



# The XePersian *Package*

Documentation for *version 17*

*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/vafa/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).

Copyright (c) 2008–2016 Vafa Khalighi

Permission is granted to distribute and/or modify *both the documentation and the code* under the conditions of the L<sup>A</sup>T<sub>E</sub>X Project Public License, either version 1.3c of this license or (at your option) any later version.

# The XePersian *Package*

## Persian for $\text{\LaTeX} 2_{\epsilon}$ , using Xe $\text{\TeX}$ engine

Documentation for [version 17](#)

Vafa Khalighi  
[persian-tex@tug.org](mailto:persian-tex@tug.org)

November 25, 2016

## Contents

<b>1</b>	<b>Introduction</b>	<b>4</b>			
1.1	Important Notes . . . . .	4			
1.2	XePersian Info On The Terminal and In The Log File . . . . .	4			
<b>2</b>	<b>Basics</b>	<b>5</b>			
2.1	Loading The Package . . . . .	5			
2.2	XePersian's Symbol . . . . .	6			
2.3	Commands for Version number, and Date of The Package . . . . .	6			
2.4	Options of The Package . . . . .	6			
2.4.1	<code>defaultlatinfontfeatures</code> Option . . . . .	6		2.6.1	Basic Font Commands . . . . . 39
2.4.2	<code>extrafootnotefeatures</code> Option . . . . .	6		2.6.2	Defining Extra Persian and Latin Fonts . . . . . 39
2.4.3	Kashida Option . . . . .	7		2.6.3	Choosing Persian Sans Font . . . . . 40
2.4.4	<code>quickindex</code> Option . . . . .	7		2.6.4	Choosing Persian Mono Font . . . . . 40
2.4.5	<code>quickindex-variant1</code> Option . . . . .	7		2.6.5	Choosing Persian Iranic Font . . . . . 40
2.4.6	<code>quickindex-variant2</code> Option . . . . .	7		2.6.6	Choosing Persian Navar Font . . . . . 40
2.4.7	<code>localise</code> Option . . . . .	7		2.6.7	Choosing Persian Pook Font . . . . . 40
2.4.8	Localizations of the keys and key values of <code>graphicx</code> package . . . . .	35		2.6.8	Choosing Persian Sayeh Font . . . . . 40
2.4.9	Localizations of font features and font feature options . . . . .	36		2.6.9	Choosing Latin Sans Font . . . . . 40
2.5	A Sample Input $\text{\TeX}$ File . . . . .	38		2.6.10	Choosing Latin Mono Font . . . . . 40
2.6	Font Commands . . . . .	38	<b>3</b>	<b>Latin and Persian Environment</b>	<b>41</b>
			3.1	<code>latinitems</code> and <code>parsiitems</code> environments . . . . .	41
			3.2	Short Latin and Persian Texts . . . . .	41
			3.3	Miscellaneous Commands . . . . .	41
			3.4	New Commands . . . . .	42
			3.5	Additional Counters . . . . .	42
			3.6	Things To Know About <code>\setdigitfont</code> , <code>\setmathsfdigitfont</code> , and <code>\setmathttdigitfont</code> . . . . .	43

<b>4</b>	<b>New Conditionals</b>	<b>43</b>	<b>7</b>	<b>xepersian implementation</b>	<b>55</b>
4.1	Shell escape (or write18) conditional . . . . .	43	7.1	algorithmic-xepersian.def . . . . .	55
<b>5</b>	<b>Bilingual Captions</b>	<b>43</b>	7.2	algorithm-xepersian.def . . . . .	56
5.1	Support For Various Packages	44	7.3	amsart-xepersian.def . . . . .	56
5.1.1	Things You Should Know about Support For enumerate Package	44	7.4	amsbook-xepersian.def . . . . .	57
5.2	Index Generation . . . . .	44	7.5	appendix-xepersian.def . . . . .	58
5.3	Converting Your FarsiT <sub>E</sub> X Files To XePersian or Unicode	44	7.6	article-xepersian.def . . . . .	59
<b>6</b>	<b>Extra Packages And Classes</b>	<b>45</b>	7.7	artikel1-xepersian.def . . . . .	59
6.1	Magazine Typesetting . . . . .	45	7.8	artikel2-xepersian.def . . . . .	59
6.1.1	Introduction . . . . .	45	7.9	artikel3-xepersian.def . . . . .	59
6.1.2	Usage . . . . .	45	7.10	backref-xepersian.def . . . . .	59
6.1.3	Front Page . . . . .	45	7.11	bidituftesidenote-xepersian.def	60
6.1.4	Inside . . . . .	47	7.12	bidimoderncv-xepersian.def . . .	61
6.1.5	The article environment	47	7.13	boek3-xepersian.def . . . . .	61
6.1.6	The editorial environment . . . . .	48	7.14	boek-xepersian.def . . . . .	62
6.1.7	The shortarticle environment . . . . .	49	7.15	bookest-xepersian.def . . . . .	62
6.1.8	Commands between articles . . . . .	49	7.16	book-xepersian.def . . . . .	62
6.1.9	Customization . . . . .	49	7.17	breqn-xepersian.def . . . . .	62
6.1.10	Front Page . . . . .	50	7.18	latex-localise-commands-xepersian.def . . . . .	63
6.1.11	Inside The Magazine . . . . .	51	7.19	color-localise-xepersian.def . . .	82
6.1.12	Class Options . . . . .	52	7.20	xepersian-localise-commands-xepersian.def . . . . .	82
6.2	Typesetting Multiple-choice Questions . . . . .	52	7.21	enumerate-xepersian.def . . . . .	84
6.2.1	Introduction . . . . .	52	7.22	latex-localise-environments-xepersian.def . . . . .	84
6.2.2	Usage . . . . .	53	7.23	xepersian-localise-environments-xepersian.def . . . . .	85
6.2.3	Loading The Package . . . . .	53	7.24	extarticle-xepersian.def . . . . .	85
6.2.4	Creating Questions . . . . .	53	7.25	extbook-xepersian.def . . . . .	85
6.2.5	The question Environment . . . . .	53	7.26	extrafootnotefeatures-xepersian.def . . . . .	86
6.2.6	Question Numbers . . . . .	53	7.27	extreport-xepersian.def . . . . .	86
6.2.7	The Form and the Mask	54	7.28	flowfram-xepersian.def . . . . .	86
6.2.8	Typesetting corrections	54	7.29	footnote-xepersian.def . . . . .	87
6.2.9	Important Note . . . . .	54	7.30	framed-xepersian.def . . . . .	89
6.3	Customising The Package . . . . .	54	7.31	glossaries-xepersian.def . . . . .	89
6.3.1	The question environment . . . . .	55	7.32	hyperref-xepersian.def . . . . .	89
6.3.2	The Form and the Mask	55	7.33	imsproc-xepersian.def . . . . .	90
6.3.3	The correction . . . . .	55	7.34	kashida-xepersian.def . . . . .	93
			7.35	listings-xepersian.def . . . . .	94
			7.36	loadingorder-xepersian.def . . .	94
			7.37	localise-xepersian.def . . . . .	95
			7.38	memoir-xepersian.def . . . . .	96
			7.39	latex-localise-messages-xepersian.def . . . . .	97
			7.40	minitoc-xepersian.def . . . . .	97
			7.41	latex-localise-misc-xepersian.def	97
			7.42	natbib-xepersian.def . . . . .	104
			7.43	packages-localise-xepersian.def	109



7.44	parsidigits.map . . . . .	112	7.53	tkz-linknodes-xepersian.def . . .	116
7.45	rapport1-xepersian.def . . . . .	113	7.54	tocloft-xepersian.def . . . . .	116
7.46	rapport3-xepersian.def . . . . .	113	7.55	xepersian.sty . . . . .	116
7.47	refrep-xepersian.def . . . . .	113	7.56	xepersian-magazine.cls . . . . .	132
7.48	report-xepersian.def . . . . .	113	7.57	xepersian-mathsdigitspec.sty . .	150
7.49	scrartcl-xepersian.def . . . . .	113	7.58	xepersian-multiplechoice.sty . .	154
7.50	scrbook-xepersian.def . . . . .	114	7.59	xepersian-persiancal.sty . . . .	157
7.51	scrreprt-xepersian.def . . . . .	115			
7.52	soul-xepersian.def . . . . .	115	8	Change History	195



## 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  $\LaTeX$  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--2016 Vafa Khalighi
*
* v17, 2016/11/25
*
* License: LaTeX Project Public License, version
* 1.3c or higher (your choice)
*
* Location on CTAN: /macros/xetex/latex/xepersian
*
* Issue tracker: https://github.com/vafa/xepersian/issues
```



\*  
 \* Support: [persian-tex@tug.org](mailto: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<sub>E</sub>X but lion does not symbolizes XePersian. **Simorgh**<sup>1</sup> (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.

<sup>1</sup>Simorgh 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  $\bar{t}$  is grouped under  $l$ ) for sorting Persian alphabets.

### 2.4.6 quickindex-variant2 Option

Same as `quickindex` Option but uses variant two (in which  $\bar{t}$  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:

```
\eqcommand{<command-name in Persian>}{<original LaTeX command-name>}
\eqenvironment{<environment-name in Persian>}{<original LaTeX environment-name>}
```

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>\abovedisplaysshortskip</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>\بیفزاسطر فهرست</code>
<code>\addpenalty</code>	<code>\اضافه بر جریمه</code>
<code>\address</code>	<code>\نشانی</code>
<code>\addtocontents</code>	<code>\بیفزابه فهرست</code>
<code>\addtocounter</code>	<code>\اضافه بر شمارنده</code>
<code>\addtolength</code>	<code>\اضافه بر بعد</code>
<code>\addvspace</code>	<code>\بیفزافضای و</code>
<code>\adjdemerits</code>	<code>\تنظیم بدنمایی</code>
<code>\advance</code>	<code>\بیفزابر</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 <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
\allowbreak	\شکستی
\alloc@	\تخصی@
\allocationnumber	\تخصیص یافته
\allowdisplaybreaks	\شکست نمایش مجاز
\Alph	\حروف بزرگ
\alph	\حروف کوچک
\alsoname	\نام همچنین
\and	\و
\angle	\زاویه
\appendixname	\عنوان پیوست
\approx	\تقریب
\arabic	\عربی
\arg	\آرگ
\arrayrulecolor	\رنگ خط جدول
\arraycolsep	\فاصله ستونهای آرایه
\arrayrulewidth	\ضخامت خط جدول
\arraystretch	\کشیدگی آرایه
\AtBeginDocument	\در آغاز نوشتار
\AtEndDocument	\در پایان نوشتار
\AtEndOfClass	\در انتهای طبقه
\AtEndOfPackage	\در انتهای سبک
\author	\نویسنده
\backmatter	\مطلب پشت
\backslash	\شکاف پشت
\badness	\بدنمایی
\bar	\میل
\baselineskip	\فاصله کرسی
\baselinestretch	\کشش 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 T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\bibliography</code>	\کتاب نامه
<code>\bibliographystyle</code>	\سبک کتاب نامه
<code>\bibname</code>	\عنوان کتاب نامه
<code>\bigskip</code>	\پرش بلند
<code>\bigskipamount</code>	\مقدار پرش بلند
<code>\botfigrule</code>	\خط پایین شناور
<code>\botmark</code>	\علامت پایین
<code>\bottompageskip</code>	\کادر تا پایین
<code>\bottomfraction</code>	\نسبت پایین
<code>\box</code>	\کادر
<code>\boxmaxdepth</code>	\حد اکثر عمق کادر
<code>\break</code>	\شکن
<code>\bullet</code>	\گلوله
<code>@cclv</code>	\دوپن@پنج
<code>@ccclvi</code>	\دوپن@شش
<code>\caption</code>	\شرح
<code>\catcode</code>	\کدرده
<code>\cc</code>	\رونوشت
<code>\ccname</code>	\نام رونوشت
<code>\cdot</code>	\نقطه وسط
<code>\cdots</code>	\نقاط وسط
<code>\centering</code>	\تنظیم از وسط
<code>\centerline</code>	\خط وسط
<code>\ch@ck</code>	\چک@ن
<code>\chapter</code>	\فصل
<code>\chaptername</code>	\عنوان فصل
<code>\char</code>	\نویسه
<code>\chardef</code>	\تعریف نویسه
<code>\CheckCommand</code>	\برسی فرمان
<code>\cite</code>	\مرجع
<code>\ClassError</code>	\خطای طبقه
<code>\ClassInfo</code>	\اطلاع طبقه
<code>\ClassWarning</code>	\هشدار طبقه
<code>\ClassWarningNoLine</code>	\هشدار طبقه بی سطر
<code>\cleaders</code>	\نشانگر مرکزی
<code>\cleardoublepage</code>	\دو صفحه پاک
<code>\clearpage</code>	\صفحه پاک
<code>\cline</code>	\خط ناپر
<code>\closein</code>	\ببندورودی
<code>\closeout</code>	\ببندخروجی

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\closing</code>	\بستن
<code>\clubpenalty</code>	\جریمه سر بند
<code>\clubsuit</code>	\خاج
<code>\colbotmark</code>	\علامت پایین ستون اول
<code>\colfirstmark</code>	\علامت اول ستون اول
<code>\color</code>	\رنگ
<code>\colorbox</code>	\کادر رنگ
<code>\coltopmark</code>	\علامت بالای ستون اول
<code>\columncolor</code>	\رنگ ستون
<code>\columnsep</code>	\بین ستون
<code>\columnwidth</code>	\پهنای ستون
<code>\columnseprule</code>	\خط بین ستون
<code>\contentsline</code>	\سطر فهرست
<code>\contentsname</code>	\عنوان فهرست مطالب
<code>\copy</code>	\کپی
<code>\copyright</code>	\حق تالیف
<code>\count</code>	\شمار
<code>\count@</code>	\شمار@
<code>\countdef</code>	\تعریف شمار
<code>\cr</code>	\سخ
<code>\crrc</code>	\سخ سخ
<code>\csname</code>	\نام فرمان
<code>\CurrentOption</code>	\گزینه جاری
<code>\dashbox</code>	\کادر بینابین
<code>\dashv</code>	\بینابین ع
<code>\@date</code>	\@تاریخ
<code>\date</code>	\تاریخ
<code>\day</code>	\روز
<code>\dblbotfigrule</code>	\خط پایین شناور پهن
<code>\dblbottomfraction</code>	\نسبت پهن پایین
<code>\dblfigrule</code>	\خط بالای شناور پهن
<code>\dblfloatpagefraction</code>	\نسبت صفحه شناور پهن
<code>\dblfloatsep</code>	\فاصله بین شناور پهن
<code>\dblftntlocatecode</code>	\کد مکان غیرهما نطور
<code>\dbltextfloatsep</code>	\فاصله متن و شناور پهن
<code>\dbltopfraction</code>	\نسبت پهن بالا
<code>\DeclareFixedFont</code>	\اعلان قلم ثابت
<code>\DeclareGraphicsExtensions</code>	\اعلان پسوند گرافیک
<code>\DeclareGraphicsRule</code>	\اعلان دستور گرافیک
<code>\DeclareOldFontCommand</code>	\اعلان فرمان قلم قدیمی

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\DeclareOption</code>	<code>\اعلان گزینه</code>
<code>\DeclareRobustCommand</code>	<code>\اعلان فرمان قوی</code>
<code>\DeclareSymbolFont</code>	<code>\اعلان قلم علائم</code>
<code>\deadcycles</code>	<code>\دور بسته</code>
<code>\def</code>	<code>\تر</code>
<code>\define@key</code>	<code>\تعریف@کلید</code>
<code>\definecolor</code>	<code>\تعریف رنگ</code>
<code>\deg</code>	<code>\درجه</code>
<code>\delcode</code>	<code>\کد جداساز</code>
<code>\delimiter</code>	<code>\جداساز</code>
<code>\delimiterfactor</code>	<code>\ضریب جداساز</code>
<code>\depth</code>	<code>\گودی</code>
<code>\diamondsuit</code>	<code>\خشت</code>
<code>\dim</code>	<code>\بعد</code>
<code>\dimen</code>	<code>\بعد</code>
<code>\dimen@</code>	<code>\بعد@</code>
<code>\dimen@i</code>	<code>\بعد@یک</code>
<code>\dimen@ii</code>	<code>\بعد@دو</code>
<code>\dimendef</code>	<code>\تعریف بعد</code>
<code>\discretionary</code>	<code>\تیره گذاری</code>
<code>\displaybreak</code>	<code>\شکست نمایش</code>
<code>\displayindent</code>	<code>\تورفتگی نمایش</code>
<code>\displaystyle</code>	<code>\سبک نمایش</code>
<code>\displaywidth</code>	<code>\عرض نمایش</code>
<code>\divide</code>	<code>\تقسیم</code>
<code>\documentclass</code>	<code>\طبقه نوشتار</code>
<code>\do</code>	<code>\کن</code>
<code>\dospecials</code>	<code>\تعویض کدها</code>
<code>\dot</code>	<code>\نقطه</code>
<code>\doteq</code>	<code>\نقطه مساوی</code>
<code>\dotfill</code>	<code>\پر نقطه</code>
<code>\dots</code>	<code>\نقاط</code>
<code>\doublebox</code>	<code>\کادر دولا</code>
<code>\doublerulesepcolor</code>	<code>\رنگ فاصله دو خط جدول</code>
<code>\doublerulesep</code>	<code>\فاصله بین دو خط</code>
<code>\downarrow</code>	<code>\فلش پایین</code>
<code>\dp</code>	<code>\عمق</code>
<code>\dump</code>	<code>\تخلیه</code>
<code>\edef</code>	<code>\ترگ</code>
<code>\egroup</code>	<code>\پا گروه</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\eject</code>	<code>\انتهای فاصله</code>
<code>\else</code>	<code>\اگر نه</code>
<code>\em</code>	<code>\تاکید</code>
<code>\emergencystretch</code>	<code>\کشش لاجرم</code>
<code>\emph</code>	<code>\موکد</code>
<code>\@empty</code>	<code>\@پوچ</code>
<code>\empty</code>	<code>\پوچ</code>
<code>\emptyset</code>	<code>\مجموعه پوچ</code>
<code>\end</code>	<code>\پایان</code>
<code>\endL</code>	<code>\پایان چپ</code>
<code>\endR</code>	<code>\پایان راست</code>
<code>\endcsname</code>	<code>\پایان نام فرمان</code>
<code>\endfirsthead</code>	<code>\پایان اولین سر</code>
<code>\endfoot</code>	<code>\پایان پا</code>
<code>\endgraf</code>	<code>\ته بند</code>
<code>\endgroup</code>	<code>\پایان گروه</code>
<code>\endhead</code>	<code>\پایان سر</code>
<code>\endinput</code>	<code>\پایان ورودی</code>
<code>\endlastfoot</code>	<code>\پایان آخرین پا</code>
<code>\enlargethispage</code>	<code>\گسترش این صفحه</code>
<code>\endline</code>	<code>\ته سطر</code>
<code>\endlinechar</code>	<code>\نویسه ته سطر</code>
<code>\enspace</code>	<code>\ان دوری</code>
<code>\enskip</code>	<code>\ان فاصله</code>
<code>\eqcommand</code>	<code>\فرمان جانشین</code>
<code>\eqenvironment</code>	<code>\محیط جانشین</code>
<code>\eqref</code>	<code>\ارجاع فر</code>
<code>\errhelp</code>	<code>\کمک خطا</code>
<code>\errmessage</code>	<code>\پیام خطا</code>
<code>\errorcontextlines</code>	<code>\سطر متن خطا</code>
<code>\errorstopmode</code>	<code>\پردازش توقف خطا</code>
<code>\escapechar</code>	<code>\نویسه ویژه</code>
<code>\euro</code>	<code>\یورو</code>
<code>\evensidemargin</code>	<code>\حاشیه زوج</code>
<code>\everycr</code>	<code>\هرسخ</code>
<code>\everydisplay</code>	<code>\هرنمایش</code>
<code>\everyhbox</code>	<code>\هرکادر</code>
<code>\everyjob</code>	<code>\هرکار</code>
<code>\everymath</code>	<code>\هرریاضی</code>
<code>\everypar</code>	<code>\هربند</code>

*Continued on next page*



## Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X    Equivalent Persian Command

<code>\everyvbox</code>	<code>\هرکادرو</code>
<code>\ExecuteOptions</code>	<code>\اجرای گزینه ها</code>
<code>\exhyphenpenalty</code>	<code>\جریمه اضافی تیره بندی</code>
<code>\expandafter</code>	<code>\بگستر پس از</code>
<code>\extracolsep</code>	<code>\فاصله اضافی بین ستونها</code>
<code>\@firstofone</code>	<code>\@اولی از یک</code>
<code>\@firstoftwo</code>	<code>\@اولی از دو</code>
<code>\f@ur</code>	<code>\چ@ار</code>
<code>\fam</code>	<code>\خانواده</code>
<code>\fancy page</code>	<code>\صفحه تجملی</code>
<code>\fbox</code>	<code>\کادر با</code>
<code>\fboxrule</code>	<code>\ضخامت کادر با</code>
<code>\fboxsep</code>	<code>\حاشیه کادر با</code>
<code>\fcolorbox</code>	<code>\کادر با رنگ</code>
<code>\fi</code>	<code>\رگ</code>
<code>\figurename</code>	<code>\عنوان شکل</code>
<code>\filbreak</code>	<code>\پر شکن</code>
<code>\fill</code>	<code>\پر</code>
<code>\firstmark</code>	<code>\علامت اول</code>
<code>\flat</code>	<code>\پهن</code>
<code>\floatpagefraction</code>	<code>\نسبت صفحه شناور</code>
<code>\floatingpenalty</code>	<code>\جریمه شناور</code>
<code>\floatsep</code>	<code>\فاصله بین شناور</code>
<code>\flushbottom</code>	<code>\تنظیم از پایین</code>
<code>\fmtname</code>	<code>\شکل بندی</code>
<code>\fmtversion</code>	<code>\رده شکل بندی</code>
<code>\fnsymbol</code>	<code>\نشانه</code>
<code>\font</code>	<code>\قلم</code>
<code>\fontdimen</code>	<code>\بعد قلم</code>
<code>\fontencoding</code>	<code>\رمزینه قلم</code>
<code>\fontfamily</code>	<code>\فامیل قلم</code>
<code>\fontname</code>	<code>\نام قلم</code>
<code>\fontseries</code>	<code>\شمار قلم</code>
<code>\fontshape</code>	<code>\شکل قلم</code>
<code>\fontsize</code>	<code>\اندازه قلم</code>
<code>\footheight</code>	<code>\بلندای پایین صفحه</code>
<code>\footins</code>	<code>\درج زیر نویس</code>
<code>\footnote</code>	<code>\زیر نویس</code>
<code>\footnotemark</code>	<code>\علامت زیر نویس</code>
<code>\footnoterule</code>	<code>\خط زیر نویس</code>

*Continued on next page*



### Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X      Equivalent Persian Command

\footnotesep	\فاصله تازیرنویس
\footnotesize	\اندازه زیرنویس
\footnotetext	\متن زیرنویس
\footskip	\فاصله تا پایین صفحه
\frame	\فریم
\framebox	\کادر با خط
\frenchspacing	\فواصل یکنواخت لاتین
\frontmatter	\مطلب پیش
\futurelet	\بعد بگذار
\@gobble	\@خور حر یصانه
\@gobbletwo	\@خور حر یصانه دو
\@gobblefour	\@خور حر یصانه چهار
\@gtempa	\@عاق ت آ
\@gtempb	\@عاق ت ب
\gdef	\ترع
\GenericInfo	\الگوی اطلاع
\GenericWarning	\الگوی هشدار
\GenericError	\الگوی خطا
\global	\عام
\globaldefs	\تعاریف عام
\glossary	\لغت نامه
\glossaryentry	\فقره فرهنگ
\goodbreak	\خوش شکن
\graphpaper	\کاغذ گراف
\guillemotleft	\گیومه چپ
\guillemotright	\گیومه راست
\guilsinglleft	\گیومه تکی چپ
\guilsinglright	\گیومه تکی راست
\halign	\ردیف ا
\hang	\برو تو
\hangafter	\بعد از سطر
\hangindent	\تورفتگی ثابت
\hbadness	\بدنمایی ا
\hbox	\کادرا
\headheight	\بلندای سر صفحه
\headsep	\فاصله از سر صفحه
\headtoname	\سربه نام
\heartsuit	\دل
\height	\بلندا
\hfil	\پرا

*Continued on next page*





### Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X      Equivalent Persian Command

<code>\hfill</code>	<code>\</code> پررا
<code>\hfilneg</code>	<code>\</code> رفع‌پرا
<code>\hfuzz</code>	<code>\</code> پرزا فقی
<code>\hideskip</code>	<code>\</code> فاصله مخفی
<code>\hidewidth</code>	<code>\</code> عرض پنهان
<code>\hline</code>	<code>\</code> خط‌پر
<code>\hoffset</code>	<code>\</code> حاشیه ا
<code>\holdinginserts</code>	<code>\</code> حفظ درج
<code>\hrboxsep</code>	<code>\</code> فاصله اگر
<code>\hrule</code>	<code>\</code> خط ا
<code>\hrulefill</code>	<code>\</code> پرخط ا
<code>\hsize</code>	<code>\</code> طول سطر
<code>\hskip</code>	<code>\</code> فاصله ا
<code>\hspace</code>	<code>\</code> فضای ا
<code>\hss</code>	<code>\</code> هر دو
<code>\ht</code>	<code>\</code> ارتفاع
<code>\huge</code>	<code>\</code> بزرگ
<code>\Huge</code>	<code>\</code> بزرگ‌تر
<code>\hyperlink</code>	<code>\</code> ابر پیوند
<code>\hypersetup</code>	<code>\</code> بارگذاری ابر
<code>\hypertarget</code>	<code>\</code> هدف ابر
<code>\hyphenation</code>	<code>\</code> تیره‌بندی
<code>\hyphenchar</code>	<code>\</code> نویسه تیره
<code>\hyphenpenalty</code>	<code>\</code> جریمه تیره‌بندی
<code>\@ifclassloaded</code>	<code>\</code> @گر کلاس فراخوانی شده
<code>\@ifdefinable</code>	<code>\</code> @گر ترشدنی
<code>\@ifnextchar</code>	<code>\</code> @گر نویسه بعدی
<code>\@ifpackageloaded</code>	<code>\</code> @گر سبک فراخوانی شده
<code>\@ifstar</code>	<code>\</code> @گر ستاره
<code>\@ifundefined</code>	<code>\</code> @گر تعریف نشده
<code>\if</code>	<code>\</code> گر
<code>\if@tempswa</code>	<code>\</code> گر@سواقت آ
<code>\ifcase</code>	<code>\</code> گرانواع
<code>\ifcat</code>	<code>\</code> گررده
<code>\ifdefined</code>	<code>\</code> گر تعریف شده
<code>\ifdim</code>	<code>\</code> گر بعد
<code>\ifeof</code>	<code>\</code> گرته‌پرونده
<code>\iff</code>	<code>\</code> گر
<code>\iffalse</code>	<code>\</code> گر نادرست
<code>\IfFileExists</code>	<code>\</code> گر پرونده موجود

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\ifhbox</code>	\گرکادرا
<code>\ifhmode</code>	\گرحالت ا
<code>\ifinner</code>	\گردرونی
<code>\ifmmode</code>	\گرحالت ریاضی
<code>\ifnum</code>	\گرعدد
<code>\ifodd</code>	\گرفرد
<code>\ifthenelse</code>	\گرآنگاه دیگر
<code>\iftrue</code>	\گردرست
<code>\ifvbox</code>	\گرکادرو
<code>\ifvmode</code>	\گرحالت و
<code>\ifvoid</code>	\گرتهی
<code>\ifx</code>	\گرتام
<code>\ignorespaces</code>	\فاصله خالی رانده بگير
<code>\immediate</code>	\فوری
<code>\include</code>	\شامل
<code>\includegraphics</code>	\درج تصویر
<code>\includeonly</code>	\مشمولین
<code>\indent</code>	\تورفتگی
<code>\index</code>	\درنمایه
<code>\indexentry</code>	\استعلام
<code>\indexname</code>	\عنوان نمایه
<code>\indexspace</code>	\فاصله رهنما
<code>\input</code>	\ورودی
<code>\InputIfFileExists</code>	\ورودپرونده گرموجود
<code>\inputlineno</code>	\شماره سطرورودی
<code>\insert</code>	\درج
<code>\insertpenalties</code>	\جریمه درج
<code>\interfootnotelinepenalty</code>	\جریمه بین سطرهای زیرنویس
<code>\interdisplaylinepenalty</code>	\جریمه بین سطرهای نمایش
<code>\interlinepenalty</code>	\جریمه بین سطرها
<code>\intertext</code>	\متن داخلی
<code>\intertextsep</code>	\فاصله شناورد رمتن
<code>\invisible</code>	\مخفی
<code>\itdefault</code>	\پیش فرض ای
<code>\itshape</code>	\شکل ایتالیک
<code>\item</code>	\فقره
<code>\itemindent</code>	\تورفتگی فقره
<code>\itemsep</code>	\فاصله فقره
<code>\iterate</code>	\تکرارکن
<code>\itshape</code>	\شکل ای

*Continued on next page*



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

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\let</code>	<code>\بگذار</code>
<code>\line</code>	<code>\سطر</code>
<code>\linebreak</code>	<code>\سطرشکن</code>
<code>\linepenalty</code>	<code>\جریمه سطر</code>
<code>\lineskip</code>	<code>\فاصله سطرها</code>
<code>\lineskiplimit</code>	<code>\حد فاصله سطر</code>
<code>\linespread</code>	<code>\کشش فاصله سطر</code>
<code>\linethickness</code>	<code>\ضخامت خط</code>
<code>\linewidth</code>	<code>\پهنای سطر</code>
<code>\listfigurename</code>	<code>\عنوان فهرست اشکال</code>
<code>\listfiles</code>	<code>\لیست پرونده ها</code>
<code>\listoffigures</code>	<code>\فهرست اشکال</code>
<code>\listoftables</code>	<code>\فهرست جداول</code>
<code>\listparindent</code>	<code>\تورفتگی بند لیست</code>
<code>\listtablename</code>	<code>\عنوان فهرست جداول</code>
<code>\LoadClass</code>	<code>\بارکن طبقه</code>
<code>\LoadClassWithOptions</code>	<code>\بارکن طبقه با گزینه</code>
<code>\location</code>	<code>\مکان</code>
<code>\long</code>	<code>\بلند</code>
<code>\loop</code>	<code>\حلقه</code>
<code>\looseness</code>	<code>\گسیختگی</code>
<code>\lower</code>	<code>\انتقال بپایین</code>
<code>\@makeother</code>	<code>\@دیگر</code>
<code>\@m</code>	<code>\@زار</code>
<code>\@M</code>	<code>\ده@زار</code>
<code>\@Mi</code>	<code>\ده@زاریک</code>
<code>\@Mii</code>	<code>\ده@زاردو</code>
<code>\@Miii</code>	<code>\ده@زارسه</code>
<code>\@Miv</code>	<code>\ده@زارچهار</code>
<code>\@MM</code>	<code>\بیس@زار</code>
<code>\m@ne</code>	<code>\من@a</code>
<code>\mag</code>	<code>\بزرگ نمایی</code>
<code>\magstep</code>	<code>\گام</code>
<code>\magstephalf</code>	<code>\نیم گام</code>
<code>\mainmatter</code>	<code>\مطلب اصلی</code>
<code>\makeatletter</code>	<code>\ات حرف</code>
<code>\makeatother</code>	<code>\ات دیگر</code>
<code>\makebox</code>	<code>\کادر بی خط</code>
<code>\makeglossary</code>	<code>\ساخت فرهنگ</code>
<code>\makeindex</code>	<code>\تهیه نمایه</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\makelabel</code>	\ساخت برچسب
<code>\makelabels</code>	\ساخت برچسب ها
<code>\MakeLowercase</code>	\ساخت حروف کوچک
<code>\maketitle</code>	\عنوان ساز
<code>\MakeUppercase</code>	\ساخت حروف بزرگ
<code>\marginpar</code>	\در حاشیه
<code>\marginparpush</code>	\فاصله دو حاشیه
<code>\marginparsep</code>	\فاصله تا حاشیه
<code>\marginparwidth</code>	\پهنای حاشیه
<code>\mark</code>	\علامت
<code>\markboth</code>	\علامت در دو طرف
<code>\markright</code>	\علامت در راست
<code>\mathaccent</code>	\اعراب ریاضی
<code>\mathchar</code>	\نویسه ریاضی
<code>\mathchardef</code>	\تعریف نویسه ریاضی
<code>\mathcode</code>	\کد ریاضی
<code>\mathrm</code>	\ریاضی رومن
<code>\maxdeadcycles</code>	\حد اکثر تکرار
<code>\maxdepth</code>	\حد اکثر عمق صفحه
<code>\maxdimen</code>	\بعد بیشین
<code>\mbox</code>	\کادر بی
<code>\mdseries</code>	\شمایل نازک
<code>\meaning</code>	\معنا
<code>\mediumseries</code>	\نازک
<code>\medmuskip</code>	\فاصله متوسط ریاضی
<code>\medskip</code>	\پرش متوسط
<code>\medskipamount</code>	\مقدار پرش متوسط
<code>\medspace</code>	\فضای متوسط
<code>\message</code>	\پیام
<code>\MessageBreak</code>	\پیام شکن
<code>\minrowclearance</code>	\حد اقل فاصله ردیف
<code>\mkern</code>	\دوری ریاضی
<code>\month</code>	\ماه
<code>\moveleft</code>	\انتقال بچپ
<code>\moveright</code>	\انتقال بر راست
<code>\mskip</code>	\فاصله ریاضی
<code>\m@th</code>	\ری @ ضی
<code>\multicolumn</code>	\چند ستونی
<code>\multiply</code>	\ضرب
<code>\multispan</code>	\چند ادغام

*Continued on next page*



### Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X      Equivalent Persian Command

<code>\muskip</code>	<code>\ميوفاصله</code>
<code>\muskipdef</code>	<code>\تعريف ميوفاصله</code>
<code>\@namedef</code>	<code>\@ترنام</code>
<code>\@nameuse</code>	<code>\@کاربردنام</code>
<code>\@ne</code>	<code>\یک@</code>
<code>\name</code>	<code>\نام</code>
<code>\natural</code>	<code>\طبيعي</code>
<code>\narrow</code>	<code>\باريك</code>
<code>\narrower</code>	<code>\باريکتر</code>
<code>\NeedsTeXFormat</code>	<code>\شکلبندی مورد نیاز</code>
<code>\neg</code>	<code>\منفی</code>
<code>\negmedspace</code>	<code>\فضای متوسط منفی</code>
<code>\negthickspace</code>	<code>\فضای ضخیم منفی</code>
<code>\negthinspace</code>	<code>\دوری کوچک منفی</code>
<code>\newboolean</code>	<code>\بولی نو</code>
<code>\newbox</code>	<code>\کادر جدید</code>
<code>\newcommand</code>	<code>\فرمان نو</code>
<code>\newcount</code>	<code>\شمار جدید</code>
<code>\newcounter</code>	<code>\شمارنده جدید</code>
<code>\newdimen</code>	<code>\بعد جدید</code>
<code>\newenvironment</code>	<code>\محیط نو</code>
<code>\newfam</code>	<code>\خانواده جدید</code>
<code>\newfont</code>	<code>\قلم نو</code>
<code>\newhelp</code>	<code>\کمک جدید</code>
<code>\newif</code>	<code>\گر جدید</code>
<code>\newinsert</code>	<code>\درج جدید</code>
<code>\newlabel</code>	<code>\برچسب جدید</code>
<code>\newlength</code>	<code>\تعریف بعد جدید</code>
<code>\newline</code>	<code>\سطر جدید</code>
<code>\newlinechar</code>	<code>\نویسه سطر جدید</code>
<code>\newmuskip</code>	<code>\ميوفاصله جديد</code>
<code>\newpage</code>	<code>\صفحه جديد</code>
<code>\newread</code>	<code>\بخوان جديد</code>
<code>\newsavebox</code>	<code>\تعريف کادر جديد</code>
<code>\newskip</code>	<code>\فاصله جديد</code>
<code>\newtheorem</code>	<code>\قضيه جديد</code>
<code>\newtoks</code>	<code>\جزء جديد</code>
<code>\newwrite</code>	<code>\بنويس جديد</code>
<code>\noalign</code>	<code>\بی ردیف</code>
<code>\nobreak</code>	<code>\نشکن</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\nobreakspace</code>	<code>\فاصله نشکستی</code>
<code>\nocite</code>	<code>\بدون سند</code>
<code>\noexpand</code>	<code>\نگستر</code>
<code>\nofiles</code>	<code>\بدون پرونده</code>
<code>\noindent</code>	<code>\بدون تورفتگی</code>
<code>\nointerlineskip</code>	<code>\بی فاصله سطر</code>
<code>\nolimits</code>	<code>\بدون حد</code>
<code>\nolinebreak</code>	<code>\سطرنشکن</code>
<code>\nonstopmode</code>	<code>\پردازش بدون توقف</code>
<code>\nonfrenchspacing</code>	<code>\فواصل متعارف لاتین</code>
<code>\nonumber</code>	<code>\بدون شماره</code>
<code>\nopagebreak</code>	<code>\صفحه نشکن</code>
<code>\normalbaselines</code>	<code>\کرسیهای متعارف</code>
<code>\normalbaselineskip</code>	<code>\فاصله کرسی متعارف</code>
<code>\normalcolor</code>	<code>\رنگ عادی</code>
<code>\normalfont</code>	<code>\قلم عادی</code>
<code>\normallineskip</code>	<code>\فاصله سطرمتعارف</code>
<code>\normallineskiplimit</code>	<code>\حد فاصله سطرمتعارف</code>
<code>\normalmarginpar</code>	<code>\در حاشیه عادی</code>
<code>\normalsize</code>	<code>\اندازه عادی</code>
<code>\notag</code>	<code>\بدون اتیکت</code>
<code>\null</code>	<code>\نول</code>
<code>\nullfont</code>	<code>\قلم تهی</code>
<code>\number</code>	<code>\عدد</code>
<code>\numberline</code>	<code>\سطر عددی</code>
<code>\numberwithin</code>	<code>\شماره مطابق</code>
<code>\@evenfoot</code>	<code>\پایین صفحه زوج</code>
<code>\@evenhead</code>	<code>\بالای صفحه زوج</code>
<code>\@oddfoot</code>	<code>\پایین صفحه فرد</code>
<code>\@oddhead</code>	<code>\بالای صفحه فرد</code>
<code>\@outeqntrue</code>	<code>\شماره بیرون درست</code>
<code>\@outeqnfalse</code>	<code>\شماره بیرون نادرست</code>
<code>\obeylines</code>	<code>\سطر به سطر</code>
<code>\obeyspaces</code>	<code>\فضا فعال</code>
<code>\oddsidemargin</code>	<code>\حاشیه فرد</code>
<code>\offinterlineskip</code>	<code>\سطور بی فاصله</code>
<code>\omit</code>	<code>\حذف</code>
<code>\@onlypreamble</code>	<code>\@تنهادرپیش در آمد</code>
<code>\onecolumn</code>	<code>\یک ستون</code>
<code>\onlynotes</code>	<code>\تنهایداشت ها</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
\onlyslides	\تنها اسلایدها
\openin	\بازکن ورودی
\openout	\بازکن خروجی
\OptionNotUsed	\گزینه مصرف نشده
\or	\یا
\outer	\برونی
\output	\صفحه بندی
\outputpenalty	\جریمه صفحه بندی
\overfullrule	\علامت سرریز
\@preamblecmds	\@فرمان های پیش در آمد
\p@	\@پو
\PackageError	\خطای سبک
\PackageInfo	\اطلاع سبک
\PackageWarning	\هشدار سبک
\PackageWarningNoLine	\هشدار سبک بی سطر
\pagebreak	\صفحه شکن
\pagecolor	\رنگ صفحه
\pagedepth	\عمق صفحه
\pagefillllstretch	\کشش پررر صفحه
\pagefilllstretch	\کشش پرر صفحه
\pagefilstretch	\کشش پر صفحه
\pagegoal	\غایت صفحه
\pagename	\نام صفحه
\pagenumbering	\شماره گذاری صفحه
\pageref	\ارجوع صفحه
\pagerulewidth	\ضخامت خط صفحه
\pageshrink	\فشرده گی صفحه
\pagestretch	\کشش صفحه
\pagestyle	\سبک صفحه
\pagetotal	\جمع صفحه
\paperheight	\بلندای کاغذ
\paperwidth	\پهنای کاغذ
\par	\بند
\paragraph	\پاراگراف
\parallel	\موازی
\parbox	\کادر پار
\parfillskip	\فاصله ته بند
\parindent	\تورفتگی سر بند
\parsep	\فاصله بند لیست
\parshape	\شکل بند

*Continued on next page*





Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\parskip</code>	<code>\فاصله‌بند</code>
<code>\part</code>	<code>\بخش</code>
<code>\partname</code>	<code>\عنوان‌بخش</code>
<code>\partopsep</code>	<code>\فاصله‌بالای لیست‌بند</code>
<code>\PassOptionToClass</code>	<code>\ارسال گزینه به کلاس</code>
<code>\PassOptionToPackage</code>	<code>\ارسال گزینه به پکیج</code>
<code>\path</code>	<code>\مسیر</code>
<code>\patterns</code>	<code>\الگوها</code>
<code>\pausing</code>	<code>\مکث</code>
<code>\penalty</code>	<code>\جریمه</code>
<code>\phantom</code>	<code>\غیب</code>
<code>\poptabs</code>	<code>\الگوی قبلی</code>
<code>\postdisplaypenalty</code>	<code>\جریمه پس نمایش</code>
<code>\predisplaydirection</code>	<code>\جهت پیش نمایش</code>
<code>\predisplaypenalty</code>	<code>\جریمه پیش نمایش</code>
<code>\preplaysize</code>	<code>\اندازه پیش نمایش</code>
<code>\pretolerance</code>	<code>\پیش حد بدنمایی</code>
<code>\prevdepth</code>	<code>\عمق قبلی</code>
<code>\prevgraf</code>	<code>\بند قبلی</code>
<code>\printindex</code>	<code>\نمایه در اینجا</code>
<code>\ProcessOptions</code>	<code>\پردازش گزینه ها</code>
<code>\protect</code>	<code>\تأمین</code>
<code>\providecommand</code>	<code>\تهیه فرمان</code>
<code>\ProvidesClass</code>	<code>\آماده سازی طبقه</code>
<code>\ProvidesFile</code>	<code>\آماده سازی پرونده</code>
<code>\ProvidesPackage</code>	<code>\آماده سازی سبک</code>
<code>\pushtabs</code>	<code>\ثبت الگو</code>
<code>\quad</code>	<code>\کواد</code>
<code>\qqquad</code>	<code>\کو کواد</code>
<code>\@outputpagerestore</code>	<code>\@بازآیی خروج صفحه</code>
<code>\radical</code>	<code>\رادیكال</code>
<code>\raggedbottom</code>	<code>\پایین بی تنظیم</code>
<code>\raggedleft</code>	<code>\تنظیم از راست</code>
<code>\raggedright</code>	<code>\تنظیم از چپ</code>
<code>\raise</code>	<code>\انتقال ببالا</code>
<code>\raisebox</code>	<code>\بالا بر</code>
<code>\raisetag</code>	<code>\ترفع اتيكت</code>
<code>\rangle</code>	<code>\زاويه ر</code>
<code>\rceil</code>	<code>\سقف ر</code>
<code>\read</code>	<code>\بخوان</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\ref</code>	<code>\رجوع</code>
<code>\reflectbox</code>	<code>\کادرقرینه</code>
<code>\refname</code>	<code>\عنوان مراجع</code>
<code>\refstepcounter</code>	<code>\گام شمارنده مرجع</code>
<code>\relax</code>	<code>\راحت</code>
<code>\removeatlastskip</code>	<code>\رفع آخرین فاصله</code>
<code>\renewcommand</code>	<code>\فرمان ازنو</code>
<code>\renewenvironment</code>	<code>\محیط ازنو</code>
<code>\repeat</code>	<code>\ازنو</code>
<code>\RequirePackage</code>	<code>\سبک موردنیاز</code>
<code>\RequirePackageWithOptions</code>	<code>\سبک موردنیاز با گزینه</code>
<code>\resizebox</code>	<code>\کادرکشیده</code>
<code>\reversemarginpar</code>	<code>\در حاشیه معکوس</code>
<code>\rfloor</code>	<code>\کف ر</code>
<code>\right</code>	<code>\راست</code>
<code>\rightmargin</code>	<code>\حاشیه راست</code>
<code>\rightmark</code>	<code>\علامت راست</code>
<code>\rightpageskip</code>	<code>\کادر تا راست</code>
<code>\rightskip</code>	<code>\فاصله انتهای سطر</code>
<code>\rmdefault</code>	<code>\رومن عادی</code>
<code>\rmfamily</code>	<code>\فامیل رومن</code>
<code>\Roman</code>	<code>\رومن بزرگ</code>
<code>\roman</code>	<code>\رومن کوچک</code>
<code>\romannumeral</code>	<code>\عدد رومی</code>
<code>\rotatebox</code>	<code>\کادر چرخان</code>
<code>\rowcolor</code>	<code>\رنگ ردیف</code>
<code>\rule</code>	<code>\خط</code>
<code>\@secondoftwo</code>	<code>\@دومی ازدو</code>
<code>\@spaces</code>	<code>\@فضاها</code>
<code>\samepage</code>	<code>\همین صفحه</code>
<code>\savebox</code>	<code>\مقدار کادر</code>
<code>\sbox</code>	<code>\مقکادر</code>
<code>\scalebox</code>	<code>\کادر اندازه</code>
<code>\scdefault</code>	<code>\پیش فرض تمام بزرگ</code>
<code>\scshape</code>	<code>\شکل تمام بزرگ</code>
<code>\scriptfont</code>	<code>\قلم توان</code>
<code>\scriptscriptfont</code>	<code>\قلم توان توان</code>
<code>\scriptscriptstyle</code>	<code>\سبک ته نوشت ته نوشت</code>
<code>\scriptsize</code>	<code>\اندازه پانویس</code>
<code>\scriptstyle</code>	<code>\سبک ته نوشت</code>

*Continued on next page*



# Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X    Equivalent Persian Command

<code>\scrollmode</code>	<code>\پردازش‌گذری</code>
<code>\section</code>	<code>\قسمت</code>
<code>\secdef</code>	<code>\تعریف‌قسمت</code>
<code>\see</code>	<code>\ببینید</code>
<code>\seealso</code>	<code>\نیز‌ببینید</code>
<code>\seename</code>	<code>\نام‌ببینید</code>
<code>\selectfont</code>	<code>\قلم‌بردار</code>
<code>\setboolean</code>	<code>\تنظیم‌بولی</code>
<code>\setbox</code>	<code>\در‌کادر</code>
<code>\setcounter</code>	<code>\مقدار‌شمارنده</code>
<code>\setkeys</code>	<code>\مقدار‌کلیدها</code>
<code>\setlength</code>	<code>\مقدار‌بعد</code>
<code>\setminus</code>	<code>\تنظیم‌منها</code>
<code>\SetSymbolFont</code>	<code>\تعریف‌قلم‌علائم</code>
<code>\settodepth</code>	<code>\تنظیم‌به‌عمق</code>
<code>\settoheight</code>	<code>\تنظیم‌به‌ارتفاع</code>
<code>\settowidth</code>	<code>\مقدار‌بعد‌به‌اندازه</code>
<code>\sfcode</code>	<code>\کد‌ضریب‌فاصله</code>
<code>\sfdefault</code>	<code>\پیش‌فرض‌س‌ف</code>
<code>\sffamily</code>	<code>\فامیل‌سن‌س‌ریف</code>
<code>\shadowbox</code>	<code>\کادر‌سایه‌دار</code>
<code>\sharp</code>	<code>\تیز</code>
<code>\shipout</code>	<code>\بفرست</code>
<code>\shortstack</code>	<code>\پشته‌کوتاه</code>
<code>\show</code>	<code>\نمایش‌ده</code>
<code>\showbox</code>	<code>\نمایش‌ده‌کادر</code>
<code>\showboxbreadth</code>	<code>\میزان‌نمایش‌کادر</code>
<code>\showboxdepth</code>	<code>\عمق‌نمایش‌کادر</code>
<code>\showlists</code>	<code>\نمایش‌ده‌لیستها</code>
<code>\showthe</code>	<code>\نمایش‌ده‌محتوای</code>
<code>\simplefontmode</code>	<code>\حالت‌ساده‌قلم</code>
<code>\sist@n</code>	<code>\شانزد@</code>
<code>\skewchar</code>	<code>\نویسه‌اریب</code>
<code>\skip</code>	<code>\فاصله</code>
<code>\skip@</code>	<code>\فاصل@</code>
<code>\skipdef</code>	<code>\تعریف‌فاصله</code>
<code>\sl</code>	<code>\خوابیده</code>
<code>\sldefault</code>	<code>\پیش‌فرض‌خو</code>
<code>\slshape</code>	<code>\شکل‌خوابیده</code>
<code>\sloppy</code>	<code>\راحت‌چین</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\slshape</code>	\شمايل خو
<code>\small</code>	\کو چک
<code>\smallskip</code>	\پرش کوتاه
<code>\smallskipamount</code>	\مقدار پرش کوتاه
<code>\smash</code>	\کوب
<code>\smile</code>	\لبخند
<code>\snglftlocatencode</code>	\کد مکان همانطور
<code>\space</code>	\فضا
<code>\spacefactor</code>	\ضریب فاصله
<code>\spaceskip</code>	\فاصله کلمات
<code>\spadesuit</code>	\پیک
<code>\span</code>	\ادغام
<code>\special</code>	\ویژه
<code>\splitmaxdepth</code>	\حد اکثر عمق ستون
<code>\splittopskip</code>	\فاصله بالای ستون
<code>\star</code>	\ستاره
<code>\stepcounter</code>	\گام شمارنده
<code>\stretch</code>	\کشی
<code>\string</code>	\رشته
<code>\strut</code>	\شمع
<code>\strutbox</code>	\کادر شمع
<code>\subitem</code>	\زیر بند
<code>\subparagraph</code>	\زیر پاراگراف
<code>\subsection</code>	\زیر قسمت
<code>\substack</code>	\زیر پشته
<code>\subsubitem</code>	\زیر زیر بند
<code>\subsubsection</code>	\زیر زیر قسمت
<code>\subset</code>	\زیر مجموعه
<code>\subseteq</code>	\زیر مجموعه مسا
<code>\supereject</code>	\منتهای صفحه
<code>\suppressfloats</code>	\حذف مکان شناور
<code>\@tempa</code>	\@موقت آ
<code>\@tempb</code>	\@موقت ب
<code>\@tempc</code>	\@موقت پ
<code>\@tempd</code>	\@موقت ت
<code>\@tempe</code>	\@موقت ث
<code>\@tempboxa</code>	\@کادرقت آ
<code>\@tempcnta</code>	\@شماقت آ
<code>\@tempcntb</code>	\@شماقت ب
<code>\@tempdima</code>	\@بعدقت آ

*Continued on next page*



### Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X      Equivalent Persian Command

\@tempdimb	\@بعدقتب
\@tempdimc	\@بعدقتپ
\@tempskipa	\@فاقتآ
\@tempskipb	\@فاقتب
\@tempswafalse	\@سواقتآنادرست
\@tempswatrue	\@سواقتآدرست
\@temptokena	\@جزقتآ
\@thefnmark	\انگ زیرنویس
\@thirdofthree	\@سومی ازسه
\tabbingsep	\فاصله جاگذاری
\tabcolsep	\فاصله بین ستونها
\tableofcontents	\فهرست مطالب
\tablename	\عنوان جدول
\tabskip	\فاصله ستونها
\tabularnewline	\ته سطرجدول
\tag	\اتیکت
\telephone	\تلفن
\TeX	\تک
\text	\متن
\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 دولا
\textquotedblright	\نقل راست متنی دولا
\textquoteleft	\نقل متنی چپ
\textquoteright	\نقل متنی راست
\textvisiblespace	\فضای نمایان متنی
\textbackslash	\شکافت پشت متنی
\textbar	\میله متنی
\textgreater	\بزرگ ترممتنی
\textless	\کمترمتنی
\textbf	\متن سیاه
\textcircled	\مدورمتنی
\textcolor	\رنگ متن
\textcompwordmark	\نشان کلمه مرکب متن
\textfloatsep	\فاصله متن و شناور

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	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 نازک
<code>\textnormal</code>	\متن نرمال
<code>\textregistered</code>	\ثبتي متني
<code>\textrm</code>	\متن رومن
<code>\textsc</code>	\متن تمام بزرگ
<code>\textsf</code>	\متن سن سریف
<code>\textsl</code>	\متن خوابیده
<code>\textstyle</code>	\سبك متني
<code>\textsuperscript</code>	\بالا نویس متني
<code>\texttrademark</code>	\علامت تجاری متني
<code>\texttt</code>	\متن تایپ
<code>\textup</code>	\متن ایستاده
<code>\textwidth</code>	\پهنای متن
<code>\thanks</code>	\زیرنویس عنوان
<code>\the</code>	\محتوای
<code>\thempfn</code>	\این زیرنویس
<code>\thicklines</code>	\خط ها ضخیم
<code>\thickmuskip</code>	\فاصله زیاد ریاضی
<code>\thinmuskip</code>	\فاصله کم ریاضی
<code>\thickspace</code>	\فضا ضخیم
<code>\thinlines</code>	\خط ها نازک
<code>\thinspace</code>	\دوری کوچک
<code>\thisfancy page</code>	\این صفحه تجملی
<code>\thispage style</code>	\سبك این صفحه
<code>\thr@@</code>	\سه @
<code>\tilde</code>	\مد
<code>\tiny</code>	\ظریف
<code>\time</code>	\زمان
<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 بدنامی
<code>\top</code>	\بالا

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\topfigrule</code>	<code>\خط بالای شناور</code>
<code>\topfraction</code>	<code>\نسبت بالا</code>
<code>\topmargin</code>	<code>\حاشیه بالا</code>
<code>\topmark</code>	<code>\علامت بالا</code>
<code>\toppageskip</code>	<code>\کادر تا بالا</code>
<code>\topsep</code>	<code>\فاصله بالای لیست</code>
<code>\topskip</code>	<code>\فاصله بالا</code>
<code>\totalheight</code>	<code>\بلندای کل</code>
<code>\tracingall</code>	<code>\ردگیری کل</code>
<code>\tracingcommands</code>	<code>\ردگیری فرامین</code>
<code>\tracinglostchars</code>	<code>\ردگیری حروف</code>
<code>\tracingmacros</code>	<code>\ردگیری ماکروها</code>
<code>\tracingonline</code>	<code>\ردگیری نمایشی</code>
<code>\tracingoutput</code>	<code>\ردگیری صفحه بندی</code>
<code>\tracingpages</code>	<code>\ردگیری صفحات</code>
<code>\tracingparagraphs</code>	<code>\ردگیری بندها</code>
<code>\tracingrestores</code>	<code>\ردگیری بازگردانی</code>
<code>\tracingstats</code>	<code>\ردگیری آمارها</code>
<code>\triangle</code>	<code>\مثلث</code>
<code>\ttdefault</code>	<code>\پیش فرض تایپ</code>
<code>\ttfamily</code>	<code>\فامیل تایپ</code>
<code>\tw@</code>	<code>\دو@</code>
<code>\twocolumn</code>	<code>\دو ستون</code>
<code>\typein</code>	<code>\در نویس</code>
<code>\typeout</code>	<code>\بر نویس</code>
<code>\uccode</code>	<code>\کد بزرگ</code>
<code>\uchyph</code>	<code>\تیره بندی بزرگ</code>
<code>\undefined</code>	<code>\تعریف نشده</code>
<code>\underline</code>	<code>\زیر خط</code>
<code>\unhbox</code>	<code>\بی کادر</code>
<code>\unhcopy</code>	<code>\بی کپی</code>
<code>\unitlength</code>	<code>\واحد طول</code>
<code>\unkern</code>	<code>\برگشت دوری</code>
<code>\unpenalty</code>	<code>\برگشت جریمه</code>
<code>\unskip</code>	<code>\برگشت فاصله</code>
<code>\unvbox</code>	<code>\بی کادرو</code>
<code>\unvcopy</code>	<code>\بی کپی و</code>
<code>\updefault</code>	<code>\پیش فرض ایستاده</code>
<code>\upshape</code>	<code>\شکل ایستاده</code>
<code>\usebox</code>	<code>\از کادر</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
\usecounter	\باشمارشگر
\usefont	\گزینه‌ش قلم
\usepackage	\سبک لازم
\@vobeyspaces	\@فضاهای فعال
\@void	\@تهی
\vadjust	\تنظیم و
\valign	\ردیف و
\value	\محتوای شمارنده
\vbadness	\بدنمایی و
\vbox	\کادر و
\vcenter	\کادر وسط
\verb	\همانطور
\vfil	\پرو
\vfill	\پررو
\vfilneg	\رفع پرو
\vfuzz	\پر زعمودی
\visible	\نمایان
\vline	\خط عمود
\voffset	\حاشیه و
\voidb@x	\ک@در تهی
\vpageref	\ارجاع صفحه ع
\vrbboxsep	\فاصله وگرد
\vref	\ارجاع ع
\vrule	\خط و
\vsize	\طول صفحه
\vskip	\فاصله و
\vspace	\فضای و
\vsplit	\شکست و
\vss	\هر دو و
\vtop	\کادر گود
\wd	\عرض
\whiledo	\مادام بکن
\widehat	\کلاه پهن
\widetilde	\مد پهن
\widowpenalty	\جریمه ته بند
\width	\پهنا
\wlog	\در کارنامه
\write	\بنویس
\@xobeysp	\@فضای لاتین
\@xxxii	\سی@دو

*Continued on next page*





Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
\xdef	\ترگع
\xleaders	\نشانگر گسترشی
\xspaceskip	\فاصله اضافی کلمات
\year	\سال
\z@	\@فر
\z@skip	\@فر فاصله

Table 2: The Equivalent XePersian Commands

Command in XePersian	Equivalent Persian Command
\autofootnoterule	\خط زیرنویس خودکار
\AutoMathsDigits	\اعداد فرمولها خودکار
\DefaultMathsDigits	\اعداد فرمولها لاتین
\deflatinfont	\تعریف قلم لاتین
\defpersianfont	\تعریف قلم پارسی
\hboxL	\کادر اچپ
\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 براست
\LTRdblcol	\دوستونی چپ
\LTRfootnote	\پانویس
\LTRfootnotetext	\متن پانویس
\LTRthanks	\پانویس عنوان
\persianday	\روز پارسی
\persianfont	\قلم پارسی
\PersianMathsDigits	\اعداد فرمولها 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	\پانویست

*Continued on next page*



Command in XePersian	Equivalent Persian Command
<code>\RTLfootnotetext</code>	\متن پانویس
<code>\RTLthanks</code>	\پانویس عنوان
<code>\@SepMark</code>	\@علامت بین
<code>\SepMark</code>	\علامت بین
<code>\setdefaultbibitems</code>	\بگذار مرجوعات عادی
<code>\setdefaultmarginpar</code>	\بگذار در حاشیه عادی
<code>\setdigitfont</code>	\گزینش قلم اعداد فرمولها
<code>\setfootnoteLR</code>	\بگذار زیرنویس چپ
<code>\setfootnoteRL</code>	\بگذار زیرنویس راست
<code>\setlatintextfont</code>	\گزینش قلم لاتین متن
<code>\setLTR</code>	\بگذار متن چپ
<code>\setLTRbibitems</code>	\بگذار مرجوعات چپ
<code>\setLTRmarginpar</code>	\بگذار در حاشیه چپ
<code>\setRTL</code>	\بگذار متن راست
<code>\setRTLbibitems</code>	\بگذار مرجوعات راست
<code>\setRTLmarginpar</code>	\بگذار در حاشیه راست
<code>\settextfont</code>	\گزینش قلم متن
<code>\textwidthfootnoterule</code>	\خط زیرنویس پهنای متن
<code>\twocolumnstableofcontents</code>	\فهرست مطالب دو ستونی
<code>\unsetfootnoteRL</code>	\نگذار زیرنویس راست
<code>\unsetLTR</code>	\نگذار متن چپ
<code>\unsetRTL</code>	\نگذار متن راست
<code>\vboxL</code>	\کادر واز چپ
<code>\vboxR</code>	\کادر واز راست
<code>\XeLaTeX</code>	\زی لاتک
<code>\XePersian</code>	\زی پرشین
<code>\xepersianversion</code>	\گونه زی پرشین
<code>\xepersiandate</code>	\تاریخ گونه زی پرشین
<code>\XeTeX</code>	\زی تک

Table 3: The Equivalent  $\text{\LaTeX}$  Environments

Environment in $\text{\LaTeX}$	Equivalent Persian Environment
<code>abstract</code>	چکیده
<code>appendix</code>	پیوست
<code>array</code>	آرایه
<code>center</code>	وسط چین
<code>description</code>	توضیح
<code>displaymath</code>	ریاضی نمایشی
<code>document</code>	نوشتار
<code>enumerate</code>	شمارش
<code>figure</code>	شکل

*Continued on next page*



Environment in $\text{\LaTeX}$	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	چندستونی ها
multline	چند خطی
note	یادداشت
overlay	انباشتن
picture	تصویر
quotation	اقتباس
quote	نقل
slide	اسلاید
sloppypar	پارنا مرتب
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 بدوی
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

*Continued on next page*



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  $\text{\LaTeX}$  position arguments

Position argument in $\text{\LaTeX}$	Equivalent Persian position argument
b	ز
c	و
C	س
h	ا
H	آ
J	ت
l	چ
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
draft	پیش نویس
origin	مبدأ
clip	بی اضافه
keepaspectratio	حفظ تناسب
natwidth	پهنای طبیعی

*Continued on next page*



Original Key	Equivalent Persian Key
natheight	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	چ
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	تحويل 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	ویژگی های قلم عمودی
BoldFeatures	ویژگی های قلم سیاه
ItalicFeatures	ویژگی های قلم ایتالیک
BoldItalicFeatures	ویژگی های قلم ایتالیک سیاه
SlantedFeatures	ویژگی های قلم خوابیده
BoldSlantedFeatures	ویژگی های قلم خوابیده سیاه
SmallCapsFeatures	ویژگی های قلم کلاه کوچک
SizeFeatures	ویژگی 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 تقلبی
FakeStretch	کشش تقلبی
FakeBold	سیاه تقلبی
AutoFakeSlant	خوابیده تقلبی خودکار
AutoFakeBold	سیاه تقلبی خودکار
Ligatures	دو یا چند حرف متصل به هم
Alternate	متناوب
Variant	گوناگون
Variant	مجموعه سبکی
CharacterVariant	گوناگونی نویسه
Style	سبک
Annotation	یادداشت
RawFeature	ویژگی های کال
CharacterWidth	پهنای نویسه
Numbers	ارقام
Contextuals	متنی

*Continued on next page*



Original font feature	Equivalent Persian font feature
Diacritics	تفکیک کننده ها
Letters	حروف
Kerning	دوری
VerticalPosition	موقعیت عمودی
Fractions	کسر

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	اسکرپیت ریاضی
Style	MathScriptScript	اسکرپیت اسکرپیت ریاضی

## 2.5 A Sample Input T<sub>E</sub>X File

