelet</code>	\بعد بگذار
<code>\@gobble</code>	\@خور حریصانه
<code>\@gobbletwo</code>	\@خور حریصانه دو
<code>\@gobblefour</code>	\@خور حریصانه چهار
<code>\@gtempa</code>	\@عاقت آ
<code>\@gtempb</code>	\@عاقت ب
<code>\gdef</code>	\ترع
<code>\GenericInfo</code>	\الگوی اطلاع
<code>\GenericWarning</code>	\الگوی هشدار
<code>\GenericError</code>	\الگوی خطأ
<code>\global</code>	\عام
<code>\globaldefs</code>	\تعاریف عام
<code>\glossary</code>	\لغت نامه
<code>\glossaryentry</code>	\افقره فرهنگ
<code>\goodbreak</code>	\خوش شکن
<code>\graphpaper</code>	\کاغذگراف
<code>\guillemotleft</code>	\گیومه چپ
<code>\guillemotright</code>	\گیومه راست
<code>\guilsinglleft</code>	\گیومه تکی چپ
<code>\guilsinglright</code>	\گیومه تکی راست
<code>\halign</code>	\ردیف ا
<code>\hang</code>	\برو تو
<code>\hangafter</code>	\بعد از سطر
<code>\hangindent</code>	\تورفتگی ثابت
<code>\hbadness</code>	\ابدنمایی ا
<code>\hbox</code>	\کادرا
<code>\headheight</code>	\بلندای سرصفحه
<code>\headsep</code>	\فاصله از سرصفحه
<code>\headtoname</code>	\سر به نام
<code>\heartsuit</code>	\دل
<code>\height</code>	\بلندا
<code>\hfil</code>	\پرا

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\hfill	\پررا
\hfilneg	\رفع پرا
\hfuzz	\پرزاوی
\hideskip	\فاصله مخفی
\hidewidth	\عرض پنهان
\hline	\خط پر
\hoffset	\حاشیه ا
\holdinginserts	\حفظ درج
\hrboxsep	\فاصله اگرد
\hrule	\خط ا
\rulefill	\پرخط ا
\hsize	\طول سطر
\hskip	\فاصله ا
\hspace	\فضای ا
\hss	\هردوا
\ht	\ارتفاع
\huge	\بزرگ
\Huge	\بزرگ تر
\hyperlink	\ابرپیوند
\hypersetup	\بارگذاری ابر
\hypertarget	\هدف ابر
\hyphenation	\تیره بندی
\hyphenchar	\نویسه تیره
\hyphenpenalty	\جریمه تیره بندی
\@ifclassloaded	@\گرکلاس فراخوانی شده
\@ifdefinable	@\گرترشدنی
\@ifnextchar	@\گرزنی سه بعدی
\@ifpackageloaded	@\گرسیک فراخوانی شده
\@ifstar	@\گرستاره
\@ifundefined	@\گرتعریف نشده
\if	\اگر
\if@tempswa	\اگر @ سواقت آ
\ifcase	\گرانواع
\ifcat	\اگر ده
\ifdefined	\اگرتعریف شده
\ifdim	\اگر بعد
\ifeof	\اگر ته پرونده
\iff	\اگرر
\iffalse	\اگر نادرست
\IfFileExists	\اگر پرونده موجود

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Command in T _E X or L _A T _E X	Equivalent Persian Command
\ifhbox	\اگرکادر
\ifhmode	\اگرحالت
\ifinner	\اگدروني
\ifmmode	\اگرhalt رياضي
\ifnum	\اگرعدد
\ifodd	\اگرفد
\ifthenelse	\اگرآنگاه ديجر
\iftrue	\اگردرست
\ifvbox	\اگرکادر
\ifvmode	\اگرhalt و
\ifvoid	\اگرتنه
\ifx	\اگرتم
\ignorespaces	\فاصله خالي رانديده بغير
\immediate	\فورى
\include	\شامل
\includegraphics	\درج تصوير
\includeonly	\مشمولين
\indent	\تورفتگى
\index	\ارزمايه
\indexentry	\استعلام
\indexname	\عنوان نمايه
\indexspace	\فاصله رهتما
\input	\ورودى
\InputIfFileExists	\ورودپرونده گرموجود
\inputlineno	\شماره سطرورودى
\insert	\درج
\insertpenalties	\اجريمه درج
\interfootnotelinepenalty	\اجريمه بين سطرهای زيرنويس
\interdisplaylinepenalty	\اجريمه بين سطرهای نمايش
\interlinepenalty	\اجريمه بين سطرها
\intertext	\امتن داخلی
\intertextsep	\فاصله شناور در متن
\invisible	\امخفي
\itdefault	\پيش فرض اي
\itshape	\اشكل ايتاليك
\item	\فقره
\itemindent	\تورفتگي فقره
\itemsep	\فاصله فقره
\iterate	\تكراركن
\itshape	\اشكل اي

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\jobname	\نام کار
\jot	\قلپ
\kern	\دوری
\kill	\الگو
\label	\برچسب
\labelenumi	\برچسب شمارش یک
\labelenumii	\برچسب شمارش دو
\labelenumiii	\برچسب شمارش سه
\labelenumiv	\برچسب شمارش چهار
\labelitemi	\برچسب فقره یک
\labelitemii	\برچسب فقره دو
\labelitemiii	\برچسب فقره سه
\labelitemiv	\برچسب فقره چهار
\labelsep	\فاصله از برچسب
\labelwidth	\پهنای برچسب
\language	\زبان
\large	\درشت
\Large	\درشت تر
\LARGE	\درشت درشت
\lastbox	\آخرین کادر
\lastkern	\آخرین دوری
\lastpenalty	\آخرین جریمه
\lastskip	\آخرین فاصله
\LaTeX	\لاتک
\LaTeXe	\لاتک ای
\lccode	\اکدکوچک
\ldots	\نقاط خ
\leaders	\انسانگر
\leavevmode	\ترک و
\left	\اچ پ
\leftmargin	\حاشیه چپ
\leftmargini	\حاشیه چپ یک
\leftmarginii	\حاشیه چپ دو
\leftmarginiii	\حاشیه چپ سه
\leftmarginiv	\حاشیه چپ چهار
\leftmarginv	\حاشیه چپ پنج
\leftmarginvi	\حاشیه چپ شش
\leftmark	\علامت چپ
\leftpageskip	\کادر تا چپ
\leftskip	\فاصله آبتدای سطر

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\let	\بگذار
\line	\سطر
\linebreak	\سطرشنکن
\linepenalty	\جریمه سطر
\lineskip	\فاصله سطرها
\lineskiplimit	\حد فاصله سطر
\linespread	\کشش فاصله سطر
\linethickness	\ضخامت خط
\linewidth	\پهنای سطر
\listfigurename	\عنوان فهرست اشکال
\listfiles	\لیست پرونده ها
\listoffigures	\فهرست اشکال
\listoftables	\فهرست جداول
\listparindent	\تورفتگی بند لیست
\listtablename	\عنوان فهرست جداول
\LoadClass	\بارگذاری طبقه
\LoadClassWithOptions	\بارگذاری طبقه با گزینه
\location	\امکان
\long	\بلند
\loop	\حلقه
\looseness	\گسیختگی
\lower	\انتقال پایین
\@makeother	\دیگر
\@m	\@زار
\@M	\@زار
\@Mi	\@زاریک
\@Mii	\@زاردو
\@Miii	\@زارسه
\@Miv	\@زارچهار
\@MM	\@بیس
\m@ne	\@من
\mag	\بزرگ نمایی
\magstep	\گام
\magstephalf	\نیم گام
\mainmatter	\مطلوب اصلی
\makeatletter	\ات حرف
\makeatother	\ات دیگر
\makebox	\کادر بی خلط
\makeglossary	\اساخت فرهنگ
\makeindex	\تهیه نمایه

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\makelabel	\اساختبرچسب
\makelabels	\اساختبرچسب‌ها
\MakeLowercase	\اساخت حروف کوچک
\maketitle	\عنوان ساز
\MakeUppercase	\اساخت حروف بزرگ
\margininpar	\درحاشیه
\margininparpush	\فاصله دو حاشیه
\margininparsep	\فاصله تا حاشیه
\margininparwidth	\پنهانی حاشیه
\mark	\علامت
\markboth	\علامت در دو طرف
\markright	\علامت در راست
\mathaccent	\اعراب ریاضی
\mathchar	\نویسه ریاضی
\mathchardef	\تعريف نویسه ریاضی
\mathcode	\کد ریاضی
\mathrm	\ریاضی رومان
\maxdeadcycles	\حداکثر تکرار
\maxdepth	\حداکثر عمق صفحه
\maxdimen	\بعد بیشین
\mbox	\کادر بی
\mdseries	\شمایل ناری
\meaning	\معنا
\mediumseries	\ناری
\medmuskip	\فاصله متوسط ریاضی
\medskip	\پرش متوسط
\medskipamount	\مقدار پرش متوسط
\medspace	\فضای متوسط
\message	\پیام
\MessageBreak	\پیام شکن
\minrowclearance	\حداقل فاصله ردیف
\mkern	\دوری ریاضی
\month	\ماه
\moveleft	\انتقال بچپ
\moveright	\انتقال براست
\mskip	\فاصله ریاضی
\m@th	\اری @ ضی
\multicolumn	\چندستونی
\multiply	\ضرب
\multispan	\چند ادغام

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\muskip	\میوفاصله
\muskipdef	\تعریف میوفاصله
\@namedef	\@_نام
\@nameuse	\@_کاربردنام
\@ne	\@_یک
\name	\نام
\natural	\طبیعی
\nearrow	\باریک
\nearrower	\باریکتر
\NeedsTeXFormat	\شکلبندی موردنیاز
\neg	\منفی
\negmedspace	\فضای متوسط منفی
\negthickspace	\فضای ضخیم منفی
\negthinspace	\دوری کوچک منفی
\newboolean	\ابولی نو
\newbox	\کادر جدید
\newcommand	\فرمان نو
\newcount	\شمارجديد
\newcounter	\شمارنده جدید
\newdimen	\بعد جدید
\newenvironment	\محیط نو
\newfam	\خانواده جدید
\newfont	\قلم نو
\newhelp	\آمک جدید
\newif	\گرجید
\newinsert	\درج جدید
\newlabel	\برچسب جدید
\newlength	\تعریف بعد جدید
\newline	\اسطرجید
\newlinechar	\نویسه سطر جدید
\newmuskip	\میوفاصله جدید
\newpage	\صفحه جدید
\newread	\بخوان جدید
\newsavebox	\تعریف کادر جدید
\newskip	\فاصله جدید
\newtheorem	\قضیه جدید
\newtoks	\جزء جدید
\newwrite	\بنویس جدید
\noalign	\ابی ردیف
\nobreak	\اشکن

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Command in T _E X or L _A T _E X	Equivalent Persian Command
\nobreakspace	\فاصله نشکستنی
\nocite	\ابدون سند
\noexpand	\انگستر
\nofiles	\ابدون پرونده
\noindent	\ابدون تورفتگی
\nointerlineskip	\ابی فاصله سطر
\nolimits	\ابدون حد
\nolinebreak	\اسطرنشکن
\nonstopmode	\پردازش بدون توقف
\nonfrenchspacing	\فواصل متعارف لاتین
\nonumber	\ابدون شماره
\nopagebreak	\صفحه نشکن
\normalbaselines	\کرسیهای متعارف
\normalbaselineskip	\فاصله کرسی متعارف
\normalcolor	\رنگ عادی
\normalfont	\قلم عادی
\normallineskip	\فواصله سطرمتعارف
\normallineskiplimit	\حد فاصله سطرمتعارف
\normalmarginpar	\در راهشیه عادی
\normalsize	\اندازه عادی
\notag	\ابدون آنیکت
\null	\انول
\nullfont	\قلم تهی
\number	\عدد
\numberline	\سطر عددی
\numberwithin	\شماره مطابق
\@evenfoot	\پایین صفحه زوج
\@evenhead	\بالای صفحه زوج
\@oddfoot	\پایین صفحه فرد
\@oddhead	\بالای صفحه فرد
\@outeqnttrue	\شماره بیرون درست
\@outeqnfalse	\شماره بیرون نادرست
\obeylines	\اسطربه سطر
\obeyspaces	\فضافعال
\oddsidemargin	\حاشیه فرد
\offinterlineskip	\اسطوربی فاصله
\omit	\حذف
\@onlypreamble	\@نهادر پیش درآمد
\onecolumn	\یک ستون
\onlynotes	\نهایادداشت ها

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\onlyslides	\انه‌ا‌سلايد‌ها
\openin	\بازکن‌ورودی
\openout	\بازکن‌خروجی
\OptionNotUsed	\اگرینه‌مصرف‌نشده
\or	\یا
\outer	\ابرونی
\output	\صفحه‌بندی
\outputpenalty	\جریمه‌صفحه‌بندی
\overfullrule	\علامت‌سرریز
\@preamblecmds	\فرمان‌های‌پیش‌درآمد
\p@	\@‌پو
\PackageError	\خطای‌سبک
\PackageInfo	\اطلاع‌سبک
\PackageWarning	\هشدار‌سبک
\PackageWarningNoLine	\هشدار‌سبک‌بی‌سطر
\pagebreak	\صفحه‌شکن
\pagecolor	\رنگ‌صفحه
\pagedepth	\اعمق‌صفحه
\pagefilllstretch	\کشش‌پررصفحه
\pagefillstretch	\کشش‌پررصفحه
\pagefilstretch	\کشش‌پررصفحه
\pagegoal	\غايت‌صفحه
\pagename	\نام‌صفحه
\pagenumbering	\شماره‌گذاري‌صفحه
\pageref	\رجوع‌صفحه
\pagerulewidth	\ضخامت‌خط‌صفحه
\pageshrink	\افشادگي‌صفحه
\pagestretch	\کشش‌صفحه
\pagestyle	\سبک‌صفحه
\pagetotal	\جمع‌صفحه
\paperheight	\بلنداي‌کاغذ
\paperwidth	\پهني‌کاغذ
\par	\بند
\paragraph	\پاراگراف
\parallel	\موازي
\parbox	\کادر‌پار
\parfillskip	\فاصله‌ته‌بند
\parindent	\تورفتگي‌سربند
\parsep	\فاصله‌بند‌ليست
\parshape	\شكل‌بند

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\parskip	\فاصله بند
\part	\بخش
\partname	\عنوان بخش
\partopsep	\فاصله بالای لیست بند
\PassOptionToClass	\ارسال گزینه به کلاس
\PassOptionToPackage	\ارسال گزینه به پکیج
\path	\مسیر
\patterns	\الگوهای
\pausing	\مکث
\penalty	\جريمه
\phantom	\غیب
\poptabs	\الگوی قبلی
\postdisplaypenalty	\جريمه پس نمایش
\predisplaydirection	\جهت پیش نمایش
\predisplaypenalty	\جريمه پیش نمایش
\predisplaysize	\اندازه پیش نمایش
\pretolerance	\پیش حد بدنمایی
\prevdepth	\اعمق قبلی
\prevgraf	\بند قبلی
\printindex	\نمایه دراینجا
\ProcessOptions	\پردازش گزینه ها
\protect	\تامین
\providetcommand	\تهیه فرمان
\ProvidesClass	\آماده سازی طبقه
\ProvidesFile	\آماده سازی پرونده
\ProvidesPackage	\آماده سازی سبک
\pushtabs	\ثبت الگو
\quad	\کواد
\quad	\کوکواد
\@outputpagerestore	@\باز آیی خروج صفحه
\radical	\رادیکال
\raggedbottom	\پایین بی تنظیم
\raggedleft	\تنظیم از راست
\raggedright	\تنظیم از چپ
\raise	\انتقال ببالا
\raisebox	\بالابر
\raisetag	\ترفع اتیکت
\rangle	\زاویه ر
\rceil	\سقف ر
\read	\بخوان

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\ref	\ارجوع
\reflectbox	\کادرقرینه
\refname	\عنوان مراجع
\refstepcounter	\گام شمارنده مرجع
\relax	\راحت
\removelastskip	\رفع آخرین فاصله
\renewcommand	\فرمان ازنو
\renewenvironment	\محیط ازنو
\repeat	\ازنو
\RequirePackage	\سبک موردنیاز
\RequirePackageWithOptions	\سبک موردنیاز با گزینه
\resizebox	\کادرکشیده
\reversemarginpar	\در حاشیه معکوس
\rfloor	\کف ر
\right	\راست
\rightmargin	\حاشیه راست
\rightmark	\علامت راست
\rightpageskip	\کادرتاراست
\rightskip	\فاصله انتهای سطر
\rmdefault	\روم من عادی
\rmfamily	\فamilی رومان
\Roman	\روم بزرگ
\roman	\روم کوچک
\romannumeral	\عدد رومی
\rotatebox	\کادر چرخان
\rowcolor	\رنگ ردیف
\rule	\خط
\@secondoftwo	@ دومی از دو
\@spaces	@ فضاهای
\samepage	\همین صفحه
\savebox	\مقدار کادر
\sbox	\مقکادر
\scalebox	\کادر راندازه
\scdefault	\پیش فرض تمام بزرگ
\scshape	\شکل تمام بزرگ
\scriptfont	\قلم توان
\scriptscriptfont	\قلم توان توان
\scriptscriptstyle	\سبک ته نوشته نوشته
\scriptsize	\اندازه پانویس
\scriptstyle	\سبک ته نوشته

Continued on next page



Command in TeX or L ^A T _E X	Equivalent Persian Command
\scrollmode	\پردازش گذری
\section	\قسمت
\secdef	\تعريف قسمت
\see	\بینید
\seealso	\انیزبینید
\seename	\نامبینید
\selectfont	\قلمبردار
\setboolean	\تنظیمبولی
\setbox	\درکادر
\setcounter	\مقدارشمارنده
\setkeys	\مقدارکلیدها
\setlength	\مقداربعد
\setminus	\تنظیمنهای
\SetSymbolFont	\تعريف قلم علائم
\settodepth	\تنظیمبه عمق
\settoheight	\تنظیمبه ارتفاع
\settowidth	\مقداربعدیه اندازه
\sfcode	\کدضریب فاصله
\sfdefault	\پیشفرض سف
\sffamily	\فamilی سن سریف
\shadowbox	\کادرسایه دار
\sharp	\تیز
\shipout	\بفرست
\shortstack	\پشته کوتاه
\show	\نمایش بده
\showbox	\نمایش بده کادر
\showboxbreadth	\میزان نمایش کادر
\showboxdepth	\عمق نمایش کادر
\showlists	\نمایش بده لیستها
\showthe	\نمایش بده محتوای
\simplefontmode	\حالت ساده قلم
\sixt@@n	@\شانزد
\skewchar	\نویسه اریب
\skip	\فاصله
\skip@	@\فاصله
\skipdef	\تعريف فاصله
\sl	\خوابیده
\sldefault	\پیشفرض خو
\slshape	\شكل خوابیده
\sloppy	\راحت چین

Continued on next page



Command in TeX or L ^A T _E X	Equivalent Persian Command
\slshape	\شمايل خو
\small	\کوچك
\smallskip	\پرش کوتاه
\smallskipamount	\امقدار پرش کوتاه
\smash	\کوب
\smile	\بخند
\snglfntlocatecode	\کدمکان همانطور
\space	\فضا
\spacefactor	\ضربي فاصله
\spaceskip	\فاصله کلمات
\spadesuit	\پيک
\span	\ادغام
\special	\ويژه
\splitmaxdepth	\حداکثر عمق ستون
\splittopskip	\فاصله بالاي ستون
\star	\ستاره
\stepcounter	\گام شمارنده
\stretch	\اکشي
\string	\رشه
\strut	\شمع
\strutbox	\کادر شمع
\subitem	\زيربند
\subparagraph	\زيرپاراگراف
\subsection	\زيرقسمت
\substack	\زيرپشت
\subsubitem	\زيرزيربند
\subsubsection	\زيرزيرقسمت
\subset	\زيرمجموعه
\subsepeq	\زيرمجموعه مس
\supereject	\امتهای صفحه
\suppressfloats	\حذف مكان شناور
\@tempa	\@موقت آ
\@tempb	\@موقتب
\@tempc	\@موقتب
\@tempd	\@موقت پ
\@tempe	\@موقت ت
\@tempboxa	\@موقت ث
\@tempcnta	\@کادر قت آ
\@tempcntb	\@شماقت آ
\@tempdim a	\@شماقت ب
	\@بعد قت آ

Continued on next page



Command in TeX or L^AT_EX Equivalent Persian Command

\@tempdimb	\بعدقت ب
\@tempdimc	\بعدقت پ
\@tempskipa	\فاقت آ
\@tempskipb	\فاقت ب
\@tempswafalse	\سواقت آنادرست
\@tempswattrue	\سواقت آدرست
\@temptokena	\جزقت آ
\@thefnmark	\انگ زیرنویس
\@thirdofthree	\سومی ازسه
\tabbingsep	\فاصله جاگذاری
\tabcolsep	\فاصله بین ستونها
\tableofcontents	\افهرست مطالب
\tablename	\عنوان جدول
\tabskip	\فاصله ستونها
\tabularnewline	\ته سطرجدول
\tag	\اتیکت
\telephone	\تلفن
\TeX	\اتک
\text	\امتن
\textbullet	\گلوله متنی
\textfont	\قلم متن
\textemdash	\ام دش متنی
\textendash	\ان دش متنی
\textexclamdown	\تعجب وارونه متنی
\textperiodcentered	\ نقطه وسط متنی
\textquestiondown	\سوال وارونه متنی
\textquotedblleft	\نقل چپ متنی دولای
\textquotedblright	\نقل راست متنی دولای
\textquotingleft	\نقل متنی چپ
\textquoteright	\نقل متنی راست
\textvisiblespace	\فضای نمایان متنی
\textbackslash	\شکافت پشت متنی
\textbar	\امیله متنی
\textgreater	\بزرگ تر متنی
\textless	\کمتر متنی
\textbf	\امتن سیاه
\textcircled	\امدوار متنی
\textcolor	\رنگ متن
\textcompwordmark	\انشان کلمه مرکب متن
\textfloatsep	\فاصله متن و شناور

Continued on next page



Command in \TeX or \LaTeX	Equivalent Persian Command
<code>\textfraction</code>	\نسبت متن
<code>\textheight</code>	\بلندای متن
<code>\textindent</code>	\متن تورفته
<code>\textit</code>	\متن ایتالیک
<code>\textmd</code>	\متن نارک
<code>\textnormal</code>	\متن نرمال
<code>\textregistered</code>	\ثبتی متنی
<code>\textrm</code>	\متن رومان
<code>\textsc</code>	\متن تمام بزرگ
<code>\textsf</code>	\متن سن سریف
<code>\textsl</code>	\متن خوابیده
<code>\textstyle</code>	\سبک متنی
<code>\textsuperscript</code>	\بالانویس متنی
<code>\texttrademark</code>	\علامت تجاری متنی
<code>\texttt</code>	\متن تایپ
<code>\textup</code>	\متن ایستاده
<code>\textwidth</code>	\پهنه‌ی متن
<code>\thanks</code>	\زیرنویس عنوان
<code>\the</code>	\محتوای
<code>\thempfn</code>	\این زیرنویس
<code>\thicklines</code>	\خط هاضخیم
<code>\thickmuskip</code>	\فاصله زیاد ریاضی
<code>\thinmuskip</code>	\فاصله کم ریاضی
<code>\thickspace</code>	\فضاضخیم
<code>\thinlines</code>	\خط هانارک
<code>\thinspace</code>	\دوری کوچک
<code>\thisfancypage</code>	\این صفحه تجملی
<code>\thispagestyle</code>	\سبک این صفحه
<code>\thr@@</code>	@سه\
<code>\tilde</code>	\مد
<code>\tiny</code>	\ظریف
<code>\time</code>	\ازمان
<code>\times</code>	\ضرب در
<code>\title</code>	\عنوان
<code>\to</code>	\به
<code>\today</code>	\امروز
<code>\toks</code>	\جزء
<code>\toksdef</code>	\تعریف جزء
<code>\tolerance</code>	\حد بدنمایی
<code>\top</code>	\بالا

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Command in T _E X or L _A T _E X	Equivalent Persian Command
\topfigrule	\خط بالای شناور
\topfraction	\نسبت بالا
\topmargin	\حاشیه بالا
\topmark	\علامت بالا
\toppageskip	\کادر تابلا
\topsep	\فاصله بالای لیست
\topskip	\فاصله بالا
\totalheight	\بلندای کل
\tracingall	\ردگیری کل
\tracingcommands	\ردگیری فرمان
\tracinglostchars	\ردگیری حروف
\tracingmacros	\ردگیری ماکروها
\tracingonline	\ردگیری نمایشی
\tracingoutput	\ردگیری صفحه بندی
\tracingpages	\ردگیری صفحات
\tracingparagraphs	\ردگیری بندها
\tracingrestores	\ردگیری بازگردانی
\tracingstats	\ردگیری آمارها
\triangle	\مثلث
\ttdefault	\پیش فرض تایپ
\ttfamily	\فamilی تایپ
\tw@	\دو
\twocolumn	\دو ستون
\typein	\در زویس
\typeout	\برنزویس
\uccode	\کد بزرگ
\uchyph	\تیره بندی بزرگ
\undefined	\تعريف نشده
\underline	\ازیر خط
\unhbox	\ابی کادر
\unhcopy	\ابی کپی ا
\unitlength	\واحد طول
\unkern	\برگشت دوری
\unpenalty	\برگشت جریمه
\unskip	\برگشت فاصله
\unvbox	\ابی کادر و
\unvcopy	\ابی کپی و
\updefault	\پیش فرض ایستاده
\upshape	\شكل ایستاده
\usebox	\ارکادر

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Command in T _E X or L _A T _E X	Equivalent Persian Command
\usecounter	\باشمارشگر
\usefont	\گزینش قلم
\usepackage	\سبک لازم
\@vobeyspaces	\فضاهای فعال
\@void	\@تهی
\vadjust	\تنظیم و
\valign	\ردیف و
\value	\محتوای شمارنده
\vbadness	\ابد نمایی و
\vbox	\کادرو
\vcenter	\کادر وسط
\verb	\همانطور
\vfil	\پرو
\vfill	\پر پرو
\vfilneg	\رفع پرو
\vfuzz	\پرز عمودی
\visible	\نمایان
\vline	\خط عمود
\voffset	\حاشیه و
\voidb@x	\ک@در تهی
\vpageref	\ارجاع صفحه ع
\vrboxsep	\افاصله و گرد
\vref	\ارجاع ع
\vrule	\خط و
\vsize	\طول صفحه
\vskip	\افاصله و
\vspace	\فضای و
\vsplit	\شکست و
\vss	\اهردو و
\vtop	\کادر گرد
\wd	\عرض
\whiledo	\مادام بکن
\widehat	\کلاه پهن
\widetilde	\مد پهن
\widowpenalty	\جریمه ته بند
\width	\اپهنا
\wlog	\در کار نامه
\write	\بنویس
\@xobeysp	\@فضای لاتین
\@xxxii	\سی@دو

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\xdef	\اترگع
\xleaders	\انشانگرگسترشی
\xspaceskip	\فاصله اضافی کلمات
\year	\سال
\z@	\فر
\z@skip	\فرافصله

Table 2: The Equivalent XePersian Commands

Command in XePersian	Equivalent Persian Command
\autofootnoterule	\خط زیرنویس خودکار
\AutoMathsDigits	\اعداد فرمولهای خودکار
\DefaultMathsDigits	\اعداد فرمولهای لاتین
\deflatinfont	\تعريف قلم لاتین
\defpersianfont	\تعريف قلم پارسی
\hboxL	\کادر راچپ
\hboxR	\کادر راست
\keyval@eq@alias@key	\معادل @ کلید
\Latincite	\مرجع لاتین
\latinfont	\قلم لاتین
\latintoday	\امروز لاتین
\leftfootnoterule	\خط زیرنویس چپ
\lr	\متن لاتین
\LRE	\چپ برایست
\LTRdblcol	\دوستونی چپ
\LTRfootnote	\پانویس
\LTRfootnotetext	\متن پانویس
\LTRthanks	\پانویس عنوان
\persianday	\روز پارسی
\persianfont	\قلم پارسی
\PersianMathsDigits	\اعداد فرمولهای پارسی
\persianmonth	\ماه پارسی
\persianyear	\سال پارسی
\plq	\علامت چپ نقل قول پارسی
\prq	\علامت راست نقل قول پارسی
\rightfootnoterule	\خط زیرنویس راست
\rl	\متن پارسی
\RLE	\راست بچپ
\RTLdblcol	\دوستونی راست
\RTLfootnote	\پانوشت

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Command in XePersian	Equivalent Persian Command
\RTLfootnotetext	\متن پانوشت
\RTLthanks	\پانوشت عنوان
\@SepMark	\علامت بین
\SepMark	\علامت بین
\setdefaultbibitems	\بگذارم رجوعات عادی
\setdefaultmarginpar	\بگذار در رحایه عادی
\setdigitfont	\اگزینش قلم اعداد فرمولها
\setfootnoteLR	\بگذار زیرنویس چپ
\setfootnoteRL	\بگذار زیرنویس راست
\setlatintextfont	\اگزینش قلم لاتین متن
\setLTR	\بگذار متن چپ
\setLTRbibitems	\بگذار مرجوعات چپ
\setLTRmarginpar	\بگذار در رحایه چپ
\setRTL	\بگذار متن راست
\setRTLbibitems	\بگذار مرجوعات راست
\setRTLmarginpar	\بگذار در رحایه راست
\settextfont	\اگزینش قلم متن
\textwidthfootnoterule	\خط زیرنویس پهنای متن
\twocolumnstableofcontents	\فهرست مطالب دوستونی
\unsetfootnoteRL	\انگذار زیرنویس راست
\unsetLTR	\انگذار متن چپ
\unsetRTL	\انگذار متن راست
\vboxL	\کادر رواز چپ
\vboxR	\کادر رواز راست
\XeLaTeX	\ازی لاتک
\XePersian	\ازی پرشین
\xepersianversion	\گونه ازی پرشین
\xepersiandate	\تاریخ گونه ازی پرشین
\XeTeX	\ازی تک

Table 3: The Equivalent \LaTeX Environments

Environment in \LaTeX	Equivalent Persian Environment
abstract	چکیده
appendix	پیوست
array	آرایه
center	وسط چین
description	توضیح
displaymath	ریاضی نمایشی
document	نوشتار
enumerate	شمارش
figure	شکل

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Environment in L ^A T _E X	Equivalent Persian Environment
figure*	شکل*
filecontents	محتوای پرونده
filecontents*	* محتوای پرونده
flushleft	چپ چین
flushright	راست چین
itemize	فقرات
letter	نامه
list	لیست
longtable	جدول دراز
lrbox	کادر رج
math	ریاضی
matrix	ماتریس
minipage	صفحه کوچک
multicols	چند ستونی ها
multiline	چند خطی
note	یادداشت
overlay	انباشت
picture	تصویر
quotation	اقتباس
quote	نقل
slide	اسلاید
sloppypar	پارنامرب
split	شکافتن
subarray	زیر آرایه
tabbing	جاگذاری
table	لوح
table*	* لوح
tabular	جدول
tabular*	* جدول
thebibliography	مراجع
theindex	محتوای نمایه
titlepage	صفحه عنوان
trivlist	لیست بدروی
verbatim	همانطور که هست
verbatim*	* همانطور که هست
verse	شعر

Table 4: The Equivalent XePersian Environments

Environment in XePersian	Equivalent Persian Environment
latin	لاتین
LTR	متن چپ

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Environment in XePersian	Equivalent Persian Environment
LTRitems	دسته‌بندی چپ
persian	پارسی
RTL	متن راست
RTLitems	دسته‌بندی راست

Localisation of position arguments. Some environments like `tabular` and some commands like `\parbox` have an argument which specifies the position. Table [Table 5](#) shows their localisations.

Table 5: The Equivalent \LaTeX position arguments

Position argument in \LaTeX	Equivalent Persian position argument
b	ز
c	و
C	س
h	ا
H	آ
J	ت
l	ج
L	ف
m	م
p	پ
P	ص
r	ر
R	ا
s	ک
t	ب

☞ There are two ps in [Table 5](#), first p and its Persian equivalent پ stand for paragraph (used in `tabular` and similar environments) and the second p and its Persian equivalent ص stand for page (used in float-like environments).

2.4.8 Localizations of the keys and key values of graphicx package

The equivalent Persian keys and key values of `graphicx` package is shown in [Table 6](#) and [Table 7](#) respectively.

Table 6: Persian Equivalent keys of `graphicx` package

Original Key	Equivalent Persian Key
<code>draft</code>	پیش نویس
<code>origin</code>	مبدا
<code>clip</code>	بی اضافه
<code>keepaspectratio</code>	حفظ تناسب
<code>natwidth</code>	پنهانی طبیعی

Continued on next page



Original Key	Equivalent Persian Key
nheight	بلندای طبیعی
bb	مختصات
viewport	محدوده نمایش
trim	حذف اطراف
angle	زاویه
width	پهنا
height	بلندا
totalheight	بلندای کل
scale	ضریب
type	نوع
ext	پسوند
read	خواندنی
command	فرمان
x	طول
y	عرض
units	واحد

Table 7: Persian Equivalent key values of graphicx package

Original Key value	Equivalent Persian Key value
b	ز
B	ک
false	نادرست
l	ج
r	ر
t	ب
true	درست

2.4.9 Localizations of font features and font feature options

The equivalent Persian font features and font feature options is shown in [Table 8](#) and [Table 9](#) respectively.

Table 8: Persian Equivalent font features

Original font feature	Equivalent Persian font feature
ExternalLocation	مکان خارجی
ExternalLocation	مسیر
Renderer	تحویل دهنده
BoldFont	قلم سیاه
Language	زبان
Script	خط
UprightFont	قلم عمودی
ItalicFont	قلم ایتالیک

Continued on next page



Original font feature	Equivalent Persian font feature
BoldItalicFont	قلم ایتالیک سیاه
SlantedFont	قلم خوابیده
BoldSlantedFont	قلم خوابیده سیاه
SmallCapsFont	قلم کلاه کوچک
UprightFeatures	ویرگی های قلم عمودی
BoldFeatures	ویرگی های قلم سیاه
ItalicFeatures	ویرگی های قلم ایتالیک
BoldItalicFeatures	ویرگی های قلم ایتالیک سیاه
SlantedFeatures	ویرگی های قلم خوابیده
BoldSlantedFeatures	ویرگی های قلم خوابیده سیاه
SmallCapsFeatures	ویرگی های قلم کلاه کوچک
SizeFeatures	ویرگی های اندازه
Scale	ضریب
WordSpace	فضای کلمه
PunctuationSpace	فضای نقطه گذاری
FontAdjustment	تنظیم قلم
LetterSpace	فضای حرف
HyphenChar	نویسه تیره
Color	رنگ
Opacity	کدری
Mapping	نگاشت
Weight	سنگینی
Width	پهنا
OpticalSize	اندازه چشمی
FakeSlant	خوابیده تقلی
FakeStretch	کشش تقلی
FakeBold	سیاه تقلی
AutoFakeSlant	خوابیده تقلی خودکار
AutoFakeBold	سیاه تقلی خودکار
Ligatures	دویاچند حرف متصل به هم
Alternate	متناوب
Variant	گوناگون
Variant	مجموعه سبکی
CharacterVariant	گوناگونی نویسه
Style	سیک
Annotation	یادداشت
RawFeature	ویرگی های کال
CharacterWidth	پهنا نویسه
Numbers	ارقام
Contextuals	متñی

Continued on next page



Original font feature	Equivalent Persian font feature
Diacritics	تفکیک کننده‌ها
Letters	حروف
Kerning	دوری
VerticalPosition	موقعیت عمودی
Fractions	كسر

Table 9: Persian Equivalent font feature options

font feature	font feature option	Persian font feature option
Language	Default	پیش فرض
Language	Parsi	پارسی
Script	Parsi	پارسی
Script	Latin	لاتین
Style	MathScript	اسکریپت ریاضی
Style	MathScriptScript	اسکریپت اسکریپت ریاضی

2.5 A Sample Input T_EX File

```

1 \documentclass{article}
2 \usepackage{xepersian}
3 \settextfont[XB Niloofer]
4 \title{یک سند نمونه}
5 \author{نام نویسنده}
6 \begin{document}
7 \maketitle
8 \tableofcontents
9 \part{عنوان بخش}
10 ...
11 \section{عنوان قسمت}
12 ...
13 \subsection{عنوان زیرقسمت}
14 ...
15 \subsubsection{عنوان زیر زیرقسمت}
16 ...
17 \end{document}

```

2.6 Font Commands



2.6.1 Basic Font Commands

```
\settextfont [Options] {<font name>}  
\setlatintextfont [Options] {<font name>}  
\setdigitfont [Options] {<font name>}  
\setmathsf digitfont [Options] {<font name>}  
\setmathtt digitfont [Options] {<font name>}
```

- ☞ Options in any font command in this documentation are anything that `fontspec` package provides as the option of loading fonts, except `Script` and `Mapping`.
- ☞ `\settextfont` will choose the default font for Persian texts of your document.
- ☞ `\setlatintextfont` will choose the font for Latin texts of your document. If you do not use this command at all, the default T_EX font (fonts used in this documentation) will be used for Latin texts of your document.
- ☞ `\setdigitfont` will choose the Persian font for digits in math mode. By default, digits in math mode will appear in Persian form.
- ☞ `\setmathsf digitfont` will choose the Persian font for digits in math mode inside `\mathsf`. By using this command, digits in math mode inside `\mathsf` will appear in Persian form and if you do not use this command at all, you will get default T_EX font for digits in math mode inside `\mathsf` and digits appear in their original form (Western).
- ☞ `\setmathtt digitfont` will choose the Persian font for digits in math mode inside `\mathtt`. By using this command, digits in math mode inside `\mathtt` will appear in Persian form and if you do not use this command at all, you will get default T_EX font for digits in math mode inside `\mathtt` and digits appear in their original form (Western).