```

1 \documentclass{article}
2 \usepackage{xepersian}
3 \settextfont{XB Niloofar}
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 زیر قسمت}
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}  
\setmathsfdigitfont [Options] {\font name}  
\setmathttdigitfont [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<sub>E</sub>X 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.
- ☞ `\setmathsfdigitfont` 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<sub>E</sub>X font for digits in math mode inside `\mathsf` and digits appear in their original form (Western).
- ☞ `\setmathttdigitfont` 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<sub>E</sub>X 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

```
\setiraniconfont [Options] {\font name}  
\iranicfamily \textiranicon{\text}
```

### 2.6.6 Choosing Persian Navar Font

```
\setnavarfont [Options] {\font name}  
\navarfamily \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 `LTItems` 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  $\text{\LaTeX}$  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  $\langle integer \rangle$ , where  $1 \leq integer \leq 32$  and `\adadinumeral`, and `\tartibinumeral` return **adadi**, and **tartibi** form of  $\langle integer \rangle$  respectively, where  $0 \leq integer \leq 999,999,999$ .



### 3.6 Things To Know About `\setdigitfont`, `\setmathsfdigitfont`, and `\setmathttdigitfont`

<code>\DefaultMathsDigits</code> <code>\PersianMathsDigits</code> <code>\AutoMathsDigits</code>
-------------------------------------------------------------------------------------------------

☞ 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, `\setmathsfdigitfont`, and `\setmathttdigitfont` 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<sub>E</sub>X font for digits in math mode and digits appear in their original form (Western).

If you use `\setdigitfont`, `\setmathsfdigitfont`, and `\setmathttdigitfont`, 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<sub>E</sub>X'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<sub>E</sub>X's default font and digits in math mode.

## 4 New Conditionals

### 4.1 Shell escape (or `write18`) conditional

<pre>\ifwritexviii   <i>&lt;material when Shell escape (or write18) is enabled&gt;</i> \else   <i>&lt;material when Shell escape (or write18) is not enabled&gt;</i> \fi</pre>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 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 ت produces the value of the counter printed with (respectively) \harfi, \adadi, or \tartibi.

These letters may be surrounded by any strings involving any other T<sub>E</sub>X expressions, however the tokens A, a, I, i, 1, l, ی, ت 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 FarsiT<sub>E</sub>X Files To XePersian or Unicode

There is a python program written by Mostafa Vahedi that enables you to convert FarsiT<sub>E</sub>X files to XePersian or unicode. This program can be found in doc folder with the name ftxe-0.12.py. To convert your FarsiT<sub>E</sub>X files to XePersian, put ftxe-0.12.py in the same directory that your FarsiT<sub>E</sub>X 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 (FarsiT<sub>E</sub>X 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 create<sup>2</sup> a magazine just load the class as usual<sup>3</sup>, 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  $\langle image \rangle$  and  $\langle description \rangle$ . Notice that second argument is optional and it declares the image

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

<sup>3</sup>You 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{<title>}{<opening>}{<time>}
```

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{<title>}{<subtitle>}{<opening>}{<pagesof>}{<time>}
```

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{<title>}{<subtitle>}{<opening>}{<pagesof>}{<time>}
```

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 respect 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{<title>}{<reference>}
```

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  $\langle title \rangle$  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{\langle image \rangle}{\langle day-name \rangle}{\langle max \rangle}{\langle min \rangle}{\langle short-des \rangle}
```

The first argument includes the path to the weather icon (i.e. sunny or rainy),  $\langle day-name \rangle$  like Monday,  $\langle max \rangle$  and  $\langle min \rangle$  are the highest and lowest day temperatures and  $\langle short-des \rangle$  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}{\langle num-of-columns \rangle}{\langle title \rangle}{\langle subtitle \rangle}{\langle pagesof \rangle}{\langle label \rangle}  
... \langle text \rangle ...  
\end{article}
```

The first argument  $\langle num-of-columns \rangle$  sets the number of columns the article will be divided whereas  $\langle label \rangle$  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 multicols 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}
```

```
\columnntitle \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

```
\columnntitle{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}{\langle num-of-columns \rangle}{\langle title \rangle}{\langle author \rangle}{\langle label \rangle}
...{\langle text \rangle}...
\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}{\langle num-of-columns \rangle}{\langle title \rangle}{\langle subtitle \rangle}{\langle label \rangle}
...{\langle text \rangle}...
\shortarticleitem{\langle title \rangle}{\langle text \rangle}
...
\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{\langle section name \rangle}
```

### 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  $\text{\LaTeX}$  commands, using `\renewcommand` to change their behaviour.



### 6.1.10 Front Page

```
\customlogo \customminilogo \custommagazinenam
```

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>}  
\custommagazinenam{<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 [subsubsection 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  $\text{\LaTeX}$  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 `~` 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 layout.

## 6.2 Typesetting Multiple-choice Questions

### 6.2.1 Introduction

xepersian-multiplechoice is a package for making multiple choices questionnaires under  $\text{\LaTeX}$ . 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 \false \ جواب
3 \true ۲ جواب
4 \false ۳ جواب
5 \false ۴ جواب
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  $\TeX$  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 \thethequestion}`



### 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 L<sup>A</sup>T<sub>E</sub>X 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 be 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  $\text{\LaTeX}$  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}[2013/04/26 v0.3 adaptations for amsart class]
9 \renewcommand \thepart {\@tartibi\c@part}
10 \def\appendix{\par\c@section\z@ \c@subsection\z@
11   \let\sectionname\appendixname
12   \def\thesection{\@harfi\c@section}}
13
14 \long\def\@footnotetext#1{%
15   \insert\footins{%
16     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
17     \normalfont\footnotesize
18     \interlinepenalty\interfootnotelinepenalty
19     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
20     \floatingpenalty\@MM \hsize\columnwidth
21     \@parboxrestore \parindent\normalparindent \sloppy
22     \protected@edef\@currentlabel{%
23       \csname p@footnote\endcsname\@thefnmark}%
24     \@makefnmark{%
25       \rule\z@\footnotesep\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\unskip\strut\par}}
26
27
28
29
30
31 \long\def\@RTLfootnotetext#1{%
32   \insert\footins{%
33     \@RTLtrue%
34     \normalfont\footnotesize
35     \interlinepenalty\interfootnotelinepenalty
36     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
37     \floatingpenalty\@MM \hsize\columnwidth
38     \@parboxrestore \parindent\normalparindent \sloppy
39     \protected@edef\@currentlabel{%
40       \csname p@footnote\endcsname\@thefnmark}%
41     \@makefnmark{%
42       \rule\z@\footnotesep\ignorespaces\persianfont #1\unskip\strut\par}}}
43
44
45

```



```

46
47
48
49
50 \long\def\@LTRfootnotetext#1{%
51   \insert\footins{%
52     \@RTLfalse%
53     \normalfont\footnotesize
54     \interlinepenalty\interfootnotelinepenalty
55     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
56     \floatingpenalty\@MM \hsize\columnwidth
57     \@parboxrestore \parindent\normalparindent \sloppy
58     \protected@edef\@currentlabel{%
59       \csname p@footnote\endcsname\@thefnmark}%
60     \@makefntext{%
61       \rule\z@\footnotesep\ignorespaces\latinfont #1\unskip\strut\par}}}%
62
63
64 \footdir@temp\footdir@ORG@xepersian@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
65 \footdir@temp\footdir@ORG@xepersian@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
66 \footdir@temp\footdir@ORG@xepersian@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
67

```

## 7.4 amsbook-xepersian.def

```

68 \ProvidesFile{amsbook-xepersian.def}[2013/04/26 v0.4 adaptations for amsbook class]
69 \def\frontmatter{\cleardoublepage\pagenumbering{harfi}}
70 \renewcommand \thepart {\@tartibi@c@part}
71 \def\appendix{\par
72   \c@chapter\z@ \c@section\z@
73   \let\chaptername\appendixname
74   \def\thechapter{\@harfi\c@chapter}}
75
76 \long\def\@footnotetext#1{%
77   \insert\footins{%
78     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
79     \normalfont\footnotesize
80     \interlinepenalty\interfootnotelinepenalty
81     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
82     \floatingpenalty\@MM \hsize\columnwidth
83     \@parboxrestore \parindent\normalparindent \sloppy
84     \protected@edef\@currentlabel{%
85       \csname p@footnote\endcsname\@thefnmark}%
86     \@makefntext{%
87       \rule\z@\footnotesep\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\unskip\strut\par}}}%
88
89
90
91
92

```



```

93 \long\def\@RTLfootnotetext#1{%
94   \insert\footins{%
95     \@RTLtrue%
96     \normalfont\footnotesize
97     \interlinepenalty\interfootnotelinepenalty
98     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
99     \floatingpenalty\@MM \hsize\columnwidth
100    \@parboxrestore \parindent\normalparindent \sloppy
101    \protected@edef\@currentlabel{%
102      \csname p@footnote\endcsname\@thefnmark}%
103    \@makefntext{%
104      \rule\z@\footnotesep\ignorespaces\persianfont #1\unskip\strut\par}}
105
106
107
108
109
110
111
112 \long\def\@LTRfootnotetext#1{%
113   \insert\footins{%
114     \@RTLfalse%
115     \normalfont\footnotesize
116     \interlinepenalty\interfootnotelinepenalty
117     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
118     \floatingpenalty\@MM \hsize\columnwidth
119     \@parboxrestore \parindent\normalparindent \sloppy
120     \protected@edef\@currentlabel{%
121       \csname p@footnote\endcsname\@thefnmark}%
122     \@makefntext{%
123       \rule\z@\footnotesep\ignorespaces\latinfont #1\unskip\strut\par}}
124
125 \footdir@temp\footdir@ORG@xepersian@amsbook@footnotetext\@footnotetext{\@bidi@footdir@footnote}
126 \footdir@temp\footdir@ORG@xepersian@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
127 \footdir@temp\footdir@ORG@xepersian@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
128

```

## 7.5 appendix-xepersian.def

```

129 \ProvidesFile{appendix-xepersian.def}[2015/02/01 v0.1 adaptations for appendix package]
130 \renewcommand{\@resets@pp}{\par
131   \@ppsavesec
132   \stepcounter{@pps}
133   \setcounter{section}{0}%
134   \if@chapter@pp
135     \setcounter{chapter}{0}%
136     \renewcommand\@chapapp{\appendixname}%
137     \renewcommand\thechapter{\@harfi@c@chapter}%
138   \else
139     \setcounter{subsection}{0}%

```



```

140 \renewcommand\thesection{\@harfi\c@section}%
141 \fi
142 \restoreapp
143 }

```

## 7.6 article-xepersian.def

```

144 \ProvidesFile{article-xepersian.def}[2010/07/25 v0.2 adaptations for standard article class]
145 \renewcommand \thepart {\@tartibi\c@part}
146 \renewcommand\appendix{\par
147 \setcounter{section}{0}%
148 \setcounter{subsection}{0}%
149 \gdef\thesection{\@harfi\c@section}}

```

## 7.7 artikel1-xepersian.def

```

150 \ProvidesFile{artikel1-xepersian.def}[2010/07/25 v0.1 adaptations for artikel1 class]
151 \renewcommand*\thepart{\@tartibi\c@part}
152 \renewcommand*\appendix{\par
153 \setcounter{section}{0}%
154 \setcounter{subsection}{0}%
155 \gdef\thesection{\@harfi\c@section}}

```

## 7.8 artikel2-xepersian.def

```

156 \ProvidesFile{artikel2-xepersian.def}[2010/07/25 v0.1 adaptations for artikel2 class]
157 \renewcommand*\thepart{\@tartibi\c@part}
158 \renewcommand*\appendix{\par
159 \setcounter{section}{0}%
160 \setcounter{subsection}{0}%
161 \gdef\thesection{\@harfi\c@section}}

```

## 7.9 artikel3-xepersian.def

```

162 \ProvidesFile{artikel3-xepersian.def}[2010/07/25 v0.1 adaptations for artikel3 class]
163 \renewcommand*\thepart{\@tartibi\c@part}
164 \renewcommand*\appendix{\par
165 \setcounter{section}{0}%
166 \setcounter{subsection}{0}%
167 \gdef\thesection{\@harfi\c@section}}

```

## 7.10 backref-xepersian.def

```

168 \ProvidesFile{backref-xepersian.def}[2010/07/25 v0.1 adaptations for backref package]
169 \def\backrefpagesname{\if@RTL else\ pages\fi}
170 \def\BR@Latincitex[#1]#2{%
171 \BRorg@Latincitex[#1]#2}%
172 \ifBR@verbose
173 \PackageInfo{backref}{back Latin cite \string`#2\string'}%
174 \fi
175 \Hy@backout{#2}%
176 }
177 \AtBeginDocument{%

```



```

178 \ifundefined{NAT@parse}{%
179   \global\let\BRorg@Latincitex\@Latincitex
180   \global\let\@Latincitex\BR@Latincitex
181 }{%
182   \ifpackageloaded{hyperref}{}%
183   \def\hyper@natlinkstart#1{\Hy@backout{#1}}%
184   }%
185   \PackageInfo{backref}{** backref set up for natbib **}%
186 }%
187 }%

```

## 7.11 bidentuftsidenote-xepersian.def

```

188 \ProvidesFile{bidentuftsidenote-xepersian.def}[2014/12/28 v0.2 xepersian changes to bidentuftsidenote]
189 \setLTRcitationfont{\@bidentuftsidenote@marginfont\latinfont}
190 \long\def\@LTRbidentuftsidenote@sidenote[#1][#2]#3{%
191   \let\cite\@bidentuftsidenote@infootnote@cite% use the in-sidenote \cite command
192   \gdef\@bidentuftsidenote@citations{}% clear out any old citations
193   \ifthenelse{\NOT\isempty{#2}}{%
194     \gsetlength{\@bidentuftsidenote@sidenote@vertical@offset}{#2}%
195   }{%
196     \gsetlength{\@bidentuftsidenote@sidenote@vertical@offset}{0pt}%
197   }%
198   \ifthenelse{\isempty{#1}}{%
199     % no specific footnote number provided
200     \stepcounter\@mpfn%
201     \protected@xdef\@thefnmark{\thempfn}%
202     \@footnotemark\@LTRfootnotetext[\@bidentuftsidenote@sidenote@vertical@offset]{\latinfont#3}%
203   }{%
204     % specific footnote number provided
205     \begingroup%
206       \csname c@\@mpfn\endcsname #1\relax%
207       \unrestored@protected@xdef\@thefnmark{\thempfn}%
208     \endgroup%
209     \@footnotemark\@LTRfootnotetext[\@bidentuftsidenote@sidenote@vertical@offset]{\latinfont#3}%
210   }%
211   \@bidentuftsidenote@print@citations% print any citations
212   \let\cite\@bidentuftsidenote@normal@cite% go back to using normal in-text \cite command
213   \unskip\ignorespaces% remove extra white space
214   \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
215   \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
216 }
217 \long\def\@RTLbidentuftsidenote@sidenote[#1][#2]#3{%
218   \let\cite\@bidentuftsidenote@infootnote@cite% use the in-sidenote \cite command
219   \gdef\@bidentuftsidenote@citations{}% clear out any old citations
220   \ifthenelse{\NOT\isempty{#2}}{%
221     \gsetlength{\@bidentuftsidenote@sidenote@vertical@offset}{#2}%
222   }{%
223     \gsetlength{\@bidentuftsidenote@sidenote@vertical@offset}{0pt}%
224   }%

```



```

225 \ifthenelse{\isempty{#1}}{%
226   % no specific footnote number provided
227   \stepcounter{\@mpfn}%
228   \protected@xdef\@thefnmark{\thempfn}%
229   \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{\persianfont#1}%
230 }{%
231   % specific footnote number provided
232   \begingroup%
233     \csname c@\@mpfn\endcsname #1\relax%
234     \unrestored@protected@xdef\@thefnmark{\thempfn}%
235   \endgroup%
236   \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{\persianfont#1}%
237 }%
238 \@bidityftesidenote@print@citations%          print any citations
239 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite command
240 \unskip\ignorespaces%                          remove extra white space
241 \kern-\multiplefootnotemarker%                remove \kern left behind by sidenote
242 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
243 }
244 \renewcommand\LTRmarginnote[2][Opt]{%
245   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
246   \gdef\@bidityftesidenote@citations{}%        clear out any old citations
247   \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\latinfont%
248   \@bidityftesidenote@print@citations%          print any citations
249   \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite command
250 }
251 \renewcommand\RTLmarginnote[2][Opt]{%
252   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
253   \gdef\@bidityftesidenote@citations{}%        clear out any old citations
254   \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\persianfont%
255   \@bidityftesidenote@print@citations%          print any citations
256   \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite command
257 }

```

## 7.12 bidimoderncv-xepersian.def

```

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

```

## 7.13 boek3-xepersian.def

```

260 \ProvidesFile{boek3-xepersian.def}[2010/07/25 v0.1 adaptations for boek3 class]
261 \renewcommand*\thepart{\@tartibi\c@part}
262 \renewcommand*\frontmatter{%
263   \cleardoublepage
264   \@mainmatterfalse
265   \pagenumbering{harfi}}
266 \renewcommand*\appendix{\par
267   \setcounter{chapter}{0}%
268   \setcounter{section}{0}%
269   \gdef\@chapapp{\appendixname}%

```



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

## 7.14 boek-xepersian.def

```
271 \ProvidesFile{boek-xepersian.def}[2010/07/25 v0.1 adaptations for boek class]
272 \renewcommand*\thepart{\@tartibi\c@part}
273 \renewcommand*\frontmatter{%
274   \cleardoublepage
275   \@mainmatterfalse
276   \pagenumbering{harfi}}
277 \renewcommand*\appendix{\par
278   \setcounter{chapter}{0}%
279   \setcounter{section}{0}%
280   \gdef\@chapapp{\appendixname}%
281   \gdef\thechapter{\@harfi\c@chapter}}
```

## 7.15 bookest-xepersian.def

```
282 \ProvidesFile{bookest-xepersian.def}[2010/07/25 v0.1 adaptations for bookest class]
283 \renewcommand \thepart {\@tartibi\c@part}
284 \renewcommand\appendix{\par
285   \setcounter{chapter}{0}%
286   \setcounter{section}{0}%
287   \gdef\@chapapp{\appendixname}%
288   \gdef\thechapter{\@harfi\c@chapter}
289 }%end appendix
```

## 7.16 book-xepersian.def

```
290 \ProvidesFile{book-xepersian.def}[2010/07/25 v0.2 adaptations for standard book class]
291 \renewcommand\frontmatter{%
292   \cleardoublepage
293   \@mainmatterfalse
294   \pagenumbering{harfi}}
295 \renewcommand \thepart {\@tartibi\c@part}
296 \renewcommand\appendix{\par
297   \setcounter{chapter}{0}%
298   \setcounter{section}{0}%
299   \gdef\@chapapp{\appendixname}%
300   \gdef\thechapter{\@harfi\c@chapter}
301 }%end appendix
```

## 7.17 breqn-xepersian.def

```
302 \ProvidesFile{breqn-xepersian.def}[2010/07/25 v0.1 adaptations for breqn package]
303 \def\@dmath[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
304   \everydisplay\expandafter{\the\everydisplay \display@setup}%
305   \if@noskipsec \leavevmode \fi
306   \if@inlabel \leavevmode \global\@inlabelfalse \fi
307   \if\eq@group\else\eq@prelim\fi
308   \setkeys{breqn}{#1}%
309   \the\eqstyle
310   \eq@setnumber
```



```

311 \begingroup
312 \eq@setup@a
313 \eq@startup
314 }
315 \def\@dgroup[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
316 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
317 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
318 \global\let\GRP@label\@empty
319 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
320 \global\grp@linewidth\z@\global\grp@wdNum\z@
321 \global\let\grp@eqs@numbered\@False
322 \global\let\grp@aligned\@True
323 \global\let\grp@shiftnumber\@False
324 \eq@prelim
325 \setkeys{breqn}{#1}%
326 \if\grp@hasNumber \grp@setnumber \fi
327 }
328 \def\@dseries[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
329 \let\display@setup\dseries@display@setup
330 % Question: should this be the default for dseries???
331 \global\eq@wdCond\z@
332 \@dmath[layout={M},#1]%
333 \mathsurround\z@\@math \penalty\@Mi
334 \let\endmath\ends@math
335 \def\premath{%
336 \ifdim\lastskip<.3em \unskip
337 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
338 }%
339 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
340 \ignorespaces
341 }