2.6.2 Defining Extra Persian and Latin Fonts

```
\defpersianfont\CS [Options] {<font name>}  
\deflatinfont\CS [Options] {<font name>}
```

- ☞ With `\defpersianfont`, you can define extra Persian fonts.

```
\defpersianfont\Nastaliq[Scale=1]{IranNastaliq}
```

In this example, we define `\Nastaliq` to stand for IranNastaliq font.

- ☞ With `\deflatinfont`, you can define extra Latin fonts.

```
\deflatinfont\junicode[Scale=1]{Junicode}
```

In this example, we define `\junicode` to stand for Junicode font.



2.6.3 Choosing Persian Sans Font

```
\setpersiansansfont [Options] {<font name>}  
\persiansffamily \textpersiansf{<text>}
```

2.6.4 Choosing Persian Mono Font

```
\setpersianmonofont [Options] {<font name>}  
\persianttfamily \textpersiantt{<text>}
```

2.6.5 Choosing Persian Iranic Font

```
\setiranicfont [Options] {<font name>}  
\iranicfamily \textiranic{<text>}
```

2.6.6 Choosing Persian Navar Font

```
\setnavarfont [Options] {<font name>}  
\navarfamilly \textnavar{<text>}
```

2.6.7 Choosing Persian Pook Font

```
\setpookfont [Options] {<font name>}  
\pookfamily \textpook{<text>}
```

2.6.8 Choosing Persian Sayeh Font

```
\setsayehfont [Options] {<font name>}  
\sayehfamily \textsayeh{<text>}
```

2.6.9 Choosing Latin Sans Font

```
\setlatinsansfont [Options] {<font name>}  
\sffamily \textsf{<text>}
```

2.6.10 Choosing Latin Mono Font

```
\setlatinmonofont [Options] {<font name>}  
\ttfamily \texttt{<text>}
```



3 Latin and Persian Environment

```
\begin{latin} <text> \end{latin}
\begin{persian} <text> \end{persian}
```

☞ latin environment both changes direction of the paragraphs to LTR and font to Latin font.

☞ persian environment both changes direction of the Paragraphs to RTL and font to Persian font.

3.1 latinitems and parsiitems environments

```
\begin{latinitems}
\item <text>
...
\end{latinitems}
```

☞ latinitems environment is similar to LTRitems environment but changes the font to Latin font.

```
\begin{parsiitems}
\item <text>
...
\end{parsiitems}
```

☞ parsiitems environment is similar to RTLitems environment but changes the font to Persian font.

3.2 Short Latin and Persian Texts

```
\lr{<text>} \rl{<text>}
```

☞ With \lr command, you can typeset short LTR texts.

☞ With \rl command, you can typeset short RTL texts.

3.3 Miscellaneous Commands

```
\persianyear \persianmonth \persianday
\today \latintoday \twocolumnstableofcontents \XePersian
\plq \prq
```

☞ \persianyear is Persian equivalent of \year.



- ☞ \persianmonth is Persian equivalent of \month.
- ☞ \persianday is Persian equivalent of \day.
- ☞ \today typesets current Persian date and \latintoday typesets current Latin date.
- ☞ \twocolumnstableofcontents typesets table of contents in two columns. This requires that you have loaded multicol package before XePersian package, otherwise an error will be issued.
- ☞ \XePersian typesets XePersian's logo.
- ☞ \plq and \prq typeset Persian left quote and Persian right quote respectively.

3.4 New Commands

\Latincite

- ☞ \Latincite functions exactly like \cite command with only one difference; the reference to biblabel item is printed in Latin font in the text.

3.5 Additional Counters

XePersian defines several additional counters to what already L^AT_EX offers. These counters are **harfi**, **adadi**, and **tartibi**. In addition, the following commands are also provided:

\harfinumeral{\<integer>} \adadinumeral{\<integer>} \tartibinumeral{\<integer>}

- ☞ The range of **harfi** counter is integers between 1 and 32 (number of the Persian alphabets) and **adadi** and **tartibi** counters, are integers between 0 and 999,999,999.
- ☞ For **harfi** counter, if you give an integer bigger than 32 or a negative integer (if you give integer 0, it returns nothing), then you get error and for **adadi** and **tartibi** counters, if you give an integer bigger than 999,999,999, then you get an error message.
- ☞ For **adadi** and **tartibi** counters, if you give an integer less than 0 (a negative integer), then **adadi** and **tartibi** counters return **adadi** and **tartibi** form of the integer 0, respectively.
- ☞ \harfinumeral returns the **harfi** form of **\<integer>**, where $1 \leq \text{integer} \leq 32$ and \adadinumeral, and \tartibinumeral return **adadi**, and **tartibi** form of **\<integer>** respectively, where $0 \leq \text{integer} \leq 999,999,999$.



3.6 Things To Know About `\setdigitfont`, `\setmathsf digitfont`, and `\setmathtt digitfont`

```
\DefaultMathsDigits \PersianMathsDigits \AutoMathsDigits
```

- ☞ As we discussed before, `\setdigitfont` will choose the Persian font for digits in math mode. By default, digits in math mode will appear in Persian form.
- ☞ As we discussed before, `\setmathsf digitfont`, and `\setmathtt digitfont` will choose the Persian sans serif and typewriter fonts for digits in math mode. By using this command, digits in math mode will appear in Persian form and if you do not use this command at all, you will get default T_EX font for digits in math mode and digits appear in their original form (Western).

If you use `\setdigitfont`, `\setmathsf digitfont`, and `\setmathtt digitfont`, then you should know that:

- ☞ By default, `\AutoMathsDigits` is active, which means that in Persian mode, you get Persian digits in math mode and in Latin mode, you get T_EX's default font and digits in math mode.
- ☞ If you use `\PersianMathsDigits` anywhere, you will overwrite XePersian's default behaviour and you will always get Persian digits in math mode.
- ☞ If you use `\DefaultMathsDigits` anywhere, again you will overwrite XePersian's default behaviour and you will always get T_EX's default font and digits in math mode.

4 New Conditionals

4.1 Shell escape (or write18) conditional

```
\ifwritexviii
  <material when Shell escape (or write18) is enabled>
\else
  <material when Shell escape (or write18) is not enabled>
\fi
```

5 Bilingual Captions

XePersian sets caption bilingually. This means if you are in RTL mode, you get Persian caption and if you are in LTR mode, you get English caption.



5.1 Support For Various Packages

In addition to what bidi package supports, XePersian also support a few packages. This support is more about language aspect rather than directionality. These packages are algorithmic, algorithm,enumerate, and backref packages.

5.1.1 Things You Should Know about Support For enumerate Package

The enumerate package gives the enumerate environment an optional argument which determines the style in which the counter is printed.

An occurrence of one of the tokens A, a, I, i, or 1 produces the value of the counter printed with (respectively) \Alph, \alph, \Roman, \roman or \arabic.

In addition with the extra support that XePersian provides, an occurrence of one of the tokens l, ی, or ۲ produces the value of the counter printed with (respectively) \harfi, \adadi, or \tartibi.

These letters may be surrounded by any strings involving any other \TeX expressions, however the tokens A, a, I, i, 1, l, ی, ۲ must be inside a {} group if they are not to be taken as special.

To see an Example, please look at enumerate package documentation.

5.2 Index Generation

For generating index, you are advised to use xindy program, any other program such as makeindex is not recommended.

5.3 Converting Your Farsi \TeX Files To XePersian or Unicode

There is a python program written by Mostafa Vahedi that enables you to convert Farsi \TeX files to XePersian or unicode. This program can be found in doc folder with the name ftxe-0.12.py. To convert your Farsi \TeX files to XePersian, put ftxe-0.12.py in the same directory that your Farsi \TeX file is, and then open a terminal/command prompt and do the following:

```
python ftxe-0.12.py file.ftx file.tex
```

This will convert your file.ftx (Farsi \TeX file) to file.tex (XePersian file). The general syntax of using the python script is as follow:

```
python ftxe-0.12.py [-r] [-s] [-x] [-u] input-filename1 input-filename2
```

Where

- r (DEFAULT) recursively consider files included in the given files
- s do not recursively consider files
- x (DEFAULT) insert XePersian related commands



`-u` only convert to unicode (and not to XePersian)

Please note that the python script will not work with versions of python later than 2.6. So you are encouraged to use version 2.6 of python to benefit from this python script.

6 Extra Packages And Classes

6.1 Magazine Typesetting

6.1.1 Introduction

`xepersian-magazine` class allows you to create magazines, newspapers and any other types of papers. The output document has a front page and as many inner pages as desired. Articles appear one after another, telling the type, number of columns, heading, subheading, images, author and so forth. It is possible to change the aspect of (almost) everything therefore it is highly customisable. Commands to add different titles, headings and footers are also provided.

6.1.2 Usage

To create² a magazine just load the class as usual³, with

```
\documentclass [Options] {xepersian-magazine}
```

at the beginning of your source file. The class options are described in [subsubsection 6.1.12](#).

From this point it is possible to include packages and renew class commands described in [subsubsection 6.1.9](#).

6.1.3 Front Page

As every magazine, `xepersian-magazine` has its own front page. It includes main headings, an index, the magazine logo and other useful information. This environment should be the first you use within `xepersian-magazine` class but it is not mandatory.

```
\firstimage \firstarticle
```

The first two commands you can use inside the `frontpage` environment are `\firstimage` and `\firstarticle` which include, respectively, the main image and the main heading in the front page. The first one takes two arguments `<image>` and `<description>`. Notice that second argument is optional and it declares the image

²For a sample file, please look at `magazine-sample.tex` in the doc folder

³You also need to load `graphicx`, `xunicode` and `xepersian` packages respectively, after loading the document class and choose fonts for the main text, Latin text and digits in maths formulas. For more detail see [section 2](#) of the documentation.



caption; *<image>* defines the relative path to the image. In order to include the first piece of article use

```
\firstarticle{\langle title\rangle}{\langle opening\rangle}{\langle time\rangle}
```

first two arguments are mandatory and represent heading and the opening paragraph. Last argument is optional (you can leave it blank) and indicates the time when article happened.

```
\secondarticle
```

The second piece of article is included using the command `\secondarticle` just as the first article. The main difference are that this second piece has two more arguments and it does not include an image.

```
\secondarticle{\langle title\rangle}{\langle subtitle\rangle}{\langle opening\rangle}{\langle pagesof\rangle}{\langle time\rangle}
```

The new arguments *<subtitle>* and *<pagesof>* define a subtitle and the name of the section for this piece of article.

```
\thirdarticle
```

The third piece of article is the last one in the `xepersian-magazine` front page. It works like the `\secondarticle`.

```
\thirdarticle{\langle title\rangle}{\langle subtitle\rangle}{\langle opening\rangle}{\langle pagesof\rangle}{\langle time\rangle}
```

The arguments meaning is the same as `\secondarticle` command.

The front page includes three information blocks besides the news: `indexblock` which contains the index, `authorblock` which includes information about the author and a `weatherblock` containing a weather forecast. All these three environments are mostly a frame in the front page therefore they can be redefined to fit your personal wishes but I kept them to give an example and to respec the original `xepersian-magazine` format.

```
\indexitem
```

The `indexblock` environment contains a manually edited index of `xepersian-magazine`. It takes one optional argument *<title>* and places a title over the index block. To add entries inside the index just type

```
\indexitem{\langle title\rangle}{\langle reference\rangle}
```

inside the environment. The *<title>* is the index entry text and the *<reference>* points to a article inside `xepersian-magazine`. It will be more clear when you read [subsub-](#)



[section 6.1.4](#). In order to get a correct output, it is necessary to leave a blank line between index items.

The `authorblock` environment can include whatever you would like. I called it `authorblock` because I think it is nice to include some author reference in the front page: who you are, why are you doing this... This environment creates a frame box in the bottom right corner of the front page with your own logo at the top.

```
\weatheritem
```

Finally, the `weatherblock` lets you include a weather forecast. It takes one optional argument `<title>` that places a title over the weather block. It can fit up to three weather icons with maximum and minimum temperatures, description and name. To add each of the weather entries type the following

```
\weatheritem{<image>}{<day-name>}{<max>} {<min>}{<short-des>}
```

The first argument includes the path to the weather icon (i.e. sunny or rainy), `<day-name>` like Monday, `<max>` and `<min>` are the highest and lowest day temperatures and `<short-des>` is a brief description of the weather condition: partly cloudy, sunny and windy ...

6.1.4 Inside

Once we have created the front page we should include all articles inside our magazine. `xepersian-magazine` arranges all articles one after each other, expanding headings all over the page and splitting the article text in the number of columns we wish. There are three different environments to define a piece of article: the `article` environment described in [subsubsection 6.1.5](#), the `editorial` environment [subsubsection 6.1.6](#) for opinion articles and the `shortarticle` environment explained in [subsubsection 6.1.7](#).

6.1.5 The article environment

The main environment to include a piece of article is called `article`. It takes four arguments that set up the headings and structure of the article.

```
\begin{article}{<num-of-columns>}{<title>}{<subtitle>} {<pagesof>}{<label>}  
...<text>...  
\end{article}
```

The first argument `<num-of-columns>` sets the number of columns the article will be divided whereas `<label>` is used when pointing an article from the index in the front page. The rest of the arguments are easy to understand.

Inside the `article` environment, besides the main text of the article, it is possible to include additional information using several class commands.



```
\authorandplace \timestamp
```

The `\authorandplace{<author>}{<place>}` inserts the name of the editor and the place where the article happened in the way many magazines do. Another useful command is `\timestamp{<time>}` which includes the time and a separator just before the text. These two commands should be used before the text because they type the text as the same place they are executed.

```
\image
```

To include images within the text of an article, `xepersian-magazine` provides an `\image` command. Since `multicol` package does not provide any float support for its `multicols` environment, I created a macro that includes an image only if that is possible, calculating if there is enough space for the image. It is not the best solution but it works quite well and I could not find a better one. To include an image use the command and its two arguments: the relative path to the image and a short description.

```
\image{<image>}{<description>}
```

```
\columntitle \expandedtitle
```

Within the text of the article, it is possible to add column and expanded titles. The main difference between them is that the first one keeps inside the width of an article column whereas the second expands all over the width of the page, breaking all the columns. Their use is analogous, as follows

```
\columntitle{<type>}{<text>}\expandedtitle{<type>}{<text>}
```

These two commands use `fancybox` package features. That is why there are five different types of titles which correspond mainly with `fancybox` ones: `shadowbox`, `doublebox`, `ovalbox`, `Ovalbox` and `lines`.

6.1.6 The editorial environment

In addition to the editorial article environment, one can use the editorial environment to create editorial or opinion texts. The main feature is that it transforms the style of the heading. Although this environment accepts all the commands article takes, it does not make any sense to use the `\authorandplace` command within it since it includes an author argument. To create an editorial text use



```
\begin{editorial}{<num-of-columns>}{<title>}{<author>}{<label>}  
...<text>...  
\end{editorial}
```

All arguments have the same meaning as article environment (see [subsubsection 6.1.5](#)).

6.1.7 The shortarticle environment

The shortarticle environment creates a block of short article. Although it has its own title and subtitle, each piece of article within it may have a title. To use it just type:

```
\begin{shortarticle}{<num-of-columns>}{<title>}{<subtitle>}{<label>}  
...<text>...  
\shortarticleitem{<title>}{<text>}  
...  
\end{shortarticle}
```

You can also specify the number of columns of the block like editorial and article environments. To add a piece of article inside the shortarticle use the `\shortarticleitem`, indicating a title and the text of the issue.

6.1.8 Commands between articles

```
\articlesep \newsection
```

There are two commands you can use among the articles inside xepersian-magazine: `\articlesep` and `\newsection`. The first one does not take any parameter and just draws a line between two articles. The second changes the content of `\xepersian@section` to the new `<section name>`. From the point it is used, all articles which follow will be grouped within the new section.

```
\newsection{<section name>}
```

6.1.9 Customization

xepersian-magazine includes many commands which can be used to customize its aspect, from the front page to the last page. I will list them grouped so it is easy to find them. Treat them as standard L^AT_EX commands, using `\renewcommand` to change their behaviour.



6.1.10 Front Page

```
\customlogo \customminilogo \custommagazinename
```

When creating a magazine, everyone wants to show its own logo instead of xepersian-magazine default heading. To achieve this, you need to put the following command at the preamble of your document:

```
\customlogo{\text}  
\customminilogo{\text}  
\custommagazinename{\text}
```

```
\edition \editionformat
```

The edition text has to be declared in the preamble of the document. One important thing to know is that \author, \date and \title have no effect inside xepersian-magazine since the magazine date is taken from \today command and the other two are only for the title page (if using \maketitle).

```
\indexFormat \indexEntryFormat \indexEntryPageTxt  
\indexEntryPageFormat \indexEntrySeparator
```

When defining the index in the front page, there are several commands to customize the final index style. \indexFormat sets the format of the title; \indexEntryFormat, the format of each index entry; \indexEntryPageTxt and \indexEntryPageFormat lets you define which is the text that goes with the page number and its format. Finally, xepersian-magazine creates a thin line between index entries, you can redefine it using \indexEntrySeparator. To get the index with \xepersian@indexwidth is provided.

```
\weatherFormat \weatherTempFormat \weatherUnits
```

Relating to the weather block, the title format can be changed redefining \weatherFormat. In order to customize the format of the temperature numbers and their units it is necessary to redefine \weatherTempFormat and \weatherUnits respectively.

```
\*TitleFormat \*SubtitleFormat \*TextFormat
```

The main article that appear in the front page can change their formats. To obtain that there are three standard commands to modify the title, subtitle and text style. You just have to replace the star (*) with first, second or third depending on which article you are editing. Note that first piece of article has no subtitle therefore it does not make any sense to use the non-existent command \firstSubtitleFormat.



```
\pictureCaptionFormat \pagesFormat
```

Two other elements to configure are the picture captions and the pages or section format in the entire document. To proceed just redefine the macros `\pictureCaptionFormat` and `\pagesFormat`.

6.1.11 Inside The Magazine

```
\innerTitleFormat \innerSubtitleFormat \innerAuthorFormat  
\innerPlaceFormat
```

The articles inside `xepersian-magazine` may have a different format from the ones in the front page. To change their title or subtitle format redefine `\innerTitleFormat` and `\innerSubtitleFormat`. The article text format matches the document general definition. When using the `\authorandplace` command, you might want to change the default style. Just renew `\innerAuthorFormat` and `\innerPlaceFormat` to get the results.

```
\timestampTxt \timestampSeparator \timestampFormat
```

The `\timestamp` command described in [subsection 6.1.5](#) lets you introduce the time of the event before the article text. You can configure its appearance by altering several commands: `\timestampTxt` which means the text after the timestamp; `\timestampSeparator` which defines the element between the actual timestamp and the beginning of the text and, finally, `\timestampFormat` to change the entire timestamp format.

```
\innerTextFinalMark
```

`xepersian-magazine` puts a small black square at the end of the article. As I wanted to create a highly customizable `LATEX` class I added the macro `\innerTextFinalMark` to change this black square. This item will appear always following the last character of the text with the `\text{`}` character.

```
\minraggedcols \raggedFormat
```

The `\minraggedcols` counter is used to tell `xepersian-magazine` when article text should be ragged instead of justified. The counter represents the minimum number of columns that are needed in order to use ragged texts. For example, if `\minraggedcols` is set to `3`, all articles with `3` columns or more will be ragged. Articles with `1`, `2` columns will have justified text. By default, `\minraggedcols` is set to `4`.

The `\raggedFormat` macro can be redefined to fit user ragged style. Default value is `\RaggedLeft`.



```
\heading \foot
```

xepersian-magazine includes package fancyhdr for changing headings and footers. Although it is possible to use its own commands to modify xepersian-magazine style, there are two commands to change headings and foot appearance. Place them in the preamble of your xepersian-magazine document.

```
\heading{\left}{\center}{\right}  
\foot{\left}{\center}{\right}
```

If you still prefer to use fancyhdr macros, use them after the `frontpage` environment. xepersian-magazine by default places no headers and footers. If you want headers and footers, then after loading xepersian package, you should write `\pagestyle{fancy}` at the preamble of your document.

6.1.12 Class Options

The xepersian-magazine class is in itself an alteration of the standard article class, thus it inherits most of its class options but `twoside`, `twocolumn`, `notitlepage` and `a4paper`. If you find problems when loading other article features, please let me know to fix it. There are also five own options that xepersian-magazine implements.

a3paper (false) This option makes xepersian-magazine 297 mm width by 420 mm height. This option is implemented because the standard article class does not allow this document size.

9pt (false) Allows the 9pt font size that article class does not include (default is 10pt).

columnlines columnlines (false) Adds lines between columns in the entire xepersian-magazine. The default line width is 0.1pt but it is possible to change this by setting length `\columnlines` in the preamble.

showgrid (false) This option is only for developing purposes. Because the front page has a personal design using the textpos package, I created this grid to make easier the lay out.

6.2 Typesetting Multiple-choice Questions

6.2.1 Introduction

xepersian-multiplechoice is a package for making multiple choices questionnaires under L^AT_EX. A special environment allows you to define questions and possible answers. You can specify which answers are correct and which are not. xepersian-multiplechoice not only formats the questions for you, but also generates a "form" (a grid that your students will have to fill in), and a "mask" (the same grid, only with correct answers properly checked in). You can then print the mask on a slide and correct the questionnaires more easily by superimposing the mask on top of students' forms.



6.2.2 Usage

Here we now explain the usage of this package, however there are four example files, namely `test-question-only.tex`, `test-solution-form.tex`, `test-empty-form.tex` and `test-correction.tex`, available in doc folder that you may want to look at.

6.2.3 Loading The Package

You can load the package as usual by:

```
\usepackage [Options] {xepersian-multiplechoice}
```

The available options are described along the text, where appropriate.

6.2.4 Creating Questions

Here's a simple example demonstrating how to produce a new question:

```
1 \begin{question}{سؤال}
2   جواب ١
3   \true ٢
4   \false ٣
5   \false ٤
6 \end{question}
7 \begin{correction}
8   جواب واقعی و علت اینکه این جواب، جواب واقعی هست
9 \end{correction}
```

6.2.5 The question Environment

The `question` environment allows you to insert questions into your document. It takes one mandatory argument which specifies the actual question's text. The question will be displayed in a frame box, the size of the line.

```
\true \false
```

The proposed answers are displayed below the question in a list fashion (the `question` environment is a list-based one). Instead of using `\item` however, use either `\true` or `\false` to insert a possible answer.

6.2.6 Question Numbers

The `question` environment is associated with a L^AT_EX counter named `question`. This counter stores the number of the next (or current) question. It is initialized to 1, and automatically incremented at the end of `question` environments. You might want to use it to format question titles. For instance, you could decide that each question belongs to a subsection in the `article` class, and use something like this before each question: `\subsection*{Question \thequestion}`



6.2.7 The Form and the Mask

```
\makeform \makemask
```

Based on the questions appearing in your document, `xepersian-multiplechoice` has the ability to generate a “form” (a grid that your students will have to fill in), and a “mask” (the same grid, only with correct answers properly checked in). This can make the correction process easier.

To generate a form and a mask, use the macros `\makeform` and `\makemask`. `xepersian-multiplechoice` uses two auxiliary files to build them. These files have respectively an extension of `frm` and `msk`. If you use these macros, you will need two passes of `LATEX` in order to get a correctly formatted document.

6.2.8 Typesetting corrections

The “correction” mode allows you to automatically typeset and distribute corrections to your students. These corrections are slightly modified versions of your questionnaire: each possible answer is prefixed with a small symbol (a visual clue) indicating whether the answer was correct or wrong. In addition, you can typeset explanations below each question.

To activate the correction mode, use the `correction` option. It is off by default.

To typeset explanations below the questions, use the `correction` environment (no argument). The contents of this environment is displayed only in correction mode. In normal mode, it is simply discarded.

In addition, note that `xepersian-multiplechoice` cancels the actions performed by `\makeform` and `\makemask` in correction mode. This is to avoid further edition of the source when typesetting a correction.

6.2.9 Important Note

Currently, `xepersian-multiplechoice` requires that you provide a constant number of proposed answers across all questions in your `xepersian-multiplechoice`. This is something natural when you want to build forms, but this might me too restrictive otherwise, I’m not sure, so it is possible that this restriction will be removed in future versions.

Currently, there is a built-in mechanism for checking that the number of proposed answers remains constant: when `xepersian-multiplechoice` encounters the first occurrence of the `question` environment, it remembers the number of proposed answers from there. Afterwards, any noticed difference in subsequent occurrences will generate an error. As a consequence, you never have to tell `xepersian-multiplechoice` explicitly what that number is.

6.3 Customising The Package



6.3.1 The question environment

```
\questionspace \answerstitlefont \answernumberfont
```

\questionspace is the amount of extra vertical space to put under the question, before the list of proposed answers. This is a \LaTeX length that defaults to 0pt. Before the list of possible answers, a short title is displayed (for English, it reads "Possible answers:"). The \answerstitlefont macro takes one mandatory argument which redefines the font to use for the answers title. By default, \bfseries is used. Each proposed answer in the list is numbered automatically (and alphabetically). The \answernumberfont macro takes one mandatory argument which redefines the font to use for displaying the answer number. By default, \bfseries is used.

6.3.2 The Form and the Mask

```
\headerfont \X
```

The \headerfont macro takes one mandatory argument which redefines the font to use for the headers (first line and first column) of the form and mask arrays. By default, \bfseries is used.

In the mask, correct answers are checked in by filling the corresponding cell with an "X" character. If you want to change this, call the \X macro with one (mandatory) argument.

6.3.3 The correction

```
\truesymbol \falsesymbol
```

In correction mode, labels in front of answers are modified to give a visual clue about whether the answer was correct or wrong. By default, a cross and a small arrow are used. You can change these symbols by using the \truesymbol and \falsesymbol macros. For instance, you could give a fancier look to your correction by using the pifont package and issuing:

```
\truesymbol{\ding{'063}~}  
\falsesymbol{\ding{'067}~}
```

```
\correctionstyle
```

The appearance of the contents of the correction environment can be adjusted by using the \correctionstyle macro. By default, \itshape is used.

7 xepersian implementation

7.1 algorithmic-xepersian.def



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

7.2 algorithm-xepersian.def

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

7.3 amsart-xepersian.def

```
8 \ProvidesFile{amsart-xepersian.def}[2017/02/04 v0.4 adaptations for amsart class]
9 \renewcommand \thepart {\@startibi\c@part}
10 \def\appendix{\par\c@section\z@\c@subsection\z@
11   \let\sectionname\appendixname
12   \def\thesection{\@harfi\c@section}}
13 }
```

7.4 amsbook-xepersian.def

```
14 \ProvidesFile{amsbook-xepersian.def}[2017/02/04 v0.5 adaptations for amsbook class]
15 \def\frontmatter{\cleardoublepage\pagenumbering{harfi}}
16 \renewcommand \thepart {\@startibi\c@part}
17 \def\appendix{\par
18   \c@chapter\z@\c@section\z@
19   \let\chaptername\appendixname
20   \def\thechapter{\@harfi\c@chapter}}
21
22 }
```

7.5 appendix-xepersian.def

```
23 \ProvidesFile{appendix-xepersian.def}[2015/02/01 v0.1 adaptations for appendix package]
24 \renewcommand{\@resets@pp}{\par
25   \@ppsavesec
26   \stepcounter{@pps}
27   \setcounter{section}{0}%
28   \if@chapter@pp
29     \setcounter{chapter}{0}%
30     \renewcommand{\chapapp}{\appendixname}%
31     \renewcommand{\thechapter}{\@harfi\c@chapter}%
32   \else
33     \setcounter{subsection}{0}%
34     \renewcommand{\thesection}{\@harfi\c@section}%
35   \fi
36   \restoreapp
37 }
```

7.6 article-xepersian.def

```
38 \ProvidesFile{article-xepersian.def}[2010/07/25 v0.2 adaptations for standard article class]
```



```

39 \renewcommand \thepart {\@tartibi\c@part}
40 \renewcommand\appendix{\par
41   \setcounter{section}{0}%
42   \setcounter{subsection}{0}%
43 \gdef\thesection{\@harfi\c@section}}

```

7.7 artikel1-xepersian.def

```

44 \ProvidesFile{artikel1-xepersian.def}[2010/07/25 v0.1 adaptations for artikel1 class]
45 \renewcommand*\thepart{\@tartibi\c@part}
46 \renewcommand*\appendix{\par
47   \setcounter{section}{0}%
48   \setcounter{subsection}{0}%
49 \gdef\thesection{\@harfi\c@section}}

```

7.8 artikel2-xepersian.def

```

50 \ProvidesFile{artikel2-xepersian.def}[2010/07/25 v0.1 adaptations for artikel2 class]
51 \renewcommand*\thepart{\@tartibi\c@part}
52 \renewcommand*\appendix{\par
53   \setcounter{section}{0}%
54   \setcounter{subsection}{0}%
55 \gdef\thesection{\@harfi\c@section}}

```

7.9 artikel3-xepersian.def

```

56 \ProvidesFile{artikel3-xepersian.def}[2010/07/25 v0.1 adaptations for artikel3 class]
57 \renewcommand*\thepart{\@tartibi\c@part}
58 \renewcommand*\appendix{\par
59   \setcounter{section}{0}%
60   \setcounter{subsection}{0}%
61 \gdef\thesection{\@harfi\c@section}}

```

7.10 backref-xepersian.def

```

62 \ProvidesFile{backref-xepersian.def}[2010/07/25 v0.1 adaptations for backref package]
63 \def\backrefpagesname{\if@RTL else\ pages\fi}
64 \def\BR@Latincitex[#1]#2{%
65   \BRorg@Latincitex[\{#1\}]\{#2\}%
66   \ifBR@verbose
67     \PackageInfo{backref}{back Latin cite `string`\#2`string'}%
68   \fi
69   \Hy@backout{\#2}%
70 }
71 \AtBeginDocument{%
72   \@ifundefined{NAT@parse}{%
73     \global\let\BRorg@Latincitex\@Latincitex
74     \global\let\@Latincitex\BR@Latincitex
75   }{%
76     \@ifpackageloaded{hyperref}{%
77       \def\hyper@natlinkstart#1{\Hy@backout{\#1}}%
78     }%
79     \PackageInfo{backref}{** backref set up for natbib **}%

```



```
80  }%
81 }%
```

7.11 bidituftesidenote-xepersian.def

```
82 \ProvidesFile{bidituftesidenote-xepersian.def}[2017/02/04 v0.3 xepersian changes to biditufte
83
84 \setLTRcitationfont{\resetlatinfont\footnotesize}
85
86 \renewcommand*{\@bidituftesidenote@LTRmarginfont}{\resetlatinfont\footnotesize}
87
88 \renewcommand*{\@bidituftesidenote@RTLmarginfont}{\setpersianfont\footnotesize}
89
90
```

7.12 bidimoderncv-xepersian.def

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

7.13 boek3-xepersian.def

```
93 \ProvidesFile{boek3-xepersian.def}[2010/07/25 v0.1 adaptations for boek3 class]
94 \renewcommand*\thepart{\@tartibi\c@part}
95 \renewcommand*\frontmatter{%
96   \cleardoublepage
97   \atmainmatterfalse
98   \pagenumbering{harfi}}
99 \renewcommand*\appendix{\par
100  \setcounter{chapter}{0}%
101  \setcounter{section}{0}%
102  \gdef\@chapapp{\appendixname}%
103  \gdef\thechapter{\@harfi\c@chapter}}
```

7.14 boek-xepersian.def

```
104 \ProvidesFile{boek-xepersian.def}[2010/07/25 v0.1 adaptations for boek class]
105 \renewcommand*\thepart{\@tartibi\c@part}
106 \renewcommand*\frontmatter{%
107   \cleardoublepage
108   \atmainmatterfalse
109   \pagenumbering{harfi}}
110 \renewcommand*\appendix{\par
111  \setcounter{chapter}{0}%
112  \setcounter{section}{0}%
113  \gdef\@chapapp{\appendixname}%
114  \gdef\thechapter{\@harfi\c@chapter}}
```

7.15 bookest-xepersian.def

```
115 \ProvidesFile{bookest-xepersian.def}[2010/07/25 v0.1 adaptations for bookest class]
116 \renewcommand \thepart {\@tartibi\c@part}
117 \renewcommand\appendix{\par
```



```

118 \setcounter{chapter}{0}%
119 \setcounter{section}{0}%
120 \gdef\@chapapp{\appendixname}%
121 \gdef\thechapter{\@arabic\c@chapter}%
122 }%end appendix

```

7.16 book-xepersian.def

```

123 \ProvidesFile{book-xepersian.def}[2010/07/25 v0.2 adaptations for standard book class]
124 \renewcommand\frontmatter{%
125   \cleardoublepage
126   \@mainmatterfalse
127   \pagenumbering{harfi}}
128 \renewcommand\thepart{\@arabic\c@part}
129 \renewcommand\appendix{\par
130   \setcounter{chapter}{0}%
131   \setcounter{section}{0}%
132   \gdef\@chapapp{\appendixname}%
133   \gdef\thechapter{\@arabic\c@chapter}%
134 }%end appendix

```

7.17 breqn-xepersian.def

```

135 \ProvidesFile{breqn-xepersian.def}[2010/07/25 v0.1 adaptations for breqn package]
136 \def@\dmath[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
137   \everydisplay\expandafter{\the\everydisplay \display@setup}%
138   \if@noskipsec \leavevmode \fi
139   \if@inlabel \leavevmode \global\@inlabelfalse \fi
140   \if\eq@group\else\eq@prelim\fi
141   \setkeys{breqn}{#1}%
142   \the\eqstyle
143   \eq@setnumber
144   \begingroup
145   \eq@setup@a
146   \eq@startup
147 }
148 \def@\dgroup[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
149   \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
150   \global\GRP@queue\emptytoks \global\setbox\GRP@box\box\voidb@x
151   \global\let\GRP@label\empty
152   \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
153   \global\grp@linewidth\z@\global\grp@wdNum\z@
154   \global\let\grp@eqs@numbered\@False
155   \global\let\grp@aligned\@True
156   \global\let\grp@shiftnumber\@False
157   \eq@prelim
158   \setkeys{breqn}{#1}%
159   \if\grp@hasNumber \grp@setnumber \fi
160 }
161 \def@\dseries[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
162   \let\display@setup\dseries@display@setup

```



```

163 % Question: should this be the default for dseries???
164 \global\eq@wdCond\z@
165 \@dmath[layout={M},#1]%
166 \mathsurround\z@\@@math \penalty\@Mi
167 \let\endmath\ends@math
168 \def\premath{%
169   \ifdim\lastskip<.3em \unskip
170   \else\ifnum\lastpenalty<\@M \dquad\fi\fi
171 }%
172 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
173 \ignorespaces
174 }

```

7.18 latex-localise-commands-xepersian.def

```

175 \ProvidesFile{latex-localise-commands-xepersian.def}[2014/02/05 v0.3 Persian localisation of L
176 \eqcommand{ }{@arstrut}
177 \eqcommand{ }{@above}
178 \eqcommand{ }{@abovedisplayshortskip}
179 \eqcommand{ }{@abovedisplayskip}
180 \eqcommand{ }{@abstractname}
181 \eqcommand{ }{@accent}
182 \eqcommand{ }{@active}
183 \eqcommand{ }{@addcontentsline}
184 \eqcommand{ }{@addpenalty}
185 \eqcommand{ }{@address}
186 \eqcommand{ }{@addtocontents}
187 \eqcommand{ }{@addtocounter}
188 \eqcommand{ }{@addtolength}
189 \eqcommand{ }{@addvspace}
190 \eqcommand{ }{@adjdemerits}
191 \eqcommand{ }{@advance}
192 \eqcommand{ }{@afterassignment}
193 \eqcommand{ }{@aftergroup}
194 \eqcommand{ }{@aleph}
195 \eqcommand{ }{@aliasfontfeature}
196 \eqcommand{ }{@aliasfontfeatureoption}
197 \eqcommand{ }{@allowbreak}
198 \eqcommand{ @}{@alloc@}
199 \eqcommand{ }{@allocationnumber}
200 \eqcommand{ }{@allowdisplaybreaks}
201 \eqcommand{ }{@Alph}
202 \eqcommand{ }{@alph}
203 \eqcommand{ }{@alsoname}
204 \eqcommand{ }{@and}
205 \eqcommand{ }{@angle}
206 \eqcommand{ }{@appendixname}
207 \eqcommand{ }{@approx}
208 \eqcommand{ }{@arabic}
209 \eqcommand{ }{@arg}