```

## 7.18 latex-localise-commands-xepersian.def

```

342 \ProvidesFile{latex-localise-commands-xepersian.def}[2014/02/05 v0.3 Persian localisation of LaTeX]
343 \eqcommand{ }{\@arstrut}
344 \eqcommand{ }{above}
345 \eqcommand{ }{abovedisplayshortskip}
346 \eqcommand{ }{abovedisplayskip}
347 \eqcommand{ }{abstractname}
348 \eqcommand{ }{accent}
349 \eqcommand{ }{active}
350 \eqcommand{ }{addcontentsline}
351 \eqcommand{ }{addpenalty}
352 \eqcommand{ }{address}
353 \eqcommand{ }{addtocontents}
354 \eqcommand{ }{addtocounter}
355 \eqcommand{ }{addtolength}
356 \eqcommand{ }{addvspace}
357 \eqcommand{ }{adjdemerits}

```





```

358 \eqcommand{    }{advance}
359 \eqcommand{    }{afterassignment}
360 \eqcommand{    }{aftergroup}
361 \eqcommand{ }{aleph}
362 \eqcommand{    }{aliasfontfeature}
363 \eqcommand{    }{aliasfontfeatureoption}
364 \eqcommand{    }{allowbreak}
365 \eqcommand{ @}{alloc@}
366 \eqcommand{    }{allocationnumber}
367 \eqcommand{    }{allowdisplaybreaks}
368 \eqcommand{    }{Alph}
369 \eqcommand{    }{alph}
370 \eqcommand{    }{alsoname}
371 \eqcommand{ }{and}
372 \eqcommand{    }{angle}
373 \eqcommand{    }{appendixname}
374 \eqcommand{    }{approx}
375 \eqcommand{    }{arabic}
376 \eqcommand{ }{arg}
377 \eqcommand{    }{arrayrulecolor}
378 \eqcommand{    }{arraycolsep}
379 \eqcommand{    }{arrayrulewidth}
380 \eqcommand{    }{arraystretch}
381 \eqcommand{    }{AtBeginDocument}
382 \eqcommand{    }{AtEndDocument}
383 \eqcommand{    }{AtEndOfClass}
384 \eqcommand{    }{AtEndOfPackage}
385 \eqcommand{    }{author}
386 \eqcommand{    }{backmatter}
387 \eqcommand{    }{backslash}
388 \eqcommand{    }{badness}
389 \eqcommand{ }{bar}
390 \eqcommand{    }{baselineskip}
391 \eqcommand{    }{baselinestretch}
392 \eqcommand{    }{batchmode}
393 \eqcommand{ }{begin}
394 \eqcommand{    }{beginL}
395 \eqcommand{    }{beginR}
396 \eqcommand{    }{begingroup}
397 \eqcommand{    }{belowdisplayshortskip}
398 \eqcommand{    }{belowdisplayskip}
399 \eqcommand{ }{bf}
400 \eqcommand{    }{bfdefault}
401 \eqcommand{    }{bfseries}
402 \eqcommand{    }{bgroup}
403 \eqcommand{ }{bibitem}
404 \eqcommand{    }{bibliography}
405 \eqcommand{    }{bibliographystyle}
406 \eqcommand{    }{bibname}
407 \eqcommand{    }{bigskip}

```



```

408 \eqcommand{      }{bigskipamount}
409 \eqcommand{      }{botfigrule}
410 \eqcommand{      }{botmark}
411 \eqcommand{      }{bottompageskip}
412 \eqcommand{      }{bottomfraction}
413 \eqcommand{ }{box}
414 \eqcommand{      }{boxmaxdepth}
415 \eqcommand{ }{break}
416 \eqcommand{ }{bullet}
417 \eqcommand{ @ }{@cclv}
418 \eqcommand{ @ }{@cclvi}
419 \eqcommand{ }{caption}
420 \eqcommand{ }{catcode}
421 \eqcommand{ }{cc}
422 \eqcommand{      }{ccname}
423 \eqcommand{      }{cdot}
424 \eqcommand{      }{cdots}
425 \eqcommand{      }{centering}
426 \eqcommand{ }{centerline}
427 \eqcommand{ @ }{ch@ck}
428 \eqcommand{ }{chapter}
429 \eqcommand{      }{chaptername}
430 \eqcommand{ }{char}
431 \eqcommand{      }{chardef}
432 \eqcommand{      }{CheckCommand}
433 \eqcommand{ }{cite}
434 \eqcommand{      }{ClassError}
435 \eqcommand{      }{ClassInfo}
436 \eqcommand{      }{ClassWarning}
437 \eqcommand{      }{ClassWarningNoLine}
438 \eqcommand{      }{cleaders}
439 \eqcommand{      }{cleardoublepage}
440 \eqcommand{      }{clearpage}
441 \eqcommand{ }{cline}
442 \eqcommand{      }{closein}
443 \eqcommand{      }{closeout}
444 \eqcommand{ }{closing}
445 \eqcommand{      }{clubpenalty}
446 \eqcommand{ }{clubsuit}
447 \eqcommand{      }{colbotmark}
448 \eqcommand{      }{colfirstmark}
449 \eqcommand{ }{color}
450 \eqcommand{      }{colorbox}
451 \eqcommand{      }{coltopmark}
452 \eqcommand{      }{columncolor}
453 \eqcommand{      }{columnsep}
454 \eqcommand{      }{columnwidth}
455 \eqcommand{      }{columnseprule}
456 \eqcommand{      }{contentsline}
457 \eqcommand{      }{contentsname}

```



```

458 \eqcommand{ }{copy}
459 \eqcommand{ }{copyright}
460 \eqcommand{ }{count}
461 \eqcommand{ @}{count@}
462 \eqcommand{ }{countdef}
463 \eqcommand{ }{cr}
464 \eqcommand{ }{crr}
465 \eqcommand{ }{csname}
466 \eqcommand{ }{CurrentOption}
467 \eqcommand{ }{dashbox}
468 \eqcommand{ }{dashv}
469 \eqcommand{@ }{@date}
470 \eqcommand{ }{date}
471 \eqcommand{ }{day}
472 \eqcommand{ }{dblbotfigrule}
473 \eqcommand{ }{dblbottomfraction}
474 \eqcommand{ }{dblfigrule}
475 \eqcommand{ }{dblfloatpagefraction}
476 \eqcommand{ }{dblfloatsep}
477 \eqcommand{ }{dblftntlocatecode}
478 \eqcommand{ }{dbltextfloatsep}
479 \eqcommand{ }{dbltopfraction}
480 \eqcommand{ }{DeclareFixedFont}
481 \eqcommand{ }{DeclareGraphicsExtensions}
482 \eqcommand{ }{DeclareGraphicsRule}
483 \eqcommand{ }{DeclareOldFontCommand}
484 \eqcommand{ }{DeclareOption}
485 \eqcommand{ }{DeclareRobustCommand}
486 \eqcommand{ }{DeclareSymbolFont}
487 \eqcommand{ }{deadcycles}
488 \eqcommand{ }{def}
489 \eqcommand{ @ }{define@key}
490 \eqcommand{ }{definecolor}
491 \eqcommand{ }{deg}
492 \eqcommand{ }{delcode}
493 \eqcommand{ }{delimiter}
494 \eqcommand{ }{delimiterfactor}
495 \eqcommand{ }{depth}
496 \eqcommand{ }{diamondsuit}
497 \eqcommand{ }{dim}
498 \eqcommand{ }{dimen}
499 \eqcommand{ @}{dimen@}
500 \eqcommand{ @ }{dimen@i}
501 \eqcommand{ @ }{dimen@ii}
502 \eqcommand{ }{dimendef}
503 \eqcommand{ }{discretionary}
504 \eqcommand{ }{displaybreak}
505 \eqcommand{ }{displayindent}
506 \eqcommand{ }{displaystyle}
507 \eqcommand{ }{displaywidth}

```



```

508 \eqcommand{ }{divide}
509 \eqcommand{ }{documentclass}
510 \eqcommand{ }{do}
511 \eqcommand{ }{dospecials}
512 \eqcommand{ }{dot}
513 \eqcommand{ }{doteq}
514 \eqcommand{ }{dotfill}
515 \eqcommand{ }{dots}
516 \eqcommand{ }{doublebox}
517 \eqcommand{ }{doublerulesepcolor}
518 \eqcommand{ }{doublerulesep}
519 \eqcommand{ }{downarrow}
520 \eqcommand{ }{dp}
521 \eqcommand{ }{dump}
522 \eqcommand{ }{edef}
523 \eqcommand{ }{egroup}
524 \eqcommand{ }{eject}
525 \eqcommand{ }{else}
526 \eqcommand{ }{em}
527 \eqcommand{ }{emergencystretch}
528 \eqcommand{ }{emph}
529 \eqcommand{@ }{@empty}
530 \eqcommand{ }{empty}
531 \eqcommand{ }{emptyset}
532 \eqcommand{ }{end}
533 \eqcommand{ }{endL}
534 \eqcommand{ }{endR}
535 \eqcommand{ }{endcsname}
536 \eqcommand{ }{endfirsthead}
537 \eqcommand{ }{endfoot}
538 \eqcommand{ }{endgraf}
539 \eqcommand{ }{endgroup}
540 \eqcommand{ }{endhead}
541 \eqcommand{ }{endinput}
542 \eqcommand{ }{endlastfoot}
543 \eqcommand{ }{enlargethispage}
544 \eqcommand{ }{endline}
545 \eqcommand{ }{endlinechar}
546 \eqcommand{ }{enspace}
547 \eqcommand{ }{enskip}
548 \eqcommand{ }{eqcommand}
549 \eqcommand{ }{eqenvironment}
550 \eqcommand{ }{eqref}
551 \eqcommand{ }{errhelp}
552 \eqcommand{ }{errmessage}
553 \eqcommand{ }{errorcontextlines}
554 \eqcommand{ }{errorstopmode}
555 \eqcommand{ }{escapechar}
556 \eqcommand{ }{euro}
557 \eqcommand{ }{evensidemargin}

```



```

558 \eqcommand{ }{everycr}
559 \eqcommand{ }{everydisplay}
560 \eqcommand{ }{everyhbox}
561 \eqcommand{ }{everyjob}
562 \eqcommand{ }{everymath}
563 \eqcommand{ }{everypar}
564 \eqcommand{ }{everyvbox}
565 \eqcommand{ }{ExecuteOptions}
566 \eqcommand{ }{exhyphenpenalty}
567 \eqcommand{ }{expandafter}
568 \eqcommand{ }{extracolsep}
569 \eqcommand{@ }{@firstofone}
570 \eqcommand{@ }{@firstoftwo}
571 \eqcommand{ @ }{f@ur}
572 \eqcommand{ }{fam}
573 \eqcommand{ }{fancypage}
574 \eqcommand{ }{fbox}
575 \eqcommand{ }{fboxrule}
576 \eqcommand{ }{fboxsep}
577 \eqcommand{ }{fcolorbox}
578 \eqcommand{ }{fi}
579 \eqcommand{ }{figurename}
580 \eqcommand{ }{filbreak}
581 \eqcommand{ }{fill}
582 \eqcommand{ }{firstmark}
583 \eqcommand{ }{flat}
584 \eqcommand{ }{floatpagefraction}
585 \eqcommand{ }{floatingpenalty}
586 \eqcommand{ }{floatsep}
587 \eqcommand{ }{flushbottom}
588 \eqcommand{ }{fmtname}
589 \eqcommand{ }{fmtversion}
590 \eqcommand{ }{fnsymbol}
591 \eqcommand{ }{font}
592 \eqcommand{ }{fontdimen}
593 \eqcommand{ }{fontencoding}
594 \eqcommand{ }{fontfamily}
595 \eqcommand{ }{fontname}
596 \eqcommand{ }{fontseries}
597 \eqcommand{ }{fontshape}
598 \eqcommand{ }{fontsize}
599 \eqcommand{ }{footheight}
600 \eqcommand{ }{footins}
601 \eqcommand{ }{footnote}
602 \eqcommand{ }{footnotemark}
603 \eqcommand{ }{footnoterule}
604 \eqcommand{ }{footnotesep}
605 \eqcommand{ }{footnotesize}
606 \eqcommand{ }{footnotetext}
607 \eqcommand{ }{footskip}

```



```

608 \eqcommand{ }{frame}
609 \eqcommand{ }{framebox}
610 \eqcommand{ }{frenchspacing}
611 \eqcommand{ }{frontmatter}
612 \eqcommand{ }{futurelet}
613 \eqcommand{@ }{@gobble}
614 \eqcommand{@ }{@gobbletwo}
615 \eqcommand{@ }{@gobblefour}
616 \eqcommand{@ }{@gtempa}
617 \eqcommand{@ }{@gtempb}
618 \eqcommand{ }{gdef}
619 \eqcommand{ }{GenericInfo}
620 \eqcommand{ }{GenericWarning}
621 \eqcommand{ }{GenericError}
622 \eqcommand{ }{global}
623 \eqcommand{ }{globaldefs}
624 \eqcommand{ }{glossary}
625 \eqcommand{ }{glossaryentry}
626 \eqcommand{ }{goodbreak}
627 \eqcommand{ }{graphpaper}
628 \eqcommand{ }{guillemotleft}
629 \eqcommand{ }{guillemotright}
630 \eqcommand{ }{guilsinglleft}
631 \eqcommand{ }{guilsinglright}
632 \eqcommand{ }{halign}
633 \eqcommand{ }{hang}
634 \eqcommand{ }{hangafter}
635 \eqcommand{ }{hangindent}
636 \eqcommand{ }{hbadness}
637 \eqcommand{ }{hbox}
638 \eqcommand{ }{headheight}
639 \eqcommand{ }{headsep}
640 \eqcommand{ }{headtoname}
641 \eqcommand{ }{heartsuit}
642 \eqcommand{ }{height}
643 \eqcommand{ }{hfil}
644 \eqcommand{ }{hfill}
645 \eqcommand{ }{hfilneg}
646 \eqcommand{ }{hfuzz}
647 \eqcommand{ }{hideskip}
648 \eqcommand{ }{hidewidth}
649 \bidi@csletcs{ }{hline}% this is an exception
650 \eqcommand{ }{hoffset}
651 \eqcommand{ }{holdinginserts}
652 \eqcommand{ }{hrboxsep}
653 \eqcommand{ }{hrule}
654 \eqcommand{ }{hrulefill}
655 \eqcommand{ }{hsize}
656 \eqcommand{ }{hskip}
657 \eqcommand{ }{hspace}

```



```

658 \eqcommand{ }{hss}
659 \eqcommand{ }{ht}
660 \eqcommand{ }{huge}
661 \eqcommand{ }{Huge}
662 \eqcommand{ }{hyperlink}
663 \eqcommand{ }{hypersetup}
664 \eqcommand{ }{hypertarget}
665 \eqcommand{ }{hyphenation}
666 \eqcommand{ }{hyphenchar}
667 \eqcommand{ }{hyphenpenalty}
668 \eqcommand{@ }{@ifclassloaded}
669 \eqcommand{@ }{@ifdefinable}
670 \eqcommand{@ }{@ifnextchar}
671 \eqcommand{@ }{@ifpackageloaded}
672 \eqcommand{@ }{@ifstar}
673 \eqcommand{@ }{@ifundefined}
674 \eqcommand{ }{if}
675 \eqcommand{ @ }{if@tempswa}
676 \eqcommand{ }{ifcase}
677 \eqcommand{ }{ifcat}
678 \eqcommand{ }{ifdefined}
679 \eqcommand{ }{ifdim}
680 \eqcommand{ }{ifeof}
681 \eqcommand{ }{iff}
682 \eqcommand{ }{iffalse}
683 \eqcommand{ }{IfFileExists}
684 \eqcommand{ }{ifhbox}
685 \eqcommand{ }{ifhmode}
686 \eqcommand{ }{ifinner}
687 \eqcommand{ }{ifmmode}
688 \eqcommand{ }{ifnum}
689 \eqcommand{ }{ifodd}
690 \eqcommand{ }{ifthenelse}
691 \eqcommand{ }{iftrue}
692 \eqcommand{ }{ifvbox}
693 \eqcommand{ }{ifvmode}
694 \eqcommand{ }{ifvoid}
695 \eqcommand{ }{ifx}
696 \eqcommand{ }{ignorespaces}
697 \eqcommand{ }{immediate}
698 \eqcommand{ }{include}
699 \eqcommand{ }{includegraphics}
700 \eqcommand{ }{includeonly}
701 \eqcommand{ }{indent}
702 \eqcommand{ }{index}
703 \eqcommand{ }{indexentry}
704 \eqcommand{ }{indexname}
705 \eqcommand{ }{indexspace}
706 \eqcommand{ }{input}
707 \eqcommand{ }{InputIfFileExists}

```



```

708 \eqcommand{      }{inputlineno}
709 \eqcommand{ }{insert}
710 \eqcommand{      }{insertpenalties}
711 \eqcommand{      }{interfootnotelinepenalty}
712 \eqcommand{      }{interdisplaylinepenalty}
713 \eqcommand{      }{interlinepenalty}
714 \eqcommand{      }{intertext}
715 \eqcommand{      }{intertextsep}
716 \eqcommand{ }{invisible}
717 \eqcommand{      }{itdefault}
718 \eqcommand{      }{itshape}
719 \eqcommand{ }{item}
720 \eqcommand{      }{itemindent}
721 \eqcommand{      }{itemsep}
722 \eqcommand{      }{iterate}
723 \eqcommand{      }{itshape}
724 \eqcommand{      }{jobname}
725 \eqcommand{ }{jot}
726 \eqcommand{ }{kern}
727 \eqcommand{ }{kill}
728 \eqcommand{ }{label}
729 \eqcommand{      }{labelenumi}
730 \eqcommand{      }{labelenumii}
731 \eqcommand{      }{labelenumiii}
732 \eqcommand{      }{labelenumiv}
733 \eqcommand{      }{labelitemi}
734 \eqcommand{      }{labelitemii}
735 \eqcommand{      }{labelitemiii}
736 \eqcommand{      }{labelitemiv}
737 \eqcommand{      }{labelsep}
738 \eqcommand{      }{labelwidth}
739 \eqcommand{ }{language}
740 \eqcommand{ }{large}
741 \eqcommand{      }{Large}
742 \eqcommand{      }{LARGE}
743 \eqcommand{      }{lastbox}
744 \eqcommand{      }{lastkern}
745 \eqcommand{      }{lastpenalty}
746 \eqcommand{      }{lastskip}
747 \eqcommand{ }{LaTeX}
748 \eqcommand{      }{LaTeXe}
749 \eqcommand{      }{lccode}
750 \eqcommand{      }{ldots}
751 \eqcommand{      }{leaders}
752 \eqcommand{ }{leavevmode}
753 \eqcommand{ }{left}
754 \eqcommand{      }{leftmargin}
755 \eqcommand{      }{leftmargini}
756 \eqcommand{      }{leftmarginii}
757 \eqcommand{      }{leftmarginiii}

```





```

758 \eqcommand{      }{\leftmarginiv}
759 \eqcommand{      }{\leftmarginv}
760 \eqcommand{      }{\leftmarginvi}
761 \eqcommand{      }{\leftmark}
762 \eqcommand{      }{\leftpageskip}
763 \eqcommand{      }{\leftskip}
764 \eqcommand{ }{\let}
765 \eqcommand{ }{\line}
766 \eqcommand{ }{\linebreak}
767 \eqcommand{ }{\linepenalty}
768 \eqcommand{ }{\lineskip}
769 \eqcommand{ }{\lineskiplimit}
770 \eqcommand{ }{\linespread}
771 \eqcommand{ }{\linethickness}
772 \eqcommand{ }{\linewidth}
773 \eqcommand{ }{\listfigurename}
774 \eqcommand{ }{\listfiles}
775 \eqcommand{ }{\listoffigures}
776 \eqcommand{ }{\listoftables}
777 \eqcommand{ }{\listparindent}
778 \eqcommand{ }{\listtablename}
779 \eqcommand{ }{\LoadClass}
780 \eqcommand{ }{\LoadClassWithOptions}
781 \eqcommand{ }{\location}
782 \eqcommand{ }{\long}
783 \eqcommand{ }{\looseness}
784 \eqcommand{ }{\lower}
785 \eqcommand{@ }{@makeother}
786 \eqcommand{@ }{@m}
787 \eqcommand{ @ }{@M}
788 \eqcommand{ @ }{@Mi}
789 \eqcommand{ @ }{@Mii}
790 \eqcommand{ @ }{@Miii}
791 \eqcommand{ @ }{@Miv}
792 \eqcommand{ @ }{@MM}
793 \eqcommand{ @ }{@m@ne}
794 \eqcommand{ }{\mag}
795 \eqcommand{ }{\magstep}
796 \eqcommand{ }{\magstephalf}
797 \eqcommand{ }{\mainmatter}
798 \eqcommand{ }{\makeatletter}
799 \eqcommand{ }{\makeatother}
800 \eqcommand{ }{\makebox}
801 \eqcommand{ }{\makeglossary}
802 \eqcommand{ }{\makeindex}
803 \eqcommand{ }{\makelabel}
804 \eqcommand{ }{\makelabels}
805 \eqcommand{ }{\MakeLowercase}
806 \eqcommand{ }{\maketitle}
807 \eqcommand{ }{\MakeUppercase}

```



```

808 \eqcommand{    }\{marginpar}
809 \eqcommand{    }\{marginparpush}
810 \eqcommand{    }\{marginparsep}
811 \eqcommand{    }\{marginparwidth}
812 \eqcommand{    }\{mark}
813 \eqcommand{    }\{markboth}
814 \eqcommand{    }\{markright}
815 \eqcommand{    }\{mathaccent}
816 \eqcommand{    }\{mathchar}
817 \eqcommand{    }\{mathchardef}
818 \eqcommand{    }\{mathcode}
819 \eqcommand{    }\{mathrm}
820 \eqcommand{    }\{maxdeadcycles}
821 \eqcommand{    }\{maxdepth}
822 \eqcommand{    }\{maxdimen}
823 \eqcommand{    }\{mbox}
824 \eqcommand{    }\{mdseries}
825 \eqcommand{    }\{meaning}
826 \eqcommand{    }\{mediumseries}
827 \eqcommand{    }\{medmuskip}
828 \eqcommand{    }\{medskip}
829 \eqcommand{    }\{medskipamount}
830 \eqcommand{    }\{medspace}
831 \eqcommand{    }\{message}
832 \eqcommand{    }\{MessageBreak}
833 \eqcommand{    }\{minrowclearance}
834 \eqcommand{    }\{mkern}
835 \eqcommand{    }\{month}
836 \eqcommand{    }\{moveleft}
837 \eqcommand{    }\{moveright}
838 \eqcommand{    }\{mskip}
839 \eqcommand{ @ }\{m@th}
840 \eqcommand{    }\{multicolumn}
841 \eqcommand{    }\{multiply}
842 \eqcommand{    }\{multispan}
843 \eqcommand{    }\{muskip}
844 \eqcommand{    }\{muskipdef}
845 \eqcommand{@}\{ @namedef}
846 \eqcommand{@}\{ @nameuse}
847 \eqcommand{ @}\{ @ne}
848 \eqcommand{    }\{name}
849 \eqcommand{    }\{natural}
850 \eqcommand{    }\{nearrow}
851 \eqcommand{    }\{narrower}
852 \eqcommand{    }\{NeedsTeXFormat}
853 \eqcommand{    }\{neg}
854 \eqcommand{    }\{negmedspace}
855 \eqcommand{    }\{negthickspace}
856 \eqcommand{    }\{negthinspace}
857 \eqcommand{    }\{newboolean}

```



```

858 \eqcommand{ }{newbox}
859 \eqcommand{ }{newcommand}
860 \eqcommand{ }{newcount}
861 \eqcommand{ }{newcounter}
862 \eqcommand{ }{newdimen}
863 \eqcommand{ }{newenvironment}
864 \eqcommand{ }{newfam}
865 \eqcommand{ }{newfont}
866 \eqcommand{ }{newhelp}
867 \eqcommand{ }{newinsert}
868 \eqcommand{ }{newlabel}
869 \eqcommand{ }{newlength}
870 \eqcommand{ }{newline}
871 \eqcommand{ }{newlinechar}
872 \eqcommand{ }{newmuskip}
873 \eqcommand{ }{newpage}
874 \eqcommand{ }{newread}
875 \eqcommand{ }{newsavebox}
876 \eqcommand{ }{newskip}
877 \eqcommand{ }{newtheorem}
878 \eqcommand{ }{newtoks}
879 \eqcommand{ }{newwrite}
880 \eqcommand{ }{noalign}
881 \eqcommand{ }{nobreak}
882 \eqcommand{ }{nobreakspace}
883 \eqcommand{ }{nocite}
884 \eqcommand{ }{noexpand}
885 \eqcommand{ }{nofiles}
886 \eqcommand{ }{noindent}
887 \eqcommand{ }{nointerlineskip}
888 \eqcommand{ }{nolimits}
889 \eqcommand{ }{nolinebreak}
890 \eqcommand{ }{nonstopmode}
891 \eqcommand{ }{nonfrenchspacing}
892 \eqcommand{ }{nonumber}
893 \eqcommand{ }{nopagebreak}
894 \eqcommand{ }{normalbaselines}
895 \eqcommand{ }{normalbaselineskip}
896 \eqcommand{ }{normalcolor}
897 \eqcommand{ }{normalfont}
898 \eqcommand{ }{normallineskip}
899 \eqcommand{ }{normallineskiplimit}
900 \eqcommand{ }{normalmarginpar}
901 \eqcommand{ }{normalsize}
902 \eqcommand{ }{notag}
903 \eqcommand{ }{null}
904 \eqcommand{ }{nullfont}
905 \eqcommand{ }{number}
906 \eqcommand{ }{numberline}
907 \eqcommand{ }{numberwithin}

```



```

908 \eqcommand{      }{@evenfoot}
909 \eqcommand{      }{@evenhead}
910 \eqcommand{      }{@oddfoot}
911 \eqcommand{      }{@oddhead}
912 \eqcommand{      }{@outeqntrue}
913 \eqcommand{      }{@outeqnfalse}
914 \eqcommand{      }{obeylines}
915 \eqcommand{      }{obeyspaces}
916 \eqcommand{      }{oddsidemargin}
917 \eqcommand{      }{offinterlineskip}
918 \eqcommand{ }{omit}
919 \eqcommand{@      }{@onlypreamble}
920 \eqcommand{      }{onecolumn}
921 \eqcommand{      }{onlynotes}
922 \eqcommand{      }{onlyslides}
923 \eqcommand{      }{openin}
924 \eqcommand{      }{openout}
925 \eqcommand{      }{OptionNotUsed}
926 \eqcommand{ }{or}
927 \eqcommand{      }{outer}
928 \eqcommand{      }{output}
929 \eqcommand{      }{outputpenalty}
930 \eqcommand{      }{overfullrule}
931 \eqcommand{@      }{@preamblecmds}
932 \eqcommand{@ }{p@}
933 \eqcommand{      }{PackageError}
934 \eqcommand{      }{PackageInfo}
935 \eqcommand{      }{PackageWarning}
936 \eqcommand{      }{PackageWarningNoLine}
937 \eqcommand{      }{pagebreak}
938 \eqcommand{      }{pagecolor}
939 \eqcommand{      }{pagedepth}
940 \eqcommand{      }{pagefilllstretch}
941 \eqcommand{      }{pagefillstretch}
942 \eqcommand{      }{pagefilstretch}
943 \eqcommand{      }{pagegoal}
944 \eqcommand{      }{pagename}
945 \eqcommand{      }{pagenumbering}
946 \eqcommand{      }{pageref}
947 \eqcommand{      }{pagerulewidth}
948 \eqcommand{      }{pageshrink}
949 \eqcommand{      }{pagestretch}
950 \eqcommand{      }{pagestyle}
951 \eqcommand{      }{pagetotal}
952 \eqcommand{      }{paperheight}
953 \eqcommand{      }{paperwidth}
954 \bidi@csdefcs{ }{par}% this is an exception since \par is redefined only in some circumstances
955 \eqcommand{      }{paragraph}
956 \eqcommand{      }{parallel}
957 \eqcommand{      }{parbox}

```



```

958 \eqcommand{      }{parfillskip}
959 \eqcommand{      }{parindent}
960 \eqcommand{      }{parsep}
961 \eqcommand{      }{parshape}
962 \eqcommand{      }{parskip}
963 \eqcommand{ }{part}
964 \eqcommand{      }{partname}
965 \eqcommand{      }{partopsep}
966 \eqcommand{      }{PassOptionToClass}
967 \eqcommand{      }{PassOptionToPackage}
968 \eqcommand{ }{path}
969 \eqcommand{      }{patterns}
970 \eqcommand{ }{pausing}
971 \eqcommand{      }{penalty}
972 \eqcommand{ }{phantom}
973 \eqcommand{      }{poptabs}
974 \eqcommand{      }{postdisplaypenalty}
975 \eqcommand{      }{predisplaydirection}
976 \eqcommand{      }{predisdisplaypenalty}
977 \eqcommand{      }{predisplaysize}
978 \eqcommand{      }{pretolerance}
979 \eqcommand{      }{prevdepth}
980 \eqcommand{      }{prevgraf}
981 \eqcommand{      }{printindex}
982 \eqcommand{      }{ProcessOptions}
983 \eqcommand{ }{protect}
984 \eqcommand{      }{providecommand}
985 \eqcommand{      }{ProvidesClass}
986 \eqcommand{      }{ProvidesFile}
987 \eqcommand{      }{ProvidesPackage}
988 \eqcommand{      }{pushtabs}
989 \eqcommand{ }{quad}
990 \eqcommand{      }{qqquad}
991 \eqcommand{@      }{@outputpagerestore}
992 \eqcommand{      }{radical}
993 \eqcommand{      }{raggedbottom}
994 \eqcommand{      }{raggedleft}
995 \eqcommand{      }{raggedright}
996 \eqcommand{      }{raise}
997 \eqcommand{      }{raisebox}
998 \eqcommand{      }{raisetag}
999 \eqcommand{      }{rangle}
1000 \eqcommand{ }{rceil}
1001 \eqcommand{      }{read}
1002 \eqcommand{ }{ref}
1003 \eqcommand{      }{reflectbox}
1004 \eqcommand{      }{refname}
1005 \eqcommand{      }{refstepcounter}
1006 \eqcommand{ }{relax}
1007 \eqcommand{      }{removelastskip}

```



```

1008 \eqcommand{      }\{renewcommand\}
1009 \eqcommand{      }\{renewenvironment\}
1010 \eqcommand{      }\{RequirePackage\}
1011 \eqcommand{      }\{RequirePackageWithOptions\}
1012 \eqcommand{      }\{resizebox\}
1013 \eqcommand{      }\{reversemarginpar\}
1014 \eqcommand{      }\{rfloor\}
1015 \eqcommand{      }\{right\}
1016 \eqcommand{      }\{rightmargin\}
1017 \eqcommand{      }\{rightmark\}
1018 \eqcommand{      }\{rightpageskip\}
1019 \eqcommand{      }\{rightskip\}
1020 \eqcommand{      }\{rmdefault\}
1021 \eqcommand{      }\{rmfamily\}
1022 \eqcommand{      }\{Roman\}
1023 \eqcommand{      }\{roman\}
1024 \eqcommand{      }\{romannumeral\}
1025 \eqcommand{      }\{rotatebox\}
1026 \eqcommand{      }\{rowcolor\}
1027 \eqcommand{      }\{rule\}
1028 \eqcommand{@      }\{@secondoftwo\}
1029 \eqcommand{@      }\{@spaces\}
1030 \eqcommand{      }\{samepage\}
1031 \eqcommand{      }\{savebox\}
1032 \eqcommand{      }\{sbox\}
1033 \eqcommand{      }\{scalebox\}
1034 \eqcommand{      }\{scdefault\}
1035 \eqcommand{      }\{scshape\}
1036 \eqcommand{      }\{setkeys\}
1037 \eqcommand{      }\{scriptfont\}
1038 \eqcommand{      }\{scriptscriptfont\}
1039 \eqcommand{      }\{scriptscriptstyle\}
1040 \eqcommand{      }\{scriptsize\}
1041 \eqcommand{      }\{scripstyle\}
1042 \eqcommand{      }\{scrollmode\}
1043 \eqcommand{      }\{section\}
1044 \eqcommand{      }\{secdef\}
1045 \eqcommand{      }\{see\}
1046 \eqcommand{      }\{seealso\}
1047 \eqcommand{      }\{seename\}
1048 \eqcommand{      }\{selectfont\}
1049 \eqcommand{      }\{setboolean\}
1050 \eqcommand{      }\{setbox\}
1051 \eqcommand{      }\{setcounter\}
1052 \eqcommand{      }\{setlength\}
1053 \eqcommand{      }\{setminus\}
1054 \eqcommand{      }\{SetSymbolFont\}
1055 \eqcommand{      }\{settodepth\}
1056 \eqcommand{      }\{settoheight\}
1057 \eqcommand{      }\{settowidth\}

```



```

1058 \eqcommand{      }{sfcode}
1059 \eqcommand{      }{sfdefault}
1060 \eqcommand{      }{sffamily}
1061 \eqcommand{      }{shadowbox}
1062 \eqcommand{ }{sharp}
1063 \eqcommand{ }{shipout}
1064 \eqcommand{ }{shortstack}
1065 \eqcommand{ }{show}
1066 \eqcommand{ }{showbox}
1067 \eqcommand{ }{showboxbreadth}
1068 \eqcommand{ }{showboxdepth}
1069 \eqcommand{ }{showlists}
1070 \eqcommand{ }{showthe}
1071 \eqcommand{ }{simplefontmode}
1072 \eqcommand{ @}{sist@@n}
1073 \eqcommand{ }{skewchar}
1074 \eqcommand{ }{skip}
1075 \eqcommand{ @}{skip@}
1076 \eqcommand{ }{skipdef}
1077 \eqcommand{ }{sl}
1078 \eqcommand{ }{sldefault}
1079 \eqcommand{ }{slshape}
1080 \eqcommand{ }{sloppy}
1081 \eqcommand{ }{slshape}
1082 \eqcommand{ }{small}
1083 \eqcommand{ }{smallskip}
1084 \eqcommand{ }{smallskipamount}
1085 \eqcommand{ }{smash}
1086 \eqcommand{ }{smile}
1087 \eqcommand{ }{snglftlocatcode}
1088 \eqcommand{ }{space}
1089 \eqcommand{ }{spacefactor}
1090 \eqcommand{ }{spaceskip}
1091 \eqcommand{ }{spadesuit}
1092 \eqcommand{ }{span}
1093 \eqcommand{ }{special}
1094 \eqcommand{ }{splitmaxdepth}
1095 \eqcommand{ }{splittopskip}
1096 \eqcommand{ }{star}
1097 \eqcommand{ }{stepcounter}
1098 \eqcommand{ }{stretch}
1099 \eqcommand{ }{string}
1100 \eqcommand{ }{strut}
1101 \eqcommand{ }{strutbox}
1102 \eqcommand{ }{subitem}
1103 \eqcommand{ }{subparagraph}
1104 \eqcommand{ }{subsection}
1105 \eqcommand{ }{substack}
1106 \eqcommand{ }{subsubitem}
1107 \eqcommand{ }{subsubsection}

```



```

1108 \eqcommand{      }{subset}
1109 \eqcommand{      }{subseteq}
1110 \eqcommand{      }{supereject}
1111 \eqcommand{      }{suppressfloats}
1112 \eqcommand{@      }{@tempa}
1113 \eqcommand{@      }{@tempb}
1114 \eqcommand{@      }{@tempc}
1115 \eqcommand{@      }{@tempd}
1116 \eqcommand{@      }{@tempe}
1117 \eqcommand{@      }{@tempboxa}
1118 \eqcommand{@      }{@tempcnta}
1119 \eqcommand{@      }{@tempcntb}
1120 \eqcommand{@      }{@tempdima}
1121 \eqcommand{@      }{@tempdimb}
1122 \eqcommand{@      }{@tempdimc}
1123 \eqcommand{@      }{@tempskipa}
1124 \eqcommand{@      }{@tempskipb}
1125 \eqcommand{@      }{@tempswafalse}
1126 \eqcommand{@      }{@tempswatruel}
1127 \eqcommand{@      }{@temptokena}
1128 \eqcommand{      }{@thefnmark}
1129 \eqcommand{@      }{@thirdofthree}
1130 \eqcommand{      }{tabbingsep}
1131 \eqcommand{      }{tabcolsep}
1132 \eqcommand{      }{tableofcontents}
1133 \eqcommand{      }{tablename}
1134 \eqcommand{      }{tabskip}
1135 \eqcommand{      }{tabularnewline}
1136 \eqcommand{      }{tag}
1137 \eqcommand{      }{telephone}
1138 \eqcommand{      }{TeX}
1139 \eqcommand{      }{text}
1140 \eqcommand{      }{textbullet}
1141 \eqcommand{      }{textfont}
1142 \eqcommand{      }{textemdash}
1143 \eqcommand{      }{textendash}
1144 \eqcommand{      }{textexclamdown}
1145 \eqcommand{      }{textperiodcentered}
1146 \eqcommand{      }{textquestiondown}
1147 \eqcommand{      }{textquotedblleft}
1148 \eqcommand{      }{textquotedblright}
1149 \eqcommand{      }{textquoteleft}
1150 \eqcommand{      }{textquoteright}
1151 \eqcommand{      }{textvisiblespace}
1152 \eqcommand{      }{textbackslash}
1153 \eqcommand{      }{textbar}
1154 \eqcommand{      }{textgreater}
1155 \eqcommand{      }{textless}
1156 \eqcommand{      }{textbf}
1157 \eqcommand{      }{textcircled}

```





```

1158 \eqcommand{ }{textcolor}
1159 \eqcommand{ }{textcompwordmark}
1160 \eqcommand{ }{textfloatsep}
1161 \eqcommand{ }{textfraction}
1162 \eqcommand{ }{textheight}
1163 \eqcommand{ }{textindent}
1164 \eqcommand{ }{textit}
1165 \eqcommand{ }{textmd}
1166 \eqcommand{ }{textnormal}
1167 \eqcommand{ }{textregistered}
1168 \eqcommand{ }{textrm}
1169 \eqcommand{ }{textsc}
1170 \eqcommand{ }{textsf}
1171 \eqcommand{ }{textsl}
1172 \eqcommand{ }{textstyle}
1173 \eqcommand{ }{textsuperscript}
1174 \eqcommand{ }{texttrademark}
1175 \eqcommand{ }{texttt}
1176 \eqcommand{ }{textup}
1177 \eqcommand{ }{textwidth}
1178 \eqcommand{ }{thanks}
1179 \eqcommand{ }{the}
1180 \eqcommand{ }{thempfn}
1181 \eqcommand{ }{thicklines}
1182 \eqcommand{ }{thickmuskip}
1183 \eqcommand{ }{thinmuskip}
1184 \eqcommand{ }{thickspace}
1185 \eqcommand{ }{thinline}
1186 \eqcommand{ }{thinspace}
1187 \eqcommand{ }{thisfancy}
1188 \eqcommand{ }{thispagestyle}
1189 \eqcommand{ @}{thr@@}
1190 \eqcommand{ }{tilde}
1191 \eqcommand{ }{tiny}
1192 \eqcommand{ }{time}
1193 \eqcommand{ }{times}
1194 \eqcommand{ }{title}
1195 \eqcommand{ }{to}
1196 \eqcommand{ }{today}
1197 \eqcommand{ }{toks}
1198 \eqcommand{ }{toksdef}
1199 \eqcommand{ }{tolerance}
1200 \eqcommand{ }{top}
1201 \eqcommand{ }{topfigrule}
1202 \eqcommand{ }{topfraction}
1203 \eqcommand{ }{topmargin}
1204 \eqcommand{ }{topmark}
1205 \eqcommand{ }{toppageskip}
1206 \eqcommand{ }{topsep}
1207 \eqcommand{ }{topskip}

```



```

1208 \eqcommand{      }{totalheight}
1209 \eqcommand{      }{tracingall}
1210 \eqcommand{      }{tracingcommands}
1211 \eqcommand{      }{tracinglostchars}
1212 \eqcommand{      }{tracingmacros}
1213 \eqcommand{      }{tracingonline}
1214 \eqcommand{      }{tracingoutput}
1215 \eqcommand{      }{tracingpages}
1216 \eqcommand{      }{tracingparagraphs}
1217 \eqcommand{      }{tracingrestores}
1218 \eqcommand{      }{tracingstats}
1219 \eqcommand{ }{triangle}
1220 \eqcommand{ }{ttdefault}
1221 \eqcommand{ }{ttfamily}
1222 \eqcommand{ @}{tw@}
1223 \eqcommand{ }{twocolumn}
1224 \eqcommand{ }{typein}
1225 \eqcommand{ }{typeout}
1226 \eqcommand{ }{uccode}
1227 \eqcommand{ }{uchyph}
1228 \eqcommand{ }{underline}
1229 \eqcommand{ }{unhbox}
1230 \eqcommand{ }{unhcopy}
1231 \eqcommand{ }{unitlength}
1232 \eqcommand{ }{unkern}
1233 \eqcommand{ }{unpenalty}
1234 \eqcommand{ }{unskip}
1235 \eqcommand{ }{unvbox}
1236 \eqcommand{ }{unvcopy}
1237 \eqcommand{ }{updefault}
1238 \eqcommand{ }{upshape}
1239 \eqcommand{ }{usebox}
1240 \eqcommand{ }{usecounter}
1241 \eqcommand{ }{usefont}
1242 \eqcommand{ }{usepackage}
1243 \eqcommand{ @}{@vobeyspaces}
1244 \eqcommand{ @}{@void}
1245 \eqcommand{ }{vadjust}
1246 \eqcommand{ }{valign}
1247 \eqcommand{ }{value}
1248 \eqcommand{ }{vbadness}
1249 \eqcommand{ }{vbox}
1250 \eqcommand{ }{vcenter}
1251 \eqcommand{ }{verb}
1252 \eqcommand{ }{vfil}
1253 \eqcommand{ }{vfill}
1254 \eqcommand{ }{vfilneg}
1255 \eqcommand{ }{vfuzz}
1256 \eqcommand{ }{visible}
1257 \eqcommand{ }{vline}