```



```

210 \eqcommand{ }{arrayrulecolor}
211 \eqcommand{ }{arraycolsep}
212 \eqcommand{ }{arrayrulewidth}
213 \eqcommand{ }{arraystretch}
214 \eqcommand{ }{AtBeginDocument}
215 \eqcommand{ }{AtEndDocument}
216 \eqcommand{ }{AtEndOfClass}
217 \eqcommand{ }{AtEndOfPackage}
218 \eqcommand{ }{author}
219 \eqcommand{ }{backmatter}
220 \eqcommand{ }{backslash}
221 \eqcommand{ }{badness}
222 \eqcommand{ }{bar}
223 \eqcommand{ }{baselineskip}
224 \eqcommand{ }{baselinestretch}
225 \eqcommand{ }{batchmode}
226 \eqcommand{ }{begin}
227 \eqcommand{ }{beginL}
228 \eqcommand{ }{beginR}
229 \eqcommand{ }{begingroup}
230 \eqcommand{ }{belowdisplayshortskip}
231 \eqcommand{ }{belowdisplayskip}
232 \eqcommand{ }{bf}
233 \eqcommand{ }{bfdefault}
234 \eqcommand{ }{bfseries}
235 \eqcommand{ }{bgroup}
236 \eqcommand{ }{bibitem}
237 \eqcommand{ }{bibliography}
238 \eqcommand{ }{bibliographystyle}
239 \eqcommand{ }{bibname}
240 \eqcommand{ }{bigskip}
241 \eqcommand{ }{bigskipamount}
242 \eqcommand{ }{botfigrule}
243 \eqcommand{ }{botmark}
244 \eqcommand{ }{bottompageskip}
245 \eqcommand{ }{bottomfraction}
246 \eqcommand{ }{box}
247 \eqcommand{ }{boxmaxdepth}
248 \eqcommand{ }{break}
249 \eqcommand{ }{bullet}
250 \eqcommand{ @ }{@cclv}
251 \eqcommand{ @ }{@cclvi}
252 \eqcommand{ }{caption}
253 \eqcommand{ }{catcode}
254 \eqcommand{ }{cc}
255 \eqcommand{ }{ccname}
256 \eqcommand{ }{cdot}
257 \eqcommand{ }{cdots}
258 \eqcommand{ }{centering}
259 \eqcommand{ }{centerline}

```



```

260 \eqcommand{ @ }{ch@ck}
261 \eqcommand{ }{chapter}
262 \eqcommand{ }{chaptername}
263 \eqcommand{ }{char}
264 \eqcommand{ }{chardef}
265 \eqcommand{ }{CheckCommand}
266 \eqcommand{ }{cite}
267 \eqcommand{ }{ClassError}
268 \eqcommand{ }{ClassInfo}
269 \eqcommand{ }{ClassWarning}
270 \eqcommand{ }{ClassWarningNoLine}
271 \eqcommand{ }{cleaders}
272 \eqcommand{ }{cleardoublepage}
273 \eqcommand{ }{clearpage}
274 \eqcommand{ }{cline}
275 \eqcommand{ }{closein}
276 \eqcommand{ }{closeout}
277 \eqcommand{ }{closing}
278 \eqcommand{ }{clubpenalty}
279 \eqcommand{ }{clubsuit}
280 \eqcommand{ }{colbotmark}
281 \eqcommand{ }{colfirstmark}
282 \eqcommand{ }{color}
283 \eqcommand{ }{colorbox}
284 \eqcommand{ }{coltopmark}
285 \eqcommand{ }{columncolor}
286 \eqcommand{ }{columnsep}
287 \eqcommand{ }{columnwidth}
288 \eqcommand{ }{columnseprule}
289 \eqcommand{ }{contentsline}
290 \eqcommand{ }{contentsname}
291 \eqcommand{ }{copy}
292 \eqcommand{ }{copyright}
293 \eqcommand{ }{count}
294 \eqcommand{ @}{count@}
295 \eqcommand{ }{countdef}
296 \eqcommand{ }{cr}
297 \eqcommand{ }{crcr}
298 \eqcommand{ }{csname}
299 \eqcommand{ }{CurrentOption}
300 \eqcommand{ }{dashbox}
301 \eqcommand{ }{dashv}
302 \eqcommand{@ }{@date}
303 \eqcommand{ }{date}
304 \eqcommand{ }{day}
305 \eqcommand{ }{dblbotfigrule}
306 \eqcommand{ }{dblbottomfraction}
307 \eqcommand{ }{dblfigrule}
308 \eqcommand{ }{dblfloatpagefraction}
309 \eqcommand{ }{dblfloatsep}

```



```

310 \eqcommand{      }{dblfnntlocatecode}
311 \eqcommand{      }{dbltextfloatsep}
312 \eqcommand{      }{dbltopfraction}
313 \eqcommand{      }{DeclareFixedFont}
314 \eqcommand{      }{DeclareGraphicsExtensions}
315 \eqcommand{      }{DeclareGraphicsRule}
316 \eqcommand{      }{DeclareOldFontCommand}
317 \eqcommand{      }{DeclareOption}
318 \eqcommand{      }{DeclareRobustCommand}
319 \eqcommand{      }{DeclareSymbolFont}
320 \eqcommand{      }{deadcycles}
321 \eqcommand{ }{def}
322 \eqcommand{ @ }{define@key}
323 \eqcommand{      }{definecolor}
324 \eqcommand{      }{deg}
325 \eqcommand{      }{delcode}
326 \eqcommand{      }{delimiter}
327 \eqcommand{      }{delimiterfactor}
328 \eqcommand{      }{depth}
329 \eqcommand{      }{diamondsuit}
330 \eqcommand{      }{dim}
331 \eqcommand{      }{dimen}
332 \eqcommand{ @ }{dimen@}
333 \eqcommand{ @ }{dimen@i}
334 \eqcommand{ @ }{dimen@ii}
335 \eqcommand{      }{dimendef}
336 \eqcommand{      }{discretionary}
337 \eqcommand{      }{displaybreak}
338 \eqcommand{      }{displayindent}
339 \eqcommand{      }{displaystyle}
340 \eqcommand{      }{displaywidth}
341 \eqcommand{      }{divide}
342 \eqcommand{      }{documentclass}
343 \eqcommand{ }{do}
344 \eqcommand{      }{dospecials}
345 \eqcommand{      }{dot}
346 \eqcommand{      }{doteq}
347 \eqcommand{      }{dotfill}
348 \eqcommand{      }{dots}
349 \eqcommand{      }{doublebox}
350 \eqcommand{      }{doublerulesepcolor}
351 \eqcommand{      }{doublerulesep}
352 \eqcommand{      }{downarrow}
353 \eqcommand{      }{dp}
354 \eqcommand{      }{dump}
355 \eqcommand{      }{edef}
356 \eqcommand{      }{egroup}
357 \eqcommand{      }{eject}
358 \eqcommand{      }{else}
359 \eqcommand{      }{em}

```



```

360 \eqcommand{ }{emergencystretch}
361 \eqcommand{ }{emph}
362 \eqcommand{@ }{@empty}
363 \eqcommand{ }{empty}
364 \eqcommand{ }{emptyset}
365 \eqcommand{ }{end}
366 \eqcommand{ }{endL}
367 \eqcommand{ }{endR}
368 \eqcommand{ }{endcsname}
369 \eqcommand{ }{endfirsthead}
370 \eqcommand{ }{endfoot}
371 \eqcommand{ }{endgraf}
372 \eqcommand{ }{endgroup}
373 \eqcommand{ }{endhead}
374 \eqcommand{ }{endinput}
375 \eqcommand{ }{endlastfoot}
376 \eqcommand{ }{enlargethispage}
377 \eqcommand{ }{endline}
378 \eqcommand{ }{endlinechar}
379 \eqcommand{ }{enspace}
380 \eqcommand{ }{enskip}
381 \eqcommand{ }{eqcommand}
382 \eqcommand{ }{eqenvironment}
383 \eqcommand{ }{eqref}
384 \eqcommand{ }{errhelp}
385 \eqcommand{ }{errmessage}
386 \eqcommand{ }{errorcontextlines}
387 \eqcommand{ }{errorstopmode}
388 \eqcommand{ }{escapechar}
389 \eqcommand{ }{euro}
390 \eqcommand{ }{evensidemargin}
391 \eqcommand{ }{everycr}
392 \eqcommand{ }{everydisplay}
393 \eqcommand{ }{everyhbox}
394 \eqcommand{ }{everyjob}
395 \eqcommand{ }{everymath}
396 \eqcommand{ }{everypar}
397 \eqcommand{ }{everyvbox}
398 \eqcommand{ }{ExecuteOptions}
399 \eqcommand{ }{exhyphenpenalty}
400 \eqcommand{ }{expandafter}
401 \eqcommand{ }{extracolsep}
402 \eqcommand{@ }{@firstofone}
403 \eqcommand{@ }{@firstoftwo}
404 \eqcommand{ @ }{fcur}
405 \eqcommand{ }{fam}
406 \eqcommand{ }{fancypage}
407 \eqcommand{ }{fbox}
408 \eqcommand{ }{fboxrule}
409 \eqcommand{ }{fboxsep}

```



```

410 \eqcommand{ }{fcolorbox}
411 \eqcommand{ }{fi}
412 \eqcommand{ }{figurename}
413 \eqcommand{ }{filbreak}
414 \eqcommand{ }{fill}
415 \eqcommand{ }{firstmark}
416 \eqcommand{ }{flat}
417 \eqcommand{ }{floatpagefraction}
418 \eqcommand{ }{floatingpenalty}
419 \eqcommand{ }{floatsep}
420 \eqcommand{ }{flushbottom}
421 \eqcommand{ }{fmtname}
422 \eqcommand{ }{fmtversion}
423 \eqcommand{ }{fnssymbol}
424 \eqcommand{ }{font}
425 \eqcommand{ }{fontdimen}
426 \eqcommand{ }{fontencoding}
427 \eqcommand{ }{fontfamily}
428 \eqcommand{ }{fontname}
429 \eqcommand{ }{fontseries}
430 \eqcommand{ }{fontshape}
431 \eqcommand{ }{fontsize}
432 \eqcommand{ }{footheight}
433 \eqcommand{ }{footins}
434 \eqcommand{ }{footnote}
435 \eqcommand{ }{footnotemark}
436 \eqcommand{ }{footnoterule}
437 \eqcommand{ }{footnotesep}
438 \eqcommand{ }{footnotesize}
439 \eqcommand{ }{footnotetext}
440 \eqcommand{ }{footskip}
441 \eqcommand{ }{frame}
442 \eqcommand{ }{framebox}
443 \eqcommand{ }{frenchspacing}
444 \eqcommand{ }{frontmatter}
445 \eqcommand{ }{futurelet}
446 \eqcommand{@ }{@gobble}
447 \eqcommand{@ }{@gobbletwo}
448 \eqcommand{@ }{@gobblefour}
449 \eqcommand{@ }{@gtmpa}
450 \eqcommand{@ }{@gtmpb}
451 \eqcommand{ }{gdef}
452 \eqcommand{ }{GenericInfo}
453 \eqcommand{ }{GenericWarning}
454 \eqcommand{ }{GenericError}
455 \eqcommand{ }{global}
456 \eqcommand{ }{globaldefs}
457 \eqcommand{ }{glossary}
458 \eqcommand{ }{glossaryentry}
459 \eqcommand{ }{goodbreak}

```



```

460 \eqcommand{ }{graphpaper}
461 \eqcommand{ }{guillemotleft}
462 \eqcommand{ }{guillemotright}
463 \eqcommand{ }{guilsinglleft}
464 \eqcommand{ }{guilsinglright}
465 \eqcommand{ }{halign}
466 \eqcommand{ }{hang}
467 \eqcommand{ }{hangafter}
468 \eqcommand{ }{hangindent}
469 \eqcommand{ }{hbadness}
470 \eqcommand{ }{hbox}
471 \eqcommand{ }{headheight}
472 \eqcommand{ }{headsep}
473 \eqcommand{ }{headtoname}
474 \eqcommand{ }{heartsuit}
475 \eqcommand{ }{height}
476 \eqcommand{ }{hfil}
477 \eqcommand{ }{hfill}
478 \eqcommand{ }{hfilneg}
479 \eqcommand{ }{hfuzz}
480 \eqcommand{ }{hideskip}
481 \eqcommand{ }{hidewidth}
482 \bidi@csletcs{ }{hline}% this is an exception
483 \eqcommand{ }{hoffset}
484 \eqcommand{ }{holdinginserts}
485 \eqcommand{ }{hrboxsep}
486 \eqcommand{ }{hrule}
487 \eqcommand{ }{hrulefill}
488 \eqcommand{ }{hsize}
489 \eqcommand{ }{hskip}
490 \eqcommand{ }{hspace}
491 \eqcommand{ }{hss}
492 \eqcommand{ }{ht}
493 \eqcommand{ }{huge}
494 \eqcommand{ }{Huge}
495 \eqcommand{ }{hyperlink}
496 \eqcommand{ }{hypersetup}
497 \eqcommand{ }{hypertarget}
498 \eqcommand{ }{hyphenation}
499 \eqcommand{ }{hyphenchar}
500 \eqcommand{ }{hyphenpenalty}
501 \eqcommand{@ }{@ifclassloaded}
502 \eqcommand{@ }{@ifdefinable}
503 \eqcommand{@ }{@ifnextchar}
504 \eqcommand{@ }{@ifpackageloaded}
505 \eqcommand{@ }{@ifstar}
506 \eqcommand{@ }{@ifundefined}
507 \eqcommand{ }{if}
508 \eqcommand{ @ }{@if@tempswa}
509 \eqcommand{ }{ifcase}

```



```

510 \eqcommand{ }{ifcat}
511 \eqcommand{ }{ifdefined}
512 \eqcommand{ }{ifdim}
513 \eqcommand{ }{ifeof}
514 \eqcommand{ }{iff}
515 \eqcommand{ }{iffalse}
516 \eqcommand{ }{IfFileExists}
517 \eqcommand{ }{ifhbox}
518 \eqcommand{ }{ifhmode}
519 \eqcommand{ }{ifinner}
520 \eqcommand{ }{ifmmode}
521 \eqcommand{ }{ifnum}
522 \eqcommand{ }{ifodd}
523 \eqcommand{ }{ifthenelse}
524 \eqcommand{ }{iftrue}
525 \eqcommand{ }{ifvbox}
526 \eqcommand{ }{ifvmode}
527 \eqcommand{ }{ifvoid}
528 \eqcommand{ }{ifx}
529 \eqcommand{ }{ignorespaces}
530 \eqcommand{ }{immediate}
531 \eqcommand{ }{include}
532 \eqcommand{ }{includegraphics}
533 \eqcommand{ }{includeonly}
534 \eqcommand{ }{indent}
535 \eqcommand{ }{index}
536 \eqcommand{ }{indexentry}
537 \eqcommand{ }{indexname}
538 \eqcommand{ }{indexspace}
539 \eqcommand{ }{input}
540 \eqcommand{ }{InputIfExists}
541 \eqcommand{ }{inputlineno}
542 \eqcommand{ }{insert}
543 \eqcommand{ }{insertpenalties}
544 \eqcommand{ }{interfootnotelinepenalty}
545 \eqcommand{ }{interdisplaylinepenalty}
546 \eqcommand{ }{interlinepenalty}
547 \eqcommand{ }{intertext}
548 \eqcommand{ }{intertextsep}
549 \eqcommand{ }{invisible}
550 \eqcommand{ }{itdefault}
551 \eqcommand{ }{itshape}
552 \eqcommand{ }{item}
553 \eqcommand{ }{itemindent}
554 \eqcommand{ }{itemsep}
555 \eqcommand{ }{iterate}
556 \eqcommand{ }{itshape}
557 \eqcommand{ }{jobname}
558 \eqcommand{ }{jot}
559 \eqcommand{ }{kern}

```



```

560 \eqcommand{ }{kill}
561 \eqcommand{ }{label}
562 \eqcommand{ }{labelenumi}
563 \eqcommand{ }{labelenumii}
564 \eqcommand{ }{labelenumiii}
565 \eqcommand{ }{labelenumiv}
566 \eqcommand{ }{labelitemi}
567 \eqcommand{ }{labelitemii}
568 \eqcommand{ }{labelitemiii}
569 \eqcommand{ }{labelitemiv}
570 \eqcommand{ }{labelsep}
571 \eqcommand{ }{labelwidth}
572 \eqcommand{ }{language}
573 \eqcommand{ }{large}
574 \eqcommand{ }{Large}
575 \eqcommand{ }{LARGE}
576 \eqcommand{ }{lastbox}
577 \eqcommand{ }{lastkern}
578 \eqcommand{ }{lastpenalty}
579 \eqcommand{ }{lastskip}
580 \eqcommand{ }{LaTeX}
581 \eqcommand{ }{LaTeXe}
582 \eqcommand{ }{lccode}
583 \eqcommand{ }{ldots}
584 \eqcommand{ }{leaders}
585 \eqcommand{ }{leavevmode}
586 \eqcommand{ }{left}
587 \eqcommand{ }{leftmargin}
588 \eqcommand{ }{leftmargini}
589 \eqcommand{ }{leftmarginii}
590 \eqcommand{ }{leftmarginiii}
591 \eqcommand{ }{leftmarginiv}
592 \eqcommand{ }{leftmarginv}
593 \eqcommand{ }{leftmarginvi}
594 \eqcommand{ }{leftmark}
595 \eqcommand{ }{leftpageskip}
596 \eqcommand{ }{leftskip}
597 \eqcommand{ }{let}
598 \eqcommand{ }{line}
599 \eqcommand{ }{linebreak}
600 \eqcommand{ }{linepenalty}
601 \eqcommand{ }{lineskip}
602 \eqcommand{ }{lineskiplimit}
603 \eqcommand{ }{linespread}
604 \eqcommand{ }{linethickness}
605 \eqcommand{ }{linewidth}
606 \eqcommand{ }{listfigurename}
607 \eqcommand{ }{listfiles}
608 \eqcommand{ }{listoffigures}
609 \eqcommand{ }{listoftables}

```



```

610 \eqcommand{      }{listparindent}
611 \eqcommand{      }{listtablename}
612 \eqcommand{      }{LoadClass}
613 \eqcommand{      }{LoadClassWithOptions}
614 \eqcommand{  }{location}
615 \eqcommand{  }{long}
616 \eqcommand{      }{looseness}
617 \eqcommand{      }{lower}
618 \eqcommand{@ }{@makeother}
619 \eqcommand{@ }{@m}
620 \eqcommand{ @ }{@M}
621 \eqcommand{ @ }{@Mi}
622 \eqcommand{ @ }{@Mii}
623 \eqcommand{ @ }{@Miii}
624 \eqcommand{ @ }{@Miv}
625 \eqcommand{ @ }{@MM}
626 \eqcommand{ @ }{@one}
627 \eqcommand{      }{mag}
628 \eqcommand{      }{magstep}
629 \eqcommand{      }{magstephalf}
630 \eqcommand{      }{mainmatter}
631 \eqcommand{      }{makeatletter}
632 \eqcommand{      }{makeatother}
633 \eqcommand{      }{makebox}
634 \eqcommand{      }{makeglossary}
635 \eqcommand{      }{makeindex}
636 \eqcommand{      }{makelabel}
637 \eqcommand{      }{makelabels}
638 \eqcommand{      }{MakeLowercase}
639 \eqcommand{      }{maketitle}
640 \eqcommand{      }{MakeUppercase}
641 \eqcommand{      }{marginpar}
642 \eqcommand{      }{marginparpush}
643 \eqcommand{      }{marginparsep}
644 \eqcommand{      }{marginparwidth}
645 \eqcommand{      }{mark}
646 \eqcommand{      }{markboth}
647 \eqcommand{      }{markright}
648 \eqcommand{      }{mathaccent}
649 \eqcommand{      }{mathchar}
650 \eqcommand{      }{mathchardef}
651 \eqcommand{      }{mathcode}
652 \eqcommand{      }{mathrm}
653 \eqcommand{      }{maxdeadcycles}
654 \eqcommand{      }{maxdepth}
655 \eqcommand{      }{maxdimen}
656 \eqcommand{      }{mbox}
657 \eqcommand{      }{mdseries}
658 \eqcommand{      }{meaning}
659 \eqcommand{      }{mediumseries}

```



```

660 \eqcommand{ }{\medmuskip}
661 \eqcommand{ }{\medskip}
662 \eqcommand{ }{\medskipamount}
663 \eqcommand{ }{\medspace}
664 \eqcommand{ }{\message}
665 \eqcommand{ }{\MessageBreak}
666 \eqcommand{ }{\minrowclearance}
667 \eqcommand{ }{\mkern}
668 \eqcommand{ }{\month}
669 \eqcommand{ }{\moveleft}
670 \eqcommand{ }{\moveright}
671 \eqcommand{ }{\mskip}
672 \eqcommand{ @ }{\m@th}
673 \eqcommand{ }{\multicolumn}
674 \eqcommand{ }{\multiply}
675 \eqcommand{ }{\multispan}
676 \eqcommand{ }{\muskip}
677 \eqcommand{ }{\muskipdef}
678 \eqcommand{@ }{\cnamedef}
679 \eqcommand{@ }{\cnameuse}
680 \eqcommand{ @}{\cne}
681 \eqcommand{ }{\name}
682 \eqcommand{ }{\natural}
683 \eqcommand{ }{\nearrow}
684 \eqcommand{ }{\nearrower}
685 \eqcommand{ }{\NeedsTeXFormat}
686 \eqcommand{ }{\neg}
687 \eqcommand{ }{\negmedspace}
688 \eqcommand{ }{\negthickspace}
689 \eqcommand{ }{\negthinspace}
690 \eqcommand{ }{\newboolean}
691 \eqcommand{ }{\newbox}
692 \eqcommand{ }{\newcommand}
693 \eqcommand{ }{\newcount}
694 \eqcommand{ }{\newcounter}
695 \eqcommand{ }{\newdimen}
696 \eqcommand{ }{\newenvironment}
697 \eqcommand{ }{\newfam}
698 \eqcommand{ }{\newfont}
699 \eqcommand{ }{\newhelp}
700 \eqcommand{ }{\newinsert}
701 \eqcommand{ }{\newlabel}
702 \eqcommand{ }{\newlength}
703 \eqcommand{ }{\newline}
704 \eqcommand{ }{\newlinechar}
705 \eqcommand{ }{\newmuskip}
706 \eqcommand{ }{\newpage}
707 \eqcommand{ }{\newread}
708 \eqcommand{ }{\newsavebox}
709 \eqcommand{ }{\newskip}

```



```

710 \eqcommand{ }{newtheorem}
711 \eqcommand{ }{newtoks}
712 \eqcommand{ }{newwrite}
713 \eqcommand{ }{noalign}
714 \eqcommand{ }{nobreak}
715 \eqcommand{ }{nobreakspace}
716 \eqcommand{ }{nocite}
717 \eqcommand{ }{noexpand}
718 \eqcommand{ }{nofiles}
719 \eqcommand{ }{noindent}
720 \eqcommand{ }{nointerlineskip}
721 \eqcommand{ }{nolimits}
722 \eqcommand{ }{nolinebreak}
723 \eqcommand{ }{nonstopmode}
724 \eqcommand{ }{nonfrenchspacing}
725 \eqcommand{ }{nonumber}
726 \eqcommand{ }{nopagebreak}
727 \eqcommand{ }{normalbaselines}
728 \eqcommand{ }{normalbaselineskip}
729 \eqcommand{ }{normalcolor}
730 \eqcommand{ }{normalfont}
731 \eqcommand{ }{normallineskip}
732 \eqcommand{ }{normallineskiplimit}
733 \eqcommand{ }{normalmarginpar}
734 \eqcommand{ }{normalsize}
735 \eqcommand{ }{notag}
736 \eqcommand{ }{null}
737 \eqcommand{ }{nullfont}
738 \eqcommand{ }{number}
739 \eqcommand{ }{numberline}
740 \eqcommand{ }{numberwithin}
741 \eqcommand{ }{@evenfoot}
742 \eqcommand{ }{@evenhead}
743 \eqcommand{ }{@oddfoot}
744 \eqcommand{ }{@oddhead}
745 \eqcommand{ }{@outeqntrue}
746 \eqcommand{ }{@outeqnfase}
747 \eqcommand{ }{obeylines}
748 \eqcommand{ }{obeyspaces}
749 \eqcommand{ }{oddsidemargin}
750 \eqcommand{ }{offinterlineskip}
751 \eqcommand{ }{omit}
752 \eqcommand{@ }{@onlypreamble}
753 \eqcommand{ }{onecolumn}
754 \eqcommand{ }{onlynotes}
755 \eqcommand{ }{onlyslides}
756 \eqcommand{ }{openin}
757 \eqcommand{ }{openout}
758 \eqcommand{ }{OptionNotUsed}
759 \eqcommand{ }{or}

```



```

760 \eqcommand{ }{outer}
761 \eqcommand{ }{output}
762 \eqcommand{ }{outputpenalty}
763 \eqcommand{ }{overfullrule}
764 \eqcommand{@ }{@preamblecmds}
765 \eqcommand{@ }{@p@}
766 \eqcommand{ }{PackageError}
767 \eqcommand{ }{PackageInfo}
768 \eqcommand{ }{PackageWarning}
769 \eqcommand{ }{PackageWarningNoLine}
770 \eqcommand{ }{pagebreak}
771 \eqcommand{ }{pagecolor}
772 \eqcommand{ }{pagedepth}
773 \eqcommand{ }{pagefillstretch}
774 \eqcommand{ }{pagefillstretch}
775 \eqcommand{ }{pagefilstretch}
776 \eqcommand{ }{pagegoal}
777 \eqcommand{ }{pagename}
778 \eqcommand{ }{pagenumbering}
779 \eqcommand{ }{pageref}
780 \eqcommand{ }{pagerulewidth}
781 \eqcommand{ }{pageshrink}
782 \eqcommand{ }{pagestretch}
783 \eqcommand{ }{pagestyle}
784 \eqcommand{ }{pagetotal}
785 \eqcommand{ }{paperheight}
786 \eqcommand{ }{paperwidth}
787 \bidi@csdefcs{ }{par}% this is an exception since \par is redefined only in some circumstances
788 \eqcommand{ }{paragraph}
789 \eqcommand{ }{parallel}
790 \eqcommand{ }{parbox}
791 \eqcommand{ }{parfillskip}
792 \eqcommand{ }{parindent}
793 \eqcommand{ }{parsep}
794 \eqcommand{ }{parshape}
795 \eqcommand{ }{parskip}
796 \eqcommand{ }{part}
797 \eqcommand{ }{partname}
798 \eqcommand{ }{partopsep}
799 \eqcommand{ }{PassOptionToClass}
800 \eqcommand{ }{PassOptionToPackage}
801 \eqcommand{ }{path}
802 \eqcommand{ }{patterns}
803 \eqcommand{ }{pausing}
804 \eqcommand{ }{penalty}
805 \eqcommand{ }{phantom}
806 \eqcommand{ }{poptabs}
807 \eqcommand{ }{postdisplaypenalty}
808 \eqcommand{ }{predisplaydirection}
809 \eqcommand{ }{predisplaypenalty}

```



```

810 \eqcommand{ }{predisplaysize}
811 \eqcommand{ }{pretolerance}
812 \eqcommand{ }{prevdepth}
813 \eqcommand{ }{prevgraf}
814 \eqcommand{ }{printindex}
815 \eqcommand{ }{ProcessOptions}
816 \eqcommand{ }{protect}
817 \eqcommand{ }{providecommand}
818 \eqcommand{ }{ProvidesClass}
819 \eqcommand{ }{ProvidesFile}
820 \eqcommand{ }{ProvidesPackage}
821 \eqcommand{ }{pushtabs}
822 \eqcommand{ }{quad}
823 \eqcommand{ }{qqquad}
824 \eqcommand{@ }{@outputpagerestore}
825 \eqcommand{ }{radical}
826 \eqcommand{ }{raggedbottom}
827 \eqcommand{ }{raggedleft}
828 \eqcommand{ }{raggedright}
829 \eqcommand{ }{raise}
830 \eqcommand{ }{raisebox}
831 \eqcommand{ }{raisetag}
832 \eqcommand{ }{rangle}
833 \eqcommand{ }{rceil}
834 \eqcommand{ }{read}
835 \eqcommand{ }{ref}
836 \eqcommand{ }{reflectbox}
837 \eqcommand{ }{refname}
838 \eqcommand{ }{refstepcounter}
839 \eqcommand{ }{relax}
840 \eqcommand{ }{removelastskip}
841 \eqcommand{ }{renewcommand}
842 \eqcommand{ }{renewenvironment}
843 \eqcommand{ }{RequirePackage}
844 \eqcommand{ }{RequirePackageWithOptions}
845 \eqcommand{ }{resizetbox}
846 \eqcommand{ }{reversemarginpar}
847 \eqcommand{ }{rfloor}
848 \eqcommand{ }{right}
849 \eqcommand{ }{rightmargin}
850 \eqcommand{ }{rightmark}
851 \eqcommand{ }{rightpageskip}
852 \eqcommand{ }{rightskip}
853 \eqcommand{ }{rmdefault}
854 \eqcommand{ }{rmfamily}
855 \eqcommand{ }{Roman}
856 \eqcommand{ }{roman}
857 \eqcommand{ }{romannumeral}
858 \eqcommand{ }{rotatebox}
859 \eqcommand{ }{rowcolor}

```



```

860 \eqcommand{ }{rule}
861 \eqcommand{@ }{@secondoftwo}
862 \eqcommand{@ }{@spaces}
863 \eqcommand{ }{samepage}
864 \eqcommand{ }{savebox}
865 \eqcommand{ }{sbox}
866 \eqcommand{ }{scalebox}
867 \eqcommand{ }{scdefault}
868 \eqcommand{ }{scshape}
869 \eqcommand{ }{setkeys}
870 \eqcommand{ }{scriptfont}
871 \eqcommand{ }{scriptschriftfont}
872 \eqcommand{ }{scriptschriftstyle}
873 \eqcommand{ }{scriptsize}
874 \eqcommand{ }{scripstyle}
875 \eqcommand{ }{scrollmode}
876 \eqcommand{ }{section}
877 \eqcommand{ }{secdef}
878 \eqcommand{ }{see}
879 \eqcommand{ }{seealso}
880 \eqcommand{ }{seename}
881 \eqcommand{ }{selectfont}
882 \eqcommand{ }{setboolean}
883 \eqcommand{ }{setbox}
884 \eqcommand{ }{setcounter}
885 \eqcommand{ }{setlength}
886 \eqcommand{ }{setminus}
887 \eqcommand{ }{SetSymbolFont}
888 \eqcommand{ }{settodepth}
889 \eqcommand{ }{settoheight}
890 \eqcommand{ }{settowidth}
891 \eqcommand{ }{sfcode}
892 \eqcommand{ }{sfdefault}
893 \eqcommand{ }{sffamily}
894 \eqcommand{ }{shadowbox}
895 \eqcommand{ }{sharp}
896 \eqcommand{ }{shipout}
897 \eqcommand{ }{shortstack}
898 \eqcommand{ }{show}
899 \eqcommand{ }{showbox}
900 \eqcommand{ }{showboxbreadth}
901 \eqcommand{ }{showboxdepth}
902 \eqcommand{ }{showlists}
903 \eqcommand{ }{showthe}
904 \eqcommand{ }{simplefontmode}
905 \eqcommand{@}{sixt@On}
906 \eqcommand{ }{skewchar}
907 \eqcommand{ }{skip}
908 \eqcommand{@}{skip@}
909 \eqcommand{ }{skipdef}

```



```

910 \eqcommand{ }{s1}
911 \eqcommand{ }{s1default}
912 \eqcommand{ }{s1shape}
913 \eqcommand{ }{sloppy}
914 \eqcommand{ }{s1shape}
915 \eqcommand{ }{small}
916 \eqcommand{ }{smallskip}
917 \eqcommand{ }{smallskipamount}
918 \eqcommand{ }{smash}
919 \eqcommand{ }{smile}
920 \eqcommand{ }{snglfntlocatecode}
921 \eqcommand{ }{space}
922 \eqcommand{ }{spacefactor}
923 \eqcommand{ }{spaceskip}
924 \eqcommand{ }{spadesuit}
925 \eqcommand{ }{span}
926 \eqcommand{ }{special}
927 \eqcommand{ }{splitmaxdepth}
928 \eqcommand{ }{splittopskip}
929 \eqcommand{ }{star}
930 \eqcommand{ }{stepcounter}
931 \eqcommand{ }{stretch}
932 \eqcommand{ }{string}
933 \eqcommand{ }{strut}
934 \eqcommand{ }{strutbox}
935 \eqcommand{ }{subitem}
936 \eqcommand{ }{subparagraph}
937 \eqcommand{ }{subsection}
938 \eqcommand{ }{substack}
939 \eqcommand{ }{subsubitem}
940 \eqcommand{ }{subsubsection}
941 \eqcommand{ }{subset}
942 \eqcommand{ }{subsepeq}
943 \eqcommand{ }{supereject}
944 \eqcommand{ }{suppressfloats}
945 \eqcommand{@ }{@tempa}
946 \eqcommand{@ }{@tempb}
947 \eqcommand{@ }{@tempc}
948 \eqcommand{@ }{@tempd}
949 \eqcommand{@ }{@tempe}
950 \eqcommand{@ }{@tempboxa}
951 \eqcommand{@ }{@tempcpta}
952 \eqcommand{@ }{@tempcntb}
953 \eqcommand{@ }{@tempdimA}
954 \eqcommand{@ }{@tempdimB}
955 \eqcommand{@ }{@tempdimC}
956 \eqcommand{@ }{@tempskipa}
957 \eqcommand{@ }{@tempskipb}
958 \eqcommand{@ }{@tempswafalse}
959 \eqcommand{@ }{@tempswatrue}

```



```

960 \eqcommand{ @temptokena}
961 \eqcommand{ @thefnmark}
962 \eqcommand{ @thirdofthree}
963 \eqcommand{ tabbingsep}
964 \eqcommand{ tabcolsep}
965 \eqcommand{ tableofcontents}
966 \eqcommand{ tablename}
967 \eqcommand{ tabskip}
968 \eqcommand{ tabularnewline}
969 \eqcommand{ tag}
970 \eqcommand{ telephone}
971 \eqcommand{ TeX}
972 \eqcommand{ text}
973 \eqcommand{ textbullet}
974 \eqcommand{ textfont}
975 \eqcommand{ textemdash}
976 \eqcommand{ textendash}
977 \eqcommand{ textexclamdown}
978 \eqcommand{ textperiodcentered}
979 \eqcommand{ textquestiondown}
980 \eqcommand{ textquotedblleft}
981 \eqcommand{ textquotedblright}
982 \eqcommand{ textquotyleft}
983 \eqcommand{ textquoteright}
984 \eqcommand{ textvisiblespace}
985 \eqcommand{ textbackslash}
986 \eqcommand{ textbar}
987 \eqcommand{ textgreater}
988 \eqcommand{ textless}
989 \eqcommand{ textbf}
990 \eqcommand{ textcircled}
991 \eqcommand{ textcolor}
992 \eqcommand{ textcompwordmark}
993 \eqcommand{ textfloatsep}
994 \eqcommand{ textfraction}
995 \eqcommand{ textheight}
996 \eqcommand{ textindent}
997 \eqcommand{ textit}
998 \eqcommand{ textmd}
999 \eqcommand{ textnormal}
1000 \eqcommand{ textregistered}
1001 \eqcommand{ textrm}
1002 \eqcommand{ textsc}
1003 \eqcommand{ textsf}
1004 \eqcommand{ textsl}
1005 \eqcommand{ textstyle}
1006 \eqcommand{ textsuperscript}
1007 \eqcommand{ texttrademark}
1008 \eqcommand{ texttt}
1009 \eqcommand{ textup}

```



```

1010 \eqcommand{ }{textwidth}
1011 \eqcommand{ }{thanks}
1012 \eqcommand{ }{the}
1013 \eqcommand{ }{thempfn}
1014 \eqcommand{ }{thicklines}
1015 \eqcommand{ }{thickmuskip}
1016 \eqcommand{ }{thinmuskip}
1017 \eqcommand{ }{thickspace}
1018 \eqcommand{ }{thinlines}
1019 \eqcommand{ }{thinspace}
1020 \eqcommand{ }{thisfancypage}
1021 \eqcommand{ }{thispagestyle}
1022 \eqcommand{ @}{thr@@}
1023 \eqcommand{ }{tilde}
1024 \eqcommand{ }{tiny}
1025 \eqcommand{ }{time}
1026 \eqcommand{ }{times}
1027 \eqcommand{ }{title}
1028 \eqcommand{ }{to}
1029 \eqcommand{ }{today}
1030 \eqcommand{ }{toks}
1031 \eqcommand{ }{toksdef}
1032 \eqcommand{ }{tolerance}
1033 \eqcommand{ }{top}
1034 \eqcommand{ }{topfigrule}
1035 \eqcommand{ }{topfraction}
1036 \eqcommand{ }{topmargin}
1037 \eqcommand{ }{topmark}
1038 \eqcommand{ }{toppageskip}
1039 \eqcommand{ }{topsep}
1040 \eqcommand{ }{topskip}
1041 \eqcommand{ }{totalheight}
1042 \eqcommand{ }{tracingall}
1043 \eqcommand{ }{tracingcommands}
1044 \eqcommand{ }{tracinglostchars}
1045 \eqcommand{ }{tracingmacros}
1046 \eqcommand{ }{tracingonline}
1047 \eqcommand{ }{tracingoutput}
1048 \eqcommand{ }{tracingpages}
1049 \eqcommand{ }{tracingparagraphs}
1050 \eqcommand{ }{tracingrestores}
1051 \eqcommand{ }{tracingstats}
1052 \eqcommand{ }{triangle}
1053 \eqcommand{ }{ttdefault}
1054 \eqcommand{ }{ttfamily}
1055 \eqcommand{ @}{tw@}
1056 \eqcommand{ }{twocolumn}
1057 \eqcommand{ }{typein}
1058 \eqcommand{ }{typeout}
1059 \eqcommand{ }{uccode}