```



```

1258 \eqcommand{ }{voffset}
1259 \eqcommand{ @ }{voidb@x}
1260 \eqcommand{ }{vpageref}
1261 \eqcommand{ }{vrboxsep}
1262 \eqcommand{ }{vref}
1263 \eqcommand{ }{vrule}
1264 \eqcommand{ }{vsize}
1265 \eqcommand{ }{vskip}
1266 \eqcommand{ }{vspace}
1267 \eqcommand{ }{vsplit}
1268 \eqcommand{ }{vss}
1269 \eqcommand{ }{vtop}
1270 \eqcommand{ }{wd}
1271 \eqcommand{ }{whiledo}
1272 \eqcommand{ }{widehat}
1273 \eqcommand{ }{widetilde}
1274 \eqcommand{ }{widowpenalty}
1275 \eqcommand{ }{width}
1276 \eqcommand{ }{wlog}
1277 \eqcommand{ }{write}
1278 \eqcommand{@ }{@xobeysp}
1279 \eqcommand{ @ }{@xxxii}
1280 \eqcommand{ }{xdef}
1281 \eqcommand{ }{xleaders}
1282 \eqcommand{ }{xspaceskip}
1283 \eqcommand{ }{year}
1284 \eqcommand{@ }{z@}
1285 \eqcommand{@ }{z@skip}

```

## 7.19 color-localise-xepersian.def

```

1286 color{ } \-localise-xepersian.def}[2011/03/01 v0.1 localising color package]
1287 0}{rgb}{ } \0,,0}
1288 1}{rgb}{ } \1,,1}
1289 1}{rgb}{ } \0,,0}
1290 0}{rgb}{ } \1,,0}
1291 0}{rgb}{ } \0,,1}
1292 1}{cmyk}{ } \0,,0,0}
1293 0}{cmyk}{ } \1,,0,0}
1294 0}{cmyk}{ } \0,,1,0}

```

## 7.20 xepersian-localise-commands-xepersian.def

```

1295 \ProvidesFile{xepersian-localise-commands-xepersian.def}[2012/07/25 v0.2 Persian localisation o
1296 \eqcommand{ }{autofootnoterule}
1297 \eqcommand{ }{AutoMathsDigits}
1298 \eqcommand{ }{DefaultMathsDigits}
1299 \eqcommand{ @ }{keyval@eq@alias@key}
1300 \eqcommand{ }{deflatinfont}
1301 \eqcommand{ }{defpersianfont}
1302 \eqcommand{ }{hboxL}

```



```

1303 \eqcommand{ }{hboxR}
1304 \eqcommand{ }{Latincite}
1305 \eqcommand{ }{latinfont}
1306 \eqcommand{ }{latintoday}
1307 \eqcommand{ }{leftfootnoterule}
1308 \eqcommand{ }{lr}
1309 \eqcommand{ }{LRE}
1310 \eqcommand{ }{LTRdblcol}
1311 \eqcommand{ }{LTRfootnote}
1312 \eqcommand{ }{LTRfootnotetext}
1313 \eqcommand{ }{LTRthanks}
1314 \eqcommand{ }{persianday}
1315 \eqcommand{ }{persianfont}
1316 \eqcommand{ }{PersianMathsDigits}
1317 \eqcommand{ }{persianmonth}
1318 \eqcommand{ }{persianyear}
1319 \eqcommand{ }{plq}
1320 \eqcommand{ }{prq}
1321 \eqcommand{ }{rightfootnoterule}
1322 \eqcommand{ }{rl}
1323 \eqcommand{ }{RLE}
1324 \eqcommand{ }{RTLdblcol}
1325 \eqcommand{ }{RTLfootnote}
1326 \eqcommand{ }{RTLfootnotetext}
1327 \eqcommand{ }{RTLthanks}
1328 \eqcommand{@ }{SepMark}
1329 \eqcommand{ }{SepMark}
1330 \eqcommand{ }{setdefaultbibitems}
1331 \eqcommand{ }{setdefaultmarginpar}
1332 \eqcommand{ }{setdigitfont}
1333 \eqcommand{ }{setfootnoteLR}
1334 \eqcommand{ }{setfootnoteRL}
1335 \eqcommand{ }{setlatintextfont}
1336 \eqcommand{ }{setLTR}
1337 \eqcommand{ }{setLTRbibitems}
1338 \eqcommand{ }{setLTRmarginpar}
1339 \eqcommand{ }{setRTL}
1340 \eqcommand{ }{setRTLbibitems}
1341 \eqcommand{ }{setRTLmarginpar}
1342 \eqcommand{ }{settextfont}
1343 \eqcommand{ }{textwidthfootnoterule}
1344 \eqcommand{ }{twocolumnstableofcontents}
1345 \eqcommand{ }{unsetfootnoteRL}
1346 \eqcommand{ }{unsetLTR}
1347 \eqcommand{ }{unsetRTL}
1348 \eqcommand{ }{vboxL}
1349 \eqcommand{ }{vboxR}
1350 \eqcommand{ }{XeLaTeX}
1351 \eqcommand{ }{XePersian}
1352 \eqcommand{ }{xepersianversion}

```



```

1353 \eqcommand{      }{xepersiandate}
1354 \eqcommand{  }{XeTeX}

```

## 7.21 enumerate-xepersian.def

```

1355 \ProvidesFile{enumerate-xepersian.def}[2010/07/25 v0.1 adaptations for enumerate package]
1356 \def\@enloop@{%
1357   \ifx \entemp@ \def\@tempa{\@enLabel\harfi } \else
1358   \ifx \entemp@ \def\@tempa{\@enLabel\adadi } \else
1359   \ifx \entemp@ \def\@tempa{\@enLabel\tartibi } \else
1360   \ifx \entemp@ \def\@tempa{\@enLabel\Alph } \else
1361   \ifx \entemp@ \def\@tempa{\@enLabel\alph } \else
1362   \ifx \entemp@ \def\@tempa{\@enLabel\roman } \else
1363   \ifx \entemp@ \def\@tempa{\@enLabel\Roman } \else
1364   \ifx \entemp@ \def\@tempa{\@enLabel\arabic} \else
1365   \ifx \sptoken\entemp \let\@tempa\@enSpace \else
1366   \ifx \bgroup\entemp \let\@tempa\@enGroup \else
1367   \ifx \enum@\entemp \let\@tempa\@gobble \else
1368   \let\@tempa\@enOther
1369   \@enhook
1370   \fi\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi
1371   \@tempa}

```

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

```

1372 \ProvidesFile{latex-localise-environments-xepersian.def}[2010/07/25 v0.2 Persian localisation of]
1373 \eqenvironment{ }{abstract}
1374 \eqenvironment{ }{appendix}
1375 \eqenvironment{ }{array}
1376 \eqenvironment{ }{center}
1377 \eqenvironment{ }{description}
1378 \eqenvironment{ }{displaymath}
1379 \eqenvironment{ }{document}
1380 \eqenvironment{ }{enumerate}
1381 \eqenvironment{ }{figure}
1382 \eqenvironment{ *}{figure*}
1383 \eqenvironment{ }{filecontents}
1384 \eqenvironment{ *}{filecontents*}
1385 \eqenvironment{ }{flushleft}
1386 \eqenvironment{ }{flushright}
1387 \eqenvironment{ }{itemize}
1388 \eqenvironment{ }{letter}
1389 \eqenvironment{ }{list}
1390 \eqenvironment{ }{longtable}
1391 \eqenvironment{ }{lrbox}
1392 \eqenvironment{ }{math}
1393 \eqenvironment{ }{matrix}
1394 \eqenvironment{ }{minipage}
1395 \eqenvironment{ }{multline}
1396 \eqenvironment{ }{note}
1397 \eqenvironment{ }{overlay}

```



```

1398 \eqenvironment{ }{picture}
1399 \eqenvironment{ }{quotation}
1400 \eqenvironment{ }{quote}
1401 \eqenvironment{ }{slide}
1402 \eqenvironment{ }{sloppypar}
1403 \eqenvironment{ }{split}
1404 \eqenvironment{ }{subarray}
1405 \eqenvironment{ }{tabbing}
1406 \eqenvironment{ }{table}
1407 \eqenvironment{ *}{table*}
1408 \eqenvironment{ }{tabular}
1409 \eqenvironment{ *}{tabular*}
1410 \eqenvironment{ }{thebibliography}
1411 \eqenvironment{ }{theindex}
1412 \eqenvironment{ }{titlepage}
1413 \eqenvironment{ }{trivlist}
1414 \eqenvironment{ }{verse}

```

## 7.23 xepersian-localise-environments-xepersian.def

```

1415 \ProvidesFile{xepersian-localise-environments-xepersian.def}[2010/07/25 v0.1 Persian localisati
1416 \eqenvironment{ }{latin}
1417 \eqenvironment{ }{LTR}
1418 \eqenvironment{ }{LTRitems}
1419 \eqenvironment{ }{modernpoem}
1420 \eqenvironment{ *}{modernpoem*}
1421 \eqenvironment{ }{persian}
1422 \eqenvironment{ }{RTL}
1423 \eqenvironment{ }{RTLitems}
1424 \eqenvironment{ }{traditionalpoem}
1425 \eqenvironment{ *}{traditionalpoem*}

```

## 7.24 extarticle-xepersian.def

```

1426 \ProvidesFile{extarticle-xepersian.def}[2010/07/25 v0.1 adaptations for extarticle class]
1427 \renewcommand\thepart {\@tartibi\c@part}
1428 \renewcommand\appendix{\par
1429 \setcounter{section}{0}%
1430 \setcounter{subsection}{0}%
1431 \gdef\thesection{\@harfi\c@section}}

```

## 7.25 extbook-xepersian.def

```

1432 \ProvidesFile{extbook-xepersian.def}[2010/07/25 v0.1 adaptations for extbook class]
1433 \renewcommand\frontmatter{%
1434 \cleardoublepage
1435 \@mainmatterfalse
1436 \pagenumbering{harfi}}
1437 \renewcommand \thepart {\@tartibi\c@part}
1438 \renewcommand\appendix{\par
1439 \setcounter{chapter}{0}%
1440 \setcounter{section}{0}%

```



```

1441 \gdef\@chapapp{\appendixname}%
1442 \gdef\thechapter{\@harfi\c@chapter}
1443 }%end appendix

```

## 7.26 extrafootnotefeatures-xepersian.def

```

1444 \ProvidesFile{extrafootnotefeatures-xepersian.def}[2012/01/01 v0.2 footnote macros for extrafoot
1445 \renewcommand{\foottextfont}{\footnotesize\if@RTL@footnote\else\latinfont\fi}
1446 \renewcommand{\LTRfoottextfont}{\footnotesize\latinfont}
1447 \renewcommand{\RTLfoottextfont}{\footnotesize\persianfont}

```

## 7.27 extreport-xepersian.def

```

1448 \ProvidesFile{extreport-xepersian.def}[2010/07/25 v0.1 adaptations for extreport class]
1449 \renewcommand\thepart {\@tartibi\c@part}
1450 \renewcommand\appendix{\par
1451 \setcounter{chapter}{0}%
1452 \setcounter{section}{0}%
1453 \gdef\@chapapp{\appendixname}%
1454 \gdef\thechapter{\@harfi\c@chapter}}

```

## 7.28 flowfram-xepersian.def

```

1455 \ProvidesFile{flowfram-xepersian.def}[2010/07/25 v0.1 adaptations for flowfram package]
1456 \def\@outputpage{%
1457 \begingroup
1458 \let\protect\noexpand
1459 \@resetactivechars
1460 \global\let\@if@newlist\if@newlist
1461 \global\@newlistfalse\@parboxrestore
1462 \shipout\vbox{\set@typeset@protect
1463 \aftergroup
1464 \endgroup
1465 \aftergroup
1466 \set@typeset@protect
1467 \reset@font\normalsize\normalsfcodes
1468 \let\label\@gobble
1469 \let\index\@gobble
1470 \let\glossary\@gobble
1471 \baselineskip\z@skip
1472 \lineskip\z@skip
1473 \lineskiplimit\z@
1474 \vskip\topmargin\moveright\@themargin
1475 \vbox{%
1476 \vskip\headheight
1477 \vskip\headsep
1478 \box\@outputbox
1479 }}%
1480 \global\let\if@newlist\@if@newlist
1481 \stepcounter{page}%
1482 \setcounter{displayedframe}{0}%
1483 \let\firstmark\botmark}

```



## 7.29 footnote-xepersian.def

```
1484 \ProvidesFile{footnote-xepersian.def}[2013/04/26 v0.4 footnote macros for xepersian package]
1485
1486
1487
1488 \long\def\@footnotetext#1{\insert\footins{%
1489   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
1490   \reset@font\footnotesize
1491   \interlinepenalty\interfootnotelinepenalty
1492   \splittopskip\footnotesep
1493   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
1494   \hsize\columnwidth \@parboxrestore
1495   \protected@edef\@currentlabel{%
1496     \csname p@footnote\endcsname\@thefnmark
1497   }%
1498   \color@begingroup
1499     \makefntext{%
1500       \rule{\z@\footnotesep}{\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\@finalstrut\strutsize}%
1501     \color@endgroup}}%
1502
1503
1504
1505
1506
1507 \long\def\@RTLfootnotetext#1{\insert\footins{%
1508   \@RTLtrue%
1509   \reset@font\footnotesize
1510   \interlinepenalty\interfootnotelinepenalty
1511   \splittopskip\footnotesep
1512   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
1513   \hsize\columnwidth \@parboxrestore
1514   \protected@edef\@currentlabel{%
1515     \csname p@footnote\endcsname\@thefnmark
1516   }%
1517   \color@begingroup
1518     \makefntext{%
1519       \rule{\z@\footnotesep}{\ignorespaces\persianfont #1\@finalstrut\strutbox}}%
1520   \color@endgroup}}%
1521
1522
1523
1524
1525
1526 \long\def\@LTRfootnotetext#1{\insert\footins{%
1527   \@RTLfalse%
1528   \reset@font\footnotesize
1529   \interlinepenalty\interfootnotelinepenalty
1530   \splittopskip\footnotesep
1531   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
```





```

1532 \hsize\columnwidth \@parboxrestore
1533 \protected@edef\@currentlabel{%
1534     \csname p@footnote\endcsname\@thefnmark
1535 }%
1536 \color@begingroup
1537     \@makefnintext{%
1538         \rule\z@\footnotesep\ignorespaces\latinfont #1\@finalstrut\strutbox}%
1539 \color@endgroup}}%
1540
1541 \footdir@temp\footdir@ORG@xepersian@footnotetext\@footnotetext{\bidi@footdir@footnote}%
1542 \footdir@temp\footdir@ORG@xepersian@RTLfootnotetext\@RTLfootnotetext{R}%
1543 \footdir@temp\footdir@ORG@xepersian@LTRfootnotetext\@LTRfootnotetext{L}%
1544
1545
1546
1547 \long\def\@mpfootnotetext#1{%
1548 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule
1549 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
1550     \unvbox\@mpfootins
1551     \reset@font\footnotesize
1552     \hsize\columnwidth
1553     \@parboxrestore
1554     \protected@edef\@currentlabel
1555         {\csname p@mpfootnote\endcsname\@thefnmark}}%
1556 \color@begingroup
1557     \@makefnintext{%
1558         \rule\z@\footnotesep\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\@finalstrut\strut
1559     \color@endgroup}}
1560
1561
1562
1563
1564
1565 \long\def\@mpRTLfootnotetext#1{%
1566 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnot
1567 \global\setbox\@mpfootins\vbox{\@RTLtrue%
1568     \unvbox\@mpfootins
1569     \reset@font\footnotesize
1570     \hsize\columnwidth
1571     \@parboxrestore
1572     \protected@edef\@currentlabel
1573         {\csname p@mpfootnote\endcsname\@thefnmark}}%
1574 \color@begingroup
1575     \@makefnintext{%
1576         \rule\z@\footnotesep\ignorespaces\persianfont #1\@finalstrut\strutbox}%
1577 \color@endgroup}}
1578
1579
1580 \long\def\@mpLTRfootnotetext#1{%
1581 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot

```



```

1582 \global\setbox\@mpfootins\vbox{\@RTLfalse%
1583 \unvbox\@mpfootins
1584 \reset@font\footnotesize
1585 \hsize\columnwidth
1586 \@parboxrestore
1587 \protected@edef\@currentlabel
1588 {\csname p@mpfootnote\endcsname\@thefnmark}%
1589 \color@begingroup
1590 \makefnintext{%
1591 \rule\z@\footnotesep\ignorespaces\latinfont #1\@finalstrut\strutbox}%
1592 \color@endgroup}}

```

### 7.30 framed-xepersian.def

```

1593 \ProvidesFile{framed-xepersian.def}[2012/06/05 v0.1 xepersian adaptations for framed package for
1594 \renewenvironment{titled-frame}[1]{%
1595 \def\FrameCommand{\fboxsep8pt\fboxrule2pt
1596 \TitleBarFrame{\textbf{#1}}}%
1597 \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
1598 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
1599 \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
1600 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1} (\if@RTL
1601 \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
1602 \TitleBarFrame{\textbf{#1} (\if@RTL else\ cont\fi)}}}%
1603 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
1604 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
1605 % could interfere with the width measurement.
1606 {\endMakeFramed}

```

### 7.31 glossaries-xepersian.def

```

1607 \ProvidesFile{glossaries-xepersian.def}[2014/09/04 v0.4 xepersian adaptations for glossaries pac
1608 \glsaddprotectedpagefmt{@harfi}
1609 \glsaddprotectedpagefmt{@tartibi}
1610 \glsaddprotectedpagefmt{@adadi}

```

### 7.32 hyperref-xepersian.def

```

1611 \ProvidesFile{hyperref-xepersian.def}[2015/02/02 v0.6 bilingual captions for hyperref package]
1612 \def\equationautorefname{\if@RTL else\ Equation\fi}%
1613 \def\footnoteautorefname{\if@RTL else\ footnote\fi}%
1614 \def\itemautorefname{\if@RTL else\ item\fi}%
1615 \def\figureautorefname{\if@RTL else\ Figure\fi}%
1616 \def\tableautorefname{\if@RTL else\ Table\fi}%
1617 \def\partautorefname{\if@RTL else\ Part\fi}%
1618 \def\appendixautorefname{\if@RTL else\ Appendix\fi}%
1619 \def\chapterautorefname{\if@RTL else\ chapter\fi}%
1620 \def\sectionautorefname{\if@RTL else\ section\fi}%
1621 \def\subsectionautorefname{\if@RTL else\ subsection\fi}%
1622 \def\subsubsectionautorefname{\if@RTL else\ subsubsection\fi}%
1623 \def\paragraphautorefname{\if@RTL else\ paragraph\fi}%
1624 \def\subparagraphautorefname{\if@RTL else\ subparagraph\fi}%

```



```

1625 \def\FancyVerblLineautorefname{\if@RTL else\ line\fi}%
1626 \def\theoremautorefname{\if@RTL else\ Theorem\fi}%
1627 \def\pageautorefname{\if@RTL else\ page\fi}%
1628 \AtBeginDocument{%
1629 \let\HyOrg@appendix\appendix
1630 \def\appendix{%
1631 \ltx@ifundefined{chapter}%
1632 {\gdef\theHsection{\Alph{section}}}%
1633 {\gdef\theHchapter{\Alph{chapter}}}%
1634 \xdef\Hy@chapapp{\Hy@appendixstring}%
1635 \HyOrg@appendix
1636 }
1637 }
1638 \pdfstringdefDisableCommands{%
1639 \let\lr\@firstofone
1640 \let\rl\@firstofone
1641 \def\XePersian{\XePersian}
1642 }
1643 \ltx@ifundefined{@resets@pp}{%
1644 }{%
1645 \let\HyOrg@resets@pp\@resets@pp
1646 \def\@resets@pp{%
1647 \ltx@ifundefined{chapter}{%
1648 \gdef\theHsection{\Hy@AlphNoErr{section}}%
1649 }{%
1650 \gdef\theHchapter{\Hy@AlphNoErr{chapter}}%
1651 }%
1652 \xdef\Hy@chapapp{\Hy@appendixstring}%
1653 \HyOrg@resets@pp
1654 }%
1655 }

```

### 7.33 imspc-xepersian.def

```

1656 \ProvidesFile{imspc-xepersian.def}[2015/12/07 v0.4 implementation of imspc class for xepersi
1657 \newenvironment{thebibliography}[1]{%
1658 \bibtitlestyle
1659 \normalfont\bibliofont\labelsep .5em\relax
1660 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
1661 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1662 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
1663 \leftmargin\labelwidth \advance\leftmargin\labelsep
1664 \usecounter{enumiv}}%
1665 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
1666 \sfcode`\.=\@m
1667 }{%
1668 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
1669 \endlist
1670 }
1671 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi

```



```

1672 \columnseprule\z@ \columnsep 35\p@
1673 \@indextitlestyle
1674 \thispagestyle{plain}%
1675 \let\item\@idxitem
1676 \parindent\z@ \parskip\z@\@plus.3\p@\relax
1677 \if@RTL\raggedleft\else\raggedright\fi
1678 \hyphenpenalty\@M
1679 \footnotesize}
1680 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
1681 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
1682 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
1683 \renewcommand \thepart {\@tartibi\c@part}
1684 \def\appendix{\par\c@section\z@ \c@subsection\z@
1685 \let\sectionname\appendixname
1686 \def\thesection{\@harfi\c@section}}
1687 \def\right@footnoterule{%
1688 \kern-.4\p@
1689 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
1690 \kern11\p@\kern-\footnotesep}
1691 \def\left@footnoterule{\kern-.4\p@
1692 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
1693 \def\@makefnmark{%
1694 \leavevmode
1695 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
1696 }
1697
1698
1699
1700 \long\def\@footnotetext#1{%
1701 \insert\footins{%
1702 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
1703 \normalfont\footnotesize
1704 \interlinepenalty\interfootnotelinepenalty
1705 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
1706 \floatingpenalty\@MM \hsize\columnwidth
1707 \@parboxrestore \parindent\normalparindent \sloppy
1708 \protected@edef\@currentlabel{%
1709 \csname p@footnote\endcsname\@thefnmark}%
1710 \@makefnmark}%
1711 \rule\z@\footnotesep\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\unskip\strut\par}}
1712
1713
1714
1715
1716
1717 \long\def\@RTLfootnotetext#1{%
1718 \insert\footins{%
1719 \@RTLtrue%
1720 \normalfont\footnotesize
1721 \interlinepenalty\interfootnotelinepenalty

```



```

1722 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
1723 \floatingpenalty\@MM \hsize\columnwidth
1724 \@parboxrestore \parindent\normalparindent \sloppy
1725 \protected@edef\@currentlabel{%
1726   \csname p@footnote\endcsname\@thefnmark}%
1727 \@makefnfntext{%
1728   \rule\z@\footnotesep\ignorespaces\persianfont #1\unskip\strut\par}}
1729
1730
1731
1732
1733
1734
1735
1736 \long\def\@LTRfootnotetext#1{%
1737   \insert\footins{%
1738     \@RTLfalse%
1739     \normalfont\footnotesize
1740     \interlinepenalty\interfootnotelinepenalty
1741     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
1742     \floatingpenalty\@MM \hsize\columnwidth
1743     \@parboxrestore \parindent\normalparindent \sloppy
1744     \protected@edef\@currentlabel{%
1745       \csname p@footnote\endcsname\@thefnmark}%
1746     \@makefnfntext{%
1747       \rule\z@\footnotesep\ignorespaces\latinfont #1\unskip\strut\par}}
1748
1749 \footdir@temp\footdir@ORG@xepersian@imsproc@footnotetext\@footnotetext{\@bidi@footdir@footnote}
1750 \footdir@temp\footdir@ORG@xepersian@imsproc@RTLfootnotetext\@RTLfootnotetext{R}%
1751 \footdir@temp\footdir@ORG@xepersian@imsproc@LTRfootnotetext\@LTRfootnotetext{L}%
1752
1753 \def\part{\@startsection{part}{0}%
1754   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
1755   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
1756 \def\@tocline#1#2#3#4#5#6#7{\relax
1757   \ifnum #1>\c@tocdepth % then omit
1758   \else
1759     \par \addpenalty\@secpenalty\addvspace{#2}%
1760     \begingroup \hyphenpenalty\@M
1761     \@ifempty{#4}{%
1762       \@tempdima\csname r@tocindent\@number#1\endcsname\relax
1763     }{%
1764       \@tempdima#4\relax
1765     }%
1766     \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi
1767     \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
1768     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
1769     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
1770     \nobreak
1771   \endgroup

```



```

1772 \fi}
1773 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
1774 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
1775 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
1776 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
1777 \def\maketitle{\par
1778 \topnum\z@ % this prevents figures from falling at the top of page 1
1779 \setcopyright
1780 \thispagestyle{firstpage}% this sets first page specifications
1781 \uppercase\nonmath\shorttitle
1782 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
1783 \else \andify\shortauthors
1784 \fi
1785 \@maketitle@hook
1786 \begingroup
1787 \@maketitle
1788 \toks@{\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}}%
1789 \toks4{\def\\{\ignorespaces}}% defend against questionable usage
1790 \edef\@tempa{%
1791 \@nx\markboth{\the\toks4
1792 \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
1793 \@tempa
1794 \endgroup
1795 \c@footnote\z@
1796 \cleartopmattertags
1797 }

```

### 7.34 kashida-xepersian.def

```

1798 \ProvidesFile{kashida-xepersian.def}[2016/09/09 v0.5 implementation of Kashida for xepersian pack
1799 \chardef\xepersian@zwj="200D % zero-width joiner
1800
1801 \chardef\xepersian@D=10 % dual-joiner class
1802 \chardef\xepersian@L=11 % lam
1803 \chardef\xepersian@R=12 % right-joiner
1804 \chardef\xepersian@A=13 % alef
1805 \chardef\xepersian@V=4096 % vowel or other combining mark (to be ignored)
1806 \newif\if@Kashida@on
1807 \def\xepersian@kashida{\if@Kashida@on\xepersian@zwj\nobreak%
1808 \leaders\hrule height \XeTeXglyphbounds2 \the\XeTeXcharglyph"0640 depth \XeTeXglyphbounds4 \t
1809
1810 \def\setclass#1#2{\def\theclass{#1}\def\charlist{#2}%
1811 \expandafter\dosetclass\charlist,\end}
1812 \def\dosetclass#1,#2\end{%
1813 \def\test{#1}\def\charlist{#2}%
1814 \ifx\test\empty\let\next\finishsetclass
1815 \else \XeTeXcharclass "\test = \theclass
1816 \let\next\dosetclass \fi
1817 \expandafter\next\charlist,,\end}
1818 \def\finishsetclass#1,,\end{}

```



```

1819
1820 \setclass \xepersian@A {0622,0623,0625,0627}
1821 \setclass \xepersian@R {0624,0629,062F,0630,0631,0632,0648,0698}
1822 \setclass \xepersian@D {0626,0628,062A,062B,062C,062D,062E}
1823 \setclass \xepersian@D {0633,0634,0635,0636,0637,0638,0639,063A}
1824 \setclass \xepersian@D {0640,0641,0642,0643,0645,0646,0647,0649,064A}
1825 \setclass \xepersian@D {067E,0686,06A9,06AF,06CC}
1826 \setclass \xepersian@L {0644}
1827 \setclass \xepersian@V {064B,064C,064D,064E,064F,0650,0651,0652}
1828
1829 \XeTeXinterchartoks \xepersian@D \xepersian@D = {\xepersian@kashida}
1830 \XeTeXinterchartoks \xepersian@L \xepersian@D = {\xepersian@kashida}
1831 \XeTeXinterchartoks \xepersian@D \xepersian@L = {\xepersian@kashida}
1832 \XeTeXinterchartoks \xepersian@L \xepersian@L = {\xepersian@kashida}
1833 \XeTeXinterchartoks \xepersian@D \xepersian@R = {\xepersian@kashida}
1834 \XeTeXinterchartoks \xepersian@D \xepersian@A = {\xepersian@kashida}
1835 \XeTeXinterchartoks \xepersian@L \xepersian@R = {\xepersian@kashida}
1836 \XeTeXinterchartoks \xepersian@L \xepersian@A = {}
1837
1838 \newcommand{\KashidaOn}{\@Kashida@ontrue}
1839 \newcommand{\KashidaOff}{\@Kashida@onfalse}
1840 \KashidaOn

```

### 7.35 listings-xepersian.def

```

1841 \ProvidesFile{listings-xepersian.def}[2014/07/17 v0.3 bilingual captions for listings package]
1842 \def\lstlistingname{\if@RTL else\    Listing\fi}
1843 \def\lstlistlistingname{\if@RTL    else\    Listings\fi}

```

### 7.36 loadingorder-xepersian.def

```

1844 \ProvidesFile{loadingorder-xepersian.def}[2012/01/01 v0.3 making sure that xepersian is the last]
1845 \bidi@isloaded{algorithmic}
1846 \bidi@isloaded{algorithm}
1847 \bidi@isloaded{backref}
1848 \bidi@isloaded{enumerate}
1849 \bidi@isloaded{tocloft}
1850 \bidi@isloaded{url}
1851 \AtBeginDocument{
1852   \if@bidi@algorithmicloaded@ \else
1853     \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package algorithmic after xepersian}{}]
1854   \fi%
1855   \if@bidi@algorithmloaded@ \else
1856     \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package algorithm after xepersian}{}]
1857   \fi%
1858   \if@bidi@backrefloaded@ \else
1859     \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package backref after xepersian}{}]
1860   \fi%
1861   \if@bidi@enumerateloading@ \else
1862     \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package enumerate after xepersian}{}]
1863   \fi%

```



```

1864 \if@bidi@tocloftloaded@else
1865 \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package tocloft after xepersian
1866 \fi%
1867 \if@bidi@urlloaded@else
1868 \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package url after xepersian pack
1869 \fi%
1870 }

```

## 7.37 localise-xepersian.def

```

1871 \ProvidesFile{localise-xepersian.def}[2014/07/10 v0.2b Persian localisation of LaTeX2e]
1872 \newcommand{\makezwnjletter}{\catcode`\=11\relax}
1873 \makezwnjletter
1874 \newcommand*\eqcommand[2]{\if@bidi@csprimitive{#2}{\bidi@csletcs{#1}{#2}}{\bidi@csdefcs{#1}{#2}}}
1875 \newcommand*\eqenvironment[2]{\newenvironment{#1}{\csname#2\endcsname}{\csname end#2\endcsname}}
1876 \@ifpackageloaded{keyval}{%
1877 \newcommand*\keyval@eq@alias@key[4][KV]{%
1878 \bidi@csletcs{#1@#2@#3}{#1@#2@#4}%
1879 \bidi@csletcs{#1@#2@#3@default}{#1@#2@#4@default}}%
1880 }{\@ifpackageloaded{xkeyval}{%
1881 \newcommand*\keyval@eq@alias@key[4][KV]{%
1882 \bidi@csletcs{#1@#2@#3}{#1@#2@#4}%
1883 \bidi@csletcs{#1@#2@#3@default}{#1@#2@#4@default}}%
1884 }{}}
1885 \input{latex-localise-commands-xepersian.def}
1886 \input{xepersian-localise-commands-xepersian.def}
1887 \input{latex-localise-environments-xepersian.def}
1888 \input{xepersian-localise-environments-xepersian.def}
1889 \input{latex-localise-messages-xepersian.def}
1890 \input{latex-localise-misc-xepersian.def}
1891 \input{packages-localise-xepersian.def}
1892 \aliasfontfeature{ExternalLocation}{ }
1893 \aliasfontfeature{ExternalLocation}{ }
1894 \aliasfontfeature{Renderer}{ }
1895 \aliasfontfeature{BoldFont}{ }
1896 \aliasfontfeature{Language}{ }
1897 \aliasfontfeature{Script}{ }
1898 \aliasfontfeature{UprightFont}{ }
1899 \aliasfontfeature{ItalicFont}{ }
1900 \aliasfontfeature{BoldItalicFont}{ }
1901 \aliasfontfeature{SlantedFont}{ }
1902 \aliasfontfeature{BoldSlantedFont}{ }
1903 \aliasfontfeature{SmallCapsFont}{ }
1904 \aliasfontfeature{UprightFeatures}{ }
1905 \aliasfontfeature{BoldFeatures}{ }
1906 \aliasfontfeature{ItalicFeatures}{ }
1907 \aliasfontfeature{BoldItalicFeatures}{ }
1908 \aliasfontfeature{SlantedFeatures}{ }
1909 \aliasfontfeature{BoldSlantedFeatures}{ }
1910 \aliasfontfeature{SmallCapsFeatures}{ }

```





```

1911 \aliasfontfeature{SizeFeatures}{      }
1912 \aliasfontfeature{Scale}{    }
1913 \aliasfontfeature{WordSpace}{      }
1914 \aliasfontfeature{PunctuationSpace}{    }
1915 \aliasfontfeature{FontAdjustment}{    }
1916 \aliasfontfeature{LetterSpace}{    }
1917 \aliasfontfeature{HyphenChar}{    }
1918 \aliasfontfeature{Color}{    }
1919 \aliasfontfeature{Opacity}{    }
1920 \aliasfontfeature{Mapping}{    }
1921 \aliasfontfeature{Weight}{    }
1922 \aliasfontfeature{Width}{    }
1923 \aliasfontfeature{OpticalSize}{    }
1924 \aliasfontfeature{FakeSlant}{    }
1925 \aliasfontfeature{FakeStretch}{    }
1926 \aliasfontfeature{FakeBold}{    }
1927 \aliasfontfeature{AutoFakeSlant}{    }
1928 \aliasfontfeature{AutoFakeBold}{    }
1929 \aliasfontfeature{Ligatures}{    }
1930 \aliasfontfeature{Alternate}{    }
1931 \aliasfontfeature{Variant}{    }
1932 \aliasfontfeature{Variant}{    }
1933 \aliasfontfeature{CharacterVariant}{    }
1934 \aliasfontfeature{Style}{    }
1935 \aliasfontfeature{Annotation}{    }
1936 \aliasfontfeature{RawFeature}{    }
1937 \aliasfontfeature{CharacterWidth}{    }
1938 \aliasfontfeature{Numbers}{    }
1939 \aliasfontfeature{Contextuals}{    }
1940 \aliasfontfeature{Diacritics}{    }
1941 \aliasfontfeature{Letters}{    }
1942 \aliasfontfeature{Kerning}{    }
1943 \aliasfontfeature{VerticalPosition}{    }
1944 \aliasfontfeature{Fractions}{    }
1945 \aliasfontfeatureoption{Language}{Default}{    }
1946 \aliasfontfeatureoption{Language}{Parsi}{    }
1947 \aliasfontfeatureoption{Script}{Parsi}{    }
1948 \aliasfontfeatureoption{Script}{Latin}{    }
1949 \aliasfontfeatureoption{Style}{MathScript}{    }
1950 \aliasfontfeatureoption{Style}{MathScriptScript}{    }

```

## 7.38 memoir-xepersian.def

```

1951 \ProvidesFile{memoir-xepersian.def}[2010/07/25 v0.1 adaptations for memoir class]
1952 \renewcommand{\@memfront}{%
1953   \@smemfront\pagenumbering{harfi}}
1954 \renewcommand{\setthesection}{\thechapter\@SepMark\harfi{section}}
1955 \renewcommand*{\thebook}{\@tartibi\c@book}
1956 \renewcommand*{\thepart}{\@tartibi\c@part}
1957 \renewcommand{\appendix}{\par

```



```

1958 \setcounter{chapter}{0}%
1959 \setcounter{section}{0}%
1960 \gdef\@chapapp{\appendixname}%
1961 \gdef\thechapter{\@harfi\c@chapter}%
1962 \anappendixtrue}

```

### 7.39 latex-localise-messages-xepersian.def

```

1963 latex} \-localise-messages-xepersian.def}[2011/03/01 v0.1 localising LaTeX2e messages]

```

### 7.40 minitoc-xepersian.def

```

1964 \ProvidesFile{minitoc-xepersian.def}[2010/07/25 v0.1 bilingual captions for minitoc package]
1965 \def\ptctitle{\if@RTL else\ Table of Contents\fi}%
1966 \def\plftitle{\if@RTL else\ List of Figures\fi}%
1967 \def\pltttitle{\if@RTL else\ List of Tables\fi}%
1968 \def\mtctitle{\if@RTL else\ Contents\fi}%
1969 \def\mlftitle{\if@RTL else\ Figures\fi}%
1970 \def\mltttitle{\if@RTL else\ Tables\fi}%
1971 \def\stctitle{\if@RTL else\ Contents\fi}%
1972 \def\slftitle{\if@RTL else\ Figures\fi}%
1973 \def\slttitle{\if@RTL else\ Tables\fi}%

```

### 7.41 latex-localise-misc-xepersian.def

```

1974 \ProvidesFile{latex-localise-misc-xepersian.def}[2012/01/01 v0.2 miscellaneous Persian localisation]
1975 %}1# \ \
1976 \@ \ @ \ \
1977 \1# \
1978 \1# @\
1979 \1# @\
1980 {\@ \ \
1981 %}2#1# @\ \
1982 %1# \ \@ \ \ \ \
1983 \2# \ @\ \
1984 {{2#1# \}}
1985 undefined\ \ \
1986
1987 %{\ \ \ \ \1#} \ \} \1# \ \
1988 \ { \ \ \
1989 \ \ \
1990
1991
1992 \ \ \ \%} \#1
1993 \1#} \ \ \% \
1994 \ \ \ \
1995 }%
1996 \
1997 \ \ \ \
1998 }
1999 \= \ \
2000

```



```

2001
2002 \@ifdefinitionfileloaded{latex-xetex-bidi}{%
2003 \def\@xfloat #1[#2]{%
2004   \@nodocument
2005   \def \@captive {#1}%
2006   \def \@fps {#2}%
2007   \@onelevel@sanitize \@fps
2008   \def \reserved@a {!}%
2009   \ifx \reserved@a \@fps
2010     \@fpsaddddefault
2011   \else
2012     \ifx \@fps \@empty
2013       \@fpsaddddefault
2014     \fi
2015   \fi
2016   \ifhmode
2017     \@bsphack
2018     \@floatpenalty -\@Mii
2019   \else
2020     \@floatpenalty-\@Miii
2021   \fi
2022   \ifinner
2023     \@parmoderr\@floatpenalty\z@
2024   \else
2025     \@next\@currbox\@freelist
2026     {%
2027       \@tempcnta \sixt@@n
2028       \expandafter \@tfor \expandafter \reserved@a
2029       \expandafter :\expandafter =\@fps
2030       \do
2031       {%
2032         \if \reserved@a h%
2033           \ifodd \@tempcnta
2034         \else
2035           \advance \@tempcnta \@ne
2036         \fi
2037       \fi
2038       \if \reserved@a %
2039         \ifodd \@tempcnta
2040       \else
2041         \advance \@tempcnta \@ne
2042       \fi
2043     \fi
2044     \if \reserved@a t%
2045       \@setfpsbit \tw@
2046     \fi
2047     \if \reserved@a %
2048       \@setfpsbit \tw@
2049     \fi
2050     \if \reserved@a b%

```



```

2051         \@setfpsbit 4%
2052     \fi
2053     \if \reserved@a %
2054         \@setfpsbit 4%
2055     \fi
2056     \if \reserved@a p%
2057         \@setfpsbit 8%
2058     \fi
2059     \if \reserved@a %
2060         \@setfpsbit 8%
2061     \fi
2062     \if \reserved@a !%
2063         \ifnum \@tempcnta>15
2064             \advance\@tempcnta -\sixt@@n\relax
2065         \fi
2066     \fi
2067 }%
2068 \@tempcntb \csname ftype@\@capttype \endcsname
2069 \multiply \@tempcntb \@xxxii
2070 \advance \@tempcnta \@tempcntb
2071 \global \count\@currbox \@tempcnta
2072 }%
2073 \fletovf
2074 \fi
2075 \global \setbox\@currbox
2076     \color@vbox
2077     \normalcolor
2078     \vbox \bgroup
2079         \hsize\columnwidth
2080         \@parboxrestore
2081         \@floatboxreset
2082 }
2083 \let\bm@ \bm@c
2084 \let\bm@ \bm@l
2085 \let\bm@ \bm@r
2086 \let\bm@ \bm@b
2087 \let\bm@ \bm@t
2088 \let\bm@ \bm@s
2089 \long\def\@iiiparbox#1#2[#3]#4#5{%
2090     \leavevmode
2091     \@pboxswfalse
2092     \ifRTLtab\@bidi@list@minipage@parbox@not@nobtrue\fi
2093     \ifRTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\else\fi
2094     \setlength\@tempdima{#4}%
2095     \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@@par}%
2096     \ifx\relax#2\else
2097         \setlength\@tempdimb{#2}%
2098         \edef\@parboxto{to\the\@tempdimb}%
2099     \fi
2100     \if#1b\vbox

```



```

2101 \else\if#1 \vbox
2102 \else\if #1t\vtop
2103 \else\if vtop\ #1
2104 \else\ifmode\vcenter
2105 \else\@pboxswtrue $\vcenter
2106 \fi\fi\fi\fi\fi
2107 \@parboxto{\let\hss\vss\let\unhbox\unvbox
2108 \csname bm@#3\endcsname}%
2109 \if@pboxsw \m@th$\fi
2110 \@end@tempboxa}
2111 \def\@iiiminipage#1#2[#3]#4{%
2112 \leavevmode
2113 \@pboxswfalse
2114 \if@RTLtab\@bidi@list@minipage@parbox@not@nobtrue\fi
2115 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\else
2116 \setlength\@tempdima{#4}%
2117 \def\@mpargs{{#1}{#2}[#3]{#4}}%
2118 \setbox\@tempboxa\vbox\bgroup
2119 \color@begingroup
2120 \hsize\@tempdima
2121 \textwidth\hsize \columnwidth\hsize
2122 \@parboxrestore
2123 \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
2124 \let\@footnotetext\@mpfootnotetext
2125 \let\@LTRfootnotetext\@mpLTRfootnotetext
2126 \let\@RTLfootnotetext\@mpRTLfootnotetext
2127 \let\@listdepth\@mplistdepth \@mplistdepth\z@
2128 \@minipagerestore
2129 \@setminipage}
2130 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
2131 \ifnum \@lastchclass=3 5 \else
2132 \z@ \if #1c\@chnum \z@ \else
2133 \if chnum@ \#1 \z@ \else
2134 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
2135 \if \if@RTLtab#1 \else#1 \fi\@chnum \@ne \else
2136 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
2137 \if \if@RTLtab#1 \else#1 \fi\@chnum \tw@ \else
2138 \@chclass \if #1l\@ne \else
2139 \if #1@ \tw@ \else
2140 \if #1p3 \else
2141 \if 3 #1 \else \z@ \@preamerr 0\fi
2142 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
2143 \fi}%
2144 }{}
2145 \ifdefinitionfileloaded{array-xetex-bidi}{%
2146 \def\@testpach{\@chclass
2147 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
2148 \ifnum \@lastchclass=7 5 \else
2149 \ifnum \@lastchclass=8 \tw@ \else
2150 \ifnum \@lastchclass=9 \thr@@

```



```

2151 \else \z@
2152 \ifnum \@lastchclass = 10 \else
2153 \edef\@nextchar{\expandafter\string\@nextchar}%
2154 \@chnum
2155 \if \@nextchar c\z@ \else
2156 \if \@nextchar @z\ \else
2157 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
2158 \if \@nextchar \if@RTLtab else\ fi\@ne\ \else
2159 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
2160 \if \@nextchar \if@RTLtab else\ @fi\tw\ \else
2161 \z@ \@chclass
2162 \if\@nextchar |\@ne \else
2163 \if \@nextchar !6 \else
2164 \if \@nextchar @7 \else
2165 \if \@nextchar <8 \else
2166 \if \@nextchar >9 \else
2167 10
2168 \@chnum
2169 \if \@nextchar m\thr@@\else
2170 \if \@nextchar thr@@\else\
2171 \if \@nextchar p4 \else
2172 \if \@nextchar 4 \else
2173 \if \@nextchar b5 \else
2174 \if \@nextchar 5 \else
2175 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi
2176 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}%
2177 }{}
2178 \ifdefinitionfileloaded{arydshln-xetex-bidi}{
2179 \ifadl\usingarypkg
2180 \def\@testpach{\@chclass
2181 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
2182 \ifnum \@lastchclass=7 5 \else
2183 \ifnum \@lastchclass=8 \tw@ \else
2184 \ifnum \@lastchclass=9 \thr@@
2185 \else \z@
2186 \ifnum \@lastchclass = 10 \else
2187 \edef\@nextchar{\expandafter\string\@nextchar}%
2188 \@chnum
2189 \if \@nextchar c\z@ \else
2190 \if \@nextchar @z\ \else
2191 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
2192 \if \@nextchar \if@RTLtab else\ fi\@ne\ \else
2193 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
2194 \if \@nextchar \if@RTLtab else\ @fi\tw\ \else
2195 \z@ \@chclass
2196 \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
2197 \if\@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
2198 \if\@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
2199 \if \@nextchar !6 \else
2200 \if \@nextchar @7 \else

```



```

2201      \if \@nextchar <8 \else
2202      \if \@nextchar >9 \else
2203      10
2204      \@chnum
2205      \if \@nextchar m\thr@@\else
2206      \if \@nextchar thr@@\else\
2207      \if \@nextchar p4 \else
2208      \if \@nextchar 4 \else
2209      \if \@nextchar b5 \else
2210      \if \@nextchar 5 \else
2211      \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi
2212      \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
2213
2214 \def\@classz{\@classx
2215   \@tempcnta \count@
2216   \prepnext@tok
2217   \@addtopreamble{\ifcase \@chnum
2218     \hfil
2219     \adl@putlrc{\dollarbegin \insert@column \dollarend}\hfil \or
2220     \hskip1sp\adl@putlrc{\dollarbegin \insert@column \dollarend}\hfil \or
2221     \hfil\hskip1sp\adl@putlrc{\dollarbegin \insert@column \dollarend}\or
2222     \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
2223     \adl@endmbox\or
2224     \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
2225     \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
2226     \fi}\prepnext@tok}
2227 \def\adl@class@start{4}
2228 \def\adl@class@iiiorvii{7}
2229
2230 \else
2231 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
2232   \ifnum \@lastchclass=\thr@@ 5\relax \else
2233     \z@ \if #1c\@chnum \z@ \else
2234       \if @chnum\z@\ #1 \else
2235         \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
2236         \if \if@RTLtab#1 \else#1 \fi\@chnum \@ne \else
2237         \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
2238         \if \if@RTLtab#1 \else#1 \fi\@chnum \tw@ \else
2239         \@chclass
2240         \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
2241         \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
2242         \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
2243         \if #1@ \tw@ \else
2244         \if #1p\thr@@ \else
2245         \if @@thr\ #1 \else\z@ \@preamerr 0\fi
2246         \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
2247
2248 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
2249   \or \or \@addamp \or
2250   \@acolampacol \or \@firstampfalse \@acol \fi

```



```

2251 \edef\@preamble{\@preamble
2252 \ifcase \@chnum
2253 \hfil\adl@putlrc{\$ \relax\@sharp$}\hfil
2254 \or \adl@putlrc{\$ \relax\@sharp$}\hfil
2255 \or \hfil\adl@putlrc{\$ \relax\@sharp$}\fi}}
2256 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
2257 \or \or \@addamp \or
2258 \@acolampacol \or \@firstampfalse \@acol \fi
2259 \edef\@preamble{\@preamble
2260 \ifcase \@chnum
2261 \hfil\adl@putlrc{\@sharp\unskip}\hfil
2262 \or \adl@putlrc{\@sharp\unskip}\hfil
2263 \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
2264 \def\adl@class@start{6}
2265 \def\adl@class@iiiorvii{3}
2266 \fi
2267 }{}
2268 \@ifdefinitionfileloaded{tabulary-xetex-bidi}{%
2269 \def\@testpach{\@chclass
2270 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
2271 \ifnum \@lastchclass=7 5 \else
2272 \ifnum \@lastchclass=8 \tw@ \else
2273 \ifnum \@lastchclass=9 \thr@@
2274 \else \z@
2275 \ifnum \@lastchclass = 10 \else
2276 \edef\@nextchar{\expandafter\string\@nextchar}%
2277 \@chnum
2278 \if \@nextchar c\z@ \else
2279 \if \@nextchar @z\ \else
2280 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
2281 \if \@nextchar \if@RTLtab else\ fi\@ne\ \else
2282 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
2283 \if \@nextchar \if@RTLtab else\ @fi\@tw\ \else
2284 \if \@nextchar C7 \else
2285 \if \@nextchar 7 \else
2286 \if \@nextchar L8 \else
2287 \if \@nextchar 8 \else
2288 \if \@nextchar R9 \else
2289 \if \@nextchar 9 \else
2290 \if \@nextchar J10 \else
2291 \if \@nextchar 10 \else
2292 \z@ \@chclass
2293 \if\@nextchar |\@ne \else
2294 \if \@nextchar !6 \else
2295 \if \@nextchar @7 \else
2296 \if \@nextchar <8 \else
2297 \if \@nextchar >9 \else
2298 10
2299 \@chnum
2300 \if \@nextchar m\thr@@\else

```





[illegible]

```

2344 \ProvidesFile{natbib-xepersian.def}[2011/08/01 v0.1 adaptations for natbib package]
2345 \renewcommand\NAT@set@cites{%
2346   \ifNAT@numbers
2347     \ifNAT@super \let\@cite\NAT@citesuper

```



```

2348 \def\NAT@mbox##1{\unskip\nobreak\textsuperscript{##1}}%
2349 \let\citeyearpar=\citeyear
2350 \let\NAT@space\relax
2351 \def\NAT@super@kern{\kern\p@}%
2352 \else
2353 \let\NAT@mbox=\mbox
2354 \let\@cite\NAT@citenum
2355 \let\NAT@space\NAT@spacechar
2356 \let\NAT@super@kern\relax
2357 \fi
2358 \let\@citex\NAT@citexnum
2359 \let\@Latincitex\NAT@Latin@citexnum
2360 \let\@biblabel\NAT@biblabelnum
2361 \let\@bibsetup\NAT@bibsetnum
2362 \renewcommand\NAT@idxtxt{\NAT@name\NAT@spacechar\NAT@open\NAT@num\NAT@close}%
2363 \def\natexlab##1{%
2364 \def\NAT@penalty{\penalty\@m}%
2365 \else
2366 \let\@cite\NAT@cite
2367 \let\@citex\NAT@citex
2368 \let\@Latincitex\NAT@Latin@citex
2369 \let\@biblabel\NAT@biblabel
2370 \let\@bibsetup\NAT@bibsetup
2371 \let\NAT@space\NAT@spacechar
2372 \let\NAT@penalty\@empty
2373 \renewcommand\NAT@idxtxt{\NAT@name\NAT@spacechar\NAT@open\NAT@date\NAT@close}%
2374 \def\natexlab##1{##1}%
2375 \fi}
2376 \newcommand\NAT@Latin@citex{}
2377 \def\NAT@Latin@citex%
2378 [#1][#2]#3{%
2379 \NAT@reset@parser
2380 \NAT@sort@cites{#3}%
2381 \NAT@reset@citea
2382 \@citef\lr{\let\NAT@nm\@empty\let\NAT@year\@empty
2383 \@for\@citeb:=\NAT@cite@list\do
2384 {\@safe@activestrue
2385 \edef\@citeb{\expandafter\@firstofone\@citeb\@empty}%
2386 \@safe@activesfalse
2387 \@ifundefined{b@\@citeb\@extra@b@citeb}{\@citea%
2388 {\reset@font\bfseries ?}\NAT@citeundefined
2389 \PackageWarning{natbib}%
2390 {Citation `\'@citeb' on page \thepage \space undefined}}\def\NAT@date{}}%
2391 {\let\NAT@last@nm=\NAT@nm\let\NAT@last@yr=\NAT@year
2392 \NAT@parse{\@citeb}%
2393 \ifNAT@longnames\@ifundefined{bv@\@citeb\@extra@b@citeb}{%
2394 \let\NAT@name=\NAT@all@names
2395 \global\@namedef{bv@\@citeb\@extra@b@citeb}{}}{}}%
2396 \fi
2397 \ifNAT@full\let\NAT@nm\NAT@all@names\else

```



```

2398 \let\NAT@nm\NAT@name\fi
2399 \ifNAT@swa\ifcase\NAT@ctype
2400 \if\relax\NAT@date\relax
2401 \@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}\NAT@date}%
2402 \else
2403 \ifx\NAT@last@nm\NAT@nm\NAT@yrsep
2404 \ifx\NAT@last@yr\NAT@year
2405 \def\NAT@temp{?}%
2406 \ifx\NAT@temp\NAT@exlab\PackageWarningNoLine{natbib}%
2407 {Multiple citation on page \thepage: same authors and
2408 year\MessageBreak without distinguishing extra
2409 letter,\MessageBreak appears as question mark}\fi
2410 \NAT@hyper@{\NAT@exlab}%
2411 \else\unskip\NAT@spacechar
2412 \NAT@hyper@{\NAT@date}%
2413 \fi
2414 \else
2415 \@citea\NAT@hyper@{%
2416 \NAT@nmfmt{\NAT@nm}%
2417 \hyper@natlinkbreak{%
2418 \NAT@aysep\NAT@spacechar}{\@citeb\@extra@b@citeb
2419 }%
2420 \NAT@date
2421 }%
2422 \fi
2423 \fi
2424 \or\@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}}%
2425 \or\@citea\NAT@hyper@{\NAT@date}%
2426 \or\@citea\NAT@hyper@{\NAT@alias}%
2427 \fi \NAT@def@citea
2428 \else
2429 \ifcase\NAT@ctype
2430 \if\relax\NAT@date\relax
2431 \@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}}%
2432 \else
2433 \ifx\NAT@last@nm\NAT@nm\NAT@yrsep
2434 \ifx\NAT@last@yr\NAT@year
2435 \def\NAT@temp{?}%
2436 \ifx\NAT@temp\NAT@exlab\PackageWarningNoLine{natbib}%
2437 {Multiple citation on page \thepage: same authors and
2438 year\MessageBreak without distinguishing extra
2439 letter,\MessageBreak appears as question mark}\fi
2440 \NAT@hyper@{\NAT@exlab}%
2441 \else
2442 \unskip\NAT@spacechar
2443 \NAT@hyper@{\NAT@date}%
2444 \fi
2445 \else
2446 \@citea\NAT@hyper@{%
2447 \NAT@nmfmt{\NAT@nm}%

```



```

2448 \hyper@natlinkbreak{\NAT@spacechar\NAT@@open@if*#1*\else#1\NAT@spacechar\fi}%
2449 {\@citeb\@extra@b@citeb}%
2450 \NAT@date
2451 }%
2452 \fi
2453 \fi
2454 \or\@citea\NAT@hyper@\NAT@nmfmt{\NAT@nm}}%
2455 \or\@citea\NAT@hyper@\NAT@date}%
2456 \or\@citea\NAT@hyper@\NAT@alias}%
2457 \fi
2458 \if\relax\NAT@date\relax
2459 \NAT@def@citea
2460 \else
2461 \NAT@def@citea@close
2462 \fi
2463 \fi
2464 }}\ifNAT@swa\else\if*#2*\else\NAT@cmt#2\fi
2465 \if\relax\NAT@date\relax\else\NAT@@close\fi\fi}}{#1}{#2}}
2466 \newcommand\NAT@Latin@citexnum{}
2467 \def\NAT@Latin@citexnum[#1][#2]#3{%
2468 \NAT@reset@parser
2469 \NAT@sort@cites{#3}%
2470 \NAT@reset@citea
2471 \@cite{\lr{\def\NAT@num{-1}\let\NAT@last@yr\relax\let\NAT@nm@empty
2472 \@for\@citeb:=\NAT@cite@list\do
2473 {\@safe@activetrue
2474 \edef\@citeb{\expandafter\@firstofone\@citeb\@empty}%
2475 \@safe@activesfalse
2476 \@ifundefined{b@\@citeb\@extra@b@citeb}{%
2477 {\reset@font\bfseries?}
2478 \NAT@citeundefined\PackageWarning{natbib}%
2479 {Citation `'\@citeb' on page \thepage \space undefined}}%
2480 {\let\NAT@last@num\NAT@num\let\NAT@last@nm\NAT@nm
2481 \NAT@parse{\@citeb}%
2482 \ifNAT@longnames\@ifundefined{bv@\@citeb\@extra@b@citeb}{%
2483 \let\NAT@name=\NAT@all@names
2484 \global\@namedef{bv@\@citeb\@extra@b@citeb}{}}{}}%
2485 \fi
2486 \ifNAT@full\let\NAT@nm\NAT@all@names\else
2487 \let\NAT@nm\NAT@name\fi
2488 \ifNAT@swa
2489 \@ifnum{\NAT@ctype>\@ne}{%
2490 \@citea
2491 \NAT@hyper@\@ifnum{\NAT@ctype=\tw@}{\NAT@test{\NAT@ctype}}{\NAT@alias}}%
2492 }{%
2493 \@ifnum{\NAT@cmprs>\z@}{%
2494 \NAT@ifcat@num\NAT@num
2495 {\let\NAT@nm=\NAT@num}%
2496 {\def\NAT@nm{-2}}%
2497 \NAT@ifcat@num\NAT@last@num

```



```

2498      {\@tempcnta=\NAT@last@num\relax}%
2499      {\@tempcnta\m@ne}%
2500      \@ifnum{\NAT@nm=\@tempcnta}{%
2501      \ifnum{\NAT@merge>\@ne}{\NAT@last@yr@mbox}%
2502      }{%
2503      \advance\@tempcnta by\@ne
2504      \@ifnum{\NAT@nm=\@tempcnta}{%
2505      \ifx\NAT@last@yr\relax
2506      \def\NAT@last@yr{\@citea}%
2507      \else
2508      \def\NAT@last@yr{--\NAT@penalty}%
2509      \fi
2510      }{%
2511      \NAT@last@yr@mbox
2512      }%
2513      }%
2514      }{%
2515      \@tempswatrue
2516      \@ifnum{\NAT@merge>\@ne}{\@ifnum{\NAT@last@num=\NAT@num\relax}{\@tempswafalse}{}}{%
2517      \if@tempswa\NAT@citea@mbox\fi
2518      }%
2519      }%
2520      \NAT@def@citea
2521      \else
2522      \ifcase\NAT@ctype
2523      \ifx\NAT@last@nm\NAT@nm \NAT@yrsep\NAT@penalty\NAT@space\else
2524      \@citea \NAT@test{\@ne}\NAT@spacechar\NAT@mbox{\NAT@super@kern\NAT@@open}%
2525      \fi
2526      \if*#1*\else#1\NAT@spacechar\fi
2527      \NAT@mbox{\NAT@hyper@{\@citenumfont{\NAT@num}}}%
2528      \NAT@def@citea@box
2529      \or
2530      \NAT@hyper@citea@space{\NAT@test{\NAT@ctype}}%
2531      \or
2532      \NAT@hyper@citea@space{\NAT@test{\NAT@ctype}}%
2533      \or
2534      \NAT@hyper@citea@space\NAT@alias
2535      \fi
2536      \fi
2537      }%
2538      }%
2539      \@ifnum{\NAT@cmprs>\z@}{\NAT@last@yr}{}%
2540      \ifNAT@swa\else
2541      \@ifnum{\NAT@ctype=\z@}{%
2542      \if*#2*\else\NAT@cmt#2\fi
2543      }{%
2544      \NAT@mbox{\NAT@@close}%
2545      \fi
2546      }}{#1}{#2}%
2547      }%

```



```

2548 \AtBeginDocument{\NAT@set@cites}
2549 \DeclareRobustCommand\Latincite
2550   {\begingroup\let\NAT@ctype\z@\NAT@partrue\NAT@swatrue
2551    \@ifstar{\NAT@fulltrue\NAT@Latin@cites}{\NAT@fullfalse\NAT@Latin@cites}}
2552 \newcommand\NAT@Latin@cites{\@ifnextchar [{\NAT@@Latin@@citetp}{%
2553   \ifNAT@numbers\else
2554   \NAT@swafalse
2555   \fi
2556   \NAT@@Latin@@citetp[]}}
2557 \newcommand\NAT@@Latin@@citetp{}
2558 \def\NAT@@Latin@@citetp[#1]{\@ifnextchar [{\@Latincitex[#1]}{\@Latincitex[] [#1]}}

```

### 7.43 packages-localise-xepersian.def

```

2559 packages} \-localise-xepersian.def}[2013/04/24 v0.2 localising LaTeX2e Packages]
2560 color} \}{color} @\-localise-xepersian.def}}{}
2561 \@ifpackageloaded{multicol}{%
2562 \newenvironment{ }{\begin{multicols}}{\end{multicols}}%
2563 \newenvironment{ *}{\begin{multicols*}}{\end{multicols*}}%
2564 }{}
2565 \@ifpackageloaded{verbatim}{%
2566 \begingroup
2567 \vrb@catcodes
2568 \lccode`!=`\\ \lccode`[=``{ \lccode`]=``}
2569 \catcode`~= \active \lccode`~=``^M
2570 \lccode`C=``C
2571 \lowercase{\endgroup
2572 \def\xepersian@localize@verbatim@start#1{%
2573   \verbatim@startline
2574   \if\noexpand#1\noexpand~%
2575     \let\next\xepersian@localize@verbatim@
2576   \else \def\next{\xepersian@localize@verbatim@#1}\fi
2577   \next}%
2578 \def\xepersian@localize@verbatim@#1~{\xepersian@localize@verbatim@@#1! \@nil}%
2579 \def\xepersian@localize@verbatim@@#1! {%
2580   \verbatim@addtoline{#1}%
2581   \futurelet\next\xepersian@localize@verbatim@@@}%
2582 \def\xepersian@localize@verbatim@@@#1\@nil{%
2583   \ifx\next\@nil
2584     \verbatim@processline
2585     \verbatim@startline
2586     \let\next\xepersian@localize@verbatim@
2587   \else
2588     \def\@tempa##1! \@nil{##1}%
2589     \@temptokena{! }%
2590     \def\next{\expandafter\xepersian@localize@verbatim@test\@tempa#1\@nil~}%
2591     \fi \next}%
2592 \def\xepersian@localize@verbatim@test#1{%
2593   \let\next\xepersian@localize@verbatim@test
2594   \if\noexpand#1\noexpand~%

```



```

2595         \expandafter\verbatim@addtoline
2596         \expandafter{\the\@temptokena}%
2597         \verbatim@processline
2598         \verbatim@startline
2599         \let\next\xepersian@localize@verbatim@
2600     \else \if\noexpand#1
2601         \@temptokena\expandafter{\the\@temptokena#1}%
2602     \else \if\noexpand#1\noexpand[%
2603         \let\@tempc\@empty
2604         \let\next\xepersian@localize@verbatim@testend
2605     \else
2606         \expandafter\verbatim@addtoline
2607         \expandafter{\the\@temptokena}%
2608         \def\next{\xepersian@localize@verbatim@#1}%
2609     \fi\fi\fi
2610     \next}%
2611 \def\xepersian@localize@verbatim@testend#1{%
2612     \if\noexpand#1\noexpand~%
2613         \expandafter\verbatim@addtoline
2614         \expandafter{\the\@temptokena[]}%
2615         \expandafter\verbatim@addtoline
2616         \expandafter{\@tempc}%
2617         \verbatim@processline
2618         \verbatim@startline
2619         \let\next\xepersian@localize@verbatim@
2620     \else\if\noexpand#1\noexpand[%
2621         \let\next\xepersian@localize@verbatim@@testend
2622     \else\if\noexpand#1\noexpand!%
2623         \expandafter\verbatim@addtoline
2624         \expandafter{\the\@temptokena[]}%
2625         \expandafter\verbatim@addtoline
2626         \expandafter{\@tempc}%
2627         \def\next{\xepersian@localize@verbatim@!}%
2628     \else \expandafter\def\expandafter\@tempc\expandafter
2629         {\@tempc#1}\fi\fi\fi
2630     \next}%
2631 \def\xepersian@localize@verbatim@@testend{%
2632     \ifx\@tempc\@currenvir
2633         \verbatim@finish
2634         \edef\next{\noexpand\end{\@currenvir}}%
2635         \noexpand\xepersian@localize@verbatim@rescan{\@currenvir}}%
2636     \else
2637         \expandafter\verbatim@addtoline
2638         \expandafter{\the\@temptokena[]}%
2639         \expandafter\verbatim@addtoline
2640         \expandafter{\@tempc[]}%
2641         \let\next\xepersian@localize@verbatim@
2642     \fi
2643     \next}%
2644 \def\xepersian@localize@verbatim@rescan#1#2~{\if\noexpand~\noexpand#2~\else

```



```

2645      \@warning{Characters dropped after `\'string\'end{#1}'}\fi}}%
2646 \def\      {\begingroup\@verbatim \frenchspacing\@vobeyspaces
2647           \xepersian@localize@verbatim@start}
2648 \@namedef{      *}{\begingroup\@verbatim\xepersian@localize@verbatim@start}
2649 \def\end      {\endtrivlist\endgroup\@doendpe}
2650 \expandafter\let\csname end      *\endcsname =\end
2651 \}{}
2652 \ExplSyntaxOn
2653 \AtBeginDocument{
2654   \xepersian_localize_patch_verbatim:
2655 }
2656 \cs_set:Npn \xepersian_localize_patch_verbatim: {
2657   \@ifpackageloaded{verbatim}{
2658     \cs_set:cpn {*      } }
2659     \group_begin: \@verbatim \fontspec_print_visible_spaces: \xepersian@localize@verbatim@start
2660   }
2661   }{
2662   }
2663 }
2664 \ExplSyntaxOff
2665 \@ifpackageloaded{graphicx}{%
2666 \def\Gin@boolkey#1#2{%
2667 \expandafter\@ifdefinable \csname Gin@#2 \endcsname{%
2668 \expandafter\let\csname Gin@#2 \expandafter\endcsname\csname Gin@#2true\endcsname}%
2669 \expandafter\@ifdefinable \csname Gin@#2 \endcsname{%
2670 \expandafter\let\csname Gin@#2 \expandafter\endcsname\csname Gin@#2false\endcsname}%
2671 \csname Gin@#2\ifx\relax#1\relax true\else#1\fi\endcsname}
2672 \define@key{Grot}{origin}[c]{%
2673 \@tfor\@tempa:=#1\do{%
2674   \if l\@tempa \Grot@x\z@\else
2675   \if tempa@ \Grot@x\z@\else
2676   \if r\@tempa \Grot@x\width\else
2677   \if tempa@ \Grot@x\width\else
2678   \if t\@tempa \Grot@y\height\else
2679   \if tempa@ \Grot@y\height\else
2680   \if b\@tempa \Grot@y-\depth\else
2681   \if tempa@ \Grot@y-\depth\else
2682   \if B\@tempa \Grot@y\z@\else
2683   \if tempa@ \Grot@y\z@\fi\fi\fi\fi\fi\fi\fi\fi\fi}}
2684 {draft}{      }{Gin} @ \
2685 {origin}{      }{Gin} @ \
2686 {origin}{      }{Grot} @ \
2687 {clip}{      }{Gin} @ \
2688 {keepaspectratio}{      }{Gin} @ \
2689 {natwidth}{      }{Gin} @ \
2690 {natheight}{      }{Gin} @ \
2691 {bb}{      }{Gin} @ \
2692 {viewport}{      }{Gin} @ \
2693 {trim}{      }{Gin} @ \
2694 {angle}{      }{Gin} @ \

```





```

2695 {width}{ }{Gin} @ \
2696 {height}{ }{Gin} @ \
2697 {totalheight}{ }{Gin} @ \
2698 {scale}{ }{Gin} @ \
2699 {type}{ }{Gin} @ \
2700 {ext}{ }{Gin} @ \
2701 {read}{ }{Gin} @ \
2702 {command}{ }{Gin} @ \
2703 {x}{ }{Grot} @ \
2704 {y}{ }{Grot} @ \
2705 {units}{ }{Grot} @ \
2706 {}{}

```

## 7.44 parsidigits.map

```

2707 LHSName "Digits"
2708 RHSName "ParsiDigits"
2709
2710 pass(Unicode)
2711 U+0030 <> U+06F0 ;
2712 U+0031 <> U+06F1 ;
2713 U+0032 <> U+06F2 ;
2714 U+0033 <> U+06F3 ;
2715 U+0034 <> U+06F4 ;
2716 U+0035 <> U+06F5 ;
2717 U+0036 <> U+06F6 ;
2718 U+0037 <> U+06F7 ;
2719 U+0038 <> U+06F8 ;
2720 U+0039 <> U+06F9 ;
2721
2722
2723 U+002C <> U+060C ; comma > arabic comma
2724 U+003F <> U+061F ; question mark -> arabic qm
2725 U+003B <> U+061B ; semicolon -> arabic semicolon
2726
2727 ; ligatures from Knuth's original CMR fonts
2728 U+002D U+002D <> U+2013 ; -- -> en dash
2729 U+002D U+002D U+002D <> U+2014 ; --- -> em dash
2730
2731 U+0027 <> U+2019 ; ' -> right single quote
2732 U+0027 U+0027 <> U+201D ; '' -> right double quote
2733 U+0022 > U+201D ; " -> right double quote
2734
2735 U+0060 <> U+2018 ; ` -> left single quote
2736 U+0060 U+0060 <> U+201C ; `` -> left double quote
2737
2738 U+0021 U+0060 <> U+00A1 ; !` -> inverted exclam
2739 U+003F U+0060 <> U+00BF ; ?` -> inverted question
2740
2741 ; additions supported in T1 encoding

```



```

2742 U+002C U+002C <> U+201E ; ,, -> DOUBLE LOW-9 QUOTATION MARK
2743 U+003C U+003C <> U+00AB ; << -> LEFT POINTING GUILLEMET
2744 U+003E U+003E <> U+00BB ; >> -> RIGHT POINTING GUILLEMET

```

## 7.45 rapport1-xepersian.def

```

2745 \ProvidesFile{rapport1-xepersian.def}[2010/07/25 v0.1 adaptations for rapport1 class]
2746 \renewcommand*\thepart{\@tartibi\c@part}
2747 \renewcommand*\appendix{\par
2748   \setcounter{chapter}{0}%
2749   \setcounter{section}{0}%
2750   \gdef\@chapapp{\appendixname}%
2751   \gdef\thechapter{\@harfi\c@chapter}}

```

## 7.46 rapport3-xepersian.def

```

2752 \ProvidesFile{rapport3-xepersian.def}[2010/07/25 v0.2 adaptations for rapport3 class]
2753 \renewcommand*\thepart{\@tartibi\c@part}
2754 \renewcommand*\appendix{\par
2755   \setcounter{chapter}{0}%
2756   \setcounter{section}{0}%
2757   \gdef\@chapapp{\appendixname}%
2758   \gdef\thechapter{\@harfi\c@chapter}}

```

## 7.47 refrep-xepersian.def

```

2759 \ProvidesFile{refrep-xepersian.def}[2010/07/25 v0.2 adaptations for refrep class]
2760 \renewcommand \thepart {\@tartibi\c@part}
2761 \renewcommand\appendix{\par
2762   \setcounter{chapter}{0}%
2763   \setcounter{section}{0}%
2764   \gdef\@chapapp{\appendixname}%
2765   \gdef\thechapter{\@harfi\c@chapter}
2766 }%end appendix

```

## 7.48 report-xepersian.def

```

2767 \ProvidesFile{report-xepersian.def}[2010/07/25 v0.2 adaptations for standard report class]
2768 \renewcommand \thepart {\@tartibi\c@part}
2769 \renewcommand\appendix{\par
2770   \setcounter{chapter}{0}%
2771   \setcounter{section}{0}%
2772   \gdef\@chapapp{\appendixname}%
2773   \gdef\thechapter{\@harfi\c@chapter}
2774 }%end appendix

```

## 7.49 scrartcl-xepersian.def

```

2775 \ProvidesFile{scrartcl-xepersian.def}[2010/07/25 v0.2 adaptations for scrartcl class]
2776 \renewcommand*\thepart{\@tartibi\c@part}
2777 \renewcommand*\appendix{\par%
2778   \setcounter{section}{0}%
2779   \setcounter{subsection}{0}%

```



```

2780 \gdef\thesection{\@harfi\c@section}%
2781 \csname appendixmore\endcsname
2782 }
2783 \renewcommand*{\@maybeautodot}[1]{%
2784 \ifx #1\@stop\let\@maybeautodot\relax
2785 \else
2786 \ifx #1\harfi \@autodottrue\fi
2787 \ifx #1\adadi \@autodottrue\fi
2788 \ifx #1\tartibi \@autodottrue\fi
2789 \ifx #1\Alph \@autodottrue\fi
2790 \ifx #1\alph \@autodottrue\fi
2791 \ifx #1\Roman \@autodottrue\fi
2792 \ifx #1\roman \@autodottrue\fi
2793 \ifx #1\@harfi \@autodottrue\fi
2794 \ifx #1\@adadi \@autodottrue\fi
2795 \ifx #1\@tartibi \@autodottrue\fi
2796 \ifx #1\@Alph \@autodottrue\fi
2797 \ifx #1\@alph \@autodottrue\fi
2798 \ifx #1\@Roman \@autodottrue\fi
2799 \ifx #1\@roman \@autodottrue\fi
2800 \ifx #1\romannumeral \@autodottrue\fi
2801 \fi
2802 \@maybeautodot
2803 }

```

## 7.50 scrbook-xepersian.def

```

2804 \ProvidesFile{scrbook-xepersian.def}[2010/07/25 v0.2 adaptations for scrbook class]
2805 \renewcommand*{\frontmatter{%
2806 \if@twoside\cleardoubleoddpagel\else\clearpage\fi
2807 \@mainmatterfalse\pagenumbering{harfi}%
2808 }
2809 \renewcommand*{\thepart}{\@tartibi\c@part}
2810 \renewcommand*{\appendix{\par%
2811 \setcounter{chapter}{0}%
2812 \setcounter{section}{0}%
2813 \gdef\@chapapp{\appendixname}%
2814 \gdef\thechapter{\@harfi\c@chapter}%
2815 \csname appendixmore\endcsname
2816 }
2817 \renewcommand*{\@maybeautodot}[1]{%
2818 \ifx #1\@stop\let\@maybeautodot\relax
2819 \else
2820 \ifx #1\harfi \@autodottrue\fi
2821 \ifx #1\adadi \@autodottrue\fi
2822 \ifx #1\tartibi \@autodottrue\fi
2823 \ifx #1\Alph \@autodottrue\fi
2824 \ifx #1\alph \@autodottrue\fi
2825 \ifx #1\Roman \@autodottrue\fi
2826 \ifx #1\roman \@autodottrue\fi

```



```

2827 \ifx #1\@harfi \@autodottrue\fi
2828 \ifx #1\@adadi \@autodottrue\fi
2829 \ifx #1\@tartibi \@autodottrue\fi
2830 \ifx #1\@Alph \@autodottrue\fi
2831 \ifx #1\@alph \@autodottrue\fi
2832 \ifx #1\@Roman \@autodottrue\fi
2833 \ifx #1\@roman \@autodottrue\fi
2834 \ifx #1\romannumeral \@autodottrue\fi
2835 \fi
2836 \@maybeautodot
2837 }

```

### 7.51 screprt-xepersian.def

```

2838 \ProvidesFile{screprt-xepersian.def}[2010/07/25 v0.2 adaptations for screprt class]
2839 \renewcommand*{\thepart}{\@tartibi\c@part}
2840 \renewcommand*\appendix{\par%
2841 \setcounter{chapter}{0}%
2842 \setcounter{section}{0}%
2843 \gdef\@chapapp{\appendixname}%
2844 \gdef\thechapter{\@harfi\c@chapter}%
2845 \csname appendixmore\endcsname
2846 }
2847 \renewcommand*{\@maybeautodot}[1]{%
2848 \ifx #1\@stop\let\@maybeautodot\relax
2849 \else
2850 \ifx #1\harfi \@autodottrue\fi
2851 \ifx #1\adadi \@autodottrue\fi
2852 \ifx #1\tartibi \@autodottrue\fi
2853 \ifx #1\Alph \@autodottrue\fi
2854 \ifx #1\alph \@autodottrue\fi
2855 \ifx #1\Roman \@autodottrue\fi
2856 \ifx #1\roman \@autodottrue\fi
2857 \ifx #1\@harfi \@autodottrue\fi
2858 \ifx #1\@adadi \@autodottrue\fi
2859 \ifx #1\@tartibi \@autodottrue\fi
2860 \ifx #1\@Alph \@autodottrue\fi
2861 \ifx #1\@alph \@autodottrue\fi
2862 \ifx #1\@Roman \@autodottrue\fi
2863 \ifx #1\@roman \@autodottrue\fi
2864 \ifx #1\romannumeral \@autodottrue\fi
2865 \fi
2866 \@maybeautodot
2867 }

```

### 7.52 soul-xepersian.def

```

2868 \ProvidesFile{soul-xepersian.def}[2015/10/16 v0.1 adaptations for soul package]
2869 \let\SOUL@tt\relax
2870 \newfontface{\SOUL@tt}{Times New Roman}

```



### 7.53 tkz-linknodes-xepersian.def

```

2871 \ProvidesFile{tkz-linknodes-xepersian.def}[2012/06/13 v0.1 adaptations for tkz-linknodes package]
2872 \renewcommand*{\@SetTab}{%
2873   \let\@alph\@latalph%
2874   \ifnum \value{C@NumTab}>25\relax%
2875     \setcounter{C@NumTab}{1}%
2876   \else%
2877     \stepcounter{C@NumTab}%
2878   \fi%
2879   \setcounter{C@NumGroup}{0}%
2880 \newcommand*{\PrefixCurrentTab}{\alph{C@NumTab}}
2881 \setboolean{B@FirstLink}{true}
2882 \setboolean{B@NewGroup}{false}
2883 \setcounter{C@NumGroup}{0}
2884 \setcounter{C@CurrentGroup}{0}
2885 \setcounter{NumC@Node}{0}
2886 \setcounter{NumC@Stop}{0}
2887 \setcounter{C@NextNode}{0}
2888 \setcounter{C@CurrentStop}{0}
2889 \setcounter{C@CurrentNode}{0}
2890 }%

```

### 7.54 tocloft-xepersian.def

```

2891 \ProvidesFile{tocloft-xepersian.def}[2010/07/25 v0.1 bilingual captions for tocloft package]
2892 \renewcommand*{\cftchapname}{\if@RTL else\ chapter\fi}
2893 \renewcommand*{\cftsecname}{\if@RTL else\ section\fi}
2894 \renewcommand*{\cftsubsecname}{\if@RTL else\ subsection\fi}
2895 \renewcommand*{\cftsubsubsecname}{\if@RTL else\ subsubsection\fi}
2896 \renewcommand*{\cftparaname}{\if@RTL else\ paragraph\fi}
2897 \renewcommand*{\cftsubparaname}{\if@RTL else\ subparagraph\fi}
2898 \renewcommand*{\cftfigname}{\if@RTL else\ figure\fi}
2899 \renewcommand*{\cftsubfigname}{\if@RTL else\ subfigure\fi}
2900 \renewcommand*{\cfttabname}{\if@RTL else\ table\fi}
2901 \renewcommand*{\cftsubtabname}{\if@RTL else\ subtable\fi}

```

### 7.55 xepersian.sty

```

2902 \NeedsTeXFormat{LaTeX2e}
2903 \def\xepersianversion{v17}
2904 \def\xepersiandate{2016/11/25}
2905 \ProvidesPackage{xepersian}[\xepersiandate\space \xepersianversion\space
2906 Persian typesetting in XeLaTeX]
2907 \RequirePackage{fontspec}
2908 \RequirePackage{xepersian-persiancal}
2909 \RequirePackage{xepersian-mathsdigitspec}
2910 \RequirePackage{bidi}
2911 \edef\@xepersian@info{*****~^J%
2912 * ~^J%
2913 * xepersian package (Persian for LaTeX, using XeTeX engine)~^J%
2914 * ~^J%

```



```

2915 * Description: The package supports Persian^^J%
2916 * typesetting, using fonts provided in the^^J%
2917 * distribution.^^J%
2918 * ^^J%
2919 * Copyright (c) 2008--2016 Vafa Khalighi^^J%
2920 * ^^J%
2921 * \xepersianversion, \xepersiandate^^J%
2922 * ^^J%
2923 * License: LaTeX Project Public License, version^^J%
2924 * 1.3c or higher (your choice)^^J%
2925 * ^^J%
2926 * Location on CTAN: /macros/xetex/latex/xepersian^^J%
2927 * ^^J%
2928 * Issue tracker: https://github.com/vafa/xepersian/issues^^J%
2929 * ^^J%
2930 * Support: persian-tex@tug.org^^J%
2931 *****}
2932 \typeout{\@xepersian@info}
2933 \edef\xepersian@everyjob{\the\everyjob}
2934 \everyjob{\xepersian@everyjob\typeout{\@xepersian@info}}
2935 \def\prq{«}
2936 \def\plq{»}
2937 \def\xepersian@cmds@temp#1{%
2938   \begingroup\expandafter\expandafter\expandafter\endgroup
2939   \expandafter\ifx\csname xepersian@#1\endcsname\relax
2940     \begingroup
2941       \escapechar=-1 %
2942       \edef\x{\expandafter\meaning\csname#1\endcsname}%
2943       \def\y{#1}%
2944       \def\z##1->{%}%
2945       \edef\y{\expandafter\z\meaning\y}%
2946       \expandafter\endgroup
2947       \ifx\x\y
2948         \expandafter\def\csname xepersian@#1\endcsname
2949         \expandafter{%
2950           \csname#1\endcsname
2951           }%
2952       \fi
2953     \fi
2954   }%
2955 \xepersian@cmds@temp{shellescape}
2956 \newif\ifwritexviii
2957 \ifnum\xepersian@shellescape=1\relax
2958   \writexviii true
2959 \else
2960   \writexviii false
2961 \fi
2962 \newfontscript{Parsi}{arab}
2963 \newfontlanguage{Parsi}{FAR}
2964 \ExplSyntaxOn