```



```

1060 \eqcommand{ }{uchyph}
1061 \eqcommand{ }{underline}
1062 \eqcommand{ }{unhbox}
1063 \eqcommand{ }{unhcopy}
1064 \eqcommand{ }{unitlength}
1065 \eqcommand{ }{unkern}
1066 \eqcommand{ }{unpenalty}
1067 \eqcommand{ }{unskip}
1068 \eqcommand{ }{unvbox}
1069 \eqcommand{ }{unvcopy}
1070 \eqcommand{ }{updefault}
1071 \eqcommand{ }{upshape}
1072 \eqcommand{ }{usebox}
1073 \eqcommand{ }{usecounter}
1074 \eqcommand{ }{usefont}
1075 \eqcommand{ }{usepackage}
1076 \eqcommand{@ }{@vobeyspaces}
1077 \eqcommand{@ }{@void}
1078 \eqcommand{ }{vadjust}
1079 \eqcommand{ }{valign}
1080 \eqcommand{ }{value}
1081 \eqcommand{ }{vbadness}
1082 \eqcommand{ }{vbox}
1083 \eqcommand{ }{vcenter}
1084 \eqcommand{ }{verb}
1085 \eqcommand{ }{vfil}
1086 \eqcommand{ }{vfill}
1087 \eqcommand{ }{vfilneg}
1088 \eqcommand{ }{vfuzz}
1089 \eqcommand{ }{visible}
1090 \eqcommand{ }{vline}
1091 \eqcommand{ }{voffset}
1092 \eqcommand{ @ }{@voidb@x}
1093 \eqcommand{ }{vpageref}
1094 \eqcommand{ }{vrboxsep}
1095 \eqcommand{ }{vref}
1096 \eqcommand{ }{vrule}
1097 \eqcommand{ }{vsize}
1098 \eqcommand{ }{vskip}
1099 \eqcommand{ }{vspace}
1100 \eqcommand{ }{vsplit}
1101 \eqcommand{ }{vss}
1102 \eqcommand{ }{vtop}
1103 \eqcommand{ }{wd}
1104 \eqcommand{ }{whiledo}
1105 \eqcommand{ }{widehat}
1106 \eqcommand{ }{widetilde}
1107 \eqcommand{ }{widowpenalty}
1108 \eqcommand{ }{width}
1109 \eqcommand{ }{wlog}

```



```

1110 \eqcommand{ }{write}
1111 \eqcommand{@ }{@xobeysp}
1112 \eqcommand{ @ }{@xxxii}
1113 \eqcommand{ }{xdef}
1114 \eqcommand{ }{xleaders}
1115 \eqcommand{ }{xspaceskip}
1116 \eqcommand{ }{year}
1117 \eqcommand{@ }{z@}
1118 \eqcommand{@ }{z@skip}

```

7.19 color-localise-xepersian.def

```

1119 color}      \-localise-xepersian.def}[2011/03/01 v0.1 localising color package]
1120 0}{rgb}{ }  \0,,0}
1121 1}{rgb}{ }  \1,,1}
1122 1}{rgb}{ }  \0,,0}
1123 0}{rgb}{ }  \1,,0}
1124 0}{rgb}{ }  \0,,1}
1125 1}{cmyk}{ } \0,,0,0}
1126 0}{cmyk}{ } \1,,0,0}
1127 0}{cmyk}{ } \0,,1,0}

```

7.20 xepersian-localise-commands-xepersian.def

```

1128 \ProvidesFile{xepersian-localise-commands-xepersian.def}[2012/07/25 v0.2 Persian localisation
1129 \eqcommand{ }{autofootnoterule}
1130 \eqcommand{ }{AutoMathsDigits}
1131 \eqcommand{ }{DefaultMathsDigits}
1132 \eqcommand{ @ }{keyval@eq@alias@key}
1133 \eqcommand{ }{deflatinfont}
1134 \eqcommand{ }{defpersianfont}
1135 \eqcommand{ }{hboxL}
1136 \eqcommand{ }{hboxR}
1137 \eqcommand{ }{Latincite}
1138 \eqcommand{ }{latinfont}
1139 \eqcommand{ }{latintoday}
1140 \eqcommand{ }{leftfootnoterule}
1141 \eqcommand{ }{lr}
1142 \eqcommand{ }{LRE}
1143 \eqcommand{ }{LTRdblcol}
1144 \eqcommand{ }{LTRfootnote}
1145 \eqcommand{ }{LTRfootnotetext}
1146 \eqcommand{ }{LTRthanks}
1147 \eqcommand{ }{persianday}
1148 \eqcommand{ }{persianfont}
1149 \eqcommand{ }{PersianMathsDigits}
1150 \eqcommand{ }{persianmonth}
1151 \eqcommand{ }{persianyear}
1152 \eqcommand{ }{plq}
1153 \eqcommand{ }{prq}
1154 \eqcommand{ }{rightfootnoterule}

```



```

1155 \eqcommand{ }{rl}
1156 \eqcommand{ }{RLE}
1157 \eqcommand{ }{RTLdblcol}
1158 \eqcommand{ }{RTLfootnote}
1159 \eqcommand{ }{RTLfootnotetext}
1160 \eqcommand{ }{RTLthanks}
1161 \eqcommand{@ }{@SepMark}
1162 \eqcommand{ }{SepMark}
1163 \eqcommand{ }{setdefaultbibitems}
1164 \eqcommand{ }{setdefaultmarginpar}
1165 \eqcommand{ }{setdigitfont}
1166 \eqcommand{ }{setfootnoteLR}
1167 \eqcommand{ }{setfootnoteRL}
1168 \eqcommand{ }{setlatintextfont}
1169 \eqcommand{ }{setLTR}
1170 \eqcommand{ }{setLTRbibitems}
1171 \eqcommand{ }{setLTRmarginpar}
1172 \eqcommand{ }{setRTL}
1173 \eqcommand{ }{setRTLbibitems}
1174 \eqcommand{ }{setRTLmarginpar}
1175 \eqcommand{ }{settextfont}
1176 \eqcommand{ }{textwidthfootnoterule}
1177 \eqcommand{ }{twocolumnstableofcontents}
1178 \eqcommand{ }{unsetfootnoteRL}
1179 \eqcommand{ }{unsetLTR}
1180 \eqcommand{ }{unsetRTL}
1181 \eqcommand{ }{vboxL}
1182 \eqcommand{ }{vboxR}
1183 \eqcommand{ }{XeTeX}
1184 \eqcommand{ }{XePersian}
1185 \eqcommand{ }{xepersianversion}
1186 \eqcommand{ }{xepersiandate}
1187 \eqcommand{ }{XeTeX}

```

7.21 enumerate-xepersian.def

```

1188 \ProvidesFile{enumerate-xepersian.def}[2010/07/25 v0.1 adaptations for enumerate package]
1189 \def\@enloop@{%
1190   \ifx \entemp@\      \def\@tempa{\@enLabel\harfi } \else
1191   \ifx \entemp@\      \def\@tempa{\@enLabel\adadi } \else
1192   \ifx \entemp@\      \def\@tempa{\@enLabel\tartibi } \else
1193   \ifx A\@entemp     \def\@tempa{\@enLabel\Alph } \else
1194   \ifx a\@entemp     \def\@tempa{\@enLabel\alph } \else
1195   \ifx i\@entemp     \def\@tempa{\@enLabel\roman } \else
1196   \ifx I\@entemp     \def\@tempa{\@enLabel\Roman } \else
1197   \ifx 1\@entemp     \def\@tempa{\@enLabel\arabic} \else
1198   \ifx \@sptoken\@entemp \let\@tempa\@enSpace      \else
1199   \ifx \bgroup\@entemp \let\@tempa\@enGroup      \else
1200   \ifx \c@enum\@entemp \let\@tempa\@gobble      \else
1201                                \let\@tempa\@enOther

```



```

1202           \@enhook
1203           \fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi
1204 \tempa}

```

7.22 `latex-localise-environments-xepersian.def`

```

1205 \ProvidesFile{latex-localise-environments-xepersian.def}[2010/07/25 v0.2 Persian localisation
1206 \eqenvironment{ }{abstract}
1207 \eqenvironment{ }{appendix}
1208 \eqenvironment{ }{array}
1209 \eqenvironment{ }{center}
1210 \eqenvironment{ }{description}
1211 \eqenvironment{ }{displaymath}
1212 \eqenvironment{ }{document}
1213 \eqenvironment{ }{enumerate}
1214 \eqenvironment{ }{figure}
1215 \eqenvironment{ *}{figure*}
1216 \eqenvironment{ }{filecontents}
1217 \eqenvironment{ *}{filecontents*}
1218 \eqenvironment{ }{flushleft}
1219 \eqenvironment{ }{flushright}
1220 \eqenvironment{ }{itemize}
1221 \eqenvironment{ }{letter}
1222 \eqenvironment{ }{list}
1223 \eqenvironment{ }{longtable}
1224 \eqenvironment{ }{lrbox}
1225 \eqenvironment{ }{math}
1226 \eqenvironment{ }{matrix}
1227 \eqenvironment{ }{minipage}
1228 \eqenvironment{ }{multiline}
1229 \eqenvironment{ }{note}
1230 \eqenvironment{ }{overlay}
1231 \eqenvironment{ }{picture}
1232 \eqenvironment{ }{quotation}
1233 \eqenvironment{ }{quote}
1234 \eqenvironment{ }{slide}
1235 \eqenvironment{ }{sloppypar}
1236 \eqenvironment{ }{split}
1237 \eqenvironment{ }{subarray}
1238 \eqenvironment{ }{tabbing}
1239 \eqenvironment{ }{table}
1240 \eqenvironment{ *}{table*}
1241 \eqenvironment{ }{tabular}
1242 \eqenvironment{ *}{tabular*}
1243 \eqenvironment{ }{thebibliography}
1244 \eqenvironment{ }{theindex}
1245 \eqenvironment{ }{titlepage}
1246 \eqenvironment{ }{trivlist}
1247 \eqenvironment{ }{verse}

```



7.23 xepersian-localise-environments-xepersian.def

```
1248 \ProvidesFile{xepersian-localise-environments-xepersian.def}[2010/07/25 v0.1 Persian localisat
1249 \eqenvironment{ }{latin}
1250 \eqenvironment{ }{LTR}
1251 \eqenvironment{ }{LTRitems}
1252 \eqenvironment{ }{modernpoem}
1253 \eqenvironment{ *}{modernpoem*}
1254 \eqenvironment{ }{persian}
1255 \eqenvironment{ }{RTL}
1256 \eqenvironment{ }{RTLitems}
1257 \eqenvironment{ }{traditionalpoem}
1258 \eqenvironment{ *}{traditionalpoem*}
```

7.24 extarticle-xepersian.def

```
1259 \ProvidesFile{extarticle-xepersian.def}[2010/07/25 v0.1 adaptations for extarticle class]
1260 \renewcommand{\thepart}{\@tartibi\c@part}
1261 \renewcommand{\appendix}{\par
1262   \setcounter{section}{0}%
1263   \setcounter{subsection}{0}%
1264   \gdef\thesection{\@harfi\c@section}}
```

7.25 extbook-xepersian.def

```
1265 \ProvidesFile{extbook-xepersian.def}[2010/07/25 v0.1 adaptations for extbook class]
1266 \renewcommand{\frontmatter}{%
1267   \cleardoublepage
1268   \mainmatterfalse
1269   \pagenumbering{harfi}}
1270 \renewcommand{\thepart}{\@tartibi\c@part}
1271 \renewcommand{\appendix}{\par
1272   \setcounter{chapter}{0}%
1273   \setcounter{section}{0}%
1274   \gdef\@chapapp{\appendixname}%
1275   \gdef\thechapter{\@harfi\c@chapter}
1276 }%end appendix
```

7.26 extrafootnotefeatures-xepersian.def

```
1277 \ProvidesFile{extrafootnotefeatures-xepersian.def}[2012/01/01 v0.2 footnote macros for extrafo
1278 \renewcommand{\foottextfont}{\footnotesize\if@RTL@footnote\else\resetlatinfont\fi}
1279 \renewcommand{\LTRfoottextfont}{\footnotesize\resetlatinfont}
1280 \renewcommand{\RTLfoottextfont}{\footnotesize\setpersianfont}
```

7.27 extreport-xepersian.def

```
1281 \ProvidesFile{extreport-xepersian.def}[2010/07/25 v0.1 adaptations for extreport class]
1282 \renewcommand{\thepart}{\@tartibi\c@part}
1283 \renewcommand{\appendix}{\par
1284   \setcounter{chapter}{0}%
1285   \setcounter{section}{0}%
1286   \gdef\@chapapp{\appendixname}}%
```



```
1287 \gdef\thechapter{\@harfi\c@chapter}
```

7.28 flowfram-xepersian.def

```
1288 \ProvidesFile{flowfram-xepersian.def}[2010/07/25 v0.1 adaptations for flowfram package]
1289 \def\@outputpage{%
1290 \begingroup
1291 \let\protect\noexpand
1292 \resetactivechars
1293 \global\let\@@if@newlist\if@newlist
1294 \global\@newlistfalse\parboxrestore
1295 \shipout\vbox{\set@typeset@protect
1296 \aftergroup
1297 \endgroup
1298 \aftergroup
1299 \set@typeset@protect
1300 \reset@font\normalsize\normalsfcodes
1301 \let\label@gobble
1302 \let\index@gobble
1303 \let\glossary@gobble
1304 \baselineskip\z@skip
1305 \lineskip\z@skip
1306 \lineskiplimit\z@
1307 \vskip\topmargin\overright\themargin
1308 \vbox{%
1309 \vskip\headheight
1310 \vskip\headsep
1311 \box\@outputbox
1312 }}%
1313 \global\let\if@newlist\@@if@newlist
1314 \stepcounter{page}%
1315 \setcounter{displayedframe}{0}%
1316 \let\firstmark\botmark}
```

7.29 footnote-xepersian.def

```
1317 \ProvidesFile{footnote-xepersian.def}[2017/02/04 v0.5 footnote macros for xepersian package]
1318
1319 \renewcommand*{\bidi@@footnotetext@font}{\if@RTL@footnote\reset@font\else\resetlatinfont\fi\font}
1320
1321 \renewcommand*{\bidi@@LTRfootnotetext@font}{\resetlatinfont\footnotesize}
1322
1323 \renewcommand*{\bidi@@RTLfootnotetext@font}{\setpersianfont\footnotesize}
1324
```

7.30 framed-xepersian.def

```
1325 \ProvidesFile{framed-xepersian.def}[2012/06/05 v0.1 xepersian adaptations for framed package]
1326 \renewenvironment{titled-frame}[1]{%
1327 \def\FrameCommand{\fboxsep8pt\fboxrule2pt
1328 \TitleBarFrame{\textbf{\#1}}}}%
1329 \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
```



```

1330   \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi]{\textbf{\#1}}}%
1331 \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
1332   \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi]{\textbf{\#1}\ (\if@R
1333 \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
1334   \TitleBarFrame{\textbf{\#1}\ (\if@RTL\else\ cont\fi)}}}%
1335 \MakeFramed{\advance\hsize-20pt \FrameRestore}}}%
1336 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
1337 % could interfere with the width measurement.
1338 {\endMakeFramed}

```

7.31 glossaries-xepersian.def

```

1339 \ProvidesFile{glossaries-xepersian.def}[2014/09/04 v0.4 xepersian adaptations for glossaries p
1340 \glsaddprotectedpagefmt{@harfi}
1341 \glsaddprotectedpagefmt{@tartibi}
1342 \glsaddprotectedpagefmt{@adadi}

```

7.32 hyperref-xepersian.def

```

1343 \ProvidesFile{hyperref-xepersian.def}[2015/02/02 v0.6 bilingual captions for hyperref package]
1344 \def\equationautorefname{\if@RTL\else\ Equation\fi}%
1345 \def\footnoteautorefname{\if@RTL\else\ footnote\fi}%
1346 \def\itemautorefname{\if@RTL\else\ item\fi}%
1347 \def\figureautorefname{\if@RTL\else\ Figure\fi}%
1348 \def\tableautorefname{\if@RTL\else\ Table\fi}%
1349 \def\partautorefname{\if@RTL\else\ Part\fi}%
1350 \def\appendixautorefname{\if@RTL\else\ Appendix\fi}%
1351 \def\chapterautorefname{\if@RTL\else\ chapter\fi}%
1352 \def\sectionautorefname{\if@RTL\else\ section\fi}%
1353 \def\subsectionautorefname{\if@RTL\else\ subsection\fi}%
1354 \def\subsubsectionautorefname{\if@RTL\else\ subsubsection\fi}%
1355 \def\paragraphautorefname{\if@RTL\else\ paragraph\fi}%
1356 \def\ subparagraphautorefname{\if@RTL\else\ subparagraph\fi}%
1357 \def\FancyVerbLineautorefname{\if@RTL\else\ line\fi}%
1358 \def\theoremautorefname{\if@RTL\else\ Theorem\fi}%
1359 \def\pageautorefname{\if@RTL\else\ page\fi}%
1360 \AtBeginDocument{%
1361 \let\HyOrg@appendix\appendix
1362 \def\appendix{%
1363   \ltx@ifundefined{chapter}%
1364     {\gdef\theHsection{\Alph{section}}}%
1365     {\gdef\theHchapter{\Alph{chapter}}}%
1366   \xdef\Hy@chapapp{\Hy@appendixstring}%
1367   \HyOrg@appendix
1368 }
1369 }
1370 \pdfstringdefDisableCommands{%
1371 \let\lr@firstofone
1372 \let\rl@firstofone
1373 \def\XePersian{\XePersian}
1374 }

```



```

1375 \ltx@IfUndefined{@resets@pp}{%
1376 }{%
1377   \let\HyOrg@resets@pp\@resets@pp
1378   \def\@resets@pp{%
1379     \ltx@IfUndefined{chapter}{%
1380       \gdef\theHsection{\Hy@AlphNoErr{section}}%
1381     }{%
1382       \gdef\theHchapter{\Hy@AlphNoErr{chapter}}%
1383     }%
1384   \xdef\Hy@chapapp{\Hy@appendixstring}%
1385   \HyOrg@resets@pp
1386 }%
1387 }

```

7.33 imsproc-xepersian.def

```

1388 \ProvidesFile{imsproc-xepersian.def}[2015/12/07 v0.4 implementation of imsproc class for xepersian]
1389 \newenvironment{thebibliography}[1]{%
1390   \bibtitlestyle
1391   \normalfont\bibliofont\labelsep .5em\relax
1392   \renewcommand{\theenumiv}{\arabic{enumiv}}\let\p@enumiv\empty
1393   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1394   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth\{\@biblabel{\#1}\}%
1395     \leftmargin\labelwidth \advance\leftmargin\labelsep
1396     \usecounter{enumiv}}%
1397   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
1398   \sfcodes`.=\@m
1399 }{%
1400   \def\noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
1401   \endlist
1402 }
1403 \def\theindex{\restonecoltrue\if@twocolumn\restonecolfalse\fi
1404   \columnseprule\z@\columnsep 35\p@
1405   \indextitlestyle
1406   \thispagestyle{plain}%
1407   \let\item\idxitem
1408   \parindent\z@\parskip\z@\plus.3\p@\relax
1409   \if@RTL\raggedleft\else\raggedright\fi
1410   \hyphenpenalty\@M
1411   \footnotesize}
1412 \def\idxitem{\par\hangindent \if@RTL-\fi2em}
1413 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
1414 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
1415 \renewcommand{\thepart}{\@tartibi\c@part}
1416 \def\appendix{\par\c@section\z@\c@subsection\z@
1417   \let\sectionname\appendixname
1418   \def\thesection{\@harfi\c@section}%
1419 \def\right@footnoterule{%
1420   \kern-.4\p@
1421   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill } }
```



```

1422 \kern11\p@\kern-\footnotesep}
1423 \def\left@footnoterule{\kern-.4\p@
1424         \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
1425 \def\@makefnmark{%
1426   \leavevmode
1427   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}%
1428 }
1429
1430
1431
1432 \def\part{\@startsection{part}{0}%
1433   \z@\{ \linespacing\@plus\linespacing\}\,.5\linespacing\}%
1434   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}%
1435 \def\@tocline#1#2#3#4#5#6#7{\relax
1436   \ifnum #1>\c@tocdepth % then omit
1437   \else
1438     \par \addpenalty\@secpenalty\addvspace{\#2}%
1439     \begingroup \hyphenpenalty\@M
1440     \@ifempty{\#4}{%
1441       \tempdima\csname r@tocindent\number#1\endcsname\relax
1442     }{%
1443       \tempdima\#4\relax
1444     }%
1445     \parindent\z@\if@RTL\rightskip\else\leftskip\fi\#3\relax \advance\if@RTL\rightskip\else\leftskip\fi
1446     \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
1447     \leavevmode\hskip-\tempdima \#6\nobreak\relax
1448     \hfil\hbox to \@pnumwidth{\@tocpagenum{\#7}}\par
1449     \nobreak
1450     \endgroup
1451   \fi}
1452 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
1453 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
1454 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
1455 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
1456 \def\maketitle{\par
1457   \topnum\z@ % this prevents figures from falling at the top of page 1
1458   \setcopyright
1459   \thispagestyle{firstpage} % this sets first page specifications
1460   \uppercaseonmath\shorttitle
1461   \ifx\empty\shortauthors \let\shortauthors\shorttitle
1462   \else \andify\shortauthors
1463   \fi
1464   \maketitle@hook
1465   \begingroup
1466   \maketitle
1467   \toks@\xp{\shortauthors}\temptokena\xp{\shorttitle}%
1468   \toks4{\def\\{\ignorespaces}}% defend against questionable usage
1469   \edef\tempa{%
1470     \nx\markboth{\the\toks4
1471     \nx\MakeUppercase{\the\toks@}}{\the\temptokena}}%

```



```

1472  \@tempa
1473  \endgroup
1474  \c@footnote\z@
1475  \@cleartopmattertags
1476 }

```

7.34 kashida-xepersian.def

```

1477 \ProvidesFile{kashida-xepersian.def}[2016/09/09 v0.5 implementation of Kashida for xepersian p
1478 \chardef\xepersian@zwj="200D % zero-width joiner
1479
1480 \chardef\xepersian@D=10 % dual-joiner class
1481 \chardef\xepersian@L=11 % lam
1482 \chardef\xepersian@R=12 % right-joiner
1483 \chardef\xepersian@A=13 % alef
1484 \chardef\xepersian@V=4096 % vowel or other combining mark (to be ignored)
1485 \newif\if@Kashida@on
1486 \def\xepersian@kashida{\if@Kashida@on\xepersian@zwj\nobreak%
1487   \leaders\hrule height \XeTeXglyphbounds2 \the\XeTeXcharglyph"0640 depth \XeTeXglyphbounds
1488
1489 \def\setclass#1#2{\def\theclass{#1}\def\charlist{#2}%
1490   \expandafter\dosetclass\charlist,\end}
1491 \def\dosetclass#1,#2\end{%
1492   \def\test{#1}\def\charlist{#2}%
1493   \ifx\test\empty\let\next\finishsetclass
1494   \else \XeTeXcharclass "\test = \theclass
1495     \let\next\dosetclass \fi
1496   \expandafter\next\charlist,,\end}
1497 \def\finishsetclass#1,,\end{}}
1498
1499 \setclass \xepersian@A {0622,0623,0625,0627}
1500 \setclass \xepersian@R {0624,0629,062F,0630,0631,0632,0648,0698}
1501 \setclass \xepersian@D {0626,0628,062A,062B,062C,062D,062E}
1502 \setclass \xepersian@D {0633,0634,0635,0636,0637,0638,0639,063A}
1503 \setclass \xepersian@D {0640,0641,0642,0643,0645,0646,0647,0649,064A}
1504 \setclass \xepersian@D {067E,0686,06A9,06AF,06CC}
1505 \setclass \xepersian@L {0644}
1506 \setclass \xepersian@V {064B,064C,064D,064E,064F,0650,0651,0652}
1507
1508 \XeTeXinterchartoks \xepersian@D \xepersian@D = {\xepersian@kashida}
1509 \XeTeXinterchartoks \xepersian@L \xepersian@D = {\xepersian@kashida}
1510 \XeTeXinterchartoks \xepersian@D \xepersian@L = {\xepersian@kashida}
1511 \XeTeXinterchartoks \xepersian@L \xepersian@L = {\xepersian@kashida}
1512 \XeTeXinterchartoks \xepersian@D \xepersian@R = {\xepersian@kashida}
1513 \XeTeXinterchartoks \xepersian@D \xepersian@A = {\xepersian@kashida}
1514 \XeTeXinterchartoks \xepersian@L \xepersian@R = {\xepersian@kashida}
1515 \XeTeXinterchartoks \xepersian@L \xepersian@A = {}
1516
1517 \newcommand{\KashidaOn}{\@Kashida@ontrue}
1518 \newcommand{\KashidaOff}{\@Kashida@offfalse}

```



```
1519 \KashidaOn
```

7.35 listings-xepersian.def

```
1520 \ProvidesFile{listings-xepersian.def}[2014/07/17 v0.3 bilingual captions for listings package]
1521 \def\lstlistingname{\if@RTL else\ Listing\fi}
1522 \def\lstlistlistingname{\if@RTL else\ Listings\fi}
```

7.36 loadingorder-xepersian.def

```
1523 \ProvidesFile{loadingorder-xepersian.def}[2012/01/01 v0.3 making sure that xepersian is the last
1524 \bidi@isloaded{algorithmic}
1525 \bidi@isloaded{algorithm}
1526 \bidi@isloaded{backref}
1527 \bidi@isloaded{enumerate}
1528 \bidi@isloaded{tocloft}
1529 \bidi@isloaded{url}
1530 \AtBeginDocument{
1531   \if@bidi@algorithmicloaded@\else
1532     \bidi@isloaded[{\PackageError{xepersian}{Oops! you have loaded package algorithmic after xepersian}}
1533   \fi%
1534   \if@bidi@algorithmloaded@\else
1535     \bidi@isloaded[{\PackageError{xepersian}{Oops! you have loaded package algorithm after xepersian}}
1536   \fi%
1537   \if@bidi@backrefloaded@\else
1538     \bidi@isloaded[{\PackageError{xepersian}{Oops! you have loaded package backref after xepersian}}
1539   \fi%
1540   \if@bidi@enumerateloaded@\else
1541     \bidi@isloaded[{\PackageError{xepersian}{Oops! you have loaded package enumerate after xepersian}}
1542   \fi%
1543   \if@bidi@tocloftloaded@\else
1544     \bidi@isloaded[{\PackageError{xepersian}{Oops! you have loaded package tocloft after xepersian}}
1545   \fi%
1546   \if@bidi@urlloaded@\else
1547     \bidi@isloaded[{\PackageError{xepersian}{Oops! you have loaded package url after xepersian}}
1548   \fi%
1549 }
```

7.37 localise-xepersian.def

```
1550 \ProvidesFile{localise-xepersian.def}[2014/07/10 v0.2b Persian localisation of LaTeX2e]
1551 \newcommand{\makezwnjletter}{\catcode`=11\relax}
1552 \makezwnjletter
1553 \newcommand*\eqcommand[2]{\if@bidi@csprimitive{#2}{\bidi@csletcs{#1}{#2}}{\bidi@csdefcs{#1}{#2}}}
1554 \newcommand*\eqenvironment[2]{\newenvironment{#1}{\csname#2\endcsname}{\csname end#2\endcsname}}
1555 \@ifpackageloaded{keyval}{%
1556   \newcommand*\keyval@eq@alias@key[4][KV]{%
1557     \bidi@csletcs{#1@#2@#3}{#1@#2@#4}%
1558     \bidi@csletcs{#1@#2@#3@default}{#1@#2@#4@default}%
1559   }%
1560   \newcommand*\keyval@eq@alias@key[4][KV]{%
1561     \bidi@csletcs{#1@#2@#3}{#1@#2@#4}%
1562   }%
1563 }
```



```

1562 \bidi@csletcs{#1@#2@#3@default}{#1@#2@#4@default}}%
1563 }{}}
1564 \input{latex-localise-commands-xepersian.def}
1565 \input{xepersian-localise-commands-xepersian.def}
1566 \input{latex-localise-environments-xepersian.def}
1567 \input{xepersian-localise-environments-xepersian.def}
1568 \input{latex-localise-messages-xepersian.def}
1569 \input{latex-localise-misc-xepersian.def}
1570 \input{packages-localise-xepersian.def}
1571 \aliasfontfeature{ExternalLocation}{ }
1572 \aliasfontfeature{ExternalLocation}{ }
1573 \aliasfontfeature{Renderer}{ }
1574 \aliasfontfeature{BoldFont}{ }
1575 \aliasfontfeature{Language}{ }
1576 \aliasfontfeature{Script}{ }
1577 \aliasfontfeature{UprightFont}{ }
1578 \aliasfontfeature{ItalicFont}{ }
1579 \aliasfontfeature{BoldItalicFont}{ }
1580 \aliasfontfeature{SlantedFont}{ }
1581 \aliasfontfeature{BoldSlantedFont}{ }
1582 \aliasfontfeature{SmallCapsFont}{ }
1583 \aliasfontfeature{UprightFeatures}{ }
1584 \aliasfontfeature{BoldFeatures}{ }
1585 \aliasfontfeature{ItalicFeatures}{ }
1586 \aliasfontfeature{BoldItalicFeatures}{ }
1587 \aliasfontfeature{SlantedFeatures}{ }
1588 \aliasfontfeature{BoldSlantedFeatures}{ }
1589 \aliasfontfeature{SmallCapsFeatures}{ }
1590 \aliasfontfeature{SizeFeatures}{ }
1591 \aliasfontfeature{Scale}{ }
1592 \aliasfontfeature{WordSpace}{ }
1593 \aliasfontfeature{PunctuationSpace}{ }
1594 \aliasfontfeature{FontAdjustment}{ }
1595 \aliasfontfeature{LetterSpace}{ }
1596 \aliasfontfeature{HyphenChar}{ }
1597 \aliasfontfeature{Color}{ }
1598 \aliasfontfeature{Opacity}{ }
1599 \aliasfontfeature{Mapping}{ }
1600 \aliasfontfeature{Weight}{ }
1601 \aliasfontfeature{Width}{ }
1602 \aliasfontfeature{OpticalSize}{ }
1603 \aliasfontfeature{FakeSlant}{ }
1604 \aliasfontfeature{FakeStretch}{ }
1605 \aliasfontfeature{FakeBold}{ }
1606 \aliasfontfeature{AutoFakeSlant}{ }
1607 \aliasfontfeature{AutoFakeBold}{ }
1608 \aliasfontfeature{Ligatures}{ }
1609 \aliasfontfeature{Alternate}{ }
1610 \aliasfontfeature{Variant}{ }
1611 \aliasfontfeature{Variant}{ }

```



```

1612 \aliasfontfeature{CharacterVariant}{      }
1613 \aliasfontfeature{Style}{      }
1614 \aliasfontfeature{Annotation}{      }
1615 \aliasfontfeature{RawFeature}{      }
1616 \aliasfontfeature{CharacterWidth}{      }
1617 \aliasfontfeature{Numbers}{      }
1618 \aliasfontfeature{Contextuals}{      }
1619 \aliasfontfeature{Diacritics}{      }
1620 \aliasfontfeature{Letters}{      }
1621 \aliasfontfeature{Kerning}{      }
1622 \aliasfontfeature{VerticalPosition}{      }
1623 \aliasfontfeature{Fractions}{      }
1624 \aliasfontfeatureoption{Language}{Default}{      }
1625 \aliasfontfeatureoption{Language}{Parsi}{      }
1626 \aliasfontfeatureoption{Script}{Parsi}{      }
1627 \aliasfontfeatureoption{Script}{Latin}{      }
1628 \aliasfontfeatureoption{Style}{MathScript}{      }
1629 \aliasfontfeatureoption{Style}{MathScriptScript}{      }

```

7.38 memoir-xepersian.def

```

1630 \ProvidesFile{memoir-xepersian.def}[2010/07/25 v0.1 adaptations for memoir class]
1631 \renewcommand{\@memfront}{%
1632   \@smemfront\pagenumbering{harfi}}
1633 \renewcommand{\setthesection}{\thechapter\@SepMark\harfi{section}}
1634 \renewcommand*{\thebook}{\@tartibi\c@book}
1635 \renewcommand*{\thepart}{\@tartibi\c@part}
1636 \renewcommand{\appendix}{\par
1637   \setcounter{chapter}{0}%
1638   \setcounter{section}{0}%
1639   \gdef\@chapapp{\appendixname}%
1640   \gdef\thechapter{\charfi\c@chapter}%
1641   \anappendixtrue}

```

7.39 latex-localise-messages-xepersian.def

```

1642 latex}          -localise-messages-xepersian.def}[2011/03/01 v0.1 localising LaTeXe messages]

```

7.40 minitoc-xepersian.def

```

1643 \ProvidesFile{minitoc-xepersian.def}[2010/07/25 v0.1 bilingual captions for minitoc package]
1644 \def\ptctitle{\ifRTL else\ Table of Contents\fi}%
1645 \def\plftitle{\ifRTL else\ List of Figures\fi}%
1646 \def\pltttitle{\ifRTL else\ List of Tables\fi}%
1647 \def\mtctitle{\ifRTL else\ Contents\fi}%
1648 \def\mlftitle{\ifRTL else\ Figures\fi}%
1649 \def\mltttitle{\ifRTL else\ Tables\fi}%
1650 \def\stctitle{\ifRTL else\ Contents\fi}%
1651 \def\slftitle{\ifRTL else\ Figures\fi}%
1652 \def\sltttitle{\ifRTL else\ Tables\fi}%

```

7.41 latex-localise-misc-xepersian.def



```

1653 \ProvidesFile{latex-localise-misc-xepersian.def}[2012/01/01 v0.2 miscellaneous Persian localis
1654 %}1#  \ \
1655   \@  \     @ \    \
1656   \1#  \
1657   \1# @\
1658   \1# @\
1659 {@  \
1660 %}2#1# @\ \
1661 %1#  \     @\    \ \ \    \
1662   \2#  \     @\    \
1663 {{2#1#  \
1664 undefined\  \
1665
1666 %{ \    \ \    \ \1#}  \ \}  \1#  \
1667   \ { \    \ \
1668   \ \ \
1669
1670
1671 \  \ \ \ %}  \#1
1672   \1#}  \ \ % \
1673       \ \ \
1674   }%
1675   \
1676   \ \ \
1677 }
1678 \= \ \
1679
1680
1681 \@ifdefinitionfileloaded{latex-xetex-bidi}{%
1682 \def\@xfloat #1[#2]{%
1683   @nodocument
1684   \def\@capttype {\#1}%
1685   \def\@fps {\#2}%
1686   \onelevel@sanitize\@fps
1687   \def\@reserved@b {\!}%
1688   \ifx\@reserved@b\@fps
1689     \@fpsadddefault
1690   \else
1691     \ifx\@fps\empty
1692       \@fpsadddefault
1693     \fi
1694   \fi
1695   \ifhmode
1696     \obspshack
1697     \floatpenalty-\@Mii
1698   \else
1699     \floatpenalty-\@Miii
1700   \fi
1701 \ifinner
1702   \parmoderr\floatpenalty\z@
```



```

1703 \else
1704   \cnext\currbox\freetlist
1705   {%
1706     \tempcnta\sixt@n
1707     \expandafter\@tfor\expandafter\reserved@a
1708       \expandafter:\expandafter=\@fps
1709     \do
1710       {%
1711         \if\reserved@a h%
1712           \ifodd\tempcnta
1713             \else
1714               \advance\tempcnta\@ne
1715             \fi
1716           \fi
1717         \if\reserved@a %
1718           \ifodd\tempcnta
1719             \else
1720               \advance\tempcnta\@ne
1721             \fi
1722           \fi
1723         \if\reserved@a t%
1724           \@setfpsbit\@tw@
1725         \fi
1726         \if\reserved@a %
1727           \@setfpsbit\@tw@
1728         \fi
1729         \if\reserved@a b%
1730           \@setfpsbit 4%
1731         \fi
1732         \if\reserved@a %
1733           \@setfpsbit 4%
1734         \fi
1735         \if\reserved@a p%
1736           \@setfpsbit 8%
1737         \fi
1738         \if\reserved@a %
1739           \@setfpsbit 8%
1740         \fi
1741         \if\reserved@a !%
1742           \ifnum\tempcnta>15
1743             \advance\tempcnta-\sixt@n\relax
1744           \fi
1745         \fi
1746       }%
1747     \tempcntb\csname ftype@\captype\endcsname
1748     \multiply\tempcntb\@xxxii
1749     \advance\tempcnta\tempcntb
1750     \global\count\currbox\tempcnta
1751   }%
1752 \@fltovf