```



```

2965 \DeclareDocumentCommand \settextfont { o m }
2966 { \_fontspec_pass_args:nnn \_xepersian_settextfont:nn {#1} {#2} }
2967
2968 \cs_new:Nn \_xepersian_settextfont:nn
2969 {
2970   \fontspec_set_family:cnn { g\_fontspec\_ \cs_to_str:N \persianfont\_family } {Script=Parsi,Language=Parsi}
2971   \use:x
2972   {
2973     \exp_not:N \DeclareRobustCommand \exp_not:N \persianfont
2974     {
2975       \exp_not:N \fontfamily { \use:c {g\_fontspec\_ \cs_to_str:N \persianfont\_family} }
2976       \exp_not:N \fontencoding { \l\_fontspec_nfss_enc_tl }
2977       \exp_not:N \selectfont
2978     }
2979   }
2980   \cs_set_eq:NN \rmdefault \l\_fontspec_family_tl
2981   \normalfont
2982 }
2983 \DeclareDocumentCommand \setlatintextfont { o m }
2984 { \_fontspec_pass_args:nnn \_xepersian_setlatintextfont:nn {#1} {#2} }
2985
2986 \cs_new:Nn \_xepersian_setlatintextfont:nn
2987 {
2988   \fontspec_set_family:cnn { g\_fontspec\_ \cs_to_str:N \latinfont\_family } {Mapping=tex-text,#1}
2989   \use:x
2990   {
2991     \exp_not:N \DeclareRobustCommand \exp_not:N \latinfont
2992     {
2993       \exp_not:N \fontfamily { \use:c {g\_fontspec\_ \cs_to_str:N \latinfont\_family} }
2994       \exp_not:N \fontencoding { \l\_fontspec_nfss_enc_tl }
2995       \exp_not:N \selectfont
2996     }
2997   }
2998 }
2999 \cs_set_eq:NN \setlatinsansfont \setsansfont
3000 \cs_set_eq:NN \setlatinmonofont \setmonofont
3001 \DeclareDocumentCommand \defpersianfont { m o m }
3002 { \_fontspec_pass_args:nnn { \_xepersian_defpersianfont:Nnn #1 } {#2} {#3} }
3003
3004 \cs_new:Nn \_xepersian_defpersianfont:Nnn
3005 {
3006   \fontspec_set_family:cnn { g\_fontspec\_ \cs_to_str:N #1\_family } {Script=Parsi,Language=Parsi}
3007   \use:x
3008   {
3009     \exp_not:N \DeclareRobustCommand \exp_not:N #1
3010     {
3011       \exp_not:N \fontfamily { \use:c {g\_fontspec\_ \cs_to_str:N #1\_family} }
3012       \exp_not:N \fontencoding { \l\_fontspec_nfss_enc_tl }
3013       \exp_not:N \selectfont
3014     }

```



```

3015   }
3016 }
3017 \DeclareDocumentCommand \deflatinfont { m o m }
3018 { \_fontspec_pass_args:nnn { \_xepersian_deflatinfont:Nnn #1 } {#2} {#3} }
3019
3020 \cs_new:Nn \_xepersian_deflatinfont:Nnn
3021 {
3022   \fontspec_set_family:cnn { g\_fontspec_ \cs_to_str:N #1 _family } {Mapping=tex-text,#2} {#3}
3023   \use:x
3024   {
3025     \exp_not:N \DeclareRobustCommand \exp_not:N #1
3026     {
3027       \exp_not:N \fontfamily { \use:c {g\_fontspec_ \cs_to_str:N #1 _family} }
3028       \exp_not:N \fontencoding { \l\_fontspec_nfss_enc_tl }
3029       \exp_not:N \selectfont
3030     }
3031   }
3032 }
3033 \newcommand\persiansfdefault{}
3034 \newcommand\persianttdefault{}
3035 \newcommand\iranicsfdefault{}
3036 \newcommand\navarsfdefault{}
3037 \newcommand\pooksfdefault{}
3038 \newcommand\sayehsfdefault{}
3039 \DeclareRobustCommand\persiansffamily
3040     {\not@math@alphabet\persiansffamily\mathpersiansf
3041     \fontfamily\persiansfdefault\selectfont}
3042 \DeclareRobustCommand\persianttfamily
3043     {\not@math@alphabet\persianttfamily\mathpersiantt
3044     \fontfamily\persianttdefault\selectfont}
3045 \DeclareRobustCommand\iranicsffamily
3046     {\not@math@alphabet\iranicsffamily\mathiranic
3047     \fontfamily\iranicsfdefault\selectfont}
3048 \DeclareRobustCommand\navarsffamily
3049     {\not@math@alphabet\navarsffamily\mathnavar
3050     \fontfamily\navarsfdefault\selectfont}
3051 \DeclareRobustCommand\pooksffamily
3052     {\not@math@alphabet\pooksffamily\mathpook
3053     \fontfamily\pooksfdefault\selectfont}
3054 \DeclareRobustCommand\sayehsfamily
3055     {\not@math@alphabet\sayehsfamily\mathsayeh
3056     \fontfamily\sayehsfdefault\selectfont}
3057 \DeclareTextFontCommand{\textpersiansf}{\persiansffamily}
3058 \DeclareTextFontCommand{\textpersiantt}{\persianttfamily}
3059 \DeclareTextFontCommand{\textiranic}{\iranicsffamily}
3060 \DeclareTextFontCommand{\textnavar}{\navarsffamily}
3061 \DeclareTextFontCommand{\textpook}{\pooksffamily}
3062 \DeclareTextFontCommand{\textsayeh}{\sayehsfamily}
3063 \DeclareDocumentCommand \setpersiansfont { o m }
3064 { \_fontspec_pass_args:nnn \_xepersian_setpersiansfont:nn {#1} {#2} }

```





```

3065
3066 \cs_new:Nn \__xepersian_setpersiansansfont:nn
3067 {
3068   \fontspec_set_family:Nnn \persiansfdefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#
3069   \normalfont
3070   \ignorespaces
3071 }
3072 \DeclareDocumentCommand \setpersianmonofont { o m }
3073 { \__fontspec_pass_args:nnn \__xepersian_setpersianmonofont:nn {#1} {#2} }
3074
3075 \cs_new:Nn \__xepersian_setpersianmonofont:nn
3076 {
3077   \fontspec_set_family:Nnn \persianttdefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#
3078   \normalfont
3079   \ignorespaces
3080 }
3081 \DeclareDocumentCommand \setnavarfont { o m }
3082 { \__fontspec_pass_args:nnn \__xepersian_setnavarfont:nn {#1} {#2} }
3083
3084 \cs_new:Nn \__xepersian_setnavarfont:nn
3085 {
3086   \fontspec_set_family:Nnn \navardefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#1}{#2}
3087   \normalfont
3088   \ignorespaces
3089 }
3090 \DeclareDocumentCommand \setpookfont { o m }
3091 { \__fontspec_pass_args:nnn \__xepersian_setpookfont:nn {#1} {#2} }
3092
3093 \cs_new:Nn \__xepersian_setpookfont:nn
3094 {
3095   \fontspec_set_family:Nnn \pookdefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#1}{#2}
3096   \normalfont
3097   \ignorespaces
3098 }
3099 \DeclareDocumentCommand \setsayehfont { o m }
3100 { \__fontspec_pass_args:nnn \__xepersian_setsayehfont:nn {#1} {#2} }
3101
3102 \cs_new:Nn \__xepersian_setsayehfont:nn
3103 {
3104   \fontspec_set_family:Nnn \sayehdefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#1}{#2}
3105   \normalfont
3106   \ignorespaces
3107 }
3108 \DeclareDocumentCommand \setiraniconfont { o m }
3109 { \__fontspec_pass_args:nnn \__xepersian_setiraniconfont:nn {#1} {#2} }
3110
3111 \cs_new:Nn \__xepersian_setiraniconfont:nn
3112 {
3113   \fontspec_set_family:Nnn \iranicondefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#1}{#2}
3114   \normalfont

```



```

3115 \ignorespaces
3116 }
3117 \ExplSyntaxOff
3118 \def\resetlatinfont{%
3119 \let\normalfont\latinfont%
3120 \let\reset@font\normalfont%
3121 \latinfont}
3122 \def\setpersianfont{%
3123 \let\normalfont\persianfont%
3124 \let\reset@font\normalfont%
3125 \persianfont}
3126 \bidi@newrobustcmd*{\lr}[1]{\LRE{\@nonlatinfalse\latinfont#1}}
3127 \bidi@newrobustcmd*{\rl}[1]{\RLE{\@nonlatintrue\persianfont#1}}
3128 \def\latin{\LTR\LatinAlphs\@nonlatinfalse\@RTL@footnotefalse\resetlatinfont}
3129 \def\endlatin{\endLTR}
3130 \def\persian{\RTL\PersianAlphs\@nonlatintrue\@RTL@footnotetrue\setpersianfont}
3131 \def\endpersian{\endRTL}
3132 \newenvironment{latinitems}{\begin{LTRitems}\LatinAlphs\@nonlatinfalse\@RTL@footnotefalse\resetlatinfont}
3133 \newenvironment{parsiiitems}{\begin{RTLitems}\PersianAlphs\@nonlatintrue\@RTL@footnotetrue\setpersianfont}
3134 \let\originaltoday=\today
3135 \def\latintoday{\lr{\originaltoday}}
3136 \def\today{\rl{\persiantoday}}
3137 \def \@LTRmarginparreset {%
3138     \reset@font
3139     \latinfont
3140     \normalsize
3141     \@minipagetrue
3142     \everypar{\@minipagefalse\everypar{}\beginL}%
3143 }
3144 \DeclareRobustCommand\Latincite{%
3145 \@ifnextchar [{\@tempwattrue\@Latincitex}{\@tempwafalse\@Latincitex[]}}
3146 \def\@Latincitex[#1]#2{\leavevmode
3147 \let\@citea\@empty
3148 \@cite{\lr{\@for\@citeb:=#2\do
3149 {\@citea\def\@citea{\penalty\@m\ }%
3150 \edef\@citeb{\expandafter\@firstofone\@citeb\@empty}%
3151 \if@filesw\immediate\write\@auxout{\string\citation{\@citeb}}\fi
3152 \@ifundefined{b\@citeb}{\hbox{\reset@font\bfseries ?}%
3153 \G@refundefinedtrue
3154 \@latex@warning
3155 {Citation `'\@citeb' on page \thepage \space undefined}}%
3156 {\@cite@ofmt{\csname b\@citeb\endcsname}}}\@citeb}}{#1}}
3157 \def\@outputpage{%
3158 \begingroup % the \endgroup is put in by \aftergroup
3159 \let \protect \noexpand
3160 \@resetactivechars
3161 \global\let\@if@newlist\if@newlist
3162 \global\@newlistfalse
3163 \@parboxrestore
3164 \shipout \vbox{%

```



```

3165 \set@typeset@protect
3166 \aftergroup \endgroup
3167 \aftergroup \set@typeset@protect
3168 % correct? or just restore by ending
3169 % the group?
3170 \if@specialpage
3171 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
3172 \fi
3173 \if@twoside
3174 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
3175 \let\@themargin\oddsidemargin
3176 \else \let\@thehead\@evenhead
3177 \let\@thefoot\@evenfoot \let\@themargin\evensidemargin
3178 \fi
3179 \ifx\@thehead\@empty \let\@thehead\hfil \fi
3180 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
3181 \else %% not @twoside
3182 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
3183 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
3184 \fi
3185 \reset@font
3186 \normalsize
3187 \ifRTLmain\setpersianfont\else\resetlatinfont\fi
3188 \normalsfcodes
3189 \let\label\@gobble
3190 \let\index\@gobble
3191 \let\glossary\@gobble
3192 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
3193 \@begindvi
3194 \vskip \topmargin
3195 \moveright\@themargin \vbox {%
3196 \setbox\@tempboxa \vbox to\headheight{%
3197 \vfil
3198 \color@hbox
3199 \normalcolor
3200 \hb@xt@\textwidth{\ifRTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\ifRTLmain
3201 \color@endbox
3202 }% %% 22 Feb 87
3203 \dp\@tempboxa \z@
3204 \box\@tempboxa
3205 \vskip \headsep
3206 \box\@outputbox
3207 \baselineskip \footskip
3208 \color@hbox
3209 \normalcolor
3210 \hb@xt@\textwidth{\ifRTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\ifRTLmain
3211 \color@endbox
3212 }%
3213 }%
3214 \global\let\if@newlist\@if@newlist

```



```

3215 \global \@colht\textheight
3216 \stepcounter{page}%
3217 \let\firstmark\botmark
3218 }
3219 \newcommand\twocolumnstableofcontents{%
3220 \if@bidi@csundef{multi@column@out}{%
3221 \PackageError{xepersian}{Oops! you should load multicol package before xepersian package for being
3222 \begin{multicols}{2}[\section*{\contentsname}]%
3223 \small
3224 \@starttoc{toc}%
3225 \end{multicols}}}%
3226 \bidi@newrobustcmd*{\XePersian}{\leavevmode$\smash{\hbox{X\lower.5ex
3227 \hbox{\kern-.125em\bidi@reflect@box{E}}Persian}}$}%
3228 \def\figurename{\if@RTL else\ Figure\fi}
3229 \def\tablename{\if@RTL else\ Table\fi}
3230 \def\contentsname{\if@RTL else\ Contents\fi}
3231 \def\listfigurename{\if@RTL else\ List of Figures\fi}
3232 \def\listtablename{\if@RTL else\ List of Tables\fi}
3233 \def\appendixname{\if@RTL else\ Appendix\fi}
3234 \def\indexname{\if@RTL else\ Index\fi}
3235 \def\refname{\if@RTL else\ References\fi}
3236 \def\abstractname{\if@RTL else\ Abstract\fi}
3237 \def\partname{\if@RTL else\ Part\fi}
3238 \def\datename{\if@RTL else\ Date\fi}
3239 \def\@and{\if@RTL else\ and\fi}
3240 \def\bibname{\if@RTL else\ Bibliography\fi}
3241 \def\chaptername{\if@RTL else\ Chapter\fi}
3242 \def\ccname{\if@RTL else\ cc\fi}
3243 \def\enclname{\if@RTL else\ encl\fi}
3244 \def\pagename{\if@RTL else\ Page\fi}
3245 \def\headtoname{\if@RTL else\ To\fi}
3246 \def\proofname{\if@RTL else\ Proof\fi}
3247 \def\@Abjad#1{%
3248 \ifcase#1\or or\ or\ or\ %
3249 \or or\ or\ or\ or\ %
3250 \or or\ or\ or\ or\ %
3251 \or or\ or\ or\ %
3252 \or or\ or\ or\ or\ %
3253 \or or\ or\ or\ or\ %
3254 \else\@ctrerr\fi}
3255 \def\Abjad#1{\expandafter\@Abjad\csname c@#1\endcsname}
3256 \let\Abjadnumeral\@Abjad
3257 \def\@harfi#1{\ifcase#1\or or\ or\ or\ or\ or\ or\
3258 or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\
3259 or\ or\ or\ or\ or\ or\ or\ or\ or\ {else\@ctrerr\fi}
3260 \def\harfi#1{\expandafter\@harfi\csname c@#1\endcsname}
3261 \let\harfinumeral\@harfi
3262 \newcommand{\adadi}[1]{%
3263 \expandafter\@adadi\csname c@#1\endcsname%

```



```

3264 }
3265 \newcommand{\@adadi}[1]{%
3266 \xepersian@numberstring{#1}\xepersian@yekanii{ }{ }%
3267 }
3268 \let\adadinumeral\@adadi%
3269 \def\xepersian@numberoutofrange#1#2{%
3270 \PackageError{xepersian}{The number `#1' is too large %
3271 to be formatted using xepersian}{The largest possible %
3272 number is 999,999,999.}%
3273 }
3274 \def\xepersian@numberstring#1#2#3#4{%
3275 \ifnum\number#1<\@ne%
3276 #3%
3277 \else\ifnum\number#1<1000000000 %
3278 \expandafter\xepersian@adadi\expandafter{\number#1}#2%
3279 \else%
3280 \xepersian@numberoutofrange{#1}{#4}%
3281 \fi\fi%
3282 }
3283 \def\xepersian@adadi#1#2{%
3284 \expandafter\xepersian@@adadi%
3285 \ifcase%
3286 \ifnum#1<10 1%
3287 \else\ifnum#1<100 2%
3288 \else\ifnum#1<\@m 3%
3289 \else\ifnum#1<\@M 4%
3290 \else\ifnum#1<100000 5%
3291 \else\ifnum#1<1000000 6%
3292 \else\ifnum#1<10000000 7%
3293 \else\ifnum#1<100000000 8%
3294 \else9%
3295 \fi\fi\fi\fi\fi\fi\fi\fi\fi %
3296 \or00000000#1% case 1: Add 8 leading zeros
3297 \or0000000#1% case 2: Add 7 leading zeros
3298 \or000000#1% case 3: Add 6 leading zeros
3299 \or00000#1% case 4: Add 5 leading zeros
3300 \or0000#1% case 5: Add 4 leading zeros
3301 \or000#1% case 6: Add 3 leading zeros
3302 \or00#1% case 7: Add 2 leading zeros
3303 \or0#1% case 8: Add 1 leading zero
3304 \or#1% case 9: Add no leading zeros
3305 \or%
3306 \@nil#2%
3307 \fi%
3308 }
3309 \def\xepersian@@adadi#1#2#3#4#5#6#7\or#8\@nil#9{%
3310 \ifnum#1#2#3>\z@
3311 \xepersian@milyoongan#1#2#3%
3312 \ifnum#7>\z@\ifnum#4#5#6>\z@\ \else\ \fi\else\ifnum#4#5#6>\z@\ \fi\fi%
3313 \fi%

```



```

3314 \ifnum#4#5#6>\z@%
3315 \xepersian@sadgan#4#5#6{#1#2#3}{#4#5}\xepersian@yekani%
3316 \ifnum#4#5#6>\@ne\fi%
3317 %
3318 \ifnum#7>\z@\ \fi%
3319 \fi%
3320 \xepersian@sadgan#7{#4#5#6}1#9%
3321 }
3322 \def\xepersian@milyoongan#1#2#3{%
3323 \ifnum#1#2#3=\@ne%
3324 \xepersian@sadgan#1#2#301\xepersian@yekanii%
3325 %
3326 %
3327 \else%
3328 \xepersian@sadgan#1#2#301\xepersian@yekanii%
3329 %
3330 %
3331 \fi%
3332 }
3333 \def\xepersian@sadgan#1#2#3#4#5#6{%
3334 \ifnum#1>\z@%
3335 \ifnum#4#1>\@ne\xepersian@yekaniv#1\fi%
3336 %
3337 \ifnum#2#3>\z@\ \fi%
3338 \fi%
3339 \ifnum#2#3<20%
3340 \ifnum#5#2#3>\@ne#6{#2#3}\fi%
3341 \else%
3342 \xepersian@dahgan#2%
3343 \ifnum#3>\z@\ \xepersian@yekani#3\fi%
3344 #60%
3345 \fi%
3346 }
3347 \def\xepersian@yekani#1{%
3348 \ifcase#1\@empty\or or\ or\ or\ or\ or\ %
3349 \or or\ or\ or\ or\ or\ or\ %
3350 \or or\ or\ or\ %
3351 \or or\ %fi\
3352 }
3353 \def\xepersian@yekanii#1{%
3354 \ifcase#1\@empty\or %else\xepersian@yekani{#1}\fi\
3355 }
3356 \def\xepersian@yekanii#1{%
3357 \ifcase#1\@empty\or %else\xepersian@yekani{#1}\fi\
3358 }
3359 \def\xepersian@yekaniv#1{%
3360 \ifcase#1\@empty\or or\ or\ or\ or\ %
3361 \or or\ or\ %fi\
3362 }
3363 \def\xepersian@dahgan#1{%

```



```

3364 \ifcase#1\or\or or\ or\ %
3365 \or or\ or\ or\ %
3366 \or %fi\
3367 }
3368 \newcommand{\tartibi}[1]{%
3369 \expandafter\@tartibi\csname c@#1\endcsname%
3370 }
3371 \newcommand{\@tartibi}[1]{%
3372 \xepersian@numberstring@tartibi{#1}\xepersian@tartibi{ }{ }%
3373 }
3374 \let\tartibinumeral\@tartibi%
3375 \def\xepersian@numberstring@tartibi#1#2#3#4{%
3376 \ifnum\number#1<\@one%
3377 #3%
3378 \else\ifnum\number#1<1000000000 %
3379 \expandafter\xepersian@adadi@tartibi\expandafter{\number#1}#2%
3380 \else%
3381 \xepersian@numberoutofrange{#1}{#4}%
3382 \fi\fi%
3383 }
3384 \def\xepersian@adadi@tartibi#1#2{%
3385 \expandafter\xepersian@@adadi@tartibi%
3386 \ifcase%
3387 \ifnum#1<10 1%
3388 \else\ifnum#1<100 2%
3389 \else\ifnum#1<\@m 3%
3390 \else\ifnum#1<\@M 4%
3391 \else\ifnum#1<100000 5%
3392 \else\ifnum#1<1000000 6%
3393 \else\ifnum#1<10000000 7%
3394 \else\ifnum#1<100000000 8%
3395 \else9%
3396 \fi\fi\fi\fi\fi\fi\fi\fi %
3397 \or00000000#1% case 1: Add 8 leading zeros
3398 \or0000000#1% case 2: Add 7 leading zeros
3399 \or000000#1% case 3: Add 6 leading zeros
3400 \or00000#1% case 4: Add 5 leading zeros
3401 \or0000#1% case 5: Add 4 leading zeros
3402 \or000#1% case 6: Add 3 leading zeros
3403 \or00#1% case 7: Add 2 leading zeros
3404 \or0#1% case 8: Add 1 leading zero
3405 \or#1% case 9: Add no leading zeros
3406 \or%
3407 \@nil#2%
3408 \fi%
3409 }
3410 \def\xepersian@@adadi@tartibi#1#2#3#4#5#6#7\or#8\@nil#9{%
3411 \ifnum#1#2#3>\z@
3412 \xepersian@milyoongan@tartibi#1#2#3%
3413 \ifnum#7>\z@\ifnum#4#5#6>\z@\ \else\ \fi\else\ifnum#4#5#6>\z@\ \fi\fi%

```



```

3414 \fi%
3415 \ifnum#4#5#6>\z@%
3416 \xepersian@sadgan#4#5#6{#1#2#3}{#4#5}\xepersian@yekani%
3417 \ifnum#4#5#6>\@ne \fi%
3418 %
3419 \ifnum#7>\z@\ \fi%
3420 \fi%
3421 \xepersian@sadgan@tartibi#7{#4#5#6}1#9%
3422 }
3423 \def\xepersian@milyoongan@tartibi#1#2#3{%
3424 \ifnum#1#2#3=\@ne%
3425 \xepersian@sadgan@tartibi#1#2#301\xepersian@yekanii%
3426 %
3427 %
3428 \else%
3429 \xepersian@sadgan#1#2#301\xepersian@yekanii%
3430 %
3431 %
3432 \fi%
3433 }
3434 \def\xepersian@sadgan@tartibi#1#2#3#4#5#6{%
3435 \ifnum#1>\z@%
3436 \ifnum#4#1>\@ne\xepersian@yekaniv#1\fi%
3437 %
3438 \ifnum#2#3>\z@\ \fi%
3439 \fi%
3440 \ifnum#2#3<20%
3441 \ifnum#5#2#3>\@ne\ifnum#1#2#3#4#5=10001 %else#6{#2#3}\fi\fi\
3442 \else%
3443 \ifnum#2#3=30%
3444 \xepersian@dahgan@tartibi#2%
3445 \else%
3446 \xepersian@dahgan#2%
3447 \fi%
3448 \ifnum#3>\z@\ \xepersian@yekanv#3\fi%
3449 #60%
3450 \fi%
3451 }
3452 \def\xepersian@dahgan@tartibi#1{%
3453 \ifcase#1\or\or or\ or\ %
3454 \or or\ or\ or\ %
3455 \or %fi\
3456 }
3457 \def\xepersian@tartibi#1{%
3458 \ifcase#1\or or\ or\ or\ %
3459 \or or\ or\ or\ or\ %
3460 \or or\ or\ or\ %
3461 \or or\ or\ %
3462 \or or\ or\ %fi\
3463 }

```





```

3464 \def\xepersian@yekanv#1{%
3465 \ifcase#1\@empty\or or\ or\ or\ or\ or\ %
3466 \or or\ or\ or\ or\ or\ or\ %
3467 \or or\ or\ or\ %
3468 \or or\ %fi\
3469 }
3470 \providecommand*\xpg@warning}[1]{%
3471 \PackageWarning{XePersian}%
3472 {#1}}
3473 \if@bidi@csundef{@abjad}{%
3474 \def\@abjad#1{%
3475 \ifnum#1>1999 \xpg@warning{Illegal value (#1) for abjad numeral} {#1}
3476 \else
3477 \ifnum#1<\z@\space\xpg@warning{Illegal value (#1) for abjad numeral}%
3478 \else
3479 \ifnum#1<10\expandafter\abj@num@i\number#1%
3480 \else
3481 \ifnum#1<100\expandafter\abj@num@ii\number#1%
3482 \else
3483 \ifnum#1<\@m\expandafter\abj@num@iii\number#1%
3484 \else
3485 \ifnum#1<\@M\expandafter\abj@num@iv\number#1%since #1<2000, we must have 1000
3486 \fi
3487 \fi
3488 \fi
3489 \fi
3490 \fi
3491 \fi
3492 }
3493 \def\abjad#1{\expandafter\@abjad\csname c@#1\endcsname}
3494 \let\abjadnumeral\@abjad
3495 \def\abjad@zero{}
3496 \def\abj@num@i#1{%
3497 \ifcase#1\or or\ or\ or\ %
3498 \or or\ or\ or\ or\ fi\
3499 \ifnum#1=\z@\abjad@zero\fi}
3500 \def\abj@num@ii#1{%
3501 \ifcase#1\or or\ or\ or\ or\ %
3502 \or or\ or\ or\ fi\
3503 \ifnum#1=\z@\fi\abj@num@i}
3504 \def\abj@num@iii#1{%
3505 \ifcase#1\or or\ or\ or\ or\ %
3506 \or or\ or\ or\ fi\
3507 \ifnum#1=\z@\fi\abj@num@ii}
3508 \def\abj@num@iv#1{%
3509 \ifcase#1\or fi\
3510 \ifnum#1=\z@\fi\abj@num@iii}
3511 }{}
3512 \let\@latinalph\@alph%
3513 \let\@latinAlph\@Alph%

```



```

3514 \def\LatinAlphs{%
3515     \let\@alph\@latinalph%
3516     \let\@Alph\@latinAlph%
3517 }
3518 \bidi@AfterEndPreamble{%
3519 \if@bidi@csundef{persianfont}{%
3520 \PackageError{xepersian}{You have not specified any font\MessageBreak
3521 for the main Persian text}{Use '\settextfont' to load a font.}%
3522 }{}}
3523 \@ifdefinitionfileloaded{loadingorder-xetex-bidi}{\input{loadingorder-xepersian.def}}{}
3524 \@ifpackageloaded{appendix}{\input{appendix-xepersian.def}}{}
3525 \@ifpackageloaded{listings}{\input{listings-xepersian.def}}{}
3526 \@ifpackageloaded{algorithmic}{\input{algorithmic-xepersian.def}}{}
3527 \@ifpackageloaded{algorithm}{\input{algorithm-xepersian.def}}{}
3528 \@ifpackageloaded{backref}{\input{backref-xepersian.def}}{}
3529 \@ifpackageloaded{flowfram}{\input{flowfram-xepersian.def}}{}
3530 \@ifpackageloaded{bidiuftesidenote}{\input{bidiuftesidenote-xepersian.def}}{\input{footnote-
3531 \@ifpackageloaded{breqn}{\input{breqn-xepersian.def}}{}
3532 \@ifpackageloaded{enumerate}{\input{enumerate-xepersian.def}}{}
3533 \@ifpackageloaded{framed}{\input{framed-xepersian.def}}{}
3534 \@ifpackageloaded{glossaries}{\input{glossaries-xepersian.def}}{}
3535 \@ifpackageloaded{hyperref}{\input{hyperref-xepersian.def}}{}
3536 \@ifpackageloaded{minitoc}{\input{minitoc-xepersian.def}}{}
3537 \@ifpackageloaded{natbib}{\input{natbib-xepersian.def}}{}
3538 \@ifpackageloaded{soul}{\input{soul-xepersian.def}}{}
3539 \@ifpackageloaded{tkz-linknodes}{\input{tkz-linknodes-xepersian.def}}{}
3540 \@ifpackageloaded{tocloft}{\@ifclassloaded{memoir}{\input{tocloft-xepersian.def}}{}
3541 \@ifclassloaded{article}{\input{article-xepersian.def}}{}
3542 \@ifclassloaded{extarticle}{\input{extarticle-xepersian.def}}{}
3543 \@ifclassloaded{artikel1}{\input{artikel1-xepersian.def}}{}
3544 \@ifclassloaded{artikel2}{\input{artikel2-xepersian.def}}{}
3545 \@ifclassloaded{artikel3}{\input{artikel3-xepersian.def}}{}
3546 \@ifclassloaded{amsart}{\input{amsart-xepersian.def}}{}
3547 \@ifclassloaded{bidimoderncv}{\input{bidimoderncv-xepersian.def}}{}
3548 \@ifclassloaded{report}{\input{report-xepersian.def}}{}
3549 \@ifclassloaded{extreport}{\input{extreport-xepersian.def}}{}
3550 \@ifclassloaded{rapport1}{\input{rapport1-xepersian.def}}{}
3551 \@ifclassloaded{rapport3}{\input{rapport3-xepersian.def}}{}
3552 \@ifclassloaded{scrartcl}{\input{scrartcl-xepersian.def}}{}
3553 \@ifclassloaded{scrbook}{\input{scrbook-xepersian.def}}{}
3554 \@ifclassloaded{scrreprt}{\input{scrreprt-xepersian.def}}{}
3555 \@ifclassloaded{amsbook}{\input{amsbook-xepersian.def}}{}
3556 \@ifclassloaded{boek3}{\input{boek3-xepersian.def}}{}
3557 \@ifclassloaded{boek}{\input{boek-xepersian.def}}{}
3558 \@ifclassloaded{bookest}{\input{bookest-xepersian.def}}{}
3559 \@ifclassloaded{extbook}{\input{extbook-xepersian.def}}{}
3560 \@ifclassloaded{book}{\input{book-xepersian.def}}{}
3561 \@ifclassloaded{refrep}{\input{refrep-xepersian.def}}{}
3562 \@ifclassloaded{memoir}{\input{memoir-xepersian.def}}{}
3563 \@ifclassloaded{imsproc}{\input{imsproc-xepersian.def}}{}

```



```

3564 \define@choicekey{xepersian.sty}{mathdigits}[\xepersian@tempa\xepersian@tempb]{automatic,default}
3565 \ifcase\xepersian@tempb\relax
3566 \AutoMathsDigits
3567 \or
3568 \DefaultMathsDigits
3569 \or
3570 \PersianMathsDigits
3571 \fi}
3572 \define@choicekey{xepersian.sty}{RTLdocument}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3573 \ifcase\xepersian@tempb\relax
3574 \@RTLtrue
3575 \or
3576 \@RTLfalse
3577 \fi}
3578
3579 \define@choicekey{xepersian.sty}{script}[\xepersian@tempa\xepersian@tempb]{latin,nonlatin}[lat
3580 \ifcase\xepersian@tempb\relax
3581 \@nonlatinfalse
3582 \or
3583 \@nonlatintrue
3584 \fi}
3585
3586 \define@choicekey{xepersian.sty}{rldocument}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3587 \ifcase\xepersian@tempb\relax
3588 \@RTLtrue
3589 \or
3590 \@RTLfalse
3591 \fi}
3592 \define@choicekey{xepersian.sty}{footnoterule}[\xepersian@tempa\xepersian@tempb]{automatic,left
3593 \ifcase\xepersian@tempb\relax
3594 \autofootnoterule
3595 \or
3596 \leftfootnoterule
3597 \or
3598 \rightfootnoterule
3599 \or
3600 \SplitFootnoteRule
3601 \or
3602 \textwidthfootnoterule
3603 \fi}
3604 \define@choicekey{xepersian.sty}{footnotedirection}[\xepersian@tempa\xepersian@tempb]{righttol
3605 \ifcase\xepersian@tempb\relax
3606 \@RTL@footnotetrue
3607 \or
3608 \@RTL@footnotefalse
3609 \fi}
3610 \define@choicekey{xepersian.sty}{debugfootnotedirection}[\xepersian@tempa\xepersian@tempb]{on,
3611 \ifcase\xepersian@tempb\relax
3612 \footdir@debugtrue
3613 \or

```



```

3614 \footdir@debugfalse
3615 \fi}
3616 \define@choicekey{xepersian.sty}{Kashida}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3617 \ifcase\xepersian@tempb\relax
3618 \input{kashida-xepersian.def}
3619 \fi}
3620 \define@choicekey{xepersian.sty}{localise}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3621 \ifcase\xepersian@tempb\relax
3622 \input{localise-xepersian.def}
3623 \fi}
3624 \define@choicekey{xepersian.sty}{extrafootnotefeatures}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3625 \ifcase\xepersian@tempb\relax
3626 \@extrafootnotefeaturestrue
3627 \or
3628 \@extrafootnotefeaturesfalse
3629 \fi}
3630 \define@choicekey{xepersian.sty}{quickindex}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3631 \ifcase\xepersian@tempb\relax
3632 \PackageWarning{xepersian}{Obsolete option}%
3633 \ifwritexviii%
3634 \@ifclassloaded{memoir}{\PackageError{xepersian}{This feature does not yet work with the memoir}%
3635 \renewcommand\printindex{\newpage%
3636 \immediate\closeout\@indexfile
3637 \immediate\write18{xindy -L persian-variant2 -C utf8 -M texindy -M page-ranges \jobname.idx}
3638 \@input@{\jobname.ind}}}%
3639 \else
3640 \PackageError{xepersian}{"shell escape" (or "write18") is not enabled. You need to run "xelatex"}%
3641 \fi
3642 \fi}
3643 \define@choicekey{xepersian.sty}{quickindex-variant1}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3644 \ifcase\xepersian@tempb\relax
3645 \ifwritexviii%
3646 \@ifclassloaded{memoir}{\PackageError{xepersian}{This feature does not yet work with the memoir}%
3647 \renewcommand\printindex{\newpage%
3648 \immediate\closeout\@indexfile
3649 \immediate\write18{xindy -L persian-variant1 -C utf8 -M texindy -M page-ranges \jobname.idx}
3650 \@input@{\jobname.ind}}}%
3651 \else
3652 \PackageError{xepersian}{"shell escape" (or "write18") is not enabled. You need to run "xelatex"}%
3653 \fi
3654 \fi}
3655 \define@choicekey{xepersian.sty}{quickindex-variant2}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3656 \ifcase\xepersian@tempb\relax
3657 \ifwritexviii%
3658 \@ifclassloaded{memoir}{\PackageError{xepersian}{This feature does not yet work with the memoir}%
3659 \renewcommand\printindex{\newpage%
3660 \immediate\closeout\@indexfile
3661 \immediate\write18{xindy -L persian-variant2 -C utf8 -M texindy -M page-ranges \jobname.idx}
3662 \@input@{\jobname.ind}}}%
3663 \else

```



```

3664 \PackageError{xepersian}{"shell escape" (or "write18") is not enabled. You need to run "xelat
3665 \fi
3666 \fi}
3667 \define@choicekey{xepersian.sty}{abjadvariant}[\xepersian@tempa\xepersian@tempb]{one,two}{%
3668 \ifcase\xepersian@tempb\relax
3669 \def\PersianAlphs{%
3670 \let\@alph\@abjad%
3671 \let\@Alph\@abjad%
3672 }
3673 \or
3674 \def\PersianAlphs{%
3675 \let\@alph\@Abjad%
3676 \let\@Alph\@Abjad%
3677 }
3678 \fi}
3679 \DeclareOptionX{defaultlatinfontfeatures}{%
3680 \defaultfontfeatures
3681 [\latinfont]
3682 {#1}
3683 }
3684
3685 \ExecuteOptionsX{%
3686 RTLdocument=on,
3687 script=nonlatin,
3688 footnotedirection=righttoleft,
3689 footnoterule=automatic,
3690 abjadvariant=two
3691 }
3692
3693 \ProcessOptionsX
3694
3695 \if@extrafootnotefeatures
3696 \input{extrafootnotefeatures-xetex-bidi.def}
3697 \input{extrafootnotefeatures-xepersian.def}
3698 \fi
3699
3700 \setlatintextfont[ExternalLocation,BoldFont={lmroman10-bold},BoldItalicFont={lmroman10-boldita
3701 \PersianAlphs

```

## 7.56 xepersian-magazine.cls

```

3702 \NeedsTeXFormat{LaTeX2e}
3703 \ProvidesClass{xepersian-magazine}[2010/07/25 v0.2 Typesetting Persian magazines in XeLaTeX]
3704 \RequirePackage{ifthen}
3705 \newlength{\xepersian@imgsize}
3706 \newlength{\xepersian@coltitsize}
3707 \newlength{\xepersian@pageneed}
3708 \newlength{\xepersian@pageleft}
3709 \newlength{\xepersian@indexwidth}
3710 \newcommand{\xepersian@ncolumns}{0}

```



```

3711 \newlength{\columnlines}
3712 \setlength{\columnlines}{0 pt} % no lines by default
3713 \newboolean{xepersian@hyphenatedtitles}
3714 \setboolean{xepersian@hyphenatedtitles}{true}
3715 \newboolean{xepersian@ninepoints}
3716 \setboolean{xepersian@ninepoints}{false}
3717 \newboolean{xepersian@showgrid}
3718 \setboolean{xepersian@showgrid}{false}
3719 \newboolean{xepersian@a3paper}
3720 \setboolean{xepersian@a3paper}{false}
3721 \newboolean{xepersian@insidefrontpage}
3722 \setboolean{xepersian@insidefrontpage}{false}
3723 \newboolean{xepersian@insideweather}
3724 \setboolean{xepersian@insideweather}{false}
3725 \newboolean{xepersian@insideindex}
3726 \setboolean{xepersian@insideindex}{false}
3727 \newcount\xepersian@gridrows
3728 \newcount\xepersian@gridcolumns
3729 \xepersian@gridrows=40
3730 \xepersian@gridcolumns=50
3731 \newcount\minraggedcols
3732 \minraggedcols=5
3733 \DeclareOption{10pt}{\PassOptionsToClass{10pt}{article}}
3734 \DeclareOption{11pt}{\PassOptionsToClass{11pt}{article}}
3735 \DeclareOption{12pt}{\PassOptionsToClass{12pt}{article}}
3736 \DeclareOption{twocolumn}%
3737 {\ClassWarning{xepersian-magazine}{Option 'twocolumn' not available for xepersian-magazine.}}
3738 \DeclareOption{notitlepage}%
3739 {\ClassWarning{xepersian-magazine}{Option 'notitlepage' not available for xepersian-magazine.}}
3740 \DeclareOption{twoside}%
3741 {\ClassWarning{xepersian-magazine}{Option 'twoside' not available for xepersian-magazine.}}
3742 \DeclareOption{9pt}{\setboolean{xepersian@ninepoints}{true}}
3743 \DeclareOption{hyphenatedtitles}{\setboolean{xepersian@hyphenatedtitles}{false}}
3744 \DeclareOption{columnlines}{\setlength{\columnlines}{0.1 pt}}
3745 \DeclareOption{showgrid}{\setboolean{xepersian@showgrid}{true}}
3746 \DeclareOption{a3paper}{\setboolean{xepersian@a3paper}{true}}
3747 \ProcessOptions\relax
3748 \LoadClass[10pt, onecolumn, titlepage, a4paper]{article}
3749 \RequirePackage{ifxetex}
3750 \RequirePackage{multido}
3751 \RequirePackage{datetime}
3752 \RequirePackage{multicol}
3753 \RequirePackage{fancyhdr}
3754 \RequirePackage{fancybox}
3755 \ifthenelse{\boolean{xepersian@a3paper}}{%
3756 \RequirePackage[a3paper, headsep=0.5cm, vmargin={2cm, 2cm}, hmargin={1.5cm, 1.5cm}]{geometry}
3757 }{
3758 \RequirePackage[headsep=0.5cm, vmargin={2cm, 2cm}, hmargin={1.5cm, 1.5cm}]{geometry}
3759 }
3760 \RequirePackage[absolute]{textpos} % absolute positioning

```



```

3761 \RequirePackage{hyphenat} % when hyphenate
3762 \RequirePackage{lastpage} % to know the last page number
3763 \RequirePackage{setspace} % set space between lines
3764 \RequirePackage{ragged2e}
3765 \newcommand{\raggedFormat}{\RaggedLeft}
3766 \AtEndOfClass{\xepersianInit}
3767 \ifthenelse{\boolean{xepersian@showgrid}}{%
3768 \AtBeginDocument{
3769 \grid[show]{\xepersian@gridrows}{\xepersian@gridcolumns}}
3770 \advance\minraggedcols by -1
3771 }{%
3772 \AtBeginDocument{
3773 \grid[]{\xepersian@gridrows}{\xepersian@gridcolumns}}
3774 \advance\minraggedcols by -1
3775 }
3776 \ifthenelse{\boolean{xepersian@ninepoints}}{
3777 \renewcommand{\normalsize}{%
3778 \setfontsize{\normalsize}{9pt}{10pt}%
3779 \setlength{\abovedisplayskip}{5pt plus 1pt minus .5pt}%
3780 \setlength{\belowdisplayskip}{\abovedisplayskip}%
3781 \setlength{\abovedisplayshortskip}{3pt plus 1pt minus 2pt}%
3782 \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}
3783
3784 \renewcommand{\tiny}{\setfontsize{\tiny}{5pt}{6pt}}
3785
3786 \renewcommand{\scriptsize}{\setfontsize{\scriptsize}{7pt}{8pt}}
3787
3788 \renewcommand{\small}{%
3789 \setfontsize{\small}{8pt}{9pt}%
3790 \setlength{\abovedisplayskip}{4pt plus 1pt minus 1pt}%
3791 \setlength{\belowdisplayskip}{\abovedisplayskip}%
3792 \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
3793 \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}
3794
3795 \renewcommand{\footnotesize}{%
3796 \setfontsize{\footnotesize}{8pt}{9pt}%
3797 \setlength{\abovedisplayskip}{4pt plus 1pt minus .5pt}%
3798 \setlength{\belowdisplayskip}{\abovedisplayskip}%
3799 \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
3800 \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}
3801
3802 \renewcommand{\large}{\setfontsize{\large}{11pt}{13pt}}
3803 \renewcommand{\Large}{\setfontsize{\Large}{14pt}{18pt}}
3804 \renewcommand{\LARGE}{\setfontsize{\LARGE}{18pt}{20pt}}
3805 \renewcommand{\huge}{\setfontsize{\huge}{20pt}{25pt}}
3806 \renewcommand{\Huge}{\setfontsize{\Huge}{25pt}{30pt}}
3807 }{}
3808 \def\customwwwTxt#1{\gdef\customwwwTxt{\lr{#1}}}
3809 \newcommand{\xepersian@wwwFormat}{\sffamily}
3810 \newcommand{\xepersian@www}{%