```



```

1753   \fi
1754   \global \setbox\@currbox
1755     \color@vbox
1756       \normalcolor
1757       \vbox \bgroup
1758         \hsize\columnwidth
1759         \parboxrestore
1760         \floatboxreset
1761 }
1762 \let\bm@\bm@c
1763 \let\bm@\bm@l
1764 \let\bm@\bm@r
1765 \let\bm@\bm@b
1766 \let\bm@\bm@t
1767 \let\bm@\bm@s
1768 \long\def\@iiiparbox#1#2[#3]#4#5{%
1769   \leavevmode
1770   \pboxswfalse
1771   \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
1772   \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\else\fi
1773   \setlength\@tempdima{#4}%
1774   \begin@tempboxa\vbox{\hsize\@tempdima\parboxrestore#5\@par}%
1775     \ifx\relax#2\else
1776       \setlength\@tempdimb{#2}%
1777       \edef\@parboxto{to\the\@tempdimb}%
1778     \fi
1779     \if#1b\vbox
1780     \else\if#1\vtop
1781     \else\if vtop\ #1
1782     \else\ifmmode\vcenter
1783     \else\@pboxswtrue \$\vcenter
1784     \fi\fi\fi\fi\fi
1785     \parboxto{\let\hss\vss\let\unhbox\unvbox
1786       \csname bm@\#3\endcsname}%
1787     \if@pboxsw \m@th$\fi
1788   \end@tempboxa}
1789 \def\@iiiminipage#1#2[#3]#4{%
1790   \leavevmode
1791   \pboxswfalse
1792   \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
1793   \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\else\fi
1794   \setlength\@tempdima{#4}%
1795   \def\@mpargs{{#1}{#2}[#3]{#4}}%
1796   \setbox\@tempboxa\vbox\bgroup
1797     \color@begingroup
1798       \hsize\@tempdima
1799       \textwidth\hsize \columnwidth\hsize
1800       \parboxrestore
1801       \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
```



```

1803      \let\@footnotetext\@mpfootnotetext
1804      \let\@LTRfootnotetext\@mpLTRfootnotetext
1805      \let\@RTLfootnotetext\@mpRTLfootnotetext
1806      \let\@listdepth\@mplistdepth \@mplistdepth\z@
1807      \@minipagerestore
1808      \@setminipage}
1809 \def\@testpach#1{\@chclass \ifnum \lastchclass=\tw@ 4 \else
1810   \ifnum \lastchclass=3 5 \else
1811     \z@ \if #1c\@chnum \z@ \else
1812       \if \chnum@#1 \z@ \else
1813         \if \if@RTLtab#1r\else#1l\fi\@chnum \one \else
1814           \if \if@RTLtab#1 \else#1 \fi\@chnum \one \else
1815             \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1816               \if \if@RTLtab#1 \else#1 \fi\@chnum \tw@ \else
1817                 \@chclass \if #1|\one \else
1818                   \if #1@\tw@ \else
1819                     \if #1p3 \else
1820                       \if 3#1 \else \z@ \@preamerr 0\fi
1821                         \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
1822 \fi}%
1823 }{}%
1824 \@ifdefinitionfileloaded{array-xetex-bidi}{%
1825 \def\@testpach{\@chclass
1826 \ifnum \lastchclass=6 \one \@chnum \one \else
1827   \ifnum \lastchclass=7 5 \else
1828     \ifnum \lastchclass=8 \tw@ \else
1829       \ifnum \lastchclass=9 \thr@@
1830       \else \z@
1831       \ifnum \lastchclass = 10 \else
1832         \edef\@nextchar{\expandafter\string\@nextchar}%
1833         \@chnum
1834         \if \@nextchar c\z@ \else
1835           \if \@nextchar @z\ \else
1836             \if \@nextchar \if@RTLtab r\else l\fi\one \else
1837               \if \@nextchar \if@RTLtab else\ fi\one\ \else
1838                 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1839                   \if \@nextchar \if@RTLtab else\ @fi\tw\ \else
1840                     \z@ \@chclass
1841                     \if\@nextchar |\one \else
1842                       \if \@nextchar !6 \else
1843                         \if \@nextchar @7 \else
1844                           \if \@nextchar <8 \else
1845                             \if \@nextchar >9 \else
1846                               10
1847                               \@chnum
1848                               \if \@nextchar m\thr@@\else
1849                                 \if \@nextchar thr@@\else\
1850                                   \if \@nextchar p4 \else
1851                                     \if \@nextchar 4 \else
1852                                       \if \@nextchar b5 \else

```




```

1903   \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1904   \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1905   \fi}\prepnext@tok}
1906 \def\adl@class@start{4}
1907 \def\adl@class@iiiorvii{7}
1908
1909 \else
1910 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1911     \ifnum \@lastchclass=\thr@@ 5\relax \else
1912         \z@\if #1c\@chnum \z@\else
1913             \if \z@\#1\@chnum\z@\#1 \else
1914                 \if \if@RTLtab#1\@else#1\fi\@chnum \one \else
1915                     \if \if@RTLtab#1\@else#1\fi\@chnum \one \else
1916                         \if \if@RTLtab#1\@else#1\fi\@chnum \tw@ \else
1917                             \if \if@RTLtab#1\@else#1\fi\@chnum \tw@ \else
1918                                 \chclass
1919                                     \if #1|\one \let\@arrayrule\adl@arrayrule \else
1920                                         \if #1:\one \let\@arrayrule\adl@arraydashrule \else
1921                                             \if #1;\one \let\@arrayrule\adl@argarraydashrule \else
1922                                                 \if #1@ \tw@ \else
1923                                                     \if #1p\thr@@ \else
1924                                                         \if @@\thr\#1 \else\z@ \preamerr 0\fi
1925             \fi \fi
1926
1927 \def\@arrayclassz{\ifcase \@lastchclass \acolampacol \or \ampacol \or
1928     \or \or \caddamp \or
1929     \acolampacol \or \firststampfalse \acol \fi
1930     \edef\@preamble{\@preamble
1931         \ifcase \chnum
1932             \hfil\adl@putlrc{\relax\sharp}\hfil
1933             \or \adl@putlrc{\relax\sharp}\hfil
1934             \or \hfil\adl@putlrc{\relax\sharp}\fi}}
1935 \def\@tabclassz{\ifcase \@lastchclass \acolampacol \or \ampacol \or
1936     \or \or \caddamp \or
1937     \acolampacol \or \firststampfalse \acol \fi
1938     \edef\@preamble{\@preamble
1939         \ifcase \chnum
1940             \hfil\adl@putlrc{\sharp\unskip}\hfil
1941             \or \adl@putlrc{\sharp\unskip}\hfil
1942             \or \hfil\hskip\z@ \adl@putlrc{\sharp\unskip}\fi}}
1943 \def\adl@class@start{6}
1944 \def\adl@class@iiiorvii{3}
1945 \fi
1946 }{}}
1947 \ifdefinitionfileloaded{tabulary-xetex-bidi}{%
1948 \def\@testpach{\@chclass
1949   \ifnum \@lastchclass=6 \one \chnum \one \else
1950   \ifnum \@lastchclass=7 5 \else
1951   \ifnum \@lastchclass=8 \tw@ \else
1952   \ifnum \@lastchclass=9 \thr@@

```



```
1953 \else \z@  
1954 \ifnum \@lastchclass = 10 \else  
1955 \edef\@nextchar{\expandafter\string\@nextchar}%"  
1956 \@chnum  
1957 \if \@nextchar c\z@ \else  
1958 \if \@nextchar @z\ \else  
1959 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else  
1960 \if \@nextchar \if@RTLtab else\ fi\@ne\ \else  
1961 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else  
1962 \if \@nextchar \if@RTLtab else\ @fi\tw\ \else  
1963 \if \@nextchar C7 \else  
1964 \if \@nextchar 7 \else  
1965 \if \@nextchar L8 \else  
1966 \if \@nextchar 8 \else  
1967 \if \@nextchar R9 \else  
1968 \if \@nextchar 9 \else  
1969 \if \@nextchar J10 \else  
1970 \if \@nextchar 10 \else  
1971 \z@ \@chclass  
1972 \if\@nextchar |\@ne \else  
1973 \if \@nextchar !6 \else  
1974 \if \@nextchar @7 \else  
1975 \if \@nextchar <8 \else  
1976 \if \@nextchar >9 \else  
1977 10  
1978 \@chnum  
1979 \if \@nextchar m\thr@@\else  
1980 \if \@nextchar thr@@\else\  
1981 \if \@nextchar p4 \else  
1982 \if \@nextchar4 \else  
1983 \if \@nextchar b5 \else  
1984 \if \@nextchar 5 \else  
1985 \z@ \@chclass \z@ \@preamerr \z@ \fi  
1986 \fi }%  
1987 }{ }  
1988 \@ifdefdefinitionfileloaded{float-xetex-bidi}{%  
1989 \let\@float@Hx\xfloatat  
1990 \def\@xfloat#1[{\@ifnextchar{H}{\@float@HH{#1}}[]}{\@ifnextchar{ }{\@float@{#1}} []}{\@float@Hx{#1}}]  
1991 \def\@float@HH#1[H]{%  
1992 \expandafter\let\csname end#1\endcsname\float@endH  
1993 \let\@currbox\float@box  
1994 \def\@capttype{#1}\setbox\@floatcapt=\vbox{}%  
1995 \expandafter\ifx\csname fst@#1\endcsname\relax  
1996 \@\flstylefalse\else\@\flstyletrue\fi  
1997 \setbox\@currbox\color\@vbox\@normalcolor  
1998 \vbox\@group\hspace\columnwidth\@parboxrestore  
1999 \@\floatboxreset\@setnobreak  
2000 \ignorespaces}  
2001 \def\@float@[]1# { %  
2002 \expandafter\let\csname end#1\endcsname\float@endH
```



```

2003 \let\@currbox\float@box
2004 \def\@capttype[#1]{\setbox\@floatcapt=\vbox{}%
2005 \expandafter\ifx\csname fst@\#1\endcsname\relax
2006   \relax\@flstylefalse\else\relax\@flstyletrue\fi
2007 \setbox\@currbox\color@vbox\normalcolor
2008 \vbox\bgroup \hsize\columnwidth \parboxrestore
2009   \relax\@floatboxreset \relax\@setnobreak
2010 \ignorespaces}
2011 }{%
2012 \begingroup \catcode `|=0 \catcode `[:= 1
2013 \catcode`]=2 \catcode `[\={=12 \catcode `]\={=12
2014 \catcode`\|=12 \gdef|\@x@xepersian@localize@verbatim#1[[      ]|1#]{      }
2015 \gdef|\@sx@xepersian@localize@verbatim#1[[*      ]|1#]{*      }
2016 \endgroup
2017 \def\ {|\@verbatim \frenchspacing\@vobeyspaces \@x@xepersian@localize@verbatim}
2018 \def\end {|\if@newlist \leavevmode\fi\endtrivlist}
2019 \ExplSyntaxOn
2020 \AtBeginDocument{\@namedef{ }{|\@verbatim \fontspec_print_visible_spaces: \@sx@xepersian}}
2021 \ExplSyntaxOff
2022 \expandafter\let\csname end \endcsname =\end

```

7.42 natbib-xepersian.def

```

2023 \ProvidesFile{natbib-xepersian.def}[2011/08/01 v0.1 adaptations for natbib package]
2024 \renewcommand\NAT@set@cites{%
2025   \ifNAT@numbers
2026     \ifNAT@super \let\@cite\NAT@citesuper
2027       \def\NAT@mbox##1{\unskip\nobreak\textsuperscript{##1}}%
2028       \let\citeyearpar=\citeyear
2029       \let\NAT@space\relax
2030       \def\NAT@super@kern{\kern\p@}%
2031   \else
2032     \let\NAT@mbox=\mbox
2033     \let\@cite\NAT@citemum
2034     \let\NAT@space\NAT@spacechar
2035     \let\NAT@super@kern\relax
2036   \fi
2037   \let\@citex\NAT@citexnum
2038 \let\@Latincitex\NAT@Latin@citexnum
2039 \let\@biblabel\NAT@biblabelnum
2040 \let\@bibsetup\NAT@bibsetnum
2041 \renewcommand\NAT@idxtxt{\NAT@name\NAT@spacechar\NAT@open\NAT@num\NAT@close}%
2042 \def\natexlab##1{%
2043   \def\NAT@penalty{\penalty\@m}%
2044 }%
2045 \else
2046   \let\@cite\NAT@cite
2047   \let\@citex\NAT@citex
2048   \let\@Latincitex\NAT@Latin@citex
2049   \let\@biblabel\NAT@biblabel
2050   \let\@bibsetup\NAT@bibsetup

```



```

2050   \let\NAT@space\NAT@spacechar
2051   \let\NAT@penalty\empty
2052   \renewcommand\NAT@idxtxt{\NAT@name\NAT@spacechar\NAT@open\NAT@date\NAT@close}%
2053   \def\natexlab##1{##1}%
2054   \fi}
2055 \newcommand\NAT@Latin@citex{}
2056 \def\NAT@Latin@citex%
2057   [##1] [##2]##3{%
2058   \NAT@reset@parser
2059   \NAT@sort@cites{##3}%
2060   \NAT@reset@citea
2061   \Cite{\lr{\let\NAT@nm\empty\let\NAT@year\empty
2062     \for\@citeb:=\NAT@cite@list\do
2063       {\@safe@activestrue
2064         \edef\@citeb{\expandafter\firstofone\@citeb\empty}%
2065         \@safe@activesfalse
2066         \ifundefined{b@\@citeb\@extra@b@\citeb}{\@citea{%
2067           \reset@font\bfseries ?}\NAT@citeundefined
2068             \PackageWarning{natbib}%
2069             {Citation `@citeb' on page \thepage\space undefined}\def\NAT@date{}%}
2070           \let\NAT@last@nm=\NAT@nm\let\NAT@last@yr=\NAT@year
2071           \NAT@parse{\@citeb}%
2072           \ifNAT@longnames\ifundefined{bv@\@citeb\@extra@b@\citeb}{%
2073             \let\NAT@name=\NAT@all@names
2074             \global\@namedef{bv@\@citeb\@extra@b@\citeb}{}%}
2075           \fi
2076           \ifNAT@full\let\NAT@nm\NAT@all@names\else
2077             \let\NAT@nm\NAT@name\fi
2078           \ifNAT@swa\ifcase\NAT@ctype
2079             \ifrelax\NAT@date\relax
2080               \Citea\NAT@hyper@\{NAT@nmfmt{\NAT@nm}\NAT@date}%
2081             \else
2082               \ifx\NAT@last@nm\NAT@nm\NAT@yrsep
2083                 \ifx\NAT@last@yr\NAT@year
2084                   \def\NAT@temp{?}%
2085                   \ifx\NAT@temp\NAT@exlab\PackageWarning{natbib}%
2086                     {Multiple citation on page \thepage: same authors and
2087                     year\MessageBreak without distinguishing extra
2088                     letter,\MessageBreak appears as question mark}\fi
2089                     \NAT@hyper@\{NAT@exlab}%
2090                   \else\unskip\NAT@spacechar
2091                     \NAT@hyper@\{NAT@date}%
2092                   \fi
2093                 \else
2094                   \Citea\NAT@hyper@{%
2095                     \NAT@nmfmt{\NAT@nm}%
2096                     \hyper@natlinkbreak{%
2097                       \NAT@aysep\NAT@spacechar}\{@citeb\@extra@b@\citeb
2098                     }%
2099                     \NAT@date

```



```

2100      }%
2101      \fi
2102      \fi
2103      \or\@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}}%
2104      \or\@citea\NAT@hyper@{\NAT@date}%
2105      \or\@citea\NAT@hyper@{\NAT@alias}%
2106      \fi \NAT@def@citea
2107      \else
2108          \ifcase\NAT@ctype
2109              \if\relax\NAT@date\relax
2110                  \or\@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}}%
2111              \else
2112                  \ifx\NAT@last@nm\NAT@nm\NAT@yrsep
2113                      \ifx\NAT@last@yr\NAT@year
2114                          \def\NAT@temp{{?}}%
2115                          \ifx\NAT@temp\NAT@exlab\PackageWarningNoLine{natbib}%
2116                              {Multiple citation on page \thepage: same authors and
2117                               year\MessageBreak without distinguishing extra
2118                               letter,\MessageBreak appears as question mark}\fi
2119                          \NAT@hyper@{\NAT@exlab}%
2120                      \else
2121                          \unskip\NAT@spacechar
2122                          \NAT@hyper@{\NAT@date}%
2123                      \fi
2124                  \else
2125                      \or\@citea\NAT@hyper@{%
2126                          \NAT@nmfmt{\NAT@nm}}%
2127                          \hyper@natlinkbreak{\NAT@spacechar\NAT@open\if*#1*\else#1\NAT@spacechar\fi}%
2128                          {\@cited\@extra@b@cited}%
2129                      \NAT@date
2130                  }%
2131                  \fi
2132                  \fi
2133                  \or\@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}}%
2134                  \or\@citea\NAT@hyper@{\NAT@date}%
2135                  \or\@citea\NAT@hyper@{\NAT@alias}%
2136                  \fi
2137                  \if\relax\NAT@date\relax
2138                      \NAT@def@citea
2139                  \else
2140                      \NAT@def@citea@close
2141                  \fi
2142                  \fi
2143                  \}}\ifNAT@swa\else\if*#2*\else\NAT@cmt#2\fi
2144                  \if\relax\NAT@date\relax\else\NAT@close\fi\fi}{}{#1}{#2}}
2145 \newcommand\NAT@Latin@citexnum{}
2146 \def\NAT@Latin@citexnum[#1][#2]#3{%
2147     \NAT@reset@parser
2148     \NAT@sort@cites{#3}%
2149     \NAT@reset@citea

```



```

2150  \@citere{\lrf{\def\nAT@num{-1}\let\nAT@last@yr\relax\let\nAT@nm\@empty
2151    \@for \@citeb:=\NAT@cite@list\do
2152      {\@safe@activestrue
2153        \edef\@citeb{\expandafter\@firstofone\@citeb\@empty}%
2154        \@safe@activesfalse
2155        \@ifundefined{b@\@citeb\@extra@b@\citeb}{%
2156          {\reset@font\bfseries?}
2157          \NAT@citeundefined\PackageWarning{natbib}%
2158          {Citation `@\citeb' on page \thepage\space undefined}}%
2159        {\let\nAT@last@num\NAT@num\let\nAT@last@nm\NAT@nm
2160          \NAT@parse{\@citeb}%
2161          \@ifNAT@longnames\@ifundefined{bv@\@citeb\@extra@b@\citeb}{%
2162            {\let\nAT@name=\NAT@all@names
2163              \global\@namedef{bv@\@citeb\@extra@b@\citeb}{}{}}%
2164            \fi
2165            \@ifNAT@full\let\nAT@nm\NAT@all@names\else
2166              \let\nAT@nm\NAT@name\fi
2167            \ifNAT@swa
2168              \@ifnum{\NAT@ctype}>\@ne}{%
2169                \@citea
2170                \NAT@hyper@{\@ifnum{\NAT@ctype=\tw@}{\NAT@test{\NAT@ctype}}{\NAT@alias}}%
2171            }{%
2172              \@ifnum{\NAT@cmprs}>\z@}{%
2173                \NAT@ifcat@num\NAT@num
2174                  {\let\nAT@nm=\NAT@num}%
2175                  {\def\nAT@nm{-2}}%
2176                \NAT@ifcat@num\NAT@last@num
2177                  {\@tempcnta=\NAT@last@num\relax}%
2178                  {\@tempcnta\m@ne}%
2179                \@ifnum{\NAT@nm=\@tempcnta}{%
2180                  \@ifnum{\NAT@merge}>\@ne}{\NAT@last@yr@mbox}%
2181                }{%
2182                  \advance\@tempcnta by\@ne
2183                  \@ifnum{\NAT@nm=\@tempcnta}{%
2184                    \ifx\nAT@last@yr\relax
2185                      \def\nAT@last@yr{\@citea}%
2186                      \else
2187                        \def\nAT@last@yr{--\NAT@penalty}%
2188                      \fi
2189                  }{%
2190                    \NAT@last@yr@mbox
2191                  }%
2192                }%
2193              }%
2194              \NAT@last@yr@mbox
2195            }{%
2196              \ifNAT@swa\NAT@citea@mbox\fi
2197            }%
2198          }%
2199        \NAT@def@citea

```



```

2200 \else
2201   \ifcase\NAT@ctype
2202     \ifx\NAT@last@nm\NAT@nm \NAT@yrsep\NAT@penalty\NAT@space\else
2203       \NAT@test{\@ne}\NAT@spacechar\NAT@mbox{\NAT@super@kern\NAT@open}%
2204     \fi
2205     \if*#1*\else#1\NAT@spacechar\fi
2206     \NAT@mbox{\NAT@hyper@{\{\citemarkfont{\NAT@num}\}}}%  

2207     \NAT@def@citea@box
2208   \or
2209     \NAT@hyper@citea@space{\NAT@test{\NAT@ctype}}%
2210   \or
2211     \NAT@hyper@citea@space{\NAT@test{\NAT@ctype}}%
2212   \or
2213     \NAT@hyper@citea@space\NAT@alias
2214   \fi
2215 \fi
2216 }%
2217 }%
2218 \@ifnum{\NAT@cmprs>\z@}{\NAT@last@yr}{}%
2219 \ifNAT@swa\else
2220   \ifnum{\NAT@ctype=\z@}%
2221     \if*#2*\else\NAT@cmnt#2\fi
2222   }%
2223   \NAT@mbox{\NAT@close}%
2224 \fi
2225 }{\#1}{\#2}%
2226 }%
2227 \AtBeginDocument{\NAT@set@cites}
2228 \DeclareRobustCommand\Latincite
2229   {\begingroup\let\NAT@ctype\z@\NAT@partrue\NAT@swatru
2230     \Gifstar{\NAT@fulltrue\NAT@Latin@cites}{\NAT@fullfalse\NAT@Latin@cites}}
2231 \newcommand\NAT@Latin@cites{\Gifnextchar [{\NAT@Latin@citetp}{%
2232   \ifNAT@numbers\else
2233   \NAT@swafalse
2234   \fi
2235   \NAT@Latin@citetp[]]}
2236 \newcommand\NAT@Latin@citetp{}%
2237 \def\NAT@Latin@citetp[#1]{\Gifnextchar [{\@Latincitex[#1]}{\@Latincitex[] [#1]}}}

```

7.43 packages-localise-xepersian.def

```

2238 packages}          \localise-xepersian.def}[2013/04/24 v0.2 localising LaTeXe Packages]
2239 color}    \color}          @\localise-xepersian.def}{}}
2240 @ifpackageloaded{multicol}{%
2241 \newenvironment{ }{\begin{multicols}}{\end{multicols}}%
2242 \newenvironment{*}{\begin{multicols*}}{\end{multicols*}}%
2243 }{}}
2244 @ifpackageloaded{verbatim}{%
2245 \begingroup
2246 \vrb@catcodes

```



```

2247 \lccode`!=`\ \\ \lccode`[=`\{ \lccode`\]=`\}
2248 \catcode`\~=`active \lccode`\~=`\^M
2249 \lccode`\C=`\C
2250 \lowercase{\endgroup
2251   \def\xepersian@localize@verbatim@start#1{%
2252     \verbatim@startline
2253     \if\noexpand#1\noexpand~%
2254       \let\next\xepersian@localize@verbatim@
2255     \else \def\next{\xepersian@localize@verbatim@#1}\fi
2256     \next}%
2257 \def\xepersian@localize@verbatim@#1{\xepersian@localize@verbatim@@#1!  \nil}%
2258 \def\xepersian@localize@verbatim@@#1! {%
2259   \verbatim@addtoline{#1}%
2260   \futurelet\next\xepersian@localize@verbatim@@@}%
2261 \def\xepersian@localize@verbatim@@@#1\@nil{%
2262   \ifx\next\@nil
2263     \verbatim@processline
2264     \verbatim@startline
2265     \let\next\xepersian@localize@verbatim@
2266   \else
2267     \def\@tempa##1!  \nil{##1}%
2268     \temptokena{!  }%
2269     \def\next{\expandafter\xepersian@localize@verbatim@test\@tempa#1\@nil~}%
2270   \fi \next}%
2271 \def\xepersian@localize@verbatim@test#1{%
2272   \let\next\xepersian@localize@verbatim@test
2273   \if\noexpand#1\noexpand~%
2274     \expandafter\verbatim@addtoline
2275     \expandafter{\the\temptokena}%
2276     \verbatim@processline
2277     \verbatim@startline
2278     \let\next\xepersian@localize@verbatim@
2279   \else \if\noexpand#1
2280     \temptokena\expandafter{\the\@temptokena#1}%
2281   \else \if\noexpand#1\noexpand[%
2282     \let\@tempc\@empty
2283     \let\next\xepersian@localize@verbatim@testend
2284   \else
2285     \expandafter\verbatim@addtoline
2286     \expandafter{\the\@temptokena}%
2287     \def\next{\xepersian@localize@verbatim@#1}%
2288   \fi\fi\fi
2289   \next}%
2290 \def\xepersian@localize@verbatim@testend#1{%
2291   \if\noexpand#1\noexpand~%
2292     \expandafter\verbatim@addtoline
2293     \expandafter{\the\@temptokena[]}%
2294     \expandafter\verbatim@addtoline
2295     \expandafter{\@tempc}%
2296     \verbatim@processline

```



```

2297     \verbatim@startline
2298     \let\next\xepersian@localize@verbatim@
2299     \else\if\noexpand#1\noexpand]%
2300     \let\next\xepersian@localize@verbatim@@testend
2301     \else\if\noexpand#1\noexpand!%
2302     \expandafter\verbatim@addtoline
2303     \expandafter{\the\@temptokena[]}%
2304     \expandafter\verbatim@addtoline
2305     \expandafter{\@tempc}%
2306     \def\next{\xepersian@localize@verbatim@!}%
2307     \else \expandafter\def\expandafter{\@tempc}\expandafter
2308     {\@tempc#1}\fi\fi\fi
2309     \next}%
2310     \def\xepersian@localize@verbatim@@testend{%
2311     \ifx\@tempc\@currenvir
2312     \verbatim@finish
2313     \edef\next{\noexpand\end{\@currenvir}%
2314     \noexpand\xepersian@localize@verbatim@rescan{\@currenvir}}%
2315     \else
2316     \expandafter\verbatim@addtoline
2317     \expandafter{\the\@temptokena[]}%
2318     \expandafter\verbatim@addtoline
2319     \expandafter{\@tempc}%
2320     \let\next\xepersian@localize@verbatim@
2321     \fi
2322     \next}%
2323     \def\xepersian@localize@verbatim@rescan#2~{\if\noexpand~\noexpand#2~\else
2324     \@warning{Characters dropped after `\\string\\end{#1}'\\fi}}%
2325 \def\ {\\begin{group}\\verbatim \\frenchspacing\\vobeyspaces
2326     \\xepersian@localize@verbatim@start}
2327 \namedef{ *}{\\begin{group}\\verbatim\\xepersian@localize@verbatim@start}
2328 \def\\end {\\endtrivlist\\endgroup\\doendpe}
2329 \expandafter\\let\\csname end \\endcsname =\\end
2330 }{ }
2331 \\ExplSyntaxOn
2332 \\AtBeginDocument{
2333     \\xepersian_localize_patch_verbatim:
2334 }
2335 \\cs_set:Npn \\xepersian_localize_patch_verbatim: {
2336     \\@ifpackageloaded{verbatim}{
2337         \\cs_set:cpn {*} { }
2338         \\group_begin: \\@verbatim \\fontspec_print_visible_spaces: \\xepersian@localize@verbatim@st
2339     }
2340     }{
2341     }
2342 }
2343 \\ExplSyntaxOff
2344 \\@ifpackageloaded{graphicx}{%
2345 \\def\\Gin@boolkey#1#2{%
2346 \\expandafter\\@ifdefinable \\csname Gin@#2 \\endcsname{%

```



```

2347 \expandafter\let\csname Gin@#2 \expandafter\endcsname\csname Gin@#2true\endcsname}%
2348 \expandafter@ifdefinable \csname Gin@#2 \endcsname{%
2349 \expandafter\let\csname Gin@#2 \expandafter\endcsname\csname Gin@#2false\endcsname}%
2350 \csname Gin@#2\ifx\relax#1\relax true\else#1\fi\endcsname}%
2351 \define@key{Grot}{origin}[c]{%
2352 \atfor@tempa:=#1\do{%
2353   \if 1\@tempa \Grot@x\z@\else
2354   \if tempa@ \Grot@x\z@\else
2355   \if r\@tempa \Grot@x\width\else
2356   \if tempa@ \Grot@x\width\else
2357   \if t\@tempa \Grot@y\height\else
2358   \if tempa@ \Grot@y\height\else
2359   \if b\@tempa \Grot@y-\depth\else
2360   \if tempa@ \Grot@y-\depth\else
2361   \if B\@tempa \Grot@y\z@\else
2362   \if tempa@ \Grot@y\z@\fi\fi\fi\fi\fi\fi\fi\fi}%
2363 {draft}{ }{Gin} @ \
2364 {origin}{ }{Gin} @ \
2365 {origin}{ }{Grot} @ \
2366 {clip}{ }{Gin} @ \
2367 {keepaspectratio}{ }{Gin} @ \
2368 {natwidth}{ }{Gin} @ \
2369 {natheight}{ }{Gin} @ \
2370 {bb}{ }{Gin} @ \
2371 {viewport}{ }{Gin} @ \
2372 {trim}{ }{Gin} @ \
2373 {angle}{ }{Gin} @ \
2374 {width}{ }{Gin} @ \
2375 {height}{ }{Gin} @ \
2376 {totalheight}{ }{Gin} @ \
2377 {scale}{ }{Gin} @ \
2378 {type}{ }{Gin} @ \
2379 {ext}{ }{Gin} @ \
2380 {read}{ }{Gin} @ \
2381 {command}{ }{Gin} @ \
2382 {fx}{ }{Grot} @ \
2383 {fy}{ }{Grot} @ \
2384 {units}{ }{Grot} @ \
2385 }{}}

```

7.44 parsidigits.map

```

2386 LHSName "Digits"
2387 RHSName "ParsiDigits"
2388
2389 pass(Unicode)
2390 U+0030 <> U+06F0 ;
2391 U+0031 <> U+06F1 ;
2392 U+0032 <> U+06F2 ;
2393 U+0033 <> U+06F3 ;

```



```

2394 U+0034 <> U+06F4 ;
2395 U+0035 <> U+06F5 ;
2396 U+0036 <> U+06F6 ;
2397 U+0037 <> U+06F7 ;
2398 U+0038 <> U+06F8 ;
2399 U+0039 <> U+06F9 ;

2400
2401
2402 U+002C <> U+060C ; comma > arabic comma
2403 U+003F <> U+061F ; question mark -> arabic qm
2404 U+003B <> U+061B ; semicolon -> arabic semicolon
2405
2406 ; ligatures from Knuth's original CMR fonts
2407 U+002D U+002D <> U+2013 ; -- -> en dash
2408 U+002D U+002D U+002D <> U+2014 ; --- -> em dash
2409
2410 U+0027 <> U+2019 ; ' -> right single quote
2411 U+0027 U+0027 <> U+201D ; '' -> right double quote
2412 U+0022 > U+201D ; " -> right double quote
2413
2414 U+0060 <> U+2018 ; ` -> left single quote
2415 U+0060 U+0060 <> U+201C ; `` -> left double quote
2416
2417 U+0021 U+0060 <> U+00A1 ; !` -> inverted exclam
2418 U+003F U+0060 <> U+00BF ; ?` -> inverted question
2419
2420 ; additions supported in T1 encoding
2421 U+002C U+002C <> U+201E ; , , -> DOUBLE LOW-9 QUOTATION MARK
2422 U+003C U+003C <> U+00AB ; << -> LEFT POINTING GUILLEMET
2423 U+003E U+003E <> U+00BB ; >> -> RIGHT POINTING GUILLEMET

```

7.45 rapport1-xepersian.def

```

2424 \ProvidesFile{rapport1-xepersian.def}[2010/07/25 v0.1 adaptations for rapport1 class]
2425 \renewcommand*\thepart{\@tartibi\c@part}
2426 \renewcommand*\appendix{\par
2427   \setcounter{chapter}{0}%
2428   \setcounter{section}{0}%
2429   \gdef\@chapapp{\appendixname}%
2430   \gdef\thechapter{\@harfi\c@chapter}}

```

7.46 rapport3-xepersian.def

```

2431 \ProvidesFile{rapport3-xepersian.def}[2010/07/25 v0.2 adaptations for rapport3 class]
2432 \renewcommand*\thepart{\@tartibi\c@part}
2433 \renewcommand*\appendix{\par
2434   \setcounter{chapter}{0}%
2435   \setcounter{section}{0}%
2436   \gdef\@chapapp{\appendixname}%
2437   \gdef\thechapter{\@harfi\c@chapter}}

```



7.47 refrep-xepersian.def

```
2438 \ProvidesFile{refrep-xepersian.def}[2010/07/25 v0.2 adaptations for refrep class]
2439 \renewcommand \thepart {\@tartibi\c@part}
2440 \renewcommand\appendix{\par
2441   \setcounter{chapter}{0}%
2442   \setcounter{section}{0}%
2443   \gdef\@chapapp{\appendixname}%
2444   \gdef\thechapter{\@harfi\c@chapter}
2445 }%end appendix
```

7.48 report-xepersian.def

```
2446 \ProvidesFile{report-xepersian.def}[2010/07/25 v0.2 adaptations for standard report class]
2447 \renewcommand \thepart {\@tartibi\c@part}
2448 \renewcommand\appendix{\par
2449   \setcounter{chapter}{0}%
2450   \setcounter{section}{0}%
2451   \gdef\@chapapp{\appendixname}%
2452   \gdef\thechapter{\@harfi\c@chapter}
2453 }%end appendix
```

7.49 scrartcl-xepersian.def

```
2454 \ProvidesFile{scrartcl-xepersian.def}[2010/07/25 v0.2 adaptations for scrartcl class]
2455 \renewcommand*\thepart{\@tartibi\c@part}
2456 \renewcommand*\appendix{\par%
2457   \setcounter{section}{0}%
2458   \setcounter{subsection}{0}%
2459   \gdef\thesection{\@harfi\c@section}%
2460   \csname appendixmore\endcsname
2461 }
2462 \renewcommand*{\@maybeautodot}[1]{%
2463   \ifx #1\@stop\let\@maybeautodot\relax
2464   \else
2465     \ifx #1\harfi \@autodottrue\fi
2466     \ifx #1\adadi \@autodottrue\fi
2467     \ifx #1\tartibi \@autodottrue\fi
2468     \ifx #1\Alph \@autodottrue\fi
2469     \ifx #1\alph \@autodottrue\fi
2470     \ifx #1\Roman \@autodottrue\fi
2471     \ifx #1\roman \@autodottrue\fi
2472     \ifx #1\@harfi \@autodottrue\fi
2473     \ifx #1\@adadi \@autodottrue\fi
2474     \ifx #1\@tartibi \@autodottrue\fi
2475     \ifx #1\@Alpha \@autodottrue\fi
2476     \ifx #1\@alph \@autodottrue\fi
2477     \ifx #1\@Roman \@autodottrue\fi
2478     \ifx #1\@roman \@autodottrue\fi
2479     \ifx #1\@roman numeral \@autodottrue\fi
2480   \fi
2481 \@@maybeautodot
```



```
2482 }
```

7.50 scrbook-xepersian.def

```
2483 \ProvidesFile{scrbook-xepersian.def}[2010/07/25 v0.2 adaptations for scrbook class]
2484 \renewcommand*\frontmatter{%
2485   \if@twoside\cleardoubleoddpage\else\clearpage\fi
2486   \c@mainmatterfalse\pagenumbering{harfi}%
2487 }
2488 \renewcommand*{\thepart}{\c@tartibi\c@part}
2489 \renewcommand*\appendix{\par%
2490   \setcounter{chapter}{0}%
2491   \setcounter{section}{0}%
2492   \gdef\@chapapp{\appendixname}%
2493   \gdef\thechapter{\c@harfi\c@chapter}%
2494   \csname appendixmore\endcsname
2495 }
2496 \renewcommand*{\@@maybeautodot}[1]{%
2497   \ifx #1\stop\let\@@maybeautodot\relax
2498   \else
2499     \ifx #1\harfi \c@autodottrue\fi
2500     \ifx #1\adadi \c@autodottrue\fi
2501     \ifx #1\tartibi \c@autodottrue\fi
2502     \ifx #1\Alpha \c@autodottrue\fi
2503     \ifx #1\alpha \c@autodottrue\fi
2504     \ifx #1\Roman \c@autodottrue\fi
2505     \ifx #1\roman \c@autodottrue\fi
2506     \ifx #1\@harfi \c@autodottrue\fi
2507     \ifx #1\@adadi \c@autodottrue\fi
2508     \ifx #1\@tartibi \c@autodottrue\fi
2509     \ifx #1\@Alpha \c@autodottrue\fi
2510     \ifx #1\@alpha \c@autodottrue\fi
2511     \ifx #1\@Roman \c@autodottrue\fi
2512     \ifx #1\@roman \c@autodottrue\fi
2513     \ifx #1\@roman numeral \c@autodottrue\fi
2514   \fi
2515   \c@maybeautodot
2516 }
```

7.51 scrreprt-xepersian.def

```
2517 \ProvidesFile{scrreprt-xepersian.def}[2010/07/25 v0.2 adaptations for scrreprt class]
2518 \renewcommand*{\thepart}{\c@tartibi\c@part}
2519 \renewcommand*\appendix{\par%
2520   \setcounter{chapter}{0}%
2521   \setcounter{section}{0}%
2522   \gdef\@chapapp{\appendixname}%
2523   \gdef\thechapter{\c@harfi\c@chapter}%
2524   \csname appendixmore\endcsname
2525 }
2526 \renewcommand*{\@@maybeautodot}[1]{%
```



```

2527   \ifx #1\@stop\let\@@maybeautodot\relax
2528   \else
2529     \ifx #1\harfi \autodottrue\fi
2530     \ifx #1\adadi \autodottrue\fi
2531     \ifx #1\tartibi \autodottrue\fi
2532     \ifx #1\Alpha \autodottrue\fi
2533     \ifx #1\alpha \autodottrue\fi
2534     \ifx #1\Roman \autodottrue\fi
2535     \ifx #1\roman \autodottrue\fi
2536     \ifx #1\@harfi \autodottrue\fi
2537     \ifx #1\@adadi \autodottrue\fi
2538     \ifx #1\@tartibi \autodottrue\fi
2539     \ifx #1\@Alpha \autodottrue\fi
2540     \ifx #1\@alpha \autodottrue\fi
2541     \ifx #1\@Roman \autodottrue\fi
2542     \ifx #1\@roman \autodottrue\fi
2543     \ifx #1\@roman numeral \autodottrue\fi
2544   \fi
2545   \@@maybeautodot
2546 }

```

7.52 soul-xepersian.def

```

2547 \ProvidesFile{soul-xepersian.def}[2015/10/16 v0.1 adaptations for soul package]
2548 \let\SOUL@tt\relax
2549 \newfontface{\SOUL@tt}{Times New Roman}

```

7.53 tkz-linknodes-xepersian.def

```

2550 \ProvidesFile{tkz-linknodes-xepersian.def}[2012/06/13 v0.1 adaptations for tkz-linknodes packa
2551 \renewcommand*{\@SetTab}{%
2552   \let\@alph\@latinalph%
2553   \ifnum \value{C@NumTab}>25\relax%
2554     \setcounter{C@NumTab}{1}%
2555   \else%
2556     \stepcounter{C@NumTab}%
2557   \fi%
2558   \setcounter{C@NumGroup}{0}%
2559 \newcommand*{\PrefixCurrentTab}{\alpha{C@NumTab}}%
2560 \setboolean{B@FirstLink}{true}%
2561 \setboolean{B@NewGroup}{false}%
2562 \setcounter{C@NumGroup}{0}%
2563 \setcounter{C@CurrentGroup}{0}%
2564 \setcounter{NumC@Node}{0}%
2565 \setcounter{NumC@Stop}{0}%
2566 \setcounter{C@NextNode}{0}%
2567 \setcounter{C@CurrentStop}{0}%
2568 \setcounter{C@CurrentNode}{0}%
2569 }%

```

7.54 tocloft-xepersian.def



```

2570 \ProvidesFile{tocloft-xepersian.def}[2010/07/25 v0.1 bilingual captions for tocloft package]
2571 \renewcommand*\cftchapname{\if@RTL else\ chapter\fi}
2572 \renewcommand*\cftsecname{\if@RTL else\ section\fi}
2573 \renewcommand*\cftsubsecname{\if@RTL else\ subsection\fi}
2574 \renewcommand*\cftsubsubsecname{\if@RTL else\ subsubsection\fi}
2575 \renewcommand*\cftparaname{\if@RTL else\ paragraph\fi}
2576 \renewcommand*\cftsubparaname{\if@RTL else\ subparagraph\fi}
2577 \renewcommand*\cftfigname{\if@RTL else\ figure\fi}
2578 \renewcommand*\cftsubfigname{\if@RTL else\ subfigure\fi}
2579 \renewcommand*\cfttabname{\if@RTL else\ table\fi}
2580 \renewcommand*\cftsubtabname{\if@RTL else\ subtable\fi}

```

7.55 xepersian.sty

```

2581 \NeedsTeXFormat{LaTeX2e}
2582 \def\xepersianversion{v17.7}
2583 \def\xepersiandate{2017/02/20}
2584 \ProvidesPackage{xepersian}[\xepersiandate\space \xepersianversion\space
2585 Persian typesetting in XeLaTeX]
2586 \RequirePackage{fontspec}
2587 \RequirePackage{xepersian-persiancal}
2588 \RequirePackage{xepersian-mathsdigtspec}
2589 \RequirePackage{bidi}
2590 \edef\@xepersian@info{*****^J%
2591 * ^J%
2592 * xepersian package (Persian for LaTeX, using XeTeX engine)^J%
2593 * ^J%
2594 * Description: The package supports Persian^J%
2595 * typesetting, using fonts provided in the^J%
2596 * distribution.^J%
2597 * ^J%
2598 * Copyright (c) 2008--2017 Vafa Khalighi^J%
2599 * ^J%
2600 * \xepersianversion, \xepersiandate^J%
2601 * ^J%
2602 * License: LaTeX Project Public License, version^J%
2603 * 1.3c or higher (your choice)^J%
2604 * ^J%
2605 * Location on CTAN: /macros/xetex/latex/xepersian^J%
2606 * ^J%
2607 * Issue tracker: https://github.com/tex-xet/xepersian/issues^J%
2608 * ^J%
2609 * Support: persian-tex@tug.org^J%
2610 *****^J%
2611 \typeout{@xepersian@info}
2612 \edef\xepersian@everyjob{\the\everyjob}
2613 \everyjob{\xepersian@everyjob\typeout{@xepersian@info}}
2614 \edef\@bidi@strip@v@xepersianversion{\expandafter\@gobble\xepersianversion}
2615 \newcommand*\IfxepersianPackageVersionLater}[1]{%
2616   \ifdim\@bidi@strip@v@xepersianversion pt > #1 pt %

```



```

2617     \expandafter\@firstoftwo
2618   \else
2619     \expandafter\@secondoftwo
2620   \fi}
2621 \newcommand*{\IfxepersianPackageVersionBefore}[1]{%
2622   \ifdim\@bidi@strip@v@xepersianversion pt < #1 pt %
2623     \expandafter\@firstoftwo
2624   \else
2625     \expandafter\@secondoftwo
2626   \fi}
2627 \newcommand*{\IfxepersianPackageVersion}[1]{%
2628   \ifdim\@bidi@strip@v@xepersianversion pt = #1 pt %
2629     \expandafter\@firstoftwo
2630   \else
2631     \expandafter\@secondoftwo
2632   \fi}
2633 \def\prq{\`{e}}
2634 \def\plq{\^e}
2635 \def\xepersian@cmds@temp#1{%
2636   \begingroup\expandafter\expandafter\expandafter\endgroup
2637   \expandafter\ifx\csname xepersian@\#1\endcsname\relax
2638     \begingroup
2639       \escapechar=-1 %
2640       \edef\x{\expandafter\meaning\csname#1\endcsname}%
2641       \def\y{\#1}%
2642       \def\z{\#1->}%
2643       \edef\y{\expandafter\z\meaning\y}%
2644     \expandafter\endgroup
2645     \ifx\x\y
2646       \expandafter\def\csname xepersian@\#1\expandafter\endcsname
2647       \expandafter{%
2648         \csname#1\endcsname
2649       }%
2650     \fi
2651   \fi
2652 }%
2653 \xepersian@cmds@temp{shellescape}
2654 \newif\ifwritexviii
2655 \ifnum\xepersian@shellescape=1\relax
2656   \writexviiittrue
2657 \else
2658   \writexviiifalse
2659 \fi
2660 \newfontscript{Parsi}{arab}
2661 \newfontlanguage{Parsi}{FAR}
2662 \ExplSyntaxOn
2663
2664 \DeclareDocumentCommand \settextfont { O{} m O{} }
2665 {
2666   \fontspec_set_family:Nnn \g_xepersian_persianfont_family {Script=Parsi,Language=Parsi,Mappi

```



```

2667 \tl_set_eq:NN \rmdefault \g_xepersian_persianfont_family
2668 \use:x { \exp_not:n { \DeclareRobustCommand \persianfont }
2669 {
2670   \exp_not:N \fontencoding { \l__fontspec_nfss_enc_tl }
2671   \exp_not:N \fontfamily { \g_xepersian_persianfont_family }
2672   \exp_not:N \selectfont
2673 }
2674 }
2675 \str_if_eq_x:nnT {\familydefault} {\rmdefault}
2676 { \tl_set_eq:NN \encodingdefault \l__fontspec_nfss_enc_tl }
2677 \normalfont
2678 \ignorespaces
2679 }
2680
2681 \DeclareDocumentCommand \setlatintextfont { O{} m O{} }
2682 {
2683   \fontspec_set_family:Nnn \g_xepersian_latinfont_family {Mapping=tex-text,#1,#3} {#2}
2684   \use:x { \exp_not:n { \DeclareRobustCommand \latinfont }
2685   {
2686     \exp_not:N \fontencoding { \l__fontspec_nfss_enc_tl }
2687     \exp_not:N \fontfamily { \g_xepersian_latinfont_family }
2688     \exp_not:N \selectfont
2689   }
2690 }
2691 \str_if_eq_x:nnT {\familydefault} {\rmdefault}
2692 { \tl_set_eq:NN \encodingdefault \l__fontspec_nfss_enc_tl }
2693 \normalfont
2694 \ignorespaces
2695 }
2696
2697 \tl_set_eq:NN \setlatinsansfont \setsansfont
2698 \tl_set_eq:NN \setlatinmonofont \setmonofont
2699
2700 \DeclareDocumentCommand \defpersianfont { m O{} m O{} }
2701 {
2702   \fontspec_set_family:cnn { g_xepersian_ \cs_to_str:N #1 _family } {Script=Parsi,Language=Pa
2703   \use:x
2704   {
2705     \exp_not:N \ DeclareRobustCommand \exp_not:N #1
2706     {
2707       \exp_not:N \fontfamily { \use:c {g_xepersian_ \cs_to_str:N #1 _family} }
2708       \exp_not:N \fontencoding { \l__fontspec_nfss_enc_tl }
2709       \exp_not:N \selectfont
2710     }
2711   }
2712 }
2713
2714 \DeclareDocumentCommand \deflatinfont { m O{} m O{} }
2715 {
2716   \fontspec_set_family:cnn { g_xepersian_ \cs_to_str:N #1 _family } {Mapping=tex-text,#2,#4}

```



```

2717 \use:x
2718 {
2719   \exp_not:N \DeclareRobustCommand \exp_not:N #1
2720   {
2721     \exp_not:N \fontfamily { \use:c { g_xepersian_ \cs_to_str:N #1 _family} }
2722     \exp_not:N \fontencoding { \l_fonts_spec_nfss_enc_tl }
2723     \exp_not:N \selectfont
2724   }
2725 }
2726 }
2727
2728 \newcommand\persiansfdefault{}
2729 \newcommand\persianttdefault{}
2730 \newcommand\iranicdefault{}
2731 \newcommand\navardefault{}
2732 \newcommand\pookdefault{}
2733 \newcommand\sayehdefault{}
2734 \ DeclareRobustCommand\persiansffamily
2735   {\not@math@alphabet\persiansffamily\mathpersiansf
2736     \fontfamily\persiansfdefault\selectfont}
2737 \ DeclareRobustCommand\persianttfamily
2738   {\not@math@alphabet\persianttfamily\mathpersiantt
2739     \fontfamily\persianttdefault\selectfont}
2740 \ DeclareRobustCommand\iranicfamily
2741   {\not@math@alphabet\iranicfamily\mathiranic
2742     \fontfamily\iranicdefault\selectfont}
2743 \ DeclareRobustCommand\navarfamly
2744   {\not@math@alphabet\navarfamly\mathnavar
2745     \fontfamily\navardefault\selectfont}
2746 \ DeclareRobustCommand\pookfamily
2747   {\not@math@alphabet\pookfamily\mathpook
2748     \fontfamily\pookdefault\selectfont}
2749 \ DeclareRobustCommand\sayehfamily
2750   {\not@math@alphabet\sayehfamily\mathsayeh
2751     \fontfamily\sayehdefault\selectfont}
2752 \ DeclareTextFontCommand{\textpersiansf}{\persiansffamily}
2753 \ DeclareTextFontCommand{\textpersiantt}{\persianttfamily}
2754 \ DeclareTextFontCommand{\textiranic}{\iranicfamily}
2755 \ DeclareTextFontCommand{\textnavar}{\navarfamly}
2756 \ DeclareTextFontCommand{\textpook}{\pookfamily}
2757 \ DeclareTextFontCommand{\textsayeh}{\sayehfamily}
2758
2759 \ DeclareDocumentCommand \setpersiansansfont { O{} m O{} } {
2760   \fontspec_set_family:Nnn \g_xepersian_persiansffamily {Script=Parsi,Language=Parsi,
2761   \tl_set_eq:NN \persiansfdefault \g_xepersian_persiansffamily
2762   \use:x { \exp_not:n { \DeclareRobustCommand \persiansffamily } }
2763   {
2764     \exp_not:N \fontencoding { \l_fonts_spec_nfss_enc_tl }
2765     \exp_not:N \fontfamily { \g_xepersian_persiansffamily }

```



```

2767     \exp_not:N \selectfont
2768   }
2769 }
2770 \str_if_eq_x:nnt {\familydefault} {\persiansfdefault}
2771   { \tl_set_eq:NN \encodingdefault \l_fonts_spec_nfss_enc_tl }
2772 \normalfont
2773 \ignorespaces
2774 }
2775
2776 \DeclareDocumentCommand \setpersianmonofont { O{} m O{} }
2777 {
2778   \fontspec_set_family:Nnn \g_xepersian_persianttfamily_family {Script=Parsi,Language=Parsi,Mappi
2779   \tl_set_eq:NN \persianttdefault \g_xepersian_persianttfamily_family
2780   \use:x { \exp_not:n { \DeclareRobustCommand \persianttfamily }
2781   {
2782     \exp_not:N \fontencoding { \l_fonts_spec_nfss_enc_tl }
2783     \exp_not:N \fontfamily { \g_xepersian_persianttfamily_family }
2784     \exp_not:N \selectfont
2785   }
2786 }
2787 \str_if_eq_x:nnt {\familydefault} {\persianttdefault}
2788   { \tl_set_eq:NN \encodingdefault \l_fonts_spec_nfss_enc_tl }
2789 \normalfont
2790 \ignorespaces
2791 }
2792
2793 \DeclareDocumentCommand \setnavarfont { O{} m O{} }
2794 {
2795   \fontspec_set_family:Nnn \g_xepersian_navarfamily_family {Script=Parsi,Language=Parsi,Mappi
2796   \tl_set_eq:NN \navardefault \g_xepersian_navarfamily_family
2797   \use:x { \exp_not:n { \DeclareRobustCommand \navarfam
2798   {
2799     \exp_not:N \fontencoding { \l_fonts_spec_nfss_enc_tl }
2800     \exp_not:N \fontfamily { \g_xepersian_navarfamily_family }
2801     \exp_not:N \selectfont
2802   }
2803 }
2804 \str_if_eq_x:nnt {\familydefault} {\navardefault}
2805   { \tl_set_eq:NN \encodingdefault \l_fonts_spec_nfss_enc_tl }
2806 \normalfont
2807 \ignorespaces
2808 }
2809
2810 \DeclareDocumentCommand \setpookfont { O{} m O{} }
2811 {
2812   \fontspec_set_family:Nnn \g_xepersian_pookfamily_family {Script=Parsi,Language=Parsi,Mappi
2813   \tl_set_eq:NN \pookdefault \g_xepersian_pookfamily_family
2814   \use:x { \exp_not:n { \DeclareRobustCommand \pookfamily }
2815   {
2816     \exp_not:N \fontencoding { \l_fonts_spec_nfss_enc_tl }

```



```

2817     \exp_not:N \fontfamily { \g_xepersian_pookfamily_family }
2818     \exp_not:N \selectfont
2819   }
2820 }
2821 \str_if_eq_x:nNt {\familydefault} {\pookdefault}
2822   { \tl_set_eq:NN \encodingdefault \l_fontsname_nfss_enc_tl }
2823 \normalfont
2824 \ignorespaces
2825 }
2826
2827 \DeclareDocumentCommand \setsayehfont { O{} m O{} }
2828 {
2829   \fontspec_set_family:Nnn \g_xepersian_sayehfamily_family {Script=Parsi,Language=Parsi,Mappi
2830   \tl_set_eq:NN \sayehdefault \g_xepersian_sayehfamily_family
2831   \use:x { \exp_not:n { \DeclareRobustCommand \sayehfamily }
2832   {
2833     \exp_not:N \fontencoding { \l_fontsname_nfss_enc_tl }
2834     \exp_not:N \fontfamily { \g_xepersian_sayehfamily_family }
2835     \exp_not:N \selectfont
2836   }
2837 }
2838 \str_if_eq_x:nNt {\familydefault} {\sayehdefault}
2839   { \tl_set_eq:NN \encodingdefault \l_fontsname_nfss_enc_tl }
2840 \normalfont
2841 \ignorespaces
2842 }
2843
2844 \DeclareDocumentCommand \setiranicfont { O{} m O{} }
2845 {
2846   \fontspec_set_family:Nnn \g_xepersian_iranicfamily_family {Script=Parsi,Language=Parsi,Mappi
2847   \tl_set_eq:NN \iranicdefault \g_xepersian_iranicfamily_family
2848   \use:x { \exp_not:n { \DeclareRobustCommand \iranicfamily }
2849   {
2850     \exp_not:N \fontencoding { \l_fontsname_nfss_enc_tl }
2851     \exp_not:N \fontfamily { \g_xepersian_iranicfamily_family }
2852     \exp_not:N \selectfont
2853   }
2854 }
2855 \str_if_eq_x:nNt {\familydefault} {\iranicdefault}
2856   { \tl_set_eq:NN \encodingdefault \l_fontsname_nfss_enc_tl }
2857 \normalfont
2858 \ignorespaces
2859 }
2860
2861
2862 \ExplSyntaxOff
2863 \def\resetlatinfont{%
2864 @nonlatinfalse%
2865 \let\normalfont\latinfont%
2866 \let\reset@font\normalfont%

```



```

2867 \latinfont}
2868 \def\setpersianfont{%
2869 \@nonlatintrue%
2870 \let\normalfont\persianfont%
2871 \let\reset@font\normalfont%
2872 \persianfont}
2873 \bidi@newrobustcmd*\{\lr}[1]{\LRE{\resetlatinfont#1}}
2874 \bidi@newrobustcmd*\{\rl}[1]{\RLE{\setpersianfont#1}}
2875 \def\latin{\LTR\LatinAlphs\@RTL@footnotefalse\resetlatinfont}
2876 \def\endlatin{\endLTR}
2877 \def\persian{\RTL\PersianAlphs\@RTL@footnotetrue\setpersianfont}
2878 \def\endpersian{\endRTL}
2879 \newenvironment{latinitems}{\begin{LTRitems}\LatinAlphs\@RTL@footnotefalse\resetlatinfont}{\end{LTRitems}}
2880 \newenvironment{parsiitems}{\begin{RTLitems}\PersianAlphs\@RTL@footnotetrue\setpersianfont}{\end{RTLitems}}
2881 \let\originaltoday=\today
2882 \def\latintoday{\lr{\originaltoday}}
2883 \def\today{\rl{\persiantoday}}
2884 \def \OLTRmarginparreset {%
2885     \reset@font
2886     \resetlatinfont
2887     \normalsize
2888     \minipagetrue
2889     \everypar{\minipagefalse\everypar{}{\beginL}}%
2890 }
2891 \DeclareRobustCommand\Latincite{%
2892   \@ifnextchar [{\@tempswatru\@Latincitex}{\@tempswafal\@Latincitex[]]}
2893 \def\@Latincitex[#1]#2{\leavevmode
2894   \let\@citea\empty
2895   \@citef{\lr{\@for\@citeb:=#2\do
2896     {\@citea\def\@citea{,\penalty\@m\ }%
2897      \edef\@citeb{\expandafter\firstofone\@citeb\@empty}%
2898      \if@filesw\immediate\write\auxout{\string\citation{\@citeb}}\fi
2899      \ifundefined{b@\@citeb}{\hbox{\reset@font\bfseries ?}}%
2900      \refundefinedtrue
2901      \@latex@warning
2902        {Citation `@\@citeb' on page \thepage\space undefined}%
2903      {\@cite@ofmt{\csname b@\@citeb\endcsname}}}}}{#1}}
2904
2905 \renewcommand*{\bidi@font@@outputpage}{\if@RTLmain\setpersianfont\else\resetlatinfont\fi}
2906
2907 \newcount\xepersian@tcl
2908 \newdimen\xepersian@ilg
2909 \newdimen\xepersian@strutilg
2910 \newbox\xepersian@wbox
2911 \newcommand*\computeautoilg{%
2912   \xepersian@tcl=1536\xepersian@ilg=0pt\xepersian@strutilg=0pt
2913   \loop\setbox\xepersian@wbox=\hbox{\char\xepersian@tcl}
2914   \ifdim\ht\xepersian@wbox>\xepersian@ilg\xepersian@ilg=\ht\xepersian@wbox\fi
2915   \ifdim\dp\xepersian@wbox>\xepersian@strutilg\xepersian@strutilg=\dp\xepersian@wbox\fi
2916   \advance\xepersian@tcl by 1
}

```



```

2917 \ifnum\xepersian@tcl<1792\repeat
2918 \advance\xepersian@strutilg by \xepersian@ilg
2919 \ifdim\xepersian@strutilg>\baselineskip
2920   \PackageInfo{xepersian}{character with height+depth greater than current baselineskip found}
2921   \PackageInfo{xepersian}{baselineskip changed to that height+depth!}
2922   \linespread{\strip@pt\dimexpr 1pt * \xepersian@strutilg / \baselineskip\relax}
2923   \selectfont
2924 \fi
2925 }
2926
2927 \newcommand\twocolumnstableofcontents{%
2928 \if@bidi\csundef{multi@column@out}{%
2929 \PackageError{xepersian}{Oops! you should load multicol package before xepersian package for b%
2930   \begin{multicols}{2}[\section*{\contentsname}]%
2931     \small
2932     @starttoc{toc}%
2933   \end{multicols}}}
2934 \bidi@newrobustcmd*\XePersian{\leavevmode$\smash{\hbox{X}\lower.5ex
2935   \hbox{\kern-.125em\bidi@reflect@box{E}} Persian}}$}
2936 \def\figurename{\if@RTL else\ Figure\fi}
2937 \def\tablename{\if@RTL else\ Table\fi}
2938 \def\contentsname{\if@RTL else\ Contents\fi}
2939 \def\listfigurename{\if@RTL else\ List of Figures\fi}
2940 \def\listtablename{\if@RTL else\ List of Tables\fi}
2941 \def\appendixname{\if@RTL else\ Appendix\fi}
2942 \def\indexname{\if@RTL else\ Index\fi}
2943 \def\refname{\if@RTL else\ References\fi}
2944 \def\abstractname{\if@RTL else\ Abstract\fi}
2945 \def\partname{\if@RTL else\ Part\fi}
2946 \def\datename{\if@RTL else\ Date:\fi}
2947 \def\@and{\if@RTL else\ and\fi}
2948 \def\bibname{\if@RTL else\ Bibliography\fi}
2949 \def\chaptername{\if@RTL else\ Chapter\fi}
2950 \def\ccname{\if@RTL else\ cc\fi}
2951 \def\enclname{\if@RTL else\ encl\fi}
2952 \def\pagename{\if@RTL else\ Page\fi}
2953 \def\headtoname{\if@RTL else\ To\fi}
2954 \def\proofname{\if@RTL else\ Proof\fi}
2955 \def\@Abjad#1{%
2956   \ifcase#1\or \or\ or\ or\ or\ %
2957   \or \or\ or\ or\ or\ or\ %
2958   \or \or\ or\ or\ or\ or\ %
2959   \or \or\ or\ or\ or\ or\ %
2960   \or \or\ or\ or\ or\ or\ or\ %
2961   \or \or\ or\ or\ or\ or\ or\ %
2962   \else\@ctrerr\fi}
2963 \def\Abjad#1{\expandafter\@Abjad\csname c@#1\endcsname}
2964 \let\Abjadnumeral\@Abjad
2965 \def\@harfi#1{\ifcase#1\or \or\ or\ or\ or\ or\ or\ %

```



```

2966 or\ or\
2967 or\ or\
2968 \def\harfi#1{\expandafter\charfi\csname c@#1\endcsname}
2969 \let\harfinumeral@\harfi
2970 \newcommand{\adadi}[1]{%
2971 \expandafter\adadi\csname c@#1\endcsname%
2972 }
2973 \newcommand{\@adadi}[1]{%
2974 \xepersian@numberstring{#1}\xepersian@yekaniif{}%}
2975 }
2976 \let\adadinumeral@\adadi%
2977 \def\xepersian@numberoutofrange#1#2{%
2978 \PackageError{xepersian}{The number `#1' is too large %
2979 to be formatted using xepersian}{The largest possible %
2980 number is 999,999,999.}%
2981 }
2982 \def\xepersian@numberstring#1#2#3#4{%
2983 \ifnum\number#1<\@ne%
2984 #3%
2985 \else\ifnum\number#1<1000000000 %
2986 \expandafter\xepersian@adadi\expandafter{\number#1}#2%
2987 \else%
2988 \xepersian@numberoutofrange{#1}{#4}%
2989 \fi\fi%
2990 }
2991 \def\xepersian@adadi#1#2{%
2992 \expandafter\xepersian@@adadi%
2993 \ifcase%
2994 \ifnum#1<10 1%
2995 \else\ifnum#1<100 2%
2996 \else\ifnum#1<\@m 3%
2997 \else\ifnum#1<\@M 4%
2998 \else\ifnum#1<100000 5%
2999 \else\ifnum#1<1000000 6%
3000 \else\ifnum#1<10000000 7%
3001 \else\ifnum#1<100000000 8%
3002 \else9%
3003 \fi\fi\fi\fi\fi\fi %
3004 \or0000000#1% case 1: Add 8 leading zeros
3005 \or0000000#1% case 2: Add 7 leading zeros
3006 \or000000#1% case 3: Add 6 leading zeros
3007 \or00000#1% case 4: Add 5 leading zeros
3008 \or0000#1% case 5: Add 4 leading zeros
3009 \or000#1% case 6: Add 3 leading zeros
3010 \or00#1% case 7: Add 2 leading zeros
3011 \or0#1% case 8: Add 1 leading zero
3012 \or#1% case 9: Add no leading zeros
3013 \or%
3014 \nil#2%
3015 \fi%

```



```

3016 }
3017 \def\xepersian@@adadi#1#2#3#4#5#6#7\or#8@nil#9{%
3018 \ifnum#1#2#3>\z@
3019 \xepersian@milyoongan#1#2#3%
3020 \ifnum#7>\z@\ifnum#4#5#6>\z@\ \ \else\ \ \fi\else\ifnum#4#5#6>\z@\ \ \fi\fi%
3021 \fi%
3022 \ifnum#4#5#6>\z@%
3023 \xepersian@sadgan#4#5#6{#1#2#3}{#4#5}\xepersian@yekani%
3024 \ifnum#4#5#6>\@ne\fi%
3025 %
3026 \ifnum#7>\z@\ \ \fi%
3027 \fi%
3028 \xepersian@sadgan#7{#4#5#6}1#9%
3029 }
3030 \def\xepersian@milyoongan#1#2#3{%
3031 \ifnum#1#2#3=\@ne%
3032 \xepersian@sadgan#1#2#301\xepersian@yekaniii%
3033 %
3034 %
3035 \else%
3036 \xepersian@sadgan#1#2#301\xepersian@yekanii%
3037 %
3038 %
3039 \fi%
3040 }
3041 \def\xepersian@sadgan#1#2#3#4#5#6{%
3042 \ifnum#1>\z@%
3043 \ifnum#4#1>\@ne\xepersian@yekaniv#1\fi%
3044 %
3045 \ifnum#2#3>\z@\ \ \fi%
3046 \fi%
3047 \ifnum#2#3<20%
3048 \ifnum#5#2#3>\@ne#6{#2#3}\fi%
3049 \else%
3050 \xepersian@dahgan#2%
3051 \ifnum#3>\z@\ \ \xepersian@yekani#3\fi%
3052 #60%
3053 \fi%
3054 }
3055 \def\xepersian@yekani#1{%
3056 \ifcase#1\@empty\or\or\ \ \or\ \ \or\ \ \or\ \ \or\ \ \ %
3057 \or\or\ \ \or\ \ \or\ \ \or\ \ \or\ \ \or\ \ \ %
3058 \or\or\ \ \or\ \ \or\ \ \ %
3059 \or\or\ \ \%fi\%
3060 }
3061 \def\xepersian@yekanii#1{%
3062 \ifcase#1\@empty\or \%else\xepersian@yekani{#1}\fi\
3063 }
3064 \def\xepersian@yekaniii#1{%
3065 \ifcase#1\@empty\or \%else\xepersian@yekani{#1}\fi\

```



```

3066 }
3067 \def\xepersian@yekaniv#1{%
3068 \ifcase#1\@empty\or\or\or\or\or\or\or\or\or\ %
3069 \or\or\or\or\%fi\%
3070 }
3071 \def\xepersian@dahgan#1{%
3072 \ifcase#1\or\or\or\or\or\or\or\or\or\ %
3073 \or\or\or\or\or\or\or\or\or\%
3074 \or\%fi\%
3075 }
3076 \newcommand{\tartibi}[1]{%
3077 \expandafter\tartibi\csname c@\#1\endcsname%
3078 }
3079 \newcommand{\@tartibi}[1]{%
3080 \xepersian@numberstring@tartibi{\#1}\xepersian@tartibi{ }{ }%
3081 }
3082 \let\tartibinumeral\tartibi%
3083 \def\xepersian@numberstring@tartibi#1#2#3#4{%
3084 \ifnum\number#1<\@ne%
3085 #3%
3086 \else\ifnum\number#1<1000000000 %
3087 \expandafter\xepersian@adadi@tartibi\expandafter{\number#1}#2%
3088 \else%
3089 \xepersian@numberoutoffrange{\#1}{#4}%
3090 \fi\fi%
3091 }
3092 \def\xepersian@adadi@tartibi#1#2{%
3093 \expandafter\xepersian@@adadi@tartibi%
3094 \ifcase%
3095 \ifnum#1<10 1%
3096 \else\ifnum#1<100 2%
3097 \else\ifnum#1<\@m 3%
3098 \else\ifnum#1<\@M 4%
3099 \else\ifnum#1<100000 5%
3100 \else\ifnum#1<1000000 6%
3101 \else\ifnum#1<10000000 7%
3102 \else\ifnum#1<100000000 8%
3103 \else9%
3104 \fi\fi\fi\fi\fi\fi\fi %
3105 \or0000000#1% case 1: Add 8 leading zeros
3106 \or000000#1% case 2: Add 7 leading zeros
3107 \or00000#1% case 3: Add 6 leading zeros
3108 \or0000#1% case 4: Add 5 leading zeros
3109 \or000#1% case 5: Add 4 leading zeros
3110 \or00#1% case 6: Add 3 leading zeros
3111 \or0#1% case 7: Add 2 leading zeros
3112 \or0#1% case 8: Add 1 leading zero
3113 \or#1% case 9: Add no leading zeros
3114 \or%
3115 \@nil#2%

```



```

3116 \fi%
3117 }
3118 \def\xepersian@@adadi@tartibi#1#2#3#4#5#6#7\or#8@nil#9{%
3119 \ifnum#1#2#3>\z@%
3120 \xepersian@milyoongan@tartibi#1#2#3%
3121 \ifnum#7>\z@\ifnum#4#5#6>\z@\ \ \else\ \ \fi\else\ifnum#4#5#6>\z@\ \ \fi\fi%
3122 \fi%
3123 \ifnum#4#5#6>\z@%
3124 \xepersian@sadgan#4#5#6{#1#2#3}{#4#5}\xepersian@yekani%
3125 \ifnum#4#5#6>\@ne \fi%
3126 %
3127 \ifnum#7>\z@\ \ \fi%
3128 \fi%
3129 \xepersian@sadgan@tartibi#7{#4#5#6}1#9%
3130 }
3131 \def\xepersian@milyoongan@tartibi#1#2#3{%
3132 \ifnum#1#2#3=\@ne%
3133 \xepersian@sadgan@tartibi#1#2#301\xepersian@yekaniii%
3134 %
3135 %
3136 \else%
3137 \xepersian@sadgan#1#2#301\xepersian@yekanii%
3138 %
3139 %
3140 \fi%
3141 }
3142 \def\xepersian@sadgan@tartibi#1#2#3#4#5#6{%
3143 \ifnum#1>\z@%
3144 \ifnum#4#1>\@ne\xepersian@yekaniv#1\fi%
3145 %
3146 \ifnum#2#3>\z@\ \ \fi%
3147 \fi%
3148 \ifnum#2#3<20%
3149 \ifnum#5#2#3>\@ne\ifnum#1#2#3#4#5=10001 %\else#6{#2#3}\fi\fi\%
3150 \else%
3151 \ifnum#2#3=30%
3152 \xepersian@dahgan@tartibi#2%
3153 \else%
3154 \xepersian@dahgan#2%
3155 \fi%
3156 \ifnum#3>\z@\ \ \xepersian@yekanv#3\fi%
3157 #60%
3158 \fi%
3159 }
3160 \def\xepersian@dahgan@tartibi#1{%
3161 \ifcase#1\or\or\or\or\or\ %
3162 \or\or\or\or\or\ %
3163 \or \%fi\%
3164 }
3165 \def\xepersian@tartibi#1{%

```



```

3166 \ifcase#1 \or or\ or\ or\ or\ %
3167 \or or\ or\ or\ or\ or\ %
3168 \or or\ or\ or\ or\ %
3169 \or or\ or\ or\ %
3170 \or or\ or\ %fi\
3171 }
3172 \def\xepersian@yekanv#1{%
3173 \ifcase#1@\empty\or or\ or\ or\ or\ or\ %
3174 \or or\ or\ or\ or\ or\ or\ %
3175 \or or\ or\ or\ or\ %
3176 \or or\ %fi\
3177 }
3178 \providetcommand*\xpg@warning[1]{%
3179   \PackageWarning{XePersian}%
3180   {#1}}
3181 \if@bidi@csundef{@abjad}{%
3182 \def@\abjad#1{%
3183 \ifnum#1>1999 \xpg@warning{Illegal value (#1) for abjad numeral} {#1}
3184 \else
3185   \ifnum#1<\z@\space\xpg@warning{Illegal value (#1) for abjad numeral}%
3186   \else
3187     \ifnum#1<10\expandafter\abj@num@i\number#1%
3188     \else
3189       \ifnum#1<100\expandafter\abj@num@ii\number#1%
3190       \else
3191         \ifnum#1<\m@\expandafter\abj@num@iii\number#1%
3192         \else
3193           \ifnum#1<\M@\expandafter\abj@num@iv\number#1%since #1<2000, we must have 1000
3194           \fi
3195         \fi
3196       \fi
3197     \fi
3198   \fi
3199 \fi
3200 }
3201 \def\abjad#1{\expandafter@\abjad\csname c@#1\endcsname}
3202 \let\abjadnumeral@\abjad
3203 \def\abjad@zero{%
3204 \def\abj@num@i#1{%
3205   \ifcase#1\or or\ or\ or\ %
3206     \or or\ or\ or\ or\ fi\%
3207   \ifnum#1=\z@\abjad@zero\fi}
3208 \def\abj@num@ii#1{%
3209   \ifcase#1\or or\ or\ or\ or\ %
3210     \or or\ or\ or\ or\ fi\%
3211   \ifnum#1=\z@\fi\abj@num@i}
3212 \def\abj@num@iii#1{%
3213   \ifcase#1\or or\ or\ or\ or\ %
3214     \or or\ or\ or\ or\ fi\%
3215   \ifnum#1=\z@\fi\abj@num@ii}

```



```

3216 \def\abj@num@iv#1{%
3217   \ifcase#1\or \fi\
3218   \ifnum#1=\z@\fi\abj@num@iii}%
3219 }{}%
3220 \let\@latinalph\@alph%
3221 \let\@latinAlph\@Alph%
3222 \def\LatinAlphs{%
3223   \let\@alph\@latinalph%
3224   \let\@Alph\@latinAlph%
3225 }%
3226 \bidi@AfterEndPreamble{%
3227 \if@bidi@csundef{persianfont}{%
3228 \PackageError{xepersian}{You have not specified any font\MessageBreak
3229 for the main Persian text}{Use '\settextfont' to load a font.}%
3230 }{}%
3231 \@ifdefinitionfileloaded{loadingorder-xetex-bidi}{\input{loadingorder-xepersian.def}}{}%
3232 \@ifdefinitionfileloaded{footnote-xetex-bidi}{\input{footnote-xepersian.def}}{}%
3233 \@ifpackageloaded{appendix}{\input{appendix-xepersian.def}}{}%
3234 \@ifpackageloaded{listings}{\input{listings-xepersian.def}}{}%
3235 \@ifpackageloaded{algorithmic}{\input{algorithmic-xepersian.def}}{}%
3236 \@ifpackageloaded{algorithm}{\input{algorithm-xepersian.def}}{}%
3237 \@ifpackageloaded{backref}{\input{backref-xepersian.def}}{}%
3238 \@ifpackageloaded{flowfram}{\input{flowfram-xepersian.def}}{}%
3239 \@ifpackageloaded{biditufte sidenote}{\input{biditufte sidenote-xepersian.def}}{}%
3240 \@ifpackageloaded{breqn}{\input{breqn-xepersian.def}}{}%
3241 \@ifpackageloaded{enumerate}{\input{enumerate-xepersian.def}}{}%
3242 \@ifpackageloaded{framed}{\input{framed-xepersian.def}}{}%
3243 \@ifpackageloaded{glossaries}{\input{glossaries-xepersian.def}}{}%
3244 \@ifpackageloaded{hyperref}{\input{hyperref-xepersian.def}}{}%
3245 \@ifpackageloaded{minitoc}{\input{minitoc-xepersian.def}}{}%
3246 \@ifpackageloaded{natbib}{\input{natbib-xepersian.def}}{}%
3247 \@ifpackageloaded{soul}{\input{soul-xepersian.def}}{}%
3248 \@ifpackageloaded{tkz-linknodes}{\input{tkz-linknodes-xepersian.def}}{}%
3249 \@ifpackageloaded{tocloft}{\@ifclassloaded{memoir}{}{\input{tocloft-xepersian.def}}}{%
3250 \@ifclassloaded{article}{\input{article-xepersian.def}}{}%
3251 \@ifclassloaded{extarticle}{\input{extarticle-xepersian.def}}{}%
3252 \@ifclassloaded{artikel1}{\input{artikel1-xepersian.def}}{}%
3253 \@ifclassloaded{artikel2}{\input{artikel2-xepersian.def}}{}%
3254 \@ifclassloaded{artikel3}{\input{artikel3-xepersian.def}}{}%
3255 \@ifclassloaded{amsart}{\input{amsart-xepersian.def}}{}%
3256 \@ifclassloaded{bidimoderncv}{\input{bidimoderncv-xepersian.def}}{}%
3257 \@ifclassloaded{report}{\input{report-xepersian.def}}{}%
3258 \@ifclassloaded{extreport}{\input{extreport-xepersian.def}}{}%
3259 \@ifclassloaded{rapport1}{\input{rapport1-xepersian.def}}{}%
3260 \@ifclassloaded{rapport3}{\input{rapport3-xepersian.def}}{}%
3261 \@ifclassloaded{scrartcl}{\input{scrartcl-xepersian.def}}{}%
3262 \@ifclassloaded{scrbook}{\input{scrbook-xepersian.def}}{}%
3263 \@ifclassloaded{scrreprt}{\input{scrreprt-xepersian.def}}{}%
3264 \@ifclassloaded{amsbook}{\input{amsbook-xepersian.def}}{}%
3265 \@ifclassloaded{boek3}{\input{boek3-xepersian.def}}{}%