```



```

3811 \raisebox{-3pt}{\xepersian@wwwFormat\@customwwwTxt}}
3812 }
3813 \newcommand{\xepersian@edition}{
3814 \newcommand{\editionFormat}{\large\bfseries\texttt}
3815 \newcommand{\xepersian@editionLogo}{%
3816 \raisebox{-3pt}{%
3817 {\editionFormat\xepersian@edition}%
3818 }%
3819 }
3820 \newcommand{\indexFormat}{\large\bfseries}
3821 \newcommand{\xepersian@indexFrameTitle}[1]
3822 {\begin{flushright}{\indexFormat #1}\end{flushright}}
3823
3824 \newcommand{\indexEntryFormat}{\normalsize}
3825 \newcommand{\xepersian@indexEntry}[1]{\begin{minipage}{13\TPHorizModule}%
3826 {\indexEntryFormat\noindent\ignorespaces{#1}}%
3827 \end{minipage}}
3828 \newcommand{\indexEntrySeparator}{\rule{\xepersian@indexwidth}{.1pt}}
3829 \newcommand{\indexEntryPageTxt}{
3830 \newcommand{\indexEntryPageFormat}{\footnotesize}
3831 \newcommand{\xepersian@indexEntryPage}[1]{%
3832 {\indexEntryPageFormat{\indexEntryPageTxt{#1}}}%
3833 }
3834 \newcommand{\headDateTimeFormat}{
3835 \newcommand{\xepersian@headDateTime}{%
3836 \headDateTimeFormat\date\hspace{5pt}$\parallel$\hspace{5pt}%
3837 \currenttime %
3838 }
3839 \newcommand{\weatherFormat}{\bfseries}
3840 \newcommand{\xepersian@weather}[1]{%
3841 \noindent{\weatherFormat #1}%
3842 }
3843 \newcommand{\weatherTempFormat}{\small}
3844 \newcommand{\weatherUnits}{\textdegree{C}}
3845 \newcommand{\xepersian@section}[0]{
3846 \newcommand{\xepersian@headleft}{%
3847 {\small\bfseries \@custommagazinename} \date
3848 }
3849 \newcommand{\xepersian@headcenter}{%
3850 \xepersian@section{
3851 }
3852 \newcommand{\xepersian@headright}{%
3853 \small\xepersian@edition%
3854 \hspace*{5pt}\beginL\thepage\ / \pageref{LastPage}\endL
3855 }
3856
3857 \newcommand{\heading}[3]{%
3858 \renewcommand{\xepersian@headleft}{\beginR#1\endR}%
3859 \renewcommand{\xepersian@headcenter}{\beginR#2\endR}%
3860 \renewcommand{\xepersian@headright}{\beginR#3\endR}%

```





```

3861 }
3862 \newcommand{\xepersian@footright}{%
3863 {\footnotesize\lr{\copyright\ \@customwwwTxt{}}-- - \lr{\XePersian}}%
3864 }
3865 \newcommand{\xepersian@footcenter}{%
3866 }
3867 \newcommand{\xepersian@footleft}{%
3868 }
3869
3870 \newcommand{\foot}[3]{%
3871 \renewcommand{\xepersian@footleft}{\beginR#1\endR}%
3872 \renewcommand{\xepersian@footcenter}{\beginR#2\endR}%
3873 \renewcommand{\xepersian@footright}{\beginR#3\endR}%
3874 }
3875 \newcommand{\firstTitleFormat}{\Huge\bfseries\flushright}
3876 \newcommand{\xepersian@firstTitle}[1]{%
3877 {%
3878 \begin{spacing}{2.0}{%
3879 \noindent\ignorespaces
3880 \ifthenelse{boolean{xepersian@hyphenatedtitles}}%
3881 {\nohyphens{\firstTitleFormat #1}}%
3882 {\firstTitleFormat #1}}%
3883 }%
3884 \end{spacing}%
3885 }%
3886 }
3887 \newcommand{\firstTextFormat}{%
3888 \newcommand{\xepersian@firstText}[1]{%
3889 {\noindent\ignorespaces\firstTextFormat #1}}%
3890 }
3891 \newcommand{\secondTitleFormat}{\LARGE\bfseries}
3892 \newcommand{\xepersian@secondTitle}[1]{%
3893 \begin{spacing}{1.5}{%
3894 \noindent\ignorespaces\flushright
3895 \ifthenelse{boolean{xepersian@hyphenatedtitles}}%
3896 {\nohyphens{\secondTitleFormat #1}}%
3897 {\secondTitleFormat #1}}%
3898 \end{spacing}%
3899 }
3900 \newcommand{\secondSubtitleFormat}{\large}
3901 \newcommand{\xepersian@secondSubtitle}[1]{%
3902 {\noindent\ignorespaces\secondSubtitleFormat #1}}%
3903 }
3904 \newcommand{\secondTextFormat}{%
3905 \newcommand{\xepersian@secondText}[1]{%
3906 \begin{multicols}{2}
3907 {\noindent\ignorespaces\secondTextFormat #1}
3908 \end{multicols}
3909 }
3910 \newcommand{\thirdTitleFormat}{\Large\bfseries}

```



```

3911 \newcommand{\xepersian@thirdTitle}[1]{%
3912 \begin{spacing}{1.5}{%
3913 \noindent\ignorespaces\flushright
3914 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
3915 {\nohyphens{\thirdTitleFormat #1}}%
3916 {\thirdTitleFormat #1}}%
3917 }\end{spacing}%
3918 }
3919 \newcommand{\thirdSubtitleFormat}{\large}
3920 \newcommand{\xepersian@thirdSubtitle}[1]{%
3921 {\noindent\ignorespaces\thirdSubtitleFormat #1}}
3922 \newcommand{\thirdTextFormat}{}
3923 \newcommand{\xepersian@thirdText}[1]{\thirdTextFormat #1}}
3924 \newcommand{\pictureCaptionFormat}{\small\bfseries}
3925 \newcommand{\xepersian@pictureCaption}[1]{%
3926 {\noindent\pictureCaptionFormat #1}}%
3927 }
3928 \newcommand{\pagesFormat}{\bfseries\footnotesize}
3929 \newcommand{\xepersian@pages}[1]{%
3930 {\noindent{\pagesFormat\MakeUppercase{#1}}}
3931 \newcommand{\innerTitleFormat}{\Huge}
3932 \newcommand{\xepersian@innerTitle}[1]{%
3933 \begin{flushright}{%
3934 \noindent
3935 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
3936 {\nohyphens{\innerTitleFormat #1}}%
3937 {\innerTitleFormat #1}}%
3938 }%
3939 \\\%
3940 \end{flushright}}%
3941 }
3942 \newcommand{\innerSubtitleFormat}{\large}
3943 \newcommand{\xepersian@innerSubtitle}[1]{\innerSubtitleFormat #1}}
3944 \newcommand{\timestampTxt}{}
3945 \newcommand{\timestampSeparator}{|}
3946 \newcommand{\timestampFormat}{\small}
3947 \newcommand{\timestamp}[1]{%
3948 {\timestampFormat%
3949 #1~\timestampTxt}%
3950 }~\timestampSeparator}%
3951 }
3952 \newcommand{\innerAuthorFormat}{\footnotesize}
3953 \newcommand{\innerPlaceFormat}{\footnotesize\bfseries}
3954 \newcommand{\innerTextFinalMark}{\rule{0.65em}{0.65em}}
3955 \newcommand{\editorialTitleFormat}{\LARGE\textit}
3956 \newcommand{\xepersian@editorialTitle}[1]{\editorialTitleFormat{#1}}
3957 \newcommand{\editorialAuthorFormat}{\textsc}
3958 \newcommand{\shortarticleTitleFormat}{\LARGE\bfseries}
3959 \newcommand{\xepersian@shortarticleTitle}[1]{\shortarticleTitleFormat #1}}
3960 \newcommand{\shortarticleSubtitleFormat}{\Large}

```



```

3961 \newcommand{\xepersian@shortarticleSubtitle}[1]{\shortarticleSubtitleFormat #1}}
3962 \newcommand{\shortarticleItemTitleFormat}{\large\bfseries}
3963 \newcommand{\xepersian@shortarticleItemTitle}[1]{\shortarticleItemTitleFormat #1}}
3964 \renewcommand{\maketitle}{\begin{titlepage}%
3965   \let\footnotesize\small
3966   \let\footnoterule\relax
3967   \let \footnote \thanks
3968   \null\vfil
3969   \vskip 60\p@
3970   \begin{center}%
3971     {\LARGE \@title \par}%
3972     \vskip 1em%
3973     {\LARGE «\xepersian@edition» \par}%
3974     \vskip 3em%
3975     {\large
3976       \lineskip .75em%
3977       \begin{tabular}[t]{c}%
3978         \@author
3979       \end{tabular}\par}%
3980       \vskip 1.5em%
3981       {\large \@date \par}%
3982   \end{center}\par
3983   \@thanks
3984   \vfil\null
3985 \end{titlepage}%
3986 \setcounter{footnote}{0}%
3987 \global\let\thanks\relax
3988 \global\let\maketitle\relax
3989 \global\let\@thanks\@empty
3990 \global\let\@author\@empty
3991 \global\let\@date\@empty
3992 \global\let\@title\@empty
3993 \global\let\title\relax
3994 \global\let\author\relax
3995 \global\let\date\relax
3996 \global\let\and\relax
3997 }
3998 \newcommand{\xepersian@say}[1]{\typeout{#1}}
3999 \newsavebox{\xepersian@fmbox}
4000 \newenvironment{xepersian@fmpage}[1]
4001   {\begin{lrbox}{\xepersian@fmbox}\begin{minipage}{#1}}
4002   {\end{minipage}\end{lrbox}\fbox{\usebox{\xepersian@fmbox}}}
4003 \newcommand{\image}[2]{
4004   \vspace{5pt}
4005   \setlength{\fboxsep}{1pt}
4006   \addtolength{\xepersian@imgsize}{\columnwidth}
4007   \addtolength{\xepersian@imgsize}{-1\columnsep}
4008   \ifxetex
4009     \setlength{\xepersian@pageneed}{1.5\xepersian@imgsize}
4010     \addtolength{\xepersian@pageneed}{50pt}

```



```

4011 \ClassWarning{xepersian-magazine}{%
4012 Image #1 needs: \the\xepersian@pageneed \space %
4013 and there is left: \the\page@free\space%
4014 }
4015 \ifdim \xepersian@pageneed < \page@free
4016
4017 {\centering\fbbox{%
4018 \includegraphics[width = \xepersian@imgsize,
4019 height = \xepersian@imgsize,
4020 keepaspectratio ]{#1}}
4021 \xepersian@pictureCaption{#2}
4022
4023 \vspace{5pt}
4024 \else
4025 \ClassWarning{Image #1 needs more space!%
4026 It was not inserted!}
4027 \fi
4028 \fi
4029 }
4030 \textblockorigin{1cm}{1cm}
4031 \newdimen\xepersian@dx
4032 \newdimen\xepersian@dy
4033 \newcount\xepersian@cx
4034 \newcount\xepersian@cy
4035 \newcommand{\grid}[3][]{
4036 \xepersian@dx=\textwidth%
4037 \xepersian@dy=\textheight%
4038 \xepersian@cx=#3% %columns
4039 \xepersian@cy=#2% %rows
4040
4041 \count1=#3%
4042 \advance\count1 by 1
4043
4044 \count2=#2%
4045 \advance\count2 by 1
4046
4047 \divide\xepersian@dx by #3
4048 \divide\xepersian@dy by #2
4049
4050 \setlength{\TPHorizModule}{\xepersian@dx}
4051 \setlength{\TPVertModule}{\xepersian@dy}
4052
4053 \ifthenelse{\equal{#1}{show}}{
4054 \multido{\xepersian@nrow=0+1}{\count2}{
4055 \begin{textblock}{\xepersian@cx}(0,\xepersian@nrow)
4056 \rule[0pt]{\textwidth}{.1pt}
4057 \end{textblock}
4058 }
4059
4060 \multido{\xepersian@ncol=0+1}{\count1}{

```



```

4061 \begin{textblock}{\xepersian@cy}(\xepersian@ncol,0)
4062 \rule[0pt]{.1pt}{\textheight}
4063 \end{textblock}
4064 }
4065 }{}
4066 }
4067 \newcommand{\xepersianInit}{
4068 \setlength{\headheight}{14pt}
4069 \renewcommand{\headrulewidth}{0.4pt}
4070
4071 \pagestyle{fancy}
4072
4073 \setlength{\columnseprule}{\columnlines}
4074 \setlength{\fboxrule}{0.1 pt}
4075
4076 }
4077
4078 \def\customlogo#1{\gdef\@customlogo{\beginR#1\endR}}
4079 \def\customminilogo#1{\gdef\@customminilogo{\beginR#1\endR}}
4080 \def\custommagazinenamename#1{\gdef\@custommagazinenamename{\beginR#1\endR}}
4081 \newcommand{\logo}[0]{
4082 %% Heading %%
4083 \noindent\hrulefill\hspace{10pt}\xepersian@editionLogo\hspace{5pt}\xepersian@www
4084
4085 \vspace*{-3pt}
4086
4087 {\Large\bfseries \@customlogo}
4088 \hrulefill
4089 \hspace{10pt}\xepersian@headDateTime
4090
4091 }
4092 \newcommand{\minilogo}[0]{
4093 {\large\bfseries \@customminilogo}
4094
4095 \vspace*{5pt}
4096 }
4097 \newcommand{\mylogo}[1]{
4098 {\beginR#1\endR}
4099
4100 \noindent
4101 \xepersian@editionLogo\hspace{5pt}
4102 \hrulefill
4103 \hspace{5pt}\xepersian@headDateTime
4104 }
4105 \newcommand{\edition}[1]{\renewcommand{\xepersian@edition}{#1}}
4106 \newenvironment{frontpage}[0]
4107 {
4108 \setboolean{xepersian@insidefrontpage}{true}
4109 \thispagestyle{empty}
4110 \logo

```



```

4111
4112 }%
4113 {
4114 \thispagestyle{empty}
4115 \clearpage
4116 \newpage
4117 \fancyhead{}
4118 \fancyfoot{}
4119 \fancyhead[RO,LE]{\beginR\xepersian@headright\endR}
4120 \fancyhead[LO,RE]{\beginR\xepersian@headleft\endR}
4121 \fancyhead[C]{\beginR\xepersian@headcenter\endR}
4122 \fancyfoot[RO,LE]{\beginR\xepersian@footright\endR}
4123 \fancyfoot[LO,RE]{\beginR\xepersian@footleft\endR}
4124 \fancyfoot[C]{\beginR\xepersian@footcenter\endR}
4125 \renewcommand{\headrulewidth}{0.4pt}
4126 \setboolean{xepersian@insidefrontpage}{false}
4127
4128 }
4129 \newcommand{\firstarticle}[3]
4130 {
4131 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4132 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
4133 \begin{textblock}{24}(22,5)
4134 }
4135 {
4136 \begin{textblock}{28}(22,5)
4137 }
4138 \vspace{-7pt}
4139 \xepersian@firstTitle{#1}
4140 \end{textblock}
4141 \begin{textblock}{29}(22,10)
4142 \vspace{5pt plus 2pt minus 2pt}
4143
4144 \xepersian@firstText{\timestamp{#3}~#2}
4145
4146 \end{textblock}
4147
4148 \begin{textblock}{50}(0,15)
4149 \rule{50\TPHorizModule}{.3pt}
4150 \end{textblock}
4151 }{%else
4152 \ClassError{xepersian-magazine}{%
4153 \protect\firstarticle\space in a wrong place.\MessageBreak
4154 \protect\firstarticle\space may only appear inside frontpage environment.
4155 }{%
4156 \protect\firstarticle\space may only appear inside frontpage environment.
4157 }%
4158 }
4159 }
4160 \newcommand{\secondarticle}[5]

```



```

4161 {
4162 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4163 \begin{textblock}{33}(2,16)
4164 \xepersian@pages{#4}
4165 \vspace{-5pt}
4166 \xepersian@secondTitle{#1}
4167
4168 \vspace*{5pt}
4169
4170 \xepersian@secondSubtitle{#2}
4171
4172 \vspace*{-7pt}
4173
4174 \xepersian@secondText{\timestamp{#5}~#3}
4175
4176 \end{textblock}
4177
4178 \begin{textblock}{33}(2,25)
4179 \vspace{5pt plus 2pt minus 2pt}
4180
4181 \noindent\ignorespaces\rule{33\TPHorizModule}{.3pt}
4182 \end{textblock}
4183 }{%else
4184 \ClassError{xepersian-magazine}{%
4185 \protect\secondarticle\space in a wrong place.\MessageBreak
4186 \protect\secondarticle\space may only appear inside frontpage environment.
4187 }{%
4188 \protect\secondarticle\space may only appear inside frontpage environment.
4189 }%
4190 }
4191 }
4192 \newcommand{\thirdarticle}[6]
4193 {
4194 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4195 \begin{textblock}{32}(2,26)
4196 \xepersian@pages{#5}
4197 \vspace{-5pt}
4198 \setlength{\fboxsep}{1pt}
4199 \xepersian@thirdTitle{#1}
4200
4201 \vspace*{5pt}
4202
4203 \xepersian@thirdSubtitle{#2}
4204
4205 \vspace*{5pt}
4206
4207 {\noindent\ignorespaces %
4208 \ifthenelse{\equal{#4}{}}{}{}
4209
4210 \xepersian@thirdText{\timestamp{#6}~#3}

```



```

4211
4212 }
4213
4214 \vspace*{5pt}
4215
4216 \end{textblock}
4217 }{%else
4218 \ClassError{xepersian-magazine}{%
4219 \protect\thirdarticle\space in a wrong place.\MessageBreak
4220 \protect\thirdarticle\space may only appear inside frontpage environment.
4221 }{%
4222 \protect\thirdarticle\space may only appear inside frontpage environment.
4223 }%
4224 }
4225 }
4226 \newcommand{\firstimage}[2]
4227 {
4228 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4229 \begin{textblock}{18}(2,5)
4230 \setlength{\fboxsep}{1pt}
4231 \ifxetex % only in PDF
4232 \noindent\fbox{\includegraphics[width = 18\TPHorizModule ]{#1}}
4233 \fi
4234
4235 \xepersian@pictureCaption{#2}
4236 \end{textblock}%
4237 }
4238 {\ClassError{xepersian-magazine}{%
4239 \protect\firstimage\space in a wrong place.\MessageBreak
4240 \protect\firstimage\space may only appear inside frontpage environment.
4241 }{%
4242 \protect\firstimage\space may only appear inside frontpage environment.
4243 }}
4244 }%
4245 \newcommand{\weatheritem}[5]{%
4246 \ifthenelse{\boolean{xepersian@insideweather}}{
4247 \begin{minipage}{45pt}
4248 \ifxetex
4249 \includegraphics[width=40pt]{#1}
4250 \fi
4251 \end{minipage}
4252 \begin{minipage}{50pt}
4253 \weatherTempFormat
4254 #2\\
4255 \beginL#3 $| $ #4 \lr{\weatherUnits{}}\endL\\
4256 #5
4257 \end{minipage}
4258 }{%else
4259 \ClassError{xepersian-magazine}{%
4260 \protect\weatheritem\space in a wrong place.\MessageBreak

```





```

4261 \protect\weatheritem\space may only appear inside weatherblock environment.
4262 }{%
4263 \protect\weatheritem\space may only appear inside weatherblock environment.\MessageBreak
4264 weatherblock environment may only appear inside frontpage environment.
4265 }%
4266 }
4267 }
4268 \newenvironment{weatherblock}[1]
4269 {
4270 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4271 \setboolean{xepersian@insideweather}{true}
4272 \begin{textblock}{32}(2,38)
4273 \vspace*{-15pt}
4274
4275 \xepersian@weather{\beginR#1\endR}
4276
4277 \vspace*{5pt}
4278
4279 \noindent\begin{xepersian@fmpage}{32\TPHorizModule}
4280 \begin{minipage}{32\TPHorizModule}
4281 \hspace{5pt}
4282
4283 }{%
4284 \ClassError{xepersian-magazine}{%
4285 weatherblock in a wrong place.\MessageBreak
4286 weatherblock may only appear inside frontpage environment.
4287 }{%
4288 weatherblock may only appear inside frontpage environment.
4289 }
4290 }
4291 }%
4292 {
4293 \end{minipage}
4294 \end{xepersian@fmpage}
4295 \end{textblock}
4296 \setboolean{xepersian@insideweather}{false}
4297 }
4298 \newenvironment{authorblock}[0]
4299 {
4300 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4301 \begin{textblock}{15}(36,35)
4302 \setlength{\fboxsep}{5pt}
4303 \begin{xepersian@fmpage}{13\TPHorizModule}
4304 \begin{minipage}{13\TPHorizModule}
4305 \centering
4306 \minilogo
4307
4308 }{%else
4309 \ClassError{xepersian-magazine}{%
4310 authorblock in a wrong place.\MessageBreak

```



```

4311 authorblock may only appear inside frontpage environment.
4312 }{%
4313 authorblock may only appear inside frontpage environment.
4314 }
4315 }
4316 }
4317 {
4318 \end{minipage}
4319 \end{xepersian@fmpage}
4320 \end{textblock}
4321 }
4322 \newenvironment{indexblock}[1]
4323 {
4324 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4325 \setboolean{xepersian@insideindex}{true}%let's in
4326 \begin{textblock}{15}(36,16)
4327 \setlength{\xepersian@indexwidth}{13\TPHorizModule}
4328 \xepersian@indexFrameTitle{#1}
4329
4330 \setlength{\fboxsep}{5pt} %espacio entre el frame y la imagen
4331 \begin{xepersian@fmpage}{\xepersian@indexwidth}
4332 \begin{minipage}{\xepersian@indexwidth}
4333 \vspace*{10pt}
4334 }{%else
4335 \ClassError{xepersian-magazine}{%
4336 indexblock in a wrong place.\MessageBreak
4337 indexblock may only appear inside frontpage environment.
4338 }{%
4339 indexblock may only appear inside frontpage environment.
4340 }
4341 }
4342 }%
4343 {
4344 \end{minipage}
4345 \end{xepersian@fmpage}
4346 \end{textblock}
4347 \setboolean{xepersian@insideindex}{false}%let's out
4348 }
4349 \newcommand{\indexitem}[2]
4350 {
4351 \ifthenelse{\boolean{xepersian@insideindex}}{
4352 \xepersian@indexEntry{#1 \xepersian@indexEntryPage{\pageref{#2}}}
4353
4354 \vspace{0.5cm}
4355
4356 \noindent\ignorespaces\indexEntrySeparator{
4357 }{%else
4358 \ClassError{xepersian-magazine}{%
4359 \protect\indexitem\space in a wrong place.\MessageBreak
4360 \protect\indexitem\space may only appear inside indexblock environment.

```



```

4361 }{%
4362 \protect\indexitem\space may only appear inside indexblock environment.\MessageBreak
4363 indexblock environment may only appear inside frontpage environment.
4364 }%
4365 }
4366 }
4367 \newcommand{\xepersian@inexpandedtitle}[1]{
4368 \begin{minipage}{.95\textwidth}
4369 \begin{center}
4370 \noindent\Large\textbf{\beginR#1\endR}
4371 \end{center}
4372 \end{minipage}
4373 }
4374 \newcommand{\expandedtitle}[2]{
4375 \end{multicols}
4376
4377 \begin{center}
4378 \setlength{\fboxsep}{5pt}
4379 \setlength{\shadowsize}{2pt}
4380 \ifthenelse{\equal{#1}{shadowbox}}{%
4381 \shadowbox{%
4382 \xepersian@inexpandedtitle{#2}%
4383 }%
4384 }{}
4385 \ifthenelse{\equal{#1}{doublebox}}{%
4386 \doublebox{%
4387 \xepersian@inexpandedtitle{#2}%
4388 }%
4389 }{}
4390 \ifthenelse{\equal{#1}{ovalbox}}{%
4391 \ovalbox{%
4392 \xepersian@inexpandedtitle{#2}%
4393 }%
4394 }{}
4395 \ifthenelse{\equal{#1}{ovalbox}}{%
4396 \ovalbox{%
4397 \xepersian@inexpandedtitle{#2}%
4398 }%
4399 }{}
4400 \ifthenelse{\equal{#1}{lines}}{
4401 \hrule
4402 \vspace*{8pt}
4403 \begin{center}
4404 \noindent\Large\textbf{#2}
4405 \end{center}
4406 \vspace*{8pt}
4407 \hrule
4408 }{}
4409 \end{center}
4410

```



```

4411 \begin{multicols}{\xepersian@ncolumns{}}
4412 \ifnum \xepersian@ncolumns > \minraggedcols
4413 \raggedFormat
4414 \fi
4415 }
4416 \newcommand{\xepersian@incolumntitle}[2]{
4417 \begin{minipage}{#1}
4418 \begin{center}
4419 \noindent\normalsize\textbf{#2}
4420 \end{center}
4421 \end{minipage}
4422 }
4423
4424 \newcommand{\columnntitle}[2]{
4425 \vspace*{5pt}
4426 \begin{center}
4427 \setlength{\fboxsep}{5pt}
4428 \setlength{\shadowsize}{2pt}
4429 \addtolength{\xepersian@coltitsize}{\columnwidth}
4430 \addtolength{\xepersian@coltitsize}{-1\columnsep}
4431 \addtolength{\xepersian@coltitsize}{-5pt}
4432 \addtolength{\xepersian@coltitsize}{-1\shadowsize}
4433 \ifthenelse{\equal{#1}{shadowbox}}{%
4434 \shadowbox{%
4435 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
4436 }%
4437 }{}
4438 \ifthenelse{\equal{#1}{doublebox}}{%
4439 \doublebox{%
4440 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
4441 }%
4442 }{}
4443 \ifthenelse{\equal{#1}{ovalbox}}{%
4444 \ovalbox{%
4445 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
4446 }%
4447 }{}
4448 \ifthenelse{\equal{#1}{ovalbox}}{%
4449 \ovalbox{%
4450 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
4451 }%
4452 }{}
4453 \ifthenelse{\equal{#1}{lines}}{
4454 \hrule
4455 \vspace*{5pt}
4456 \begin{center}
4457 \noindent\normalsize\textbf{#2}
4458 \end{center}
4459 \vspace*{5pt}
4460 \hrule

```



```

4461 }{}
4462 \end{center}
4463 }
4464 \renewcommand{\date}{%
4465 \longdate{\today}%
4466 }
4467 \newcommand{\authorandplace}[2]{%
4468 \rightline{%
4469 {\innerAuthorFormat #1},\space{\innerPlaceFormat #2}%
4470 }%
4471 \par %
4472 }
4473 \newcommand{\newsection}[1]{
4474 \renewcommand{\xepersian@section}{#1}
4475 }
4476 \newenvironment{article}[5]
4477 {
4478 \xepersian@say{Adding a new piece of article}
4479 \renewcommand{\xepersian@ncolumns}{#1}
4480 \begin{multicols}{#1}[
4481 \xepersian@pages{#4}
4482 \xepersian@innerTitle{#2}%
4483 \xepersian@innerSubtitle{#3}%
4484 ] [4cm]%
4485 \label{#5}
4486 \ifnum #1 > \minraggedcols
4487 \raggedFormat
4488 \fi
4489 }
4490 {\sim\innerTextFinalMark{}
4491 \end{multicols}
4492 }
4493 \newcommand{\articlesep}{%
4494 \setlength{\xepersian@pageneed}{16000pt}
4495 \setlength{\xepersian@pageleft}{\pagegoal}
4496 \addtolength{\xepersian@pageleft}{-\pagetotal}
4497
4498 \xepersian@say{How much left \the\xepersian@pageleft}
4499
4500 \ifdim \xepersian@pageneed < \xepersian@pageleft
4501 \xepersian@say{Not enough space}
4502 \else
4503 \xepersian@say{Adding sep line between articles}
4504 \vspace*{10pt plus 10pt minus 5pt}
4505 \hrule
4506 \vspace*{10pt plus 5pt minus 5pt}
4507 \fi
4508
4509 }
4510 \newcommand{\xepersian@editorialTit}[2]{

```



```

4511 \setlength{\arrayrulewidth}{.1pt}
4512 \begin{center}
4513 \begin{tabular}{c}
4514 \noindent
4515 \xepersian@editorialTitle{#1}
4516 \vspace{2pt plus 1pt minus 1pt}
4517 \\
4518 \hline
4519 \vspace{2pt plus 1pt minus 1pt}
4520 \\
4521 \editorialAuthorFormat{#2}
4522 \end{tabular}
4523 \end{center}
4524 }
4525 \newenvironment{editorial}[4]
4526 {
4527 \xepersian@say{Adding a new editorial}
4528 \begin{multicols}{#1}[%
4529 \xepersian@editorialTit{#2}{#3}%
4530 ] [4cm]
4531 \label{#4}
4532 \ifnum #1 > \minraggedcols
4533 \raggedFormat
4534 \fi
4535 }
4536 {
4537 \end{multicols}
4538 }
4539 \newcommand{\xepersian@shortarticleTit}[2]{
4540 \begin{center}
4541 \vbox{%
4542 \noindent
4543 \xepersian@shortarticleTitle{#1}
4544 \vspace{4pt plus 2pt minus 2pt}
4545 \hrule
4546 \vspace{4pt plus 2pt minus 2pt}
4547 \xepersian@shortarticleSubtitle{#2}
4548 }
4549 \end{center}
4550 }
4551 \newenvironment{shortarticle}[4]
4552 {
4553 \xepersian@say{Adding a short article block}
4554 \begin{multicols}{#1}[\xepersian@shortarticleTit{#2}{#3}] [4cm] %
4555 \label{#4}
4556 \par %
4557 \ifnum #1 > \minraggedcols
4558 \raggedFormat
4559 \fi
4560 }

```



```

4561 {
4562 \end{multicols}
4563 }
4564 \newcommand{\shortarticleitem}[2]{
4565 \goodbreak
4566 \vspace{5pt plus 3pt minus 3pt}
4567 {\vbox{\noindent\expersian@shortarticleItemTitle{#1}}}}
4568 \vspace{5pt plus 3pt minus 3pt}
4569 {\noindent #2}\\
4570 }

```

## 7.57 xepersian-mathsdigitspec.sty

```

4571 \NeedsTeXFormat{LaTeX2e}
4572 \ProvidesPackage{xepersian-mathsdigitspec}
4573 [2016/05/03 v1.1.2 Unicode Persian maths digits in XeLaTeX]
4574 \def\new@mathgroup{\alloc@8\mathgroup\chardef\@cclvi}
4575 \let\newfam\new@mathgroup
4576 \def\select@group#1#2#3#4{%
4577 \ifx\math@bgroup\bggroup\else\relax\expandafter\@firstofone\fi
4578 {%
4579 \ifmmode
4580 \ifnum\csname c@mv@\math@version\endcsname<\@cclvi
4581 \begingroup
4582 \escapechar\m@ne
4583 \getanddefine@fonts{\csname c@mv@\math@version\endcsname}#3%
4584 \globaldefs\@ne \math@fonts
4585 \endgroup
4586 \init@restore@version
4587 \xdef#1{\noexpand\use@mathgroup\noexpand#2%
4588 {\number\csname c@mv@\math@version\endcsname}}}%
4589 \global\advance\csname c@mv@\math@version\endcsname\@ne
4590 \else
4591 \let#1\relax
4592 \@latex@error{Too many math alphabets used in
4593 version \math@version}%
4594 \@eha
4595 \fi
4596 \else \expandafter\non@alpherr\fi
4597 #1{#4}%
4598 }%
4599 }
4600 \def\document@select@group#1#2#3#4{%
4601 \ifx\math@bgroup\bggroup\else\relax\expandafter\@firstofone\fi
4602 {%
4603 \ifmmode
4604 \ifnum\csname c@mv@\math@version\endcsname<\@cclvi
4605 \begingroup
4606 \escapechar\m@ne
4607 \getanddefine@fonts{\csname c@mv@\math@version\endcsname}#3%

```



```

4608 \globaldefs\@ne \math@fonts
4609 \endgroup
4610 \expandafter\extract@alph@from@version
4611 \csname mv@\math@version\expandafter\endcsname
4612 \expandafter{\number\csname
4613 c@mv@\math@version\endcsname}%
4614 #1%
4615 \global\advance\csname c@mv@\math@version\endcsname\@ne
4616 \else
4617 \let#1\relax
4618 \@latex@error{Too many math alphabets used
4619 in version \math@version}%
4620 \@eha
4621 \fi
4622 \else \expandafter\non@alpherr\fi
4623 #1{#4}%
4624 }%
4625 }
4626 \ExplSyntaxOn
4627 \bool_set_false:N \g__fontspec_math_bool
4628 \tl_map_inline:nn
4629 {
4630 \new@mathgroup\cdp@list\cdp@elt\DeclareMathSizes
4631 \@DeclareMathSizes\newmathalphabet\newmathalphabet@@\newmathalphabet@@@
4632 \DeclareMathVersion\define@mathalphabet\define@mathgroup\addtoversion
4633 \version@list\version@elt\alpha@list\alpha@elt
4634 \restore@mathversion\init@restore@version\dorestore@version\process@table
4635 \new@mathversion\DeclareSymbolFont\group@list\group@elt
4636 \new@symbolfont\SetSymbolFont\SetSymbolFont@get@cdp
4637 \DeclareMathAlphabet\new@mathalphabet\SetMathAlphabet\SetMathAlphabet@
4638 \DeclareMathAccent\set@mathaccent\DeclareMathSymbol\set@mathchar
4639 \set@mathsymbol\DeclareMathDelimiter\@xxDeclareMathDelimiter
4640 \@DeclareMathDelimiter\@xDeclareMathDelimiter\set@mathdelimiter
4641 \set@@mathdelimiter\DeclareMathRadical\mathchar@type
4642 \DeclareSymbolFontAlphabet\DeclareSymbolFontAlphabet@
4643 }
4644 {
4645 \tl_remove_once:Nn \@preamblecmds {\do#1}
4646 }
4647 \ExplSyntaxOff
4648 \newcommand\xepersian@PackageInfo[1]{\PackageInfo{xepersian-mathsdigitsspec}{#1}}
4649 \newcommand\SetMathCode[4]{%
4650 \Umathcode#1="\mathchar@type#2 \csname sym#3\endcsname #4\relax}
4651 \newcommand\SetMathCharDef[4]{%
4652 \Umathchardef#1="\mathchar@type#2 \csname sym#3\endcsname #4\relax}
4653 \ExplSyntaxOn
4654 \cs_new_eq:NN \orig_mathbf:n \mathbf
4655 \cs_new_eq:NN \orig_mathit:n \mathit
4656 \cs_new_eq:NN \orig_mathrm:n \mathrm
4657 \cs_new_eq:NN \orig_mathsf:n \mathsf

```





```

4658 \cs_new_eq:NN \orig_mathtt:n \mathtt
4659 \NewDocumentCommand \new@mathbf { m } {
4660   \orig_mathbf:n {
4661     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4662       \mathcode ##1 = \numexpr "100 * \symnew@mathbf@font@digits + ##1 \relax
4663     }
4664     #1
4665   }
4666 }
4667 \NewDocumentCommand \new@mathit { m } {
4668   \orig_mathit:n {
4669     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4670       \mathcode ##1 = \numexpr "100 * \symnew@mathit@font@digits + ##1 \relax
4671     }
4672     #1
4673   }
4674 }
4675 \NewDocumentCommand \new@mathrm { m } {
4676   \orig_mathrm:n {
4677     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4678       \mathcode ##1 = \numexpr "100 * \symnew@mathrm@font@digits + ##1 \relax
4679     }
4680     #1
4681   }
4682 }
4683 \NewDocumentCommand \new@mathsf { m } {
4684   \orig_mathsf:n {
4685     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4686       \mathcode ##1 = \numexpr "100 * \symnew@mathsf@font@digits + ##1 \relax
4687     }
4688     #1
4689   }
4690 }
4691 \NewDocumentCommand \new@mathtt { m } {
4692   \orig_mathtt:n {
4693     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4694       \mathcode ##1 = \numexpr "100 * \symnew@mathtt@font@digits + ##1 \relax
4695     }
4696     #1
4697   }
4698 }
4699 \DeclareDocumentCommand \setdigitfont { o m } {%
4700   \let\glb@currsize\relax
4701   \__fontspec_pass_args:nnn \__xepersian_setdigitfont:nn {#1} {#2} }
4702
4703 \cs_new:Nn \__xepersian_setdigitfont:nn
4704 {
4705   \fontspec_set_family:Nnn \xepersian@digits@family {Mapping=parsidigits,#1} {#2}
4706   \xepersian@PackageInfo{Defining the default Persian maths digits font as '#2'}
4707   \DeclareSymbolFont{OPERATORS} {\g_fontspec_encoding_tl}{\xepersian@digits@family} {m}{n}

```



```

4708 \DeclareSymbolFont{new@mathbf@font@digits}{\g_fontspec_encoding_tl}{\xepersian@digits@family}
4709 \DeclareSymbolFont{new@mathit@font@digits}{\g_fontspec_encoding_tl}{\xepersian@digits@family}
4710 \DeclareSymbolFont{new@mathrm@font@digits}{\g_fontspec_encoding_tl}{\xepersian@digits@family}
4711 \def\xpersianmathsfdigits{%
4712 \SetMathCode{`0}{\mathalpha}{OPERATORS}{`0}
4713 \SetMathCode{`1}{\mathalpha}{OPERATORS}{`1}
4714 \SetMathCode{`2}{\mathalpha}{OPERATORS}{`2}
4715 \SetMathCode{`3}{\mathalpha}{OPERATORS}{`3}
4716 \SetMathCode{`4}{\mathalpha}{OPERATORS}{`4}
4717 \SetMathCode{`5}{\mathalpha}{OPERATORS}{`5}
4718 \SetMathCode{`6}{\mathalpha}{OPERATORS}{`6}
4719 \SetMathCode{`7}{\mathalpha}{OPERATORS}{`7}
4720 \SetMathCode{`8}{\mathalpha}{OPERATORS}{`8}
4721 \SetMathCode{`9}{\mathalpha}{OPERATORS}{`9}
4722 \SetMathCode{`\%}{\mathbin}{OPERATORS}{` }
4723 \SetMathCharDef\decimalseparator{\mathord}{OPERATORS}{"066B}
4724 \cs_set_eq:NN \mathbf \new@mathbf
4725 \cs_set_eq:NN \mathit \new@mathit
4726 \cs_set_eq:NN \mathrm \new@mathrm}
4727 }
4728 \DeclareDocumentCommand \setmathsfdigitfont { o m }
4729 { \__fontspec_pass_args:nnn \__xepersian_setmathsfdigitfont:nn {#1} {#2} }
4730
4731 \cs_new:Nn \__xepersian_setmathsfdigitfont:nn
4732 {
4733 \fontspec_set_family:Nnn \g__fontspec_mathsf_tl {Mapping=parsidigits,#1} {#2}
4734 \DeclareSymbolFont{new@mathsf@font@digits}{\g_fontspec_encoding_tl}{\g__fontspec_mathsf_tl}{m}
4735 \def\xpersianmathsfdigits{\cs_set_eq:NN \mathsf \new@mathsf}
4736 }
4737 \DeclareDocumentCommand \setmathttdigitfont { o m }
4738 { \__fontspec_pass_args:nnn \__xepersian_setmathttdigitfont:nn {#1} {#2} }
4739
4740 \cs_new:Nn \__xepersian_setmathttdigitfont:nn
4741 {
4742 \fontspec_set_family:Nnn \g__fontspec_mathtt_tl {Mapping=parsidigits,#1} {#2}
4743 \DeclareSymbolFont{new@mathtt@font@digits}{\g_fontspec_encoding_tl}{\g__fontspec_mathtt_tl}{m}
4744 \def\xpersianmathttdigits{\cs_set_eq:NN \mathtt \new@mathtt}
4745 }
4746 \ExplSyntaxOff
4747 \ifx\newcommand\undefined\else
4748 \newcommand{\ZifferAn}{}
4749 \fi
4750 \mathchardef\ziffer@DotOri="013A
4751 {\ZifferAn
4752 \catcode`\.=\active\gdef.{\begingroup\obeyspaces\futurelet\n\ziffer@dcheck}}
4753 \def\ziffer@dcheck{\ziffer@check\ZifferLeer\ziffer@DotOri}
4754 \def\ziffer@check#1#2{%
4755 \ifx\n1\endgroup#1\else
4756 \ifx\n2\endgroup#1\else

```



```

4757 \ifx\n3\endgroup#1\else
4758 \ifx\n4\endgroup#1\else
4759 \ifx\n5\endgroup#1\else
4760 \ifx\n6\endgroup#1\else
4761 \ifx\n7\endgroup#1\else
4762 \ifx\n8\endgroup#1\else
4763 \ifx\n9\endgroup#1\else
4764 \ifx\n0\endgroup#1\else
4765 \ifx\n\overline\endgroup#1\else
4766 \endgroup#2%
4767 \fi
4768 \fi
4769 \fi
4770 \fi
4771 \fi
4772 \fi
4773 \fi
4774 \fi
4775 \fi
4776 \fi
4777 \fi}
4778 \mathcode`.="8000\relax
4779 \def\ZifferLeer{\ifx\decimalseparator\undefined.\else\decimalseparator\fi}
4780 \def\DefaultMathsDigits{\def\SetMathsDigits{}}
4781 \def\PersianMathsDigits{\def\SetMathsDigits{%
4782 \ifx\persianmathsdigits\undefined\else\persianmathsdigits\fi%
4783 \ifx\persianmathsfdigits\undefined\else\persianmathsfdigits\fi%
4784 \ifx\persianmaththtdigits\undefined\else\persianmaththtdigits\fi}}
4785 \def\AutoMathsDigits{\def\SetMathsDigits{%
4786 \ifx\persianmathsdigits\undefined\else\if@nonlatin\persianmathsdigits\fi\fi%
4787 \ifx\persianmathsfdigits\undefined\else\if@nonlatin\persianmathsfdigits\fi\fi%
4788 \ifx\persianmaththtdigits\undefined\else\if@nonlatin\persianmaththtdigits\fi\fi}}
4789 \AutoMathsDigits
4790 \everymath\expandafter{\the\everymath\SetMathsDigits}
4791 \g@addto@macro\document{\everydisplay\expandafter{\the\everydisplay\SetMathsDigits}}