```



```

3266 \@ifclassloaded{boek}{\input{boek-xepersian.def}}{}
3267 \@ifclassloaded{bookest}{\input{bookest-xepersian.def}}{}
3268 \@ifclassloaded{extbook}{\input{extbook-xepersian.def}}{}
3269 \@ifclassloaded{book}{\input{book-xepersian.def}}{}
3270 \@ifclassloaded{refrep}{\input{refrep-xepersian.def}}{}
3271 \@ifclassloaded{memoir}{\input{memoir-xepersian.def}}{}
3272 \@ifclassloaded{imsproc}{\input{imsproc-xepersian.def}}{}
3273 \define@choicekey{xepersian.sty}{mathdigits}[\xepersian@tempa\xepersian@tempb]{automatic,defau
3274   \ifcase\xepersian@tempb\relax
3275     \AutoMathsDigits
3276   \or
3277     \DefaultMathsDigits
3278   \or
3279     \PersianMathsDigits
3280   \fi}
3281 \define@choicekey{xepersian.sty}{RTLdocument}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{
3282   \ifcase\xepersian@tempb\relax
3283     \RTLtrue
3284   \or
3285     \RTLfalse
3286   \fi}
3287
3288 \define@choicekey{xepersian.sty}{documentdirection}[\xepersian@tempa\xepersian@tempb]{righttol
3289   \ifcase\xepersian@tempb\relax
3290     \RTLtrue
3291   \or
3292     \RTLfalse
3293   \fi}
3294
3295
3296 \define@choicekey{xepersian.sty}{tabledirection}[\xepersian@tempa\xepersian@tempb]{righttopleft
3297   \ifcase\xepersian@tempb\relax
3298     \RTLtabtrue
3299   \or
3300     \RTLtabfalse
3301   \fi}
3302
3303 \define@choicekey{xepersian.sty}{script}[\xepersian@tempa\xepersian@tempb]{latin,nonlatin}[lat
3304   \ifcase\xepersian@tempb\relax
3305     \nonlatinfalse
3306   \or
3307     \nonlatintrue
3308   \fi}
3309
3310 \define@choicekey{xepersian.sty}{rldocument}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{
3311   \ifcase\xepersian@tempb\relax
3312     \RTLtrue
3313   \or
3314     \RTLfalse
3315   \fi}

```



```

3316 \define@choicekey{xepersian.sty}{footnoterule}[\xepersian@tempa\xepersian@tempb]{automatic,lef
3317   \ifcase\xepersian@tempb\relax
3318     \autofootnoterule
3319   \or
3320     \leftfootnoterule
3321   \or
3322     \rightfootnoterule
3323   \or
3324     \SplitFootnoteRule
3325   \or
3326     \textwidthfootnoterule
3327   \fi}
3328 \define@choicekey{xepersian.sty}{footnotedirection}[\xepersian@tempa\xepersian@tempb]{righttol
3329   \ifcase\xepersian@tempb\relax
3330     \@RTL@footnotetrue
3331   \or
3332     \@RTL@footnotefalse
3333   \fi}
3334 \define@choicekey{xepersian.sty}{debugfootnotedirection}[\xepersian@tempa\xepersian@tempb]{on,
3335   \ifcase\xepersian@tempb\relax
3336     \footdir@debugtrue
3337   \or
3338     \footdir@debugfalse
3339   \fi}
3340 \define@choicekey{xepersian.sty}{Kashida}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3341   \ifcase\xepersian@tempb\relax
3342     \input{kashida-xepersian.def}
3343   \fi}
3344 \define@choicekey{xepersian.sty}{localise}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3345   \ifcase\xepersian@tempb\relax
3346     \input{localise-xepersian.def}
3347   \fi}
3348 \define@choicekey{xepersian.sty}{extrafootnotefeatures}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3349   \ifcase\xepersian@tempb\relax
3350     \@extrafootnotefeaturestrue
3351   \or
3352     \@extrafootnotefeaturesfalse
3353   \fi}
3354 \define@choicekey{xepersian.sty}{quickindex}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3355   \ifcase\xepersian@tempb\relax
3356     \PackageWarning{xepersian}{Obsolete option}%
3357     \ifwritexviii%
3358       \@ifclassloaded{memoir}{\PackageError{xepersian}{This feature does not yet work with th
3359         \renewcommand{\printindex}{\newpage%
3360           \immediate\closeout\@indexfile
3361           \immediate\write18{xindy -L persian-variant2 -C utf8 -M texindy -M page-ranges \jobname.
3362           \@input{\jobname.ind}}%
3363         \else
3364           \PackageError{xepersian}{"shell escape" (or "write18") is not enabled. You need to run "
3365         \fi

```



```

3366  \fi}
3367 \define@choicekey{xepersian.sty}{quickindex-variant1}[\xepersian@tempa\xepersian@tempb]{on,off}
3368  \ifcase\xepersian@tempb\relax
3369    \ifwritexviii%
3370      \@ifclassloaded{memoir}{\PackageError{xepersian}{This feature does not yet work with the memoir class}}
3371      \renewcommand{\printindex}{\newpage%
3372        \immediate\closeout\@indexfile
3373        \immediate\write18{xindy -L persian-variant1 -C utf8 -M texindy -M page-ranges \jobname.ind}
3374      \@input{\jobname.ind}}%
3375    \else
3376      \PackageError{xepersian}{"shell escape" (or "write18") is not enabled. You need to run}
3377      \fi
3378  \fi}
3379 \define@choicekey{xepersian.sty}{quickindex-variant2}[\xepersian@tempa\xepersian@tempb]{on,off}
3380  \ifcase\xepersian@tempb\relax
3381    \ifwritexviii%
3382      \@ifclassloaded{memoir}{\PackageError{xepersian}{This feature does not yet work with the memoir class}}
3383      \renewcommand{\printindex}{\newpage%
3384        \immediate\closeout\@indexfile
3385        \immediate\write18{xindy -L persian-variant2 -C utf8 -M texindy -M page-ranges \jobname.ind}
3386      \@input{\jobname.ind}}%
3387    \else
3388      \PackageError{xepersian}{"shell escape" (or "write18") is not enabled. You need to run}
3389      \fi
3390  \fi}
3391 \define@choicekey{xepersian.sty}{abjadvariant}[\xepersian@tempa\xepersian@tempb]{one,two}{%
3392  \ifcase\xepersian@tempb\relax
3393    \def\PersianAlphs{%
3394      \let\@alph\@abjad%
3395      \let\@Alpha\@Abjad%
3396    }
3397  \or
3398    \def\PersianAlphs{%
3399      \let\@alph\@Abjad%
3400      \let\@Alpha\@Abjad%
3401    }
3402  \fi}
3403 \DeclareOptionX{defaultlatinfontfeatures}{%
3404 \defaultfontfeatures
3405 [\latinfont]
3406 {#1}
3407 }
3408 \ExecuteOptionsX{%
3409   documentdirection=righttoleft,
3410   tabledirection=righttoleft,
3411   script=nonlatin,
3412   footnotedirection=righttoleft,
3413   footnoterule=automatic,
3414   abjadvariant=two

```



```

3416 }
3417 \ProcessOptionsX
3418
3419 \if@extrafootnotefeatures
3420   \input{extrafootnotefeatures-xetex-bidi.def}
3421   \input{extrafootnotefeatures-xepersian.def}
3422 \fi
3423
3424 \setlatintextfont[ExternalLocation,BoldFont={lmroman10-bold},BoldItalicFont={lmroman10-bolditalic}]
3425 \PersianAlphs

```

7.56 xepersian-magazine.cls

```

3427 \NeedsTeXFormat{LaTeX2e}
3428 \ProvidesClass{xepersian-magazine}[2010/07/25 v0.2 Typesetting Persian magazines in XeLaTeX]
3429 \RequirePackage{ifthen}
3430 \newlength{\xepersian@imgsize}
3431 \newlength{\xepersian@coltitlesize}
3432 \newlength{\xepersian@pageneed}
3433 \newlength{\xepersian@pageleft}
3434 \newlength{\xepersian@indexwidth}
3435 \newcommand{\xepersian@ncolumns}{0}
3436 \newlength{\columnlines}
3437 \setlength{\columnlines}{0 pt} % no lines by default
3438 \newboolean{xepersian@hyphenatedtitles}
3439 \setboolean{xepersian@hyphenatedtitles}{true}
3440 \newboolean{xepersian@ninepoints}
3441 \setboolean{xepersian@ninepoints}{false}
3442 \newboolean{xepersian@showgrid}
3443 \setboolean{xepersian@showgrid}{false}
3444 \newboolean{xepersian@a3paper}
3445 \setboolean{xepersian@a3paper}{false}
3446 \newboolean{xepersian@insidefrontpage}
3447 \setboolean{xepersian@insidefrontpage}{false}
3448 \newboolean{xepersian@insideweather}
3449 \setboolean{xepersian@insideweather}{false}
3450 \newboolean{xepersian@insideindex}
3451 \setboolean{xepersian@insideindex}{false}
3452 \newcount\xepersian@gridrows
3453 \newcount\xepersian@gridcolumns
3454 \xepersian@gridrows=40
3455 \xepersian@gridcolumns=50
3456 \newcount\minraggedcols
3457 \minraggedcols=5
3458 \DeclareOption{10pt}{\PassOptionsToClass{10pt}{article}}
3459 \DeclareOption{11pt}{\PassOptionsToClass{11pt}{article}}
3460 \DeclareOption{12pt}{\PassOptionsToClass{12pt}{article}}
3461 \DeclareOption{twocolumn}%
3462 {\ClassWarning{xepersian-magazine}{Option 'twocolumn' not available for xepersian-magazine.}}

```



```

3463 \DeclareOption{notitlepage}%
3464 {\ClassWarning{xepersian-magazine}{Option 'notitlepage' not available for xepersian-magazine.}}
3465 \DeclareOption{twoside}%
3466 {\ClassWarning{xepersian-magazine}{Option 'twoside' not available for xepersian-magazine.}}
3467 \DeclareOption{9pt}{\setboolean{xepersian@ninepoints}{true}}
3468 \DeclareOption{hyphenatedtitles}{\setboolean{xepersian@hyphenatedtitles}{false}}
3469 \DeclareOption{columnlines}{\setlength{\columnlines}{0.1 pt}}
3470 \DeclareOption{showgrid}{\setboolean{xepersian@showgrid}{true}}
3471 \DeclareOption{a3paper}{\setboolean{xepersian@a3paper}{true}}
3472 \ProcessOptions\relax
3473 \LoadClass[10pt, onecolumn, titlepage, a4paper]{article}
3474 \RequirePackage{ifxetex}
3475 \RequirePackage{multido}
3476 \RequirePackage{datetime}
3477 \RequirePackage{multicol}
3478 \RequirePackage{fancyhdr}
3479 \RequirePackage{fancybox}
3480 \ifthenelse{\boolean{xepersian@a3paper}}{%
3481 \RequirePackage[a3paper,headsep=0.5cm,vmargin={2cm,2cm},hmargin={1.5cm,1.5cm}]{geometry}}
3482 }{
3483 \RequirePackage[headsep=0.5cm,vmargin={2cm,2cm},hmargin={1.5cm,1.5cm}]{geometry}
3484 }
3485 \RequirePackage[absolute]{textpos} % absoulte positioning
3486 \RequirePackage{hyphenat} % when hyphenate
3487 \RequirePackage{lastpage} % to know the last page number
3488 \RequirePackage{setspace} % set space between lines
3489 \RequirePackage{ragged2e}
3490 \newcommand{\raggedFormat}{\RaggedLeft}
3491 \AtEndOfClass{\xepersianInit}
3492 \ifthenelse{\boolean{xepersian@showgrid}}{%
3493 \AtBeginDocument{
3494 \grid[show]{\xepersian@gridrows}{\xepersian@gridcolumns}}
3495 \advance\minraggedcols by -1
3496 }{%
3497 \AtBeginDocument{
3498 \grid[]{\xepersian@gridrows}{\xepersian@gridcolumns}}
3499 \advance\minraggedcols by -1
3500 }
3501 \ifthenelse{\boolean{xepersian@ninepoints}}{%
3502 \renewcommand{\normalsize}{%
3503 \setfontsize{\normalsize}{9pt}{10pt}%
3504 \setlength{\abovedisplayskip}{5pt plus 1pt minus .5pt}%
3505 \setlength{\belowdisplayskip}{\abovedisplayskip}%
3506 \setlength{\abovedisplayshortskip}{3pt plus 1pt minus 2pt}%
3507 \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}%
3508
3509 \renewcommand{\tiny}{\setfontsize{\tiny}{5pt}{6pt}}%
3510
3511 \renewcommand{\scriptsize}{\setfontsize{\scriptsize}{7pt}{8pt}}%
3512

```



```

3513 \renewcommand{\small}{%
3514   \@setfontsize{\small}{8pt}{9pt}%
3515   \setlength{\abovedisplayskip}{4pt plus 1pt minus 1pt}%
3516   \setlength{\belowdisplayskip}{\abovedisplayskip}%
3517   \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
3518   \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}%
3519 }
3520 \renewcommand{\footnotesize}{%
3521   \@setfontsize{\footnotesize}{8pt}{9pt}%
3522   \setlength{\abovedisplayskip}{4pt plus 1pt minus .5pt}%
3523   \setlength{\belowdisplayskip}{\abovedisplayskip}%
3524   \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
3525   \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}%
3526 }
3527 \renewcommand{\large}{\@setfontsize{\large}{11pt}{13pt}}
3528 \renewcommand{\Large}{\@setfontsize{\Large}{14pt}{18pt}}
3529 \renewcommand{\LARGE}{\@setfontsize{\LARGE}{18pt}{20pt}}
3530 \renewcommand{\huge}{\@setfontsize{\huge}{20pt}{25pt}}
3531 \renewcommand{\Huge}{\@setfontsize{\Huge}{25pt}{30pt}}
3532 }{%
3533 \def\customwwwTxt#1{\gdef\@customwwwTxt{\lr{#1}}}
3534 \newcommand{\xepersian@wwwFormat}{\sffamily}
3535 \newcommand{\xepersian@www}{%
3536 \raisebox{-3pt}{\xepersian@wwwFormat\@customwwwTxt}}
3537 }
3538 \newcommand{\xepersian@edition}{%
3539 \newcommand{\editionFormat}{\large\bfseries\texttt}
3540 \newcommand{\xepersian@editionLogo}{%
3541 \raisebox{-3pt}{%
3542 {\editionFormat\xepersian@edition}}%
3543 }%
3544 }
3545 \newcommand{\indexFormat}{\large\bfseries}
3546 \newcommand{\xepersian@indexFrameTitle}[1]{%
3547 {\begin{flushright}{\indexFormat #1}\end{flushright}}%
3548 }
3549 \newcommand{\indexEntryFormat}{\normalsize}
3550 \newcommand{\xepersian@indexEntry}[1]{%
3551 {\begin{minipage}{13\TPHorizModule}%
3552 \indexFormat\noindent\ignorespaces{#1}}%
3553 \end{minipage}}
3554 \newcommand{\indexEntrySeparator}{\rule{\xepersian@indexwidth}{.1pt}}
3555 \newcommand{\indexEntryPageTxt}{%
3556 \newcommand{\indexEntryPageFormat}{\footnotesize}
3557 {\indexEntryPageFormat{\indexEntryPage{}~#1}}%
3558 }
3559 \newcommand{\headDateFormat}{}
3560 \newcommand{\xepersian@headDateTime}{%
3561 \headDateFormat\date\hspace{5pt}\$\\parallel\$\\hspace{5pt}%
3562 \currenttime %

```



```

3563 }
3564 \newcommand{\weatherFormat}{\bfseries}
3565 \newcommand{\xepersian@weather}[1]{%
3566 \noindent{\weatherFormat #1}%
3567 }
3568 \newcommand{\weatherTempFormat}{\small}
3569 \newcommand{\weatherUnits}{\textdegree{C}}
3570 \newcommand{\xepersian@section}[0]{%
3571 \newcommand{\xepersian@headleft}{%
3572 {\small\bfseries \xepersian@custommagazinename} \date
3573 }
3574 \newcommand{\xepersian@headcenter}{%
3575 \xepersian@section{}%
3576 }
3577 \newcommand{\xepersian@headright}{%
3578 \small\xepersian@edition%
3579 \hspace*{5pt}\beginL{\thepage} / \pageref{LastPage}\endL
3580 }
3581
3582 \newcommand{\heading}[3]{%
3583 \renewcommand{\xepersian@headleft}{\beginR#1\endR}%
3584 \renewcommand{\xepersian@headcenter}{\beginR#2\endR}%
3585 \renewcommand{\xepersian@headright}{\beginR#3\endR}%
3586 }
3587 \newcommand{\xepersian@footright}{%
3588 {\footnotesize\lrf{\copyright\ \xepersian@customwwwTxt{}}-- - \lrf{\XePersian}}%
3589 }
3590 \newcommand{\xepersian@footcenter}{%
3591 }
3592 \newcommand{\xepersian@footleft}{%
3593 }
3594
3595 \newcommand{\foot}[3]{%
3596 \renewcommand{\xepersian@footleft}{\beginR#1\endR}%
3597 \renewcommand{\xepersian@footcenter}{\beginR#2\endR}%
3598 \renewcommand{\xepersian@footright}{\beginR#3\endR}%
3599 }
3600 \newcommand{\firstTitleFormat}{\Huge\bfseries\flushright}
3601 \newcommand{\xepersian@firstTitle}[1]{%
3602 }%
3603 \begin{spacing}{2.0}{%
3604 \noindent\ignorespaces
3605 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
3606 {\nohyphens{\firstTitleFormat #1}}{%
3607 {{\firstTitleFormat #1}}{%
3608 }%
3609 \end{spacing}%
3610 }%
3611 }
3612 \newcommand{\firstTextFormat}{}

```



```

3613 \newcommand{\xepersian@firstText}[1]{%
3614 {\noindent\ignorespaces\firstTextFormat #1}%
3615 }
3616 \newcommand{\secondTitleFormat}{\LARGE\bfseries}
3617 \newcommand{\xepersian@secondTitle}[1]{%
3618 \begin{spacing}{1.5}{%
3619 \noindent\ignorespaces\flushright
3620 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
3621 {\nohyphens{\secondTitleFormat #1}}}{%
3622 {\secondTitleFormat #1}}{%
3623 }\end{spacing}%
3624 }
3625 \newcommand{\secondSubTitleFormat}{\large}
3626 \newcommand{\xepersian@secondSubTitle}[1]{%
3627 {\noindent\ignorespaces{\secondSubTitleFormat #1}}%
3628 }
3629 \newcommand{\secondTextFormat}{}
3630 \newcommand{\xepersian@secondText}[1]{%
3631 \begin{multicols}{2}{%
3632 {\noindent\ignorespaces\secondTextFormat #1}%
3633 \end{multicols}%
3634 }
3635 \newcommand{\thirdTitleFormat}{\Large\bfseries}
3636 \newcommand{\xepersian@thirdTitle}[1]{%
3637 \begin{spacing}{1.5}{%
3638 \noindent\ignorespaces\flushright
3639 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
3640 {\nohyphens{\thirdTitleFormat #1}}}{%
3641 {\thirdTitleFormat #1}}{%
3642 }\end{spacing}%
3643 }
3644 \newcommand{\thirdSubTitleFormat}{\large}
3645 \newcommand{\xepersian@thirdSubTitle}[1]{%
3646 {{\noindent\ignorespaces\thirdSubTitleFormat #1}}%
3647 \newcommand{\thirdTextFormat}{}
3648 \newcommand{\xepersian@thirdText}[1]{{\thirdTextFormat #1}}%
3649 \newcommand{\pictureCaptionFormat}{\small\bfseries}
3650 \newcommand{\xepersian@pictureCaption}[1]{%
3651 {\noindent\pictureCaptionFormat #1}}%
3652 }
3653 \newcommand{\pagesFormat}{\bfseries\footnotesize}
3654 \newcommand{\xepersian@pages}[1]{%
3655 {\noindent{\pagesFormat\MakeUppercase{#1}}}%
3656 \newcommand{\innerTitleFormat}{\Huge}
3657 \newcommand{\xepersian@innerTitle}[1]{%
3658 \begin{flushright}{%
3659 \noindent
3660 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
3661 {\nohyphens{\innerTitleFormat #1}}}{%
3662 {\innerTitleFormat #1}}{%

```



```

3663 }%
3664 \\%
3665 \end{flushright}%
3666 }
3667 \newcommand{\innerSubtitleFormat}{\large}
3668 \newcommand{\xepersian@innerSubtitle}[1]{{\innerSubtitleFormat #1}}
3669 \newcommand{\timestampTxt}{}%
3670 \newcommand{\timestampSeparator}{|}%
3671 \newcommand{\timestampFormat}{\small}%
3672 \newcommand{\timestamp}[1]{%
3673 {\timestampFormat}%
3674 #1~\timestampTxt{}%
3675 }~\timestampSeparator{}%
3676 }%
3677 \newcommand{\innerAuthorFormat}{\footnotesize}
3678 \newcommand{\innerPlaceFormat}{\footnotesize\bfseries}
3679 \newcommand{\innerTextFinalMark}{\rule{0.65em}{0.65em}}%
3680 \newcommand{\editorialTitleFormat}{\LARGE\textit}%
3681 \newcommand{\xepersian@editorialTitle}[1]{\editorialTitleFormat{#1}}%
3682 \newcommand{\editorialAuthorFormat}{\textsc}%
3683 \newcommand{\shortarticleTitleFormat}{\LARGE\bfseries}%
3684 \newcommand{\xepersian@shortarticleTitle}[1]{{\shortarticleTitleFormat #1}}%
3685 \newcommand{\shortarticleSubtitleFormat}{\Large}%
3686 \newcommand{\xepersian@shortarticleSubtitle}[1]{{\shortarticleSubtitleFormat #1}}%
3687 \newcommand{\shortarticleItemFormat}{\large\bfseries}%
3688 \newcommand{\xepersian@shortarticleItemTitle}[1]{{\shortarticleItemFormat #1}}%
3689 \renewcommand{\maketitle}{\begin{titlepage}%
3690   \let\footnotesize\small
3691   \let\footnoterule\relax
3692   \let \footnote \thanks
3693   \null\vfil
3694   \vskip 60\p@
3695   \begin{center}%
3696     {\LARGE @title \par}%
3697     \vskip 1em%
3698     {\LARGE «\xepersian@edition» \par}%
3699     \vskip 3em%
3700     {\large
3701       \lineskip .75em%
3702       \begin{tabular}[t]{c}%
3703         @author
3704         \end{tabular}\par}%
3705     \vskip 1.5em%
3706     {\large @date \par}%
3707   \end{center}\par
3708   @thanks
3709   \vfildnull
3710   \end{titlepage}%
3711   \setcounter{footnote}{0}%
3712   \global\let\thanks\relax

```



```

3713 \global\let\maketitle\relax
3714 \global\let\@thanks\@empty
3715 \global\let\@author\@empty
3716 \global\let\@date\@empty
3717 \global\let\@title\@empty
3718 \global\let\title\relax
3719 \global\let\author\relax
3720 \global\let\date\relax
3721 \global\let\and\relax
3722 }
3723 \newcommand{\xepersian@say}[1]{\typeout{#1}}
3724 \newsavebox{\xepersian@fmbox}
3725 \newenvironment{xepersian@fmpage}[1]
3726 {\begin{lrbox}{\xepersian@fmbox}\begin{minipage}{#1}}
3727 {\end{minipage}\end{lrbox}\fbox{\usebox{\xepersian@fmbox}}}
3728 \newcommand{\image}[2]{
3729 \vspace{5pt}
3730 \setlength{\fboxsep}{1pt}
3731 \addtolength{\xepersian@imgsize}{\columnwidth}
3732 \addtolength{\xepersian@imgsize}{-1\columnsep}
3733 \ifxetex
3734 \setlength{\xepersian@pageneed}{1.5\xepersian@imgsize}
3735 \addtolength{\xepersian@pageneed}{50pt}
3736 \ClassWarning{xepersian-magazine}{%
3737 Image #1 needs: \the\xepersian@pageneed \space %
3738 and there is left: \the\page@free\space%
3739 }
3740 \ifdim \xepersian@pageneed < \page@free
3741 {\centering\fbox{%
3742 \includegraphics[width = \xepersian@imgsize,
3743 height = \xepersian@imgsize,
3744 keepaspectratio ]{#1}}
3745 \xepersian@pictureCaption{#2}
3746
3747 \vspace{5pt}
3748 \else
3749 \else
3750 \ClassWarning{Image #1 needs more space!}{%
3751 It was not inserted!}
3752 \fi
3753 \fi
3754 }
3755 \textblockorigin{1cm}{1cm}
3756 \newdimen\xepersian@dx
3757 \newdimen\xepersian@dy
3758 \newcount\xepersian@cx
3759 \newcount\xepersian@cy
3760 \newcommand{\grid}[3][]{%
3761 \xepersian@dx=\textwidth%
3762 \xepersian@dy=\textheight%

```



```

3763 \xepersian@cx=#3% %columns
3764 \xepersian@cy=#2% %rows
3765
3766 \count1=#3%
3767 \advance\count1 by 1
3768
3769 \count2=#2%
3770 \advance\count2 by 1
3771
3772 \divide\xepersian@dx by #3
3773 \divide\xepersian@dy by #2
3774
3775 \setlength{\TPHorizModule}{\xepersian@dx}
3776 \setlength{\TPVertModule}{\xepersian@dy}
3777
3778 \ifthenelse{\equal{#1}{show}}{
3779 \multido{\xepersian@nrow=0+1}{\count2} {
3780 \begin{textblock}{\xepersian@cx}(0,\xepersian@nrow)
3781 \rule[0pt]{\textwidth}{.1pt}
3782 \end{textblock}
3783 }
3784
3785 \multido{\xepersian@ncol=0+1}{\count1} {
3786 \begin{textblock}{\xepersian@cy}(\xepersian@ncol,0)
3787 \rule[0pt]{.1pt}{\textheight}
3788 \end{textblock}
3789 }
3790 }
3791
3792 \newcommand{\xepersianInit}{%
3793 \setlength{\headheight}{14pt}
3794 \renewcommand{\headrulewidth}{0.4pt}
3795
3796 \pagestyle{fancy}
3797
3798 \setlength{\columnseprule}{\columnlines}
3799 \setlength{\fboxrule}{0.1 pt}
3800
3801 }
3802
3803 \def\customlogo#1{\gdef\@customlogo{\beginR#1\endR}}
3804 \def\customminilog#1{\gdef\@customminilog{\beginR#1\endR}}
3805 \def\custommagazinename#1{\gdef\@custommagazinename{\beginR#1\endR}}
3806 \newcommand{\logo}[0]{%
3807 %% Heading %%
3808 \noindent\hrulefill\hspace{10pt}\xepersian@editionLogo\hspace{5pt}\xepersian@www
3809
3810 \vspace*{-3pt}
3811
3812 {\Large\bfseries \@customlogo}

```



```

3813 \hrulefill
3814 \hspace{10pt}\xepersian@headDateTime
3815
3816 }
3817 \newcommand{\minilogo}[0]{
3818 {\large\bfseries \xepersian@customminilogo}
3819
3820 \vspace*{5pt}
3821 }
3822 \newcommand{\mylogo}[1]{
3823 {\beginR#1\endR}
3824
3825 \noindent
3826 \xepersian@editionLogo\hspace{5pt}
3827 \hrulefill
3828 \hspace{5pt}\xepersian@headDateTime
3829 }
3830 \newcommand{\edition}[1]{\renewcommand{\xepersian@edition}{#1}}
3831 \newenvironment{frontpage}[0]
3832 {
3833 \setboolean{xepersian@insidefrontpage}{true}
3834 \thispagestyle{empty}
3835 \logo
3836
3837 }%
3838 {
3839 \thispagestyle{empty}
3840 \clearpage
3841 \newpage
3842 \fancyhead{}
3843 \fancyfoot{}
3844 \fancyhead[R0,LE]{\beginR\xepersian@headright\endR}
3845 \fancyhead[L0,RE]{\beginR\xepersian@headleft\endR}
3846 \fancyhead[C]{\beginR\xepersian@headcenter\endR}
3847 \fancyfoot[R0,LE]{\beginR\xepersian@footright\endR}
3848 \fancyfoot[L0,RE]{\beginR\xepersian@footleft\endR}
3849 \fancyfoot[C]{\beginR\xepersian@footcenter\endR}
3850 \renewcommand{\headrulewidth}{0.4pt}
3851 \setboolean{xepersian@insidefrontpage}{false}
3852
3853 }
3854 \newcommand{\firstarticle}[3]
3855 {
3856 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
3857 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
3858 \begin{textblock}{24}(22,5)
3859 }
3860 {
3861 \begin{textblock}{28}(22,5)
3862 }

```



```

3863 \vspace{-7pt}
3864 \xepersian@firstTitle{#1}
3865 \end{textblock}
3866 \begin{textblock}{29}(22,10)
3867 \vspace{5pt plus 2pt minus 2pt}
3868
3869 \xepersian@firstText{\timestamp{#3}~#2}
3870
3871 \end{textblock}
3872
3873 \begin{textblock}{50}(0,15)
3874 \rule{50\TPHorizModule}{.3pt}
3875 \end{textblock}
3876 }{%
3877 \ClassError{xepersian-magazine}{%
3878 \protect\firstarticle\space in a wrong place.\MessageBreak
3879 \protect\firstarticle\space may only appear inside frontpage environment.
3880 }{%
3881 \protect\firstarticle\space may only appear inside frontpage environment.
3882 }{%
3883 }
3884 }
3885 \newcommand{\secondarticle}[5]
3886 {
3887 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
3888 \begin{textblock}{33}(2,16)
3889 \xepersian@pages{#4}
3890 \vspace{-5pt}
3891 \xepersian@secondTitle{#1}
3892
3893 \vspace*{5pt}
3894
3895 \xepersian@secondSubtitle{#2}
3896
3897 \vspace*{-7pt}
3898
3899 \xepersian@secondText{\timestamp{#5}~#3}
3900
3901 \end{textblock}
3902
3903 \begin{textblock}{33}(2,25)
3904 \vspace{5pt plus 2pt minus 2pt}
3905
3906 \noindent\ignorespaces\rule{33\TPHorizModule}{.3pt}
3907 \end{textblock}
3908 }{%
3909 \ClassError{xepersian-magazine}{%
3910 \protect\secondarticle\space in a wrong place.\MessageBreak
3911 \protect\secondarticle\space may only appear inside frontpage environment.
3912 }{%

```



```

3913 \protect\secondarticle\space may only appear inside frontpage environment.
3914 }%
3915 }
3916 }
3917 \newcommand{\thirdarticle}[6]
3918 {
3919 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
3920 \begin{textblock}{32}(2,26)
3921 \xepersian@pages{#5}
3922 \vspace{-5pt}
3923 \setlength{\fboxsep}{1pt}
3924 \xepersian@thirdTitle{#1}
3925
3926 \vspace*{5pt}
3927
3928 \xepersian@thirdSubtitle{#2}
3929
3930 \vspace*{5pt}
3931
3932 {\noindent\xepersian@ignorespaces %
3933 \ifthenelse{\equal{#4}{}}{}}
3934
3935 \xepersian@thirdText{\timestamp{#6}-#3}
3936
3937 }
3938
3939 \vspace*{5pt}
3940
3941 \end{textblock}
3942 }{\%else
3943 \ClassError{xepersian-magazine}{%
3944 \protect\thirdarticle\space in a wrong place.\MessageBreak
3945 \protect\thirdarticle\space may only appear inside frontpage environment.
3946 }{%
3947 \protect\thirdarticle\space may only appear inside frontpage environment.
3948 }%
3949 }
3950
3951 \newcommand{\firstimage}[2]
3952 {
3953 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
3954 \begin{textblock}{18}(2,5)
3955 \setlength{\fboxsep}{1pt}
3956 \ifxetex % only in PDF
3957 \noindent\fbox{\includegraphics[width = 18\TPHorizModule ]{#1}}
3958 \fi
3959
3960 \xepersian@pictureCaption{#2}
3961 \end{textblock}%
3962 }

```



```

3963 {\ClassError{xepersian-magazine}{%
3964 \protect\firstimage\space in a wrong place.\MessageBreak
3965 \protect\firstimage\space may only appear inside frontpage environment.
3966 }{%
3967 \protect\firstimage\space may only appear inside frontpage environment.
3968 }{%
3969 }{%
3970 \newcommand{\weatheritem}[5]{%
3971 \ifthenelse{\boolean{xepersian@insideweather}}{%
3972 \begin{minipage}{45pt}
3973 \ifxetex
3974 \includegraphics[width=40pt]{#1}
3975 \fi
3976 \end{minipage}
3977 \begin{minipage}{50pt}
3978 \weatherTempFormat
3979 #2\\
3980 \begin{L#3 $\\ #4 \lr{\weatherUnits{}}\endL\\
3981 #5
3982 \end{minipage}
3983 }{\%else
3984 \ClassError{xepersian-magazine}{%
3985 \protect\weatheritem\space in a wrong place.\MessageBreak
3986 \protect\weatheritem\space may only appear inside weatherblock environment.
3987 }{%
3988 \protect\weatheritem\space may only appear inside weatherblock environment.\MessageBreak
3989 weatherblock environment may only appear inside frontpage environment.
3990 }{%
3991 }{%
3992 }{%
3993 \newenvironment{weatherblock}[1]
3994 {
3995 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
3996 \setboolean{xepersian@insideweather}{true}
3997 \begin{textblock}{32}(2,38)
3998 \vspace*{-15pt}
3999
4000 \xepersian@weather{\beginR#1\endR}
4001
4002 \vspace*{5pt}
4003
4004 \noindent\begin{xepersian@fmpage}{32\TPHorizModule}
4005 \begin{minipage}{32\TPHorizModule}
4006 \hspace{5pt}
4007 }{%
4008 }{%
4009 \ClassError{xepersian-magazine}{%
4010 weatherblock in a wrong place.\MessageBreak
4011 weatherblock may only appear inside frontpage environment.
4012 }{%

```



```

4013 weatherblock may only appear inside frontpage environment.
4014 }
4015 }
4016 }%
4017 {
4018 \end{minipage}
4019 \end{xepersian@fmpage}
4020 \end{textblock}
4021 \setboolean{xepersian@insideweather}{false}
4022 }
4023 \newenvironment{authorblock}[0]
4024 {
4025 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4026 \begin{textblock}[15]{36,35}
4027 \setlength{\fboxsep}{5pt}
4028 \begin{xepersian@fmpage}{13\TPHorizModule}
4029 \begin{minipage}{13\TPHorizModule}
4030 \centering
4031 \minilogo
4032
4033 }{%
4034 \ClassError{xepersian-magazine}{%
4035 authorblock in a wrong place.\MessageBreak
4036 authorblock may only appear inside frontpage environment.
4037 }{%
4038 authorblock may only appear inside frontpage environment.
4039 }
4040 }
4041 }
4042 {
4043 \end{minipage}
4044 \end{xepersian@fmpage}
4045 \end{textblock}
4046 }
4047 \newenvironment{indexblock}[1]
4048 {
4049 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4050 \setboolean{xepersian@insideindex}{true} \%let's in
4051 \begin{textblock}[15]{36,16}
4052 \setlength{\xepersian@indexwidth}{13\TPHorizModule}
4053 \xepersian@indexFrameTitle{#1}
4054
4055 \setlength{\fboxsep}{5pt} \%espacio entre el frame y la imagen
4056 \begin{xepersian@fmpage}{\xepersian@indexwidth}
4057 \begin{minipage}{\xepersian@indexwidth}
4058 \vspace*{10pt}
4059 }{%
4060 \ClassError{xepersian-magazine}{%
4061 indexblock in a wrong place.\MessageBreak
4062 indexblock may only appear inside frontpage environment.

```



```

4063 }{%
4064 indexblock may only appear inside frontpage environment.
4065 }
4066 }
4067 }%
4068 {
4069 \end{minipage}
4070 \end{xepersian@fmpage}
4071 \end{textblock}
4072 \setboolean{xepersian@insideindex}{false} %let's out
4073 }
4074 \newcommand{\indexitem}[2]
4075 {
4076 \ifthenelse{\boolean{xepersian@insideindex}}{
4077 \xepersian@indexEntry{\#1} \xepersian@indexEntryPage{\pageref{\#2}}}
4078
4079 \vspace{0.5cm}
4080
4081 \noindent\ignorespaces\indexEntrySeparator{}
4082 }{%else
4083 \ClassError{xepersian-magazine}{%
4084 \protect\indexitem\space in a wrong place.\MessageBreak
4085 \protect\indexitem\space may only appear inside indexblock environment.
4086 }%
4087 \protect\indexitem\space may only appear inside indexblock environment.\MessageBreak
4088 indexblock environment may only appear inside frontpage environment.
4089 }%
4090 }
4091 }
4092 \newcommand{\xepersian@inexpandedtitle}[1]{
4093 \begin{minipage}{.95\textwidth}
4094 \begin{center}
4095 \noindent\Large\textbf{\beginR\#1\endR}
4096 \end{center}
4097 \end{minipage}
4098 }
4099 \newcommand{\expandedtitle}[2]{
4100 \end{multicols}
4101
4102 \begin{center}
4103 \setlength{\fboxsep}{5pt}
4104 \setlength{\shadowsize}{2pt}
4105 \ifthenelse{\equal{\#1}{\shadowbox}}{%
4106 \shadowbox{%
4107 \xepersian@inexpandedtitle{\#2}}%
4108 }%
4109 }{%
4110 \ifthenelse{\equal{\#1}{\doublebox}}{%
4111 \doublebox{%
4112 \xepersian@inexpandedtitle{\#2}}%

```



```

4113 }%
4114 }{}%
4115 \ifthenelse{\equal{#1}{ovalbox}}{%
4116 \ovalbox{%
4117 \xepersian@inexpandedtitle{#2}%
4118 }%
4119 }{}%
4120 \ifthenelse{\equal{#1}{Ovalbox}}{%
4121 \Ovalbox{%
4122 \xepersian@inexpandedtitle{#2}%
4123 }%
4124 }{}%
4125 \ifthenelse{\equal{#1}{lines}}{%
4126 \hrule
4127 \vspace*{8pt}
4128 \begin{center}
4129 \noindent\Large\textbf{#2}
4130 \end{center}
4131 \vspace*{8pt}
4132 \hrule
4133 }{}%
4134 \end{center}
4135
4136 \begin{multicols}{\xepersian@ncolumns{}}
4137 \ifnum \xepersian@ncolumns > \minraggedcols
4138 \raggedFormat
4139 \fi
4140 }
4141 \newcommand{\xepersian@incolumntitle}[2]{%
4142 \begin{minipage}{#1}
4143 \begin{center}
4144 \noindent\normalsize\textbf{#2}
4145 \end{center}
4146 \end{minipage}
4147 }
4148
4149 \newcommand{\columntitle}[2]{%
4150 \vspace*{5pt}
4151 \begin{center}
4152 \setlength{\fboxsep}{5pt}
4153 \setlength{\shadowsize}{2pt}
4154 \addtolength{\xepersian@coltitsize}{\columnwidth}
4155 \addtolength{\xepersian@coltitsize}{-1\columnsep}
4156 \addtolength{\xepersian@coltitsize}{-5pt}
4157 \addtolength{\xepersian@coltitsize}{-1\shadowsize}
4158 \ifthenelse{\equal{#1}{shadowbox}}{%
4159 \shadowbox{%
4160 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
4161 }%
4162 }{}%

```



```

4163 \ifthenelse{\equal{#1}{doublebox}}{%
4164 \doublebox{%
4165 \xepersian@incolumentitle{\xepersian@coltitlesize}{#2}%
4166 }%
4167 }{}%
4168 \ifthenelse{\equal{#1}{ovalbox}}{%
4169 \ovalbox{%
4170 \xepersian@incolumentitle{\xepersian@coltitlesize}{#2}%
4171 }%
4172 }{}%
4173 \ifthenelse{\equal{#1}{Ovalbox}}{%
4174 \Ovalbox{%
4175 \xepersian@incolumentitle{\xepersian@coltitlesize}{#2}%
4176 }%
4177 }{}%
4178 \ifthenelse{\equal{#1}{lines}}{%
4179 \hrule
4180 \vspace*{5pt}
4181 \begin{center}
4182 \noindent\normalsize\textbf{#2}
4183 \end{center}
4184 \vspace*{5pt}
4185 \hrule
4186 }{}%
4187 \end{center}
4188 }
4189 \renewcommand{\date}{%
4190 \longdate{\today}%
4191 }
4192 \newcommand{\authorandplace}[2]{%
4193 \rightline{%
4194 {\innerAuthorFormat #1},\space{}\innerPlaceFormat #2}%
4195 }%
4196 \par %
4197 }
4198 \newcommand{\newsection}[1]{%
4199 \renewcommand{\xepersian@section}{#1}
4200 }
4201 \newenvironment{article}[5]
4202 {
4203 \xepersian@say{Adding a new piece of article}
4204 \renewcommand{\xepersian@ncolumns}{#1}
4205 \begin{multicols}{#1}[
4206 \xepersian@pages{#4}
4207 \xepersian@innerTitle{#2}%
4208 \xepersian@innerSubtitle{#3}%
4209 ][4cm]%
4210 \label{#5}
4211 \ifnum #1 > \minraggedcols
4212 \raggedFormat

```



```

4213 \fi
4214 }
4215 {~\innerTextFinalMark{}
4216 \end{multicols}
4217 }
4218 \newcommand{\articlesep}{%
4219 \setlength{\xepersian@pageneed}{16000pt}
4220 \setlength\xepersian@pageleft{\pagegoal}
4221 \addtolength\xepersian@pageleft{-\pagetotal}
4222
4223 \xepersian@say{How much left \the\xepersian@pageleft}
4224
4225 \ifdim \xepersian@pageneed < \xepersian@pageleft
4226 \xepersian@say{Not enough space}
4227 \else
4228 \xepersian@say{Adding sep line between articles}
4229 \vspace*{10pt plus 10pt minus 5pt}
4230 \hrule
4231 \vspace*{10pt plus 5pt minus 5pt}
4232 \fi
4233 }
4234 }
4235 \newcommand{\xepersian@editorialTit}[2]{%
4236 \setlength{\arrayrulewidth}{.1pt}
4237 \begin{center}
4238 \begin{tabular}{c}
4239 \noindent
4240 \xepersian@editorialTitle{#1}
4241 \vspace{2pt plus 1pt minus 1pt}
4242 \\
4243 \hline
4244 \vspace{2pt plus 1pt minus 1pt}
4245 \\
4246 \editorialAuthorFormat{#2}
4247 \end{tabular}
4248 \end{center}
4249 }
4250 \newenvironment{editorial}[4]
4251 {
4252 \xepersian@say{Adding a new editorial}
4253 \begin{multicols}{#1}[%]
4254 \xepersian@editorialTit{#2}{#3}%
4255 ] [4cm]
4256 \label{#4}
4257 \ifnum #1 > \minraggedcols
4258 \raggedFormat
4259 \fi
4260 }
4261 {
4262 \end{multicols}

```



```

4263 }
4264 \newcommand{\xepersian@shortarticleTit}[2]{
4265 \begin{center}
4266 \vbox{%
4267 \noindent
4268 \xepersian@shortarticleTitle{#1}
4269 \vspace{4pt plus 2pt minus 2pt}
4270 \hrule
4271 \vspace{4pt plus 2pt minus 2pt}
4272 \xepersian@shortarticleSubtitle{#2}
4273 }
4274 \end{center}
4275 }
4276 \newenvironment{shortarticle}[4]
4277 {
4278 \xepersian@say{Adding a short article block}
4279 \begin{multicols}{#1}[\xepersian@shortarticleTit{#2}{#3}][4cm] %
4280 \label{#4}
4281 \par %
4282 \ifnum #1 > \minraggedcols
4283 \raggedFormat
4284 \fi
4285 }
4286 {
4287 \end{multicols}
4288 }
4289 \newcommand{\shortarticleitem}[2]{
4290 \goodbreak
4291 \vspace{5pt plus 3pt minus 3pt}
4292 {\vbox{\noindent\xepersian@shortarticleItemTitle{#1}}}
4293 \vspace{5pt plus 3pt minus 3pt}
4294 {\noindent #2}\\
4295 }

```

7.57 xepersian-mathsdigtspec.sty

```

4296 \NeedsTeXFormat{LaTeX2e}
4297 \ProvidesPackage{xepersian-mathsdigtspec}
4298 [2016/05/03 v1.1.2 Unicode Persian maths digits in XeLaTeX]
4299 \def\new@mathgroup{\alloc@8\mathgroup\chardef@\cclvi}
4300 \let\newfam\new@mathgroup
4301 \def\select@group#1#2#3#4{%
4302 \ifx\math@bgroup\else\relax\expandafter\@firstofone\fi
4303 {%
4304 \ifmmode
4305 \ifnum\csname c@mv@\math@version\endcsname<\@cclvi
4306 \begingroup
4307 \escapechar`m@ne
4308 \getanddefine@fonts{\csname c@mv@\math@version\endcsname}#3%
4309 \globaldefs\c@ne \math@fonts

```



```

4310      \endgroup
4311      \init@restore@version
4312      \xdef#1{\noexpand\use@mathgroup\noexpand#2%
4313          {\number\csname c@mv@\math@version\endcsname}}%
4314      \global\advance\csname c@mv@\math@version\endcsname\@ne
4315  \else
4316      \let#1\relax
4317      \@latex@error{Too many math alphabets used in
4318          version \math@version}%
4319      \@eha
4320  \fi
4321 \else \expandafter\non@alpherr\fi
4322 #1{#4}%
4323 }%
4324 }
4325 \def\document@select@group#1#2#3#4{%
4326 \ifx\math@bgroup\math@bgroup\else\relax\expandafter\@firstofone\fi
4327 {%
4328 \ifmmode
4329     \ifnum\csname c@mv@\math@version\endcsname<\@cclvi
4330         \begingroup
4331             \escapechar\m@ne
4332             \getanddefine@fonts{\csname c@mv@\math@version\endcsname}#3%
4333             \globaldefs\@ne \math@fonts
4334         \endgroup
4335         \expandafter\extract@alph@from@version
4336             \csname mv@\math@version\expandafter\endcsname
4337             \expandafter{\number\csname
4338                 c@mv@\math@version\endcsname}%
4339                 #1%
4340             \global\advance\csname c@mv@\math@version\endcsname\@ne
4341     \else
4342         \let#1\relax
4343         \@latex@error{Too many math alphabets used
4344             in version \math@version}%
4345         \@eha
4346     \fi
4347 \else \expandafter\non@alpherr\fi
4348 #1{#4}%
4349 }%
4350 }
4351 \ExplSyntaxOn
4352 \bool_set_false:N \g__fontspec_math_bool
4353 \tl_map_inline:nn
4354 {
4355     \new@mathgroup\cdp@list\cdp@elt\DeclareMathSizes
4356     \@DeclareMathSizes\newmathalphabet\newmathalphabet@@\newmathalphabet@@@
4357     \DeclareMathVersion\define@mathalphabet\define@mathgroup\addtoversion
4358     \version@list\version@elt\alpha@list\alpha@elt
4359     \restore@mathversion\init@restore@version\dorestore@version\process@table

```



```

4360 \new@mathversion\DeclareSymbolFont\group@list\group@elt
4361 \new@symbolfont\SetSymbolFont\SetSymbolFont@\get@cdp
4362 \DeclareMathAlphabet\new@mathalphabet\SetMathAlphabet\SetMathAlphabet@
4363 \DeclareMathAccent\set@mathaccent\DeclareMathSymbol\set@mathchar
4364 \set@mathsymbol\DeclareMathDelimiter\@xxDeclareMathDelimiter
4365 \@DeclareMathDelimiter\@xDeclareMathDelimiter\set@mathdelimiter
4366 \set@mathdelimiter\DeclareMathRadical\mathchar@type
4367 \DeclareSymbolFontAlphabet\DeclareSymbolFontAlphabet@
4368 }
4369 {
4370 \tl_remove_once:Nn \c_preamblecmds {\do#1}
4371 }
4372 \ExplSyntaxOff
4373 \newcommand\xepersian@PackageInfo[1]{\PackageInfo{xepersian-mathsdigtspec}{#1}}
4374 \newcommand\SetMathCode[4]{
4375   \Umathcode#1="mathchar@type#2 \csname sym#3\endcsname #4\relax"
4376 \newcommand\SetMathCharDef[4]{
4377   \Umathchardef#1="mathchar@type#2 \csname sym#3\endcsname #4\relax"
4378 \ExplSyntaxOn
4379 \cs_new_eq:NN \orig_mathbf:n \mathbf
4380 \cs_new_eq:NN \orig_mathit:n \mathit
4381 \cs_new_eq:NN \orig_mathrm:n \mathrm
4382 \cs_new_eq:NN \orig_mathsf:n \mathsf
4383 \cs_new_eq:NN \orig_mathtt:n \mathtt
4384 \NewDocumentCommand \new@mathbf { m } {
4385   \orig_mathbf:n {
4386     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4387       \mathcode ##1 = \numexpr "100 * \symnew@mathbf@font@digits + ##1 \relax
4388     }
4389     #1
4390   }
4391 }
4392 \NewDocumentCommand \new@mathit { m } {
4393   \orig_mathit:n {
4394     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4395       \mathcode ##1 = \numexpr "100 * \symnew@mathit@font@digits + ##1 \relax
4396     }
4397     #1
4398   }
4399 }
4400 \NewDocumentCommand \new@mathrm { m } {
4401   \orig_mathrm:n {
4402     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4403       \mathcode ##1 = \numexpr "100 * \symnew@mathrm@font@digits + ##1 \relax
4404     }
4405     #1
4406   }
4407 }
4408 \NewDocumentCommand \new@mathsf{ m } {
4409   \orig_mathsf:n {

```



```

4410 \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4411   \mathcode ##1 = \numexpr "100 * \symnew@mathsf@font@digits + ##1 \relax
4412 }
4413 #1
4414 }
4415 }
4416 \NewDocumentCommand \new@mathtt{ m } {
4417   \orig_mathtt:n
4418   \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4419     \mathcode ##1 = \numexpr "100 * \symnew@mathtt@font@digits + ##1 \relax
4420   }
4421   #1
4422 }
4423 }
4424 \DeclareDocumentCommand \setdigitfont { O{} m O{} }
4425 {
4426   \let\glb@currsize\relax
4427   \fontspec_set_family:Nnn \g_xepersian_digitsfamily_family {Mapping=parsidigits,#1,#3} {#2}
4428   \xepersian@PackageInfo{Defining the default Persian maths digits font as '#2'}
4429   \ DeclareSymbolFont{OPERATORS} {\g_fontspec_encoding_tl}{\g_xepersian_digitsfamily_family}
4430   \ DeclareSymbolFont{new@mathbf@font@digits}{\g_fontspec_encoding_tl}{\g_xepersian_digitsfamily}
4431   \ DeclareSymbolFont{new@mathit@font@digits}{\g_fontspec_encoding_tl}{\g_xepersian_digitsfamily}
4432   \ DeclareSymbolFont{new@mathrm@font@digits}{\g_fontspec_encoding_tl}{\g_xepersian_digitsfamily}
4433   \def\persianmathsdigits{%
4434     \SetMathCode`0{\mathalpha}{OPERATORS}`0
4435     \SetMathCode`1{\mathalpha}{OPERATORS}`1
4436     \SetMathCode`2{\mathalpha}{OPERATORS}`2
4437     \SetMathCode`3{\mathalpha}{OPERATORS}`3
4438     \SetMathCode`4{\mathalpha}{OPERATORS}`4
4439     \SetMathCode`5{\mathalpha}{OPERATORS}`5
4440     \SetMathCode`6{\mathalpha}{OPERATORS}`6
4441     \SetMathCode`7{\mathalpha}{OPERATORS}`7
4442     \SetMathCode`8{\mathalpha}{OPERATORS}`8
4443     \SetMathCode`9{\mathalpha}{OPERATORS}`9
4444     \SetMathCode`\%{\mathbin}{OPERATORS}` }
4445   \SetMathCharDef{\decimalseparator}{\mathord}{OPERATORS}"066B
4446   \tl_set_eq:NN \mathbf \new@mathbf
4447   \tl_set_eq:NN \mathit \new@mathit
4448   \tl_set_eq:NN \mathrm \new@mathrm
4449 }
4450
4451
4452 \DeclareDocumentCommand \setmathsfdigitfont { O{} m O{} }
4453 {
4454   \fontspec_set_family:Nnn \g_fontspec_mathsfs_tl {Mapping=parsidigits,#1,#3} {#2}
4455   \ DeclareSymbolFont{new@mathsf@font@digits}{\g_fontspec_encoding_tl}{\g_fontspec_mathsfs_tl}
4456   \def\persianmathsdigits{\tl_set_eq:NN \mathsf \new@mathsf}
4457 }
4458

```



```

4459
4460
4461 \DeclareDocumentCommand \setmathttdigitfont { O{} m O{} }
4462 {
4463   \fontspec_set_family:Nnn \g__fontspec_mathtt_tl {Mapping=parsidigits,#1,#3} {#2}
4464     \DeclareSymbolFont{new@mathtt@font@digits}{\g_fontspec_encoding_tl}{\g__fontspec_mathtt_tl}
4465     \def\persianmathttdigits{\tl_set_eq:NN \mathtt \new@mathtt}
4466 }
4467
4468 \ExplSyntaxOff
4469 \ifx\newcommand\undefined\else
4470   \newcommand{\ZifferAn}{}
4471 \fi
4472 \mathchardef\ziffer@DotOri="013A
4473 {\ZifferAn
4474   \catcode`\.=\active\gdef .{\begin{group}\obeyspaces\futurelet\n\ziffer@dcheck}
4475 \def\ziffer@dcheck{\ziffer@check\ZifferLeer\ziffer@DotOri}
4476 \def\ziffer@check#1#2{%
4477   \ifx\n1\endgroup#1\else
4478     \ifx\n2\endgroup#1\else
4479       \ifx\n3\endgroup#1\else
4480         \ifx\n4\endgroup#1\else
4481           \ifx\n5\endgroup#1\else
4482             \ifx\n6\endgroup#1\else
4483               \ifx\n7\endgroup#1\else
4484                 \ifx\n8\endgroup#1\else
4485                   \ifx\n9\endgroup#1\else
4486                     \ifx\n0\endgroup#1\else
4487                       \ifx\n\overline\endgroup#1\else
4488                         \endgroup#2%
4489                       \fi
4490                     \fi
4491                   \fi
4492                 \fi
4493               \fi
4494             \fi
4495           \fi
4496         \fi
4497       \fi
4498     \fi
4499   \fi}
4500 \mathcode`.= "8000\relax
4501 \def\ZifferLeer{\ifx\decimalseparator\undefined .\else \decimalseparator\fi}
4502 \def\DefaultMathsDigits{\def\SetMathsDigits{}}
4503 \def\PersianMathsDigits{\def\SetMathsDigits{%
4504 \ifx\persianmathsdigits\undefined\else\persianmathsdigits\fi%
4505 \ifx\persianmathsfdigits\undefined\else\persianmathsfdigits\fi%
4506 \ifx\persianmathttdigits\undefined\else\persianmathttdigits\fi}}
4507 \def\AutoMathsDigits{\def\SetMathsDigits{%
4508 \ifx\persianmathsdigits\undefined\else\if@nonlatin\persianmathsdigits\fi\fi}}

```



```

4509 \ifx\persianmathsf{digits}\undefined\else\if@nonlatin\persianmathsf{digits}\fi\fi%
4510 \ifx\persianmathtt{digits}\undefined\else\if@nonlatin\persianmathtt{digits}\fi\fi}%
4511 \AutoMathsDigits%
4512 \everymath\expandafter{\the\everymath\SetMathsDigits}%
4513 \g@addto@macro\document{\everydisplay\expandafter{\the\everydisplay\SetMathsDigits}}%

```

7.5.8 xepersian-multiplechoice.sty

```

4514 \NeedsTeXFormat{LaTeX2e}%
4515 \ProvidesPackage{xepersian-multiplechoice}[2010/07/25 v0.2%
4516 % Multiple Choice Questionnaire class for Persian in XeLaTeX]%
4517 \RequirePackage{pifont}%
4518 \RequirePackage{fullpage}%
4519 \RequirePackage{ifthen}%
4520 \RequirePackage{calc}%
4521 \RequirePackage{verbatim}%
4522 \RequirePackage{tabularx}%
4523 \def\@headerfont{\bfseries}%
4524 \newcommand\headerfont[1]{\gdef\@headerfont{\#1}}%
4525 \def\@X{X}%
4526 \newcommand\X[1]{\gdef\@X{\#1}}%
4527 \def\pbs#1{\let\tmp=\#1\let\\=\tmp}%
4528 \newcolumntype{D}{>{\pbs\centering}X}%
4529 \newcolumntype{Q}{>{\@headerfont}X}%
4530 %
4531 \renewcommand\tabularxcolumn[1]{m{\#1}}%
4532 \newcommand\makeform@nocorrection{%
4533   \addtocontents{frm}{\protect\end{tabularx}}%
4534   \starttoc{frm}}%
4535 \newcommand\makeform@correction{%
4536   \addtocontents{frm}{\protect\end{tabularx}}%
4537 \newcommand\makemask@nocorrection{%
4538   \addtocontents{msk}{\protect\end{tabularx}}%
4539   \starttoc{msk}}%
4540 \newcommand\makemask@correction{%
4541   \addtocontents{msk}{\protect\end{tabularx}}%
4542 \newlength\questionspace%
4543 \setlength\questionspace{0pt}%
4544 \newcommand\answerstitle[1]{\gdef\@answerstitle{\#1}}%
4545 \def\@answerstitlefont{\bfseries}%
4546 \newcommand\answerstitlefont[1]{\gdef\@answerstitlefont{\#1}}%
4547 \def\@answernumberfont{\bfseries}%
4548 \newcommand\answernumberfont[1]{\gdef\@answernumberfont{\#1}}%
4549 \newcounter{question}\stepcounter{question}%
4550 \newcounter{@choice}%
4551 \def\@initorcheck{%
4552   \xdef\@choices{\the@choice}%
4553   \setcounter{@choice}{1}%
4554   \gdef\@arraydesc{|Q||}%
4555   \gdef\@headerline{}%

```



```

4556 \whiledo{\not{\value{@choice}>\@choices}}{
4557   \xdef\@arraydesc{\@arraydesc D}
4558   \def\@appendheader{\g@addto@macro\@headerline}
4559   \appendheader{&\protect\@headerfont}
4560   \edef\the@choice{{\alph{@choice}}}
4561   \expandafter\appendheader\the@choice
4562   \stepcounter{@choice}%
4563 \addtocontents{frm}{%
4564   \protect\begin{tabularx}{\protect\linewidth}{\@arraydesc}
4565   \protect\hline
4566   \@headerline\protect\\ \protect\hline\protect\hline\%
4567 \addtocontents{msk}{%
4568   \protect\begin{tabularx}{\protect\linewidth}{\@arraydesc}
4569   \protect\hline
4570   \@headerline\protect\\ \protect\hline\protect\hline\%
4571 \gdef\@initorcheck{%
4572   \ifthenelse{\value{@choice} = \@choices}{}{%
4573     \ClassError{xpersian-multiplechoice}{Question \thequestion: wrong number of choices
4574       (\the@choice space instead of \@choices)}{%
4575         Questions must all have the same number of proposed answers.%}
4576       \MessageBreak
4577       Type X <return> to quit, fix your MCQ (multiple choice question) and rerun XeLaTeX.}}}
4578 \newenvironment{question}[1]{%
4579   %% \begin{question}
4580   \begin{minipage}{\textwidth}
4581     \xdef\@formanswerline{\@questionheader}%
4582     \xdef\@maskanswerline{\@questionheader}%
4583     \fbox{\parbox[c]{\linewidth}{\#1}}
4584     \vspace\questionspace\par
4585     {\@answerstitlefont\@answerstitle}
4586     \begin{list}{\@answernumberfont{\alph{@choice}}~}{\usecounter{@choice}}}%
4587   %% \end{question}
4588   \end{list}
4589   \@initorcheck%
4590   \addtocontents{frm}{\@formanswerline\protect\\ \protect\hline\%
4591   \addtocontents{msk}{\@maskanswerline\protect\\ \protect\hline\%
4592 \end{minipage}
4593 \stepcounter{question}
4594 \def\@truesymbol{\ding{52}~}
4595 \def\@falsesymbol{\ding{56}~}
4596 \newcommand\truesymbol[1]{\gdef\@truesymbol{\#1}}
4597 \newcommand\falsesymbol[1]{\gdef\@falsesymbol{\#1}}
4598 \def\@true@nocorrection{\item}
4599 \def\@false@nocorrection{\item}
4600 \def\@true@correction{\item[\@truesymbol\refstepcounter{@choice}]}
4601 \def\@false@correction{\item[\@falsesymbol\refstepcounter{@choice}]}
4602 \newcommand\true{%
4603   \xdef\@formanswerline{\@formanswerline&}%
4604   \xdef\@maskanswerline{\@maskanswerline&\@X}%
4605   \@true}%

```



```

4606 \newcommand{\false}{%
4607   \xdef\@formanswerline{\@formanswerline&}%
4608   \xdef\@maskanswerline{\@maskanswerline&}%
4609   \@false}%
4610 \def\@correctionstyle{\itshape}
4611 \newcommand{\correctionstyle}[1]{\gdef\@correctionstyle{#1}}
4612 \newenvironment{@correction}{\@correctionstyle{}}
4613 \def\@questionheader{ \thequestion}
4614 \answerstyle{ :}
4615 \DeclareOption{nocorrection}{%
4616   \let\@true\@true@nocorrection
4617   \let\@false\@false@nocorrection
4618   \let\correction\comment
4619   \let\endcorrection\endcomment
4620   \def\makeform{\makeform@nocorrection}
4621   \def\makemask{\makemask@nocorrection}%
4622 \DeclareOption{correction}{%
4623   \let\@true\@true@correction
4624   \let\@false\@false@correction
4625   \let\correction\@correction
4626   \let\endcorrection\end@correction
4627   \def\makeform{\makeform@correction}
4628   \def\makemask{\makemask@correction}%
4629 \ExecuteOptions{nocorrection}
4630 \newcommand{\questiontitle}[1]{\gdef\@questiontitle{#1}}
4631 \def\@questiontitlefont{\bfseries}
4632 \newcommand{\questiontitlefont}[1]{\gdef\@questiontitlefont{#1}}
4633 \newlength{\questiontitlespace}
4634 \setlength{\questiontitlespace}{5pt}
4635 \newlength{\questionsepspace}
4636 \setlength{\questionsepspace}{20pt}
4637 \gdef\@questionsepspace{0pt}
4638 \let\old@question\question
4639 \let\old@endquestion\endquestion
4640 \renewenvironment{question}[1]{%
4641   %% \begin{question}
4642   \vspace{\questionsepspace}
4643   \fbox{\parbox[c]{0.25\linewidth}{\@questiontitlefont\@questiontitle}}
4644   \nopagebreak\vspace{\questiontitlespace}\par
4645   \old@question{#1}}{%
4646   %% \end{question}
4647   \old@endquestion
4648   \gdef\@questionsepspace{\questionsepspace}}
4649 \questiontitle{ \thequestion:}
4650 \ProcessOptions

```

7.59 *xepersian-persiancal.sty*

```

4651 \NeedsTeXFormat{LaTeX2e}
4652 \ProvidesPackage{xepersian-persiancal}[2012/07/25 v0.2 provides Persian calendar]

```



```

4653
4654 \newif\ifXePersian@leap \newif\ifXePersian@kabiseh
4655 \newcount\XePersian@i \newcount\XePersian@y \newcount\XePersian@m \newcount\XePersian@dd
4656 \newcount\XePersian@latini \newcount\XePersian@persiani
4657 \newcount\XePersian@latinii \newcount\XePersian@persianii
4658 \newcount\XePersian@latiniii \newcount\XePersian@persianiii
4659 \newcount\XePersian@latiniv \newcount\XePersian@persianiv
4660 \newcount\XePersian@latinv \newcount\XePersian@persianv
4661 \newcount\XePersian@latinvi \newcount\XePersian@persianvi
4662 \newcount\XePersian@latinvii \newcount\XePersian@persianvii
4663 \newcount\XePersian@latinviii \newcount\XePersian@persianviii
4664 \newcount\XePersian@latinix \newcount\XePersian@persianix
4665 \newcount\XePersian@latinx \newcount\XePersian@persianx
4666 \newcount\XePersian@latinxi \newcount\XePersian@persianxi
4667 \newcount\XePersian@latinxii \newcount\XePersian@persianxii
4668 \newcount\XePersian@persianxiii
4669
4670 \newcount\XePersian@temp
4671 \newcount\XePersian@temptwo
4672 \newcount\XePersian@tempthree
4673 \newcount\XePersian@yModHundred
4674 \newcount\XePersian@thirtytwo
4675 \newcount\XePersian@dn
4676 \newcount\XePersian@sn
4677 \newcount\XePersian@mminusone
4678
4679
4680 \XePersian@y=\year \XePersian@m=\month \XePersian@d=\day
4681 \XePersian@temp=\XePersian@y
4682 \divide\XePersian@temp by 100\relax
4683 \multiply\XePersian@temp by 100\relax
4684 \XePersian@yModHundred=\XePersian@y
4685 \advance\XePersian@yModHundred by -\XePersian@temp\relax
4686 \ifodd\XePersian@yModHundred
4687   \XePersian@leapfalse
4688 \else
4689   \XePersian@temp=\XePersian@yModHundred
4690   \divide\XePersian@temp by 2\relax
4691   \ifodd\XePersian@temp\XePersian@leapfalse
4692   \else
4693     \ifnum\XePersian@yModHundred=0%
4694       \XePersian@temp=\XePersian@y
4695       \divide\XePersian@temp by 400\relax
4696       \multiply\XePersian@temp by 400\relax
4697       \ifnum\XePersian@y=\XePersian@temp\XePersian@leaptrue\else\XePersian@leapfalse\fi
4698     \else\XePersian@leaptrue
4699     \fi
4700   \fi
4701 \fi
4702 \XePersian@latini=31\relax

```



```

4703 \ifXePersian@leap
4704   \XePersian@latinii = 29\relax
4705 \else
4706   \XePersian@latinii = 28\relax
4707 \fi
4708 \XePersian@latiniii = 31\relax
4709 \XePersian@latiniv = 30\relax
4710 \XePersian@latinv = 31\relax
4711 \XePersian@latinvi = 30\relax
4712 \XePersian@latinvii = 31\relax
4713 \XePersian@latinviii = 31\relax
4714 \XePersian@latinix = 30\relax
4715 \XePersian@latinx = 31\relax
4716 \XePersian@latinxi = 30\relax
4717 \XePersian@latinxii = 31\relax
4718 \XePersian@thirtytwo=32\relax
4719 \XePersian@temp=\XePersian@y
4720 \advance\XePersian@temp by -17\relax
4721 \XePersian@temptwo=\XePersian@temp
4722 \divide\XePersian@temptwo by 33\relax
4723 \multiply\XePersian@temptwo by 33\relax
4724 \advance\XePersian@temp by -\XePersian@temptwo
4725 \ifnum\XePersian@temp=\XePersian@thirtytwo\XePersian@kabisehfalse
4726 \else
4727   \XePersian@temptwo=\XePersian@temp
4728   \divide\XePersian@temptwo by 4\relax
4729   \multiply\XePersian@temptwo by 4\relax
4730   \advance\XePersian@temp by -\XePersian@temptwo
4731   \ifnum\XePersian@temp=\z@\XePersian@kabisehtrue\else\XePersian@kabisehfalse\fi
4732 \fi
4733 \XePersian@tempthree=\XePersian@y          % Number of Leap years
4734 \advance\XePersian@tempthree by -1
4735 \XePersian@temp=\XePersian@tempthree        % T := (MY-1) div 4
4736 \divide\XePersian@temp by 4\relax
4737 \XePersian@temptwo=\XePersian@tempthree      % T := T - ((MY-1) div 100)
4738 \divide\XePersian@temptwo by 100\relax
4739 \advance\XePersian@temp by -\XePersian@temptwo
4740 \XePersian@temptwo=\XePersian@tempthree        % T := T + ((MY-1) div 400)
4741 \divide\XePersian@temptwo by 400\relax
4742 \advance\XePersian@temp by \XePersian@temptwo
4743 \advance\XePersian@tempthree by -611           % Number of Kabise years
4744 \XePersian@temptwo=\XePersian@tempthree        % T := T - ((SY+10) div 33) * 8
4745 \divide\XePersian@temptwo by 33\relax
4746 \multiply\XePersian@temptwo by 8\relax
4747 \advance\XePersian@temp by -\XePersian@temptwo
4748 \XePersian@temptwo=\XePersian@tempthree        %
4749 \divide\XePersian@temptwo by 33\relax
4750 \multiply\XePersian@temptwo by 33\relax
4751 \advance\XePersian@tempthree by -\XePersian@temptwo
4752 \ifnum\XePersian@tempthree=32\advance\XePersian@temp by 1\fi % if (SY+10) mod 33=32 then Inc(T)

```



```

4753 \divide\XePersian@tempthree by 4\relax      % T := T - ((SY+10) mod 33) div 4
4754 \advance\XePersian@temp by -\XePersian@tempthree
4755 \advance\XePersian@temp by -137             % T := T - 137  Adjust the value
4756 \XePersian@persiani=31
4757 \advance\XePersian@persiani by -\XePersian@temp           % now 31 - T is the persiani
4758 \XePersian@persianii = 30\relax
4759 \ifXePersian@kabiseh
4760   \XePersian@persianiii = 30\relax
4761 \else
4762   \XePersian@persianiii = 29\relax
4763 \fi
4764 \XePersian@persianiv = 31\relax
4765 \XePersian@persianv = 31\relax
4766 \XePersian@persianvi = 31\relax
4767 \XePersian@persianvii = 31\relax
4768 \XePersian@persianviii= 31\relax
4769 \XePersian@persianix = 31\relax
4770 \XePersian@persianx = 30\relax
4771 \XePersian@persianxi = 30\relax
4772 \XePersian@persianxii = 30\relax
4773 \XePersian@persianxiii= 30\relax
4774 \XePersian@dn= 0\relax
4775 \XePersian@sn= 0\relax
4776 \XePersian@mminusone=\XePersian@m
4777 \advance\XePersian@mminusone by -1\relax
4778 \XePersian@i=0\relax
4779 \ifnum\XePersian@i < \XePersian@mminusone
4780 \loop
4781 \advance \XePersian@i by 1\relax
4782 \advance\XePersian@dn by \csname XePersian@latin\romannumeral\the\XePersian@i\endcsname
4783 \ifnum\XePersian@i<\XePersian@mminusone \repeat
4784 \fi
4785 \advance \XePersian@dn by \XePersian@d
4786 \XePersian@i=1\relax
4787 \XePersian@sn = \XePersian@persiani
4788 \ifnum \XePersian@sn<\XePersian@dn
4789 \loop
4790 \advance \XePersian@i by 1\relax
4791 \advance\XePersian@sn by \csname XePersian@persian\romannumeral\the\XePersian@i\endcsname
4792 \ifnum \XePersian@sn<\XePersian@dn \repeat
4793 \fi
4794 \ifnum \XePersian@i < 4
4795   \XePersian@m = 9 \advance\XePersian@m by \XePersian@i
4796   \advance \XePersian@y by -622\relax
4797 \else
4798   \XePersian@m = \XePersian@i \advance \XePersian@m by -3\relax
4799   \advance \XePersian@y by -621\relax
4800 \fi
4801 \advance\XePersian@sn by -\csname XePersian@persian\romannumeral\the\XePersian@i\%
4802 \endcsname

```



```
4803 \ifnum\XePersian@i = 1
4804   \XePersian@d = \XePersian@dn \advance \XePersian@d by 30 \advance\XePersian@d by -\XePersian@
4805 \else
4806   \XePersian@d = \XePersian@dn \advance \XePersian@d by -\XePersian@sn
4807 \fi
4808 \newcommand*\persiantoday{%
4809 \number\XePersian@d\space%
4810 \XePersian@persian@month{\XePersian@m}\space\number\XePersian@y%
4811 }
4812 \let\persianyear\XePersian@y
4813 \let\persianmonth\XePersian@m
4814 \let\persianday\XePersian@d
4815 \def\XePersian@persian@month#1{\ifcase#1\or \or \
4816 \or \
4817 \or \or \
4818 \or \
4819 \or \or \
4820 \or \or \
4821 \or \or \
4822 {fi\
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8 Change History

v13.1	General: Added implementation of the package.	o	v13.5	General: Fixed the extra space after Persian decimal separator.	147
v13.2	General: Replaced \reflect with \bidi@reflect@box.	117	v13.6	General: Used \XeTeXglyphbounds to find the true height and depth of the Kashida character.	87