```

## 7.58 xepersian-multiplechoice.sty

```

4792 \NeedsTeXFormat{LaTeX2e}
4793 \ProvidesPackage{xepersian-multiplechoice}[2010/07/25 v0.2
4794 Multiple Choice Questionnaire class for Persian in XeLaTeX]
4795 \RequirePackage{pifont}
4796 \RequirePackage{fullpage}
4797 \RequirePackage{ifthen}
4798 \RequirePackage{calc}
4799 \RequirePackage{verbatim}
4800 \RequirePackage{tabularx}
4801 \def\@headerfont{\bfseries}
4802 \newcommand\headerfont[1]{\gdef\@headerfont{#1}}
4803 \def\@X{X}

```



```

4804 \newcommand\X[1]{\gdef\@X{#1}}
4805 \def\pbs#1{\let\tmp=\#1\let\=\tmp}
4806 \newcolumnntype{D}{>{\pbs\centering}X}
4807 \newcolumnntype{Q}{>{\@headerfont}X}
4808
4809 \renewcommand\tabularxcolumn[1]{m{#1}}
4810 \newcommand\makeform@nocorrection{%
4811   \addtocontents{frm}{\protect\end{tabularx}}
4812   \@starttoc{frm}}
4813 \newcommand\makeform@correction{%
4814   \addtocontents{frm}{\protect\end{tabularx}}}
4815 \newcommand\makemask@nocorrection{%
4816   \addtocontents{msk}{\protect\end{tabularx}}
4817   \@starttoc{msk}}
4818 \newcommand\makemask@correction{%
4819   \addtocontents{msk}{\protect\end{tabularx}}}
4820 \newlength\questionspace
4821 \setlength\questionspace{0pt}
4822 \newcommand\answerstitle[1]{\gdef\@answerstitle{#1}}
4823 \def\@answerstitlefont{\bfseries}
4824 \newcommand\answerstitlefont[1]{\gdef\@answerstitlefont{#1}}
4825 \def\@answernumberfont{\bfseries}
4826 \newcommand\answernumberfont[1]{\gdef\@answernumberfont{#1}}
4827 \newcounter{question}\stepcounter{question}
4828 \newcounter{choice}
4829 \def\@initorcheck{%
4830   \xdef\@choices{\the@choice}%
4831   \setcounter{choice}{1}%
4832   \gdef\@arraydesc{|Q||}%
4833   \gdef\@headerline{}}%
4834 \whiledo{\not{\value{choice}>\@choices}}{
4835   \xdef\@arraydesc{\@arraydesc D|}
4836   \def\@appendheader{\g@addto@macro\@headerline}
4837   \@appendheader{&\protect\@headerfont}
4838   \edef\@the@choice{\alph{choice}}
4839   \expandafter\@appendheader\@the@choice
4840   \stepcounter{choice}}%
4841 \addtocontents{frm}{%
4842   \protect\begin{tabularx}{\protect\linewidth}{\@arraydesc}
4843   \protect\hline
4844   \@headerline\protect\\protect\hline\protect\hline}%
4845 \addtocontents{msk}{%
4846   \protect\begin{tabularx}{\protect\linewidth}{\@arraydesc}
4847   \protect\hline
4848   \@headerline\protect\\protect\hline\protect\hline}%
4849 \gdef\@initorcheck{%
4850   \ifthenelse{\value{choice} = \@choices}{}{%
4851     \ClassError{xepersian-multiplechoice}{Question \thequestion: wrong number of choices
4852       (\the@choice\space instead of \@choices)}{
4853       Questions must all have the same number of proposed answers.%

```



```

4854         \MessageBreak
4855         Type X <return> to quit, fix your MCQ (multiple choice question) and rerun XeLaTeX.}}}}
4856 \newenvironment{question}[1]{%
4857   %% \begin{question}
4858   \begin{minipage}{\textwidth}
4859     \xdef\@formanswerline{\@questionheader}%
4860     \xdef\@maskanswerline{\@questionheader}%
4861     \fbox{\parbox[c]{\linewidth}{#1}}
4862     \vspace\questionspace\par
4863     {\@answerstitlefont\@answerstitle}
4864     \begin{list}{\@answernumberfont\alph{choice}}~{\usecounter{choice}}}{%
4865   %% \end{question}
4866     \end{list}
4867     \@initiorcheck%
4868     \addtocontents{frm}{\@formanswerline\protect\\protect\hline}%
4869     \addtocontents{msk}{\@maskanswerline\protect\\protect\hline}%
4870   \end{minipage}
4871   \stepcounter{question}}
4872 \def\@truesymbol{\ding{52}~}
4873 \def\@falsesymbol{\ding{56}~}
4874 \newcommand\truesymbol[1]{\gdef\@truesymbol{#1}}
4875 \newcommand\falsesymbol[1]{\gdef\@falsesymbol{#1}}
4876 \def\@true@nocorrection{\item}
4877 \def\@false@nocorrection{\item}
4878 \def\@true@correction{\item[\@truesymbol\refstepcounter{choice}]}
4879 \def\@false@correction{\item[\@falsesymbol\refstepcounter{choice}]}
4880 \newcommand\true{%
4881   \xdef\@formanswerline{\@formanswerline&}%
4882   \xdef\@maskanswerline{\@maskanswerline&\@X}%
4883   \@true}%
4884 \newcommand>false{%
4885   \xdef\@formanswerline{\@formanswerline&}%
4886   \xdef\@maskanswerline{\@maskanswerline&}%
4887   \@false}%
4888 \def\@correctionstyle{\itshape}
4889 \newcommand\correctionstyle[1]{\gdef\@correctionstyle{#1}}
4890 \newenvironment{correction}{\@correctionstyle}{\@correctionstyle}{}
4891 \def\@questionheader{ \thequestion}
4892 \answerstitle{ \thequestion}
4893 \DeclareOption{nocorrection}{%
4894   \let\@true\@true@nocorrection
4895   \let\@false\@false@nocorrection
4896   \let\correction\comment
4897   \let\endcorrection\endcomment
4898   \def\makeform{\makeform@nocorrection}
4899   \def\makemask{\makemask@nocorrection}}
4900 \DeclareOption{correction}{%
4901   \let\@true\@true@correction
4902   \let\@false\@false@correction
4903   \let\correction\@correction

```



```

4904 \let\endcorrection\end@correction
4905 \def\makeform{\makeform@correction}
4906 \def\makemask{\makemask@correction}}
4907 \ExecuteOptions{nocorrection}
4908 \newcommand\questiontitle[1]{\gdef\@questiontitle{#1}}
4909 \def\@questiontitlefont{\bfseries}
4910 \newcommand\questiontitlefont[1]{\gdef\@questiontitlefont{#1}}
4911 \newlength\questiontitlespace
4912 \setlength\questiontitlespace{5pt}
4913 \newlength\questionsepspace
4914 \setlength\questionsepspace{20pt}
4915 \gdef\@questionsepspace{0pt}
4916 \let\old@question\question
4917 \let\old@endquestion\endquestion
4918 \renewenvironment{question}[1]{%
4919   %% \begin{question}
4920   \vspace\@questionsepspace
4921   \fbox{\parbox[c]{0.25\linewidth}{\@questiontitlefont\@questiontitle}}
4922   \nopagebreak\vspace\questiontitlespace\par
4923   \old@question{#1}}{%
4924   %% \end{question}
4925   \old@endquestion
4926   \gdef\@questionsepspace{\questionsepspace}}
4927 \questiontitle{ \thequestion:}
4928 \ProcessOptions

```

## 7.59 xepersian-persiancal.sty

```

4929 \NeedsTeXFormat{LaTeX2e}
4930 \ProvidesPackage{xepersian-persiancal}[2012/07/25 v0.2 provides Persian calendar]
4931
4932 \newif\ifXePersian@leap \newif\ifXePersian@kabiseh
4933 \newcount\XePersian@i \newcount\XePersian@y \newcount\XePersian@m \newcount\XePersian@d
4934 \newcount\XePersian@latini \newcount\XePersian@persiani
4935 \newcount\XePersian@latinii \newcount\XePersian@persianii
4936 \newcount\XePersian@latiniii \newcount\XePersian@persianiii
4937 \newcount\XePersian@latiniv \newcount\XePersian@persianiv
4938 \newcount\XePersian@latinvi \newcount\XePersian@persianvi
4939 \newcount\XePersian@latinvi \newcount\XePersian@persianvi
4940 \newcount\XePersian@latinvii \newcount\XePersian@persianvii
4941 \newcount\XePersian@latinviii \newcount\XePersian@persianviii
4942 \newcount\XePersian@latinix \newcount\XePersian@persianix
4943 \newcount\XePersian@latinix \newcount\XePersian@persianx
4944 \newcount\XePersian@latinxi \newcount\XePersian@persianxi
4945 \newcount\XePersian@latinxii \newcount\XePersian@persianxii
4946 \newcount\XePersian@persianxiii
4947
4948 \newcount\XePersian@temp
4949 \newcount\XePersian@temptwo
4950 \newcount\XePersian@temptthree

```



```

4951 \newcount\XePersian@yModHundred
4952 \newcount\XePersian@thirtytwo
4953 \newcount\XePersian@dn
4954 \newcount\XePersian@sn
4955 \newcount\XePersian@mminusone
4956
4957
4958 \XePersian@y=\year \XePersian@m=\month \XePersian@d=\day
4959 \XePersian@temp=\XePersian@y
4960 \divide\XePersian@temp by 100\relax
4961 \multiply\XePersian@temp by 100\relax
4962 \XePersian@yModHundred=\XePersian@y
4963 \advance\XePersian@yModHundred by -\XePersian@temp\relax
4964 \ifodd\XePersian@yModHundred
4965   \XePersian@leapfalse
4966 \else
4967   \XePersian@temp=\XePersian@yModHundred
4968   \divide\XePersian@temp by 2\relax
4969   \ifodd\XePersian@temp\XePersian@leapfalse
4970   \else
4971     \ifnum\XePersian@yModHundred=0%
4972       \XePersian@temp=\XePersian@y
4973       \divide\XePersian@temp by 400\relax
4974       \multiply\XePersian@temp by 400\relax
4975       \ifnum\XePersian@y=\XePersian@temp\XePersian@leaptrue\else\XePersian@leapfalse\fi
4976       \else\XePersian@leaptrue
4977       \fi
4978   \fi
4979 \fi
4980 \XePersian@latini=31\relax
4981 \ifXePersian@leap
4982   \XePersian@latinii = 29\relax
4983 \else
4984   \XePersian@latinii = 28\relax
4985 \fi
4986 \XePersian@latiniii = 31\relax
4987 \XePersian@latiniv = 30\relax
4988 \XePersian@latinv = 31\relax
4989 \XePersian@latinvi = 30\relax
4990 \XePersian@latinvii = 31\relax
4991 \XePersian@latinviii = 31\relax
4992 \XePersian@latinix = 30\relax
4993 \XePersian@latinx = 31\relax
4994 \XePersian@latinxi = 30\relax
4995 \XePersian@latinxii = 31\relax
4996 \XePersian@thirtytwo=32\relax
4997 \XePersian@temp=\XePersian@y
4998 \advance\XePersian@temp by -17\relax
4999 \XePersian@temptwo=\XePersian@temp
5000 \divide\XePersian@temptwo by 33\relax

```



```

5001 \multiply\XePersian@temptwo by 33\relax
5002 \advance\XePersian@temp by -\XePersian@temptwo
5003 \ifnum\XePersian@temp=\XePersian@thirtytwo\XePersian@kabisehfalse
5004 \else
5005   \XePersian@temptwo=\XePersian@temp
5006   \divide\XePersian@temptwo by 4\relax
5007   \multiply\XePersian@temptwo by 4\relax
5008   \advance\XePersian@temp by -\XePersian@temptwo
5009   \ifnum\XePersian@temp=\z@\XePersian@kabisehtrue\else\XePersian@kabisehfalse\fi
5010 \fi
5011 \XePersian@tempthree=\XePersian@y % Number of Leap years
5012 \advance\XePersian@tempthree by -1
5013 \XePersian@temp=\XePersian@tempthree % T := (MY-1) div 4
5014 \divide\XePersian@temp by 4\relax
5015 \XePersian@temptwo=\XePersian@tempthree % T := T - ((MY-1) div 100)
5016 \divide\XePersian@temptwo by 100\relax
5017 \advance\XePersian@temp by -\XePersian@temptwo
5018 \XePersian@temptwo=\XePersian@tempthree % T := T + ((MY-1) div 400)
5019 \divide\XePersian@temptwo by 400\relax
5020 \advance\XePersian@temp by \XePersian@temptwo
5021 \advance\XePersian@tempthree by -611 % Number of Kabise years
5022 \XePersian@temptwo=\XePersian@tempthree % T := T - ((SY+10) div 33) * 8
5023 \divide\XePersian@temptwo by 33\relax
5024 \multiply\XePersian@temptwo by 8\relax
5025 \advance\XePersian@temp by -\XePersian@temptwo
5026 \XePersian@temptwo=\XePersian@tempthree %
5027 \divide\XePersian@temptwo by 33\relax
5028 \multiply\XePersian@temptwo by 33\relax
5029 \advance\XePersian@tempthree by -\XePersian@temptwo
5030 \ifnum\XePersian@tempthree=32\advance\XePersian@temp by 1\fi % if (SY+10) mod 33=32 then Inc(T);
5031 \divide\XePersian@tempthree by 4\relax % T := T - ((SY+10) mod 33) div 4
5032 \advance\XePersian@temp by -\XePersian@tempthree
5033 \advance\XePersian@temp by -137 % T := T - 137 Adjust the value
5034 \XePersian@persiani=31
5035 \advance\XePersian@persiani by -\XePersian@temp % now 31 - T is the persiani
5036 \XePersian@persianii = 30\relax
5037 \ifXePersian@kabiseh
5038   \XePersian@persianiii = 30\relax
5039 \else
5040   \XePersian@persianiii = 29\relax
5041 \fi
5042 \XePersian@persianiv = 31\relax
5043 \XePersian@persianv = 31\relax
5044 \XePersian@persianvi = 31\relax
5045 \XePersian@persianvii = 31\relax
5046 \XePersian@persianviii = 31\relax
5047 \XePersian@persianix = 31\relax
5048 \XePersian@persianx = 30\relax
5049 \XePersian@persianxi = 30\relax
5050 \XePersian@persianxii = 30\relax

```





```

5051 \XePersian@persianxiii= 30\relax
5052 \XePersian@dn= 0\relax
5053 \XePersian@sn= 0\relax
5054 \XePersian@mminusone=\XePersian@m
5055 \advance \XePersian@mminusone by -1\relax
5056 \XePersian@i=0\relax
5057 \ifnum \XePersian@i < \XePersian@mminusone
5058 \loop
5059 \advance \XePersian@i by 1\relax
5060 \advance \XePersian@dn by \csname XePersian@latin\romannumeral\the \XePersian@i\endcsname
5061 \ifnum \XePersian@i<\XePersian@mminusone \repeat
5062 \fi
5063 \advance \XePersian@dn by \XePersian@d
5064 \XePersian@i=1\relax
5065 \XePersian@sn = \XePersian@persiani
5066 \ifnum \XePersian@sn<\XePersian@dn
5067 \loop
5068 \advance \XePersian@i by 1\relax
5069 \advance \XePersian@sn by \csname XePersian@persian\romannumeral\the \XePersian@i\endcsname
5070 \ifnum \XePersian@sn<\XePersian@dn \repeat
5071 \fi
5072 \ifnum \XePersian@i < 4
5073 \XePersian@m = 9 \advance \XePersian@m by \XePersian@i
5074 \advance \XePersian@y by -622\relax
5075 \else
5076 \XePersian@m = \XePersian@i \advance \XePersian@m by -3\relax
5077 \advance \XePersian@y by -621\relax
5078 \fi
5079 \advance \XePersian@sn by -\csname XePersian@persian\romannumeral\the \XePersian@i\endcsname
5080 \endcsname
5081 \ifnum \XePersian@i = 1
5082 \XePersian@d = \XePersian@dn \advance \XePersian@d by 30 \advance \XePersian@d by -\XePersian@per
5083 \else
5084 \XePersian@d = \XePersian@dn \advance \XePersian@d by -\XePersian@sn
5085 \fi
5086 \newcommand*{\persiantoday}{%
5087 \number \XePersian@d\space%
5088 \XePersian@persian@month{\XePersian@m}\space \number \XePersian@y%
5089 }
5090 \let \persianyear \XePersian@y
5091 \let \persianmonth \XePersian@m
5092 \let \persianday \XePersian@d
5093 \def \XePersian@persian@month#1{\ifcase#1\or or\
5094 or\
5095 or\ or\
5096 or\
5097 or\ or\
5098 or\ or\
5099 or\ or\
5100 \fi\

```



## Index

Symbols	
<code>\!</code> .....	2568
<code>\%</code> .....	4722
<code>\.</code> .....	1666, 4752
<code>\@and</code> .....	3239
<code>\@if@newlist</code> ..	1460, 1480, 3161, 3214
<code>\@math</code> .....	333
<code>\@maybeautodot</code> .....	2783, 2784, 2802, 2817, 2818, 2836, 2847, 2848, 2866
<code>\@par</code> .....	2095
<code>\@Abjad</code> ..	3247, 3255, 3256, 3675, 3676
<code>\@Alph</code> ...	2796, 2830, 2860, 3513, 3516, 3671, 3676
<code>\@DeclareMathDelimiter</code> ..	4640
<code>\@DeclareMathSizes</code> .....	4631
<code>\@False</code> .....	321, 323
<code>\@Kashida@onfalse</code> .....	1839
<code>\@Kashida@ontrue</code> .....	1838
<code>\@LTRbidituftesidenote@sidenote</code> .....	190
<code>\@LTRfootnotetext</code> .....	50, 66, 112, 127, 202, 209, 1526, 1543, 1736, 1751, 2125
<code>\@LTRmarginparreset</code> .....	3137
<code>\@Latincitex</code> 179, 180, 2359, 2368, 2558, 3145, 3146	
<code>\@M</code> ..	337, 1665, 1678, 1760, 3289, 3390, 3485
<code>\@MM</code> ..	20, 37, 56, 82, 99, 118, 1493, 1512, 1531, 1706, 1723, 1742
<code>\@Mi</code> .....	333
<code>\@Mii</code> .....	2018
<code>\@Miii</code> .....	2020
<code>\@RTL@footnotefalse</code> 3128, 3132, 3608	
<code>\@RTL@footnotetrue</code> .	3130, 3133, 3606
<code>\@RTLbidituftesidenote@sidenote</code> .....	217
<code>\@RTLfalse</code> 16, 52, 78, 114, 303, 315, 328, 1489, 1527, 1549, 1582, 1661, 1702, 1738, 3200, 3210, 3576, 3590	
<code>\@RTLfootnotetext</code> .....	31, 65, 93, 126, 229, 236, 1507, 1542, 1717, 1750, 2126
<code>\@RTLtrue</code> .....	16, 33, 78, 95, 1489, 1508, 1549, 1567, 1661, 1702, 1719, 3200, 3210, 3574, 3588
<code>\@Roman</code> .....	2798, 2832, 2862
<code>\@SepMark</code> .	1773, 1774, 1775, 1776, 1954
<code>\@SetTab</code> .....	2872
<code>\@True</code> .....	316, 322
<code>\@X</code> .....	4803, 4804, 4882
<code>\@abjad</code> ..	3474, 3493, 3494, 3670, 3671
<code>\@acol</code> .....	2250, 2258
<code>\@acolampacol</code> .	2248, 2250, 2256, 2258
<code>\@adadi</code> ..	2794, 2828, 2858, 3263, 3265, 3268
<code>\@addamp</code> .....	2249, 2257
<code>\@addtopreamble</code> .....	2217
<code>\@alph</code> 2797, 2831, 2861, 2873, 3512, 3515, 3670, 3675	
<code>\@ampacol</code> .....	2248, 2256
<code>\@answernumberfont</code> .	4825, 4826, 4864
<code>\@answerstitle</code> .....	4822, 4863
<code>\@answerstitlefont</code> .	4823, 4824, 4863
<code>\@appendheader</code> 4836, 4837, 4839	
<code>\@arrayclassz</code> .....	2248
<code>\@arraydesc</code> ..	4832, 4835, 4842, 4846
<code>\@arrayrule</code> 2196, 2197, 2198, 2240, 2241, 2242	
<code>\@author</code> .....	3978, 3990
<code>\@autodottrue</code> .....	

...	2786, 2787, 2788, 2789,	2175, 2180, 2195, 2211, 2231,
	2790, 2791, 2792, 2793, 2794,	2239, 2269, 2292, 2306
	2795, 2796, 2797, 2798, 2799,	\@chnum ... 2132, 2133, 2134, 2135,
	2800, 2820, 2821, 2822, 2823,	2136, 2137, 2147, 2154, 2168,
	2824, 2825, 2826, 2827, 2828,	2181, 2188, 2204, 2217, 2233,
	2829, 2830, 2831, 2832, 2833,	2234, 2235, 2236, 2237, 2238,
	2834, 2850, 2851, 2852, 2853,	2252, 2260, 2270, 2277, 2299
	2854, 2855, 2856, 2857, 2858,	\@choices 4830, 4834, 4850, 4852
	2859, 2860, 2861, 2862, 2863,	\@cite ... 2347, 2354, 2366, 2382,
	2864	2471, 3148
\@auxout .....	3151	\@cite@ofmt .....
\@begin@tempboxa .....	2095	3156
\@begin@dv .....	3193	\@citea .. 2387, 2401, 2415, 2424,
\@biblabel ...	1662, 2360, 2369	2425, 2426, 2431, 2446, 2454,
\@bibsetup .....	2361, 2370	2455, 2456, 2490, 2506, 2524,
\@bibtitlestyle .....	1658	3147, 3149
\@bidi@list@minipage@parbox@not@nobtrue		\@citeb .. 2383, 2385, 2387, 2390,
.....	2092, 2114	2392, 2393, 2395, 2418, 2449,
\@bidi@list@minipage@parboxtrue		2472, 2474, 2476, 2479, 2481,
.....	2093, 2115	2482, 2484, 3148, 3150, 3151,
\@bidi@tuftesidenote@citations		3152, 3155, 3156
...	192, 219, 246, 253	\@citex .....
\@bidi@tuftesidenote@infofootnote@cite		2358, 2367
...	191, 218, 245, 252	\@classx .....
\@bidi@tuftesidenote@margin@par		2214
.....	247, 254	\@classz .....
\@bidi@tuftesidenote@marginfont		2214
.....	189	\@cleartopmattertags ...
\@bidi@tuftesidenote@marginnote@font		1796
.....	247, 254	\@colht .....
\@bidi@tuftesidenote@marginnote@justification		3215
.....	247, 254	\@correction .....
\@bidi@tuftesidenote@normal@cite		4903
...	212, 239, 249, 256	\@correctionstyle ..
\@bidi@tuftesidenote@print@citations		4888, 4889,
...	211, 238, 248, 255	4890
\@bidi@tuftesidenote@sidenote@vertical@offset@logo		\@ctrerr .....
...	194, 196, 202, 209, 221,	3254, 3259
223, 229, 236		\@currbox 2025, 2071, 2075, 2314,
\@bsphack .....	2017	2318, 2324, 2328
\@capttype 2005, 2068, 2315, 2325		\@currentlabel .....
\@cclvi .....	4574, 4580, 4604	22, 39,
\@chapapp 136, 269, 280, 287, 299,		58, 84, 101, 120, 1495, 1514,
1441, 1453, 1960, 2750, 2757,		1533, 1554, 1572, 1587, 1708,
2764, 2772, 2813, 2843		1725, 1744
\@chclass . 2130, 2138, 2146, 2161,		\@currentenvir ..
		2632, 2634, 2635
		\@cuse@bmlgo .....
		4078, 4087
		\@custommagazine@name 3847, 4080
		\@customminilogo ... 4079, 4093
		\@customwww@txt . 3808, 3811, 3863
		\@date .....
		3981, 3991
		\@dgroup .....
		315
		\@dmath .....
		303, 332
		\@doendpe .....
		2649
		\@dseries .....
		328
		\@eha .....
		4594, 4620



\@empty 318, 1660, 1782, 2012, 2372,  
2382, 2385, 2471, 2474, 2603,  
3147, 3150, 3179, 3180, 3182,  
3183, 3348, 3354, 3357, 3360,  
3465, 3989, 3990, 3991, 3992  
\@emptytoks ..... 317  
\@enGroup ..... 1366  
\@enLabel . 1357, 1358, 1359, 1360,  
1361, 1362, 1363, 1364  
\@enOther ..... 1368  
\@enSpace ..... 1365  
\@end@tempboxa ..... 2110  
\@endpbox ..... 2224, 2225  
\@enhook ..... 1369  
\@enloop@ ..... 1356  
\@entemp .. 1357, 1358, 1359, 1360,  
1361, 1362, 1363, 1364, 1365,  
1366, 1367  
\@enum@ ..... 1367  
\@evenfoot ..... 3177  
\@evenhead ..... 3176  
\@extra@b@citeb .....  
.. 2387, 2393, 2395, 2418,  
2449, 2476, 2482, 2484  
\@extrafootnotefeaturesfalse .  
..... 3628  
\@extrafootnotefeaturestrue .  
..... 3626  
\@false ..... 4887, 4895, 4902  
\@false@correction . 4879, 4902  
\@false@nocorrection 4877, 4895  
\@falsesymbol .. 4873, 4875, 4879  
\@finalstrut ... 1500, 1519, 1538,  
1558, 1576, 1591  
\@firstampfalse .... 2250, 2258  
\@firstofone ... 1639, 1640, 2385,  
2474, 3150, 4577, 4601  
\@float@HH ..... 2311, 2312  
\@float@Hx ..... 2310, 2311  
\@float@ ..... 2311, 2322  
\@floatboxreset 2081, 2320, 2330  
\@floatcapt ..... 2315, 2325  
\@floatpenalty 2018, 2020, 2023  
\@flstylefalse ..... 2317, 2327  
\@flstyletrue ..... 2317, 2327  
\@fltovf ..... 2073  
\@footnotemark 202, 209, 229, 236  
\@footnotetext .. 14, 64, 76, 125,  
1488, 1541, 1700, 1749, 2124  
\@for ..... 2383, 2472, 3148  
\@formanswerline ... 4859, 4868,  
4881, 4885  
\@fps 2006, 2007, 2009, 2012, 2029  
\@fpsadddefault .... 2010, 2013  
\@freelist ..... 2025  
\@gobble .. 1367, 1468, 1469, 1470,  
3189, 3190, 3191  
\@harfi ..... 12, 74, 137, 140, 149,  
155, 161, 167, 270, 281, 288,  
300, 1431, 1442, 1454, 1686,  
1961, 2751, 2758, 2765, 2773,  
2780, 2793, 2814, 2827, 2844,  
2857, 3257, 3260, 3261  
\@headerfont .. 4801, 4802, 4807,  
4837  
\@headerline .. 4833, 4836, 4844,  
4848  
\@idxitem ..... 1675, 1680  
\@ifclassloaded .....  
.. 3540, 3541, 3542, 3543,  
3544, 3545, 3546, 3547, 3548,  
3549, 3550, 3551, 3552, 3553,  
3554, 3555, 3556, 3557, 3558,  
3559, 3560, 3561, 3562, 3563,  
3634, 3646, 3658  
\@ifdefinable ..... 2667, 2669  
\@ifdefinitionfileloaded ....  
... 2002, 2145, 2178, 2268,  
2309, 3523  
\@ifempty ..... 1761  
\@ifnextchar ... 2311, 2552, 2558,  
3145  
\@ifnum .. 2489, 2491, 2493, 2500,  
2501, 2504, 2516, 2539, 2541  
\@ifpackageloaded ..... 182,  
1876, 1880, 2561, 2565, 2657,  
2665, 3524, 3525, 3526, 3527,  
3528, 3529, 3530, 3531, 3532,  
3533, 3534, 3535, 3536, 3537,  
3538, 3539, 3540  
\@ifstar ..... 2551  
\@ifundefined .. 178, 2387, 2393,



<a href="#">2476, 2482, 3152</a>	<a href="#">\@nameuse</a> . . . . . 3171
<a href="#">\@ignoretrue</a> . . . . . 339	<a href="#">\@ne</a> . . . . . 1548, 1566, 1581, 2035,
<a href="#">\@iiiminipage</a> . . . . . 2111	<a href="#">2041, 2134, 2135, 2138, 2147,</a>
<a href="#">\@iiiparbox</a> . . . . . 2089	<a href="#">2157, 2158, 2162, 2181, 2191,</a>
<a href="#">\@indexfile</a> . . . . . 3636, 3648, 3660	<a href="#">2192, 2196, 2197, 2198, 2235,</a>
<a href="#">\@indextitlestyle</a> . . . . . 1673	<a href="#">2236, 2240, 2241, 2242, 2270,</a>
<a href="#">\@initorcheck</a> . . . . . 4829, 4849, 4867	<a href="#">2280, 2281, 2293, 2489, 2501,</a>
<a href="#">\@inlabelfalse</a> . . . . . 306	<a href="#">2503, 2516, 2524, 3275, 3316,</a>
<a href="#">\@input@</a> . . . . . 3638, 3650, 3662	<a href="#">3323, 3335, 3340, 3376, 3417,</a>
<a href="#">\@lastchclass</a> . . . . .	<a href="#">3424, 3436, 3441, 4584, 4589,</a>
<a href="#">2130, 2131, 2147, 2148, 2149,</a>	<a href="#">4608, 4615</a>
<a href="#">2150, 2152, 2181, 2182, 2183,</a>	<a href="#">\@newlistfalse</a> . . . . . 1461, 3162
<a href="#">2184, 2186, 2231, 2232, 2248,</a>	<a href="#">\@next</a> . . . . . 2025
<a href="#">2256, 2270, 2271, 2272, 2273,</a>	<a href="#">\@nextchar</a> . . . . . 2153,
<a href="#">2275</a>	<a href="#">2155, 2156, 2157, 2158, 2159,</a>
<a href="#">\@latex@error</a> . . . . . 4592, 4618	<a href="#">2160, 2162, 2163, 2164, 2165,</a>
<a href="#">\@latex@warning</a> . . . . . 1668, 3154	<a href="#">2166, 2169, 2170, 2171, 2172,</a>
<a href="#">\@latinAlpha</a> . . . . . 3513, 3516	<a href="#">2173, 2174, 2187, 2189, 2190,</a>
<a href="#">\@latinalph</a> . . . . . 2873, 3512, 3515	<a href="#">2191, 2192, 2193, 2194, 2196,</a>
<a href="#">\@listdepth</a> . . . . . 2127	<a href="#">2197, 2198, 2199, 2200, 2201,</a>
<a href="#">\@m</a> . . . . . 1666, 2364, 3149, 3288, 3389,	<a href="#">2202, 2205, 2206, 2207, 2208,</a>
<a href="#">3483</a>	<a href="#">2209, 2210, 2222, 2224, 2225,</a>
<a href="#">\@mainmatterfalse</a> . . . . . 264, 275, 293,	<a href="#">2276, 2278, 2279, 2280, 2281,</a>
<a href="#">1435, 2807</a>	<a href="#">2282, 2283, 2284, 2285, 2286,</a>
<a href="#">\@makefnmark</a> . . . . . 1693	<a href="#">2287, 2288, 2289, 2290, 2291,</a>
<a href="#">\@makefntext</a> . . . . . 24, 41,	<a href="#">2293, 2294, 2295, 2296, 2297,</a>
<a href="#">60, 86, 103, 122, 1499, 1518,</a>	<a href="#">2300, 2301, 2302, 2304, 2305</a>
<a href="#">1537, 1557, 1575, 1590, 1710,</a>	<a href="#">\@nextchar</a> . . . . . 2303
<a href="#">1727, 1746</a>	<a href="#">\@nil</a> 2578, 2582, 2583, 2588, 2590,
<a href="#">\@maketitle</a> . . . . . 1787	<a href="#">3306, 3309, 3407, 3410</a>
<a href="#">\@maketitle@hook</a> . . . . . 1785	<a href="#">\@nocument</a> . . . . . 2004
<a href="#">\@maskanswerline</a> . . . . . 4860, 4869,	<a href="#">\@noitemerr</a> . . . . . 1668
<a href="#">4882, 4886</a>	<a href="#">\@nonlatinfalse</a> . . . . . 3126, 3128, 3132,
<a href="#">\@memfront</a> . . . . . 1952	<a href="#">3581</a>
<a href="#">\@minipagefalse</a> . . . . . 3142	<a href="#">\@nonlatintrue</a> . . . . . 3127, 3130, 3133,
<a href="#">\@minipagerestore</a> . . . . . 2128	<a href="#">3583</a>
<a href="#">\@minipagetrue</a> . . . . . 3141	<a href="#">\@nx</a> . . . . . 1791, 1792
<a href="#">\@mpLTrfootnotetext</a> . . . . . 1580, 2125	<a href="#">\@oddfoot</a> . . . . . 3174, 3183
<a href="#">\@mpRTLfootnotetext</a> . . . . . 1565, 2126	<a href="#">\@oddhead</a> . . . . . 3174, 3182
<a href="#">\@mpargs</a> . . . . . 2117	<a href="#">\@onelevel@sanitize</a> . . . . . 2007
<a href="#">\@mpfn</a> . . . . . 200, 206, 227, 233, 2123	<a href="#">\@outputbox</a> . . . . . 1478, 3206
<a href="#">\@mpfootins</a> . . . . . 1549, 1550, 1567, 1568,	<a href="#">\@outputpage</a> . . . . . 1456, 3157
<a href="#">1582, 1583</a>	<a href="#">\@parboxrestore</a> . . . . . 21, 38,
<a href="#">\@mpfootnotetext</a> . . . . . 1547, 2124	<a href="#">57, 83, 100, 119, 1461, 1494,</a>
<a href="#">\@mplistdepth</a> . . . . . 2127	<a href="#">1513, 1532, 1553, 1571, 1586,</a>
<a href="#">\@namedef</a> . . . . . 2341, 2395, 2484, 2648	<a href="#">1707, 1724, 1743, 2080, 2095,</a>



2122, 2319, 2329, 3163  
 \@parboxto ..... 2098, 2107  
 \@parmoderr ..... 2023  
 \@pboxswfalse ..... 2091, 2113  
 \@pboxswtrue ..... 2105  
 \@plus ..... 1676, 1754  
 \@pnumwidth ..... 1767, 1769  
 \@ppsavesec ..... 131  
 \@preamble ..... 2251, 2259  
 \@preamblecmds ..... 4645  
 \@preamerr 2141, 2175, 2211, 2245,  
 2306  
 \@questionheader ... 4859, 4860,  
 4891  
 \@questionsep space . 4915, 4920,  
 4926  
 \@questiontitle .... 4908, 4921  
 \@questiontitlefont 4909, 4910,  
 4921  
 \@resetactivechars . 1459, 3160  
 \@resets@pp .... 130, 1645, 1646  
 \@restonecolfalse ..... 1671  
 \@restonecoltrue ..... 1671  
 \@roman ..... 2799, 2833, 2863  
 \@safe@activesfalse 2386, 2475  
 \@safe@activetrue . 2384, 2473  
 \@secpenalty ..... 1759  
 \@setcopyright ..... 1779  
 \@setfontsize .....  
 .. 3778, 3784, 3786, 3789,  
 3796, 3802, 3803, 3804, 3805,  
 3806  
 \@setfpsbit .. 2045, 2048, 2051,  
 2054, 2057, 2060  
 \@setminipage ..... 2129  
 \@setnobreak ..... 2320, 2330  
 \@sharp .. 2253, 2254, 2255, 2261,  
 2262, 2263  
 \@smemfront ..... 1953  
 \@specialpagefalse ..... 3171  
 \@specialstyle ..... 3171  
 \@sptoken ..... 1365  
 \@startpbox ..... 2224, 2225  
 \@startsection ..... 1753  
 \@starttoc .... 3224, 4812, 4817  
 \@stop ..... 2784, 2818, 2848  
 \@sx@xepersian@localize@verbatim  
 ..... 2341  
 \@tabclassz ..... 2256  
 \@tartibi ..... 9, 70,  
 145, 151, 157, 163, 261, 272,  
 283, 295, 1427, 1437, 1449,  
 1683, 1955, 1956, 2746, 2753,  
 2760, 2768, 2776, 2795, 2809,  
 2829, 2839, 2859, 3369, 3371,  
 3374  
 \@tempa ..... 1357, 1358,  
 1359, 1360, 1361, 1362, 1363,  
 1364, 1365, 1366, 1367, 1368,  
 1371, 1790, 1793, 2588, 2590,  
 2673, 2674, 2675, 2676, 2677,  
 2678, 2679, 2680, 2681, 2682,  
 2683  
 \@tempboxa 2118, 3196, 3203, 3204  
 \@tempc .. 2603, 2616, 2626, 2628,  
 2629, 2632, 2640  
 \@tempcnta 2027, 2033, 2035, 2039,  
 2041, 2063, 2064, 2070, 2071,  
 2215, 2498, 2499, 2500, 2503,  
 2504  
 \@tempcntb ... 2068, 2069, 2070  
 \@tempdima 1762, 1764, 1766, 1768,  
 2094, 2095, 2116, 2120  
 \@tempdimb ..... 2097, 2098  
 \@tempswafalse ..... 2516, 3145  
 \@tempswatrue ..... 2515, 3145  
 \@temptokena .....  
 ... 1788, 1792, 2589, 2596,  
 2601, 2607, 2614, 2624, 2638  
 \@testpach 2130, 2146, 2180, 2231,  
 2269  
 \@tfor ..... 2028, 2673  
 \@thanks ..... 3983, 3989  
 \@the@choice ..... 4838, 4839  
 \@thefnmark ..... 23, 40, 59, 85,  
 102, 121, 201, 207, 228, 234,  
 1496, 1515, 1534, 1555, 1573,  
 1588, 1695, 1709, 1726, 1745  
 \@theftoc . 3174, 3177, 3180, 3183,  
 3210  
 \@thehead . 3174, 3176, 3179, 3182,  
 3200



`\@themargin` 1474, 3175, 3177, 3195  
`\@title` ..... 3971, 3992  
`\@tocline` ..... 1756  
`\@tocpagenum` ..... 1769  
`\@topnum` ..... 1778  
`\@true` ..... 4883, 4894, 4901  
`\@true@correction` .. 4878, 4901  
`\@true@nocorrection` 4876, 4894  
`\@truesymbol` ... 4872, 4874, 4878  
`\@verbatim` 2338, 2341, 2646, 2648, 2659  
`\@vobeyspaces` ..... 2338, 2646  
`\@warning` ..... 2645  
`\@width` ..... 1692  
`\@x@xepersian@localize@verbatim` ..... 2338  
`\@xDeclareMathDelimiter` . 4640  
`\@xepersian@info` 2911, 2932, 2934  
`\@xfloat` ..... 2003, 2310, 2311  
`\@xp` ..... 1788  
`\@xxDeclareMathDelimiter` 4639  
`\@xxxii` ..... 2069  
`@\` ..... 1982, 1983  
`@\` ..... 1978, 1979, 1981  
`@\` ..... 2560  
`] \` ..... 2568  
`\ \` .. 1789, 2335, 2568, 3939, 4254, 4255, 4517, 4520, 4569, 4805, 4844, 4848, 4868, 4869  
`\{` ..... 2334, 2568  
`\}` ..... 2334, 2568  
`\]` ..... 2568  
`\^` ..... 2569  
`\_` . 2966, 2968, 2984, 2986, 3002, 3004, 3018, 3020, 3064, 3066, 3073, 3075, 3082, 3084, 3091, 3093, 3100, 3102, 3109, 3111, 4701, 4703, 4729, 4731, 4738, 4740  
`\|` ..... 4255  
`\~` ..... 2569  
`\_` ..... 1600, 1602, 3149, 3312, 3318, 3337, 3343, 3413, 3419, 3438, 3448, 3854, 3863

## A

`\abj@num@i` ... 3479, 3496, 3503  
`\abj@num@ii` ... 3481, 3500, 3507  
`\abj@num@iii` ... 3483, 3504, 3510  
`\abj@num@iv` ..... 3485, 3508  
`\Abjad` ..... 3255  
`\abjad` ..... 3493  
`\abjad@zero` ..... 3495, 3499  
`\Abjadnumeral` ..... 3256  
`\abjadnumeral` ..... 3494  
`\abovedisplayshortskip` ..... 3781, 3782, 3792, 3793, 3799, 3800  
`\abovedisplayskip` .. 3779, 3780, 3790, 3791, 3797, 3798  
`\abstractname` ..... 3236  
`\active` ..... 2569, 4752  
`\adadi` 1358, 2787, 2821, 2851, 3262  
`\adadinumeral` ..... 3268  
`\addfontfeatures` . 303, 315, 328  
`\addpenalty` ..... 1759  
`\addtocontents` ..... 4811, 4814, 4816, 4819, 4841, 4845, 4868, 4869  
`\addtolength` .. 4006, 4007, 4010, 4429, 4430, 4431, 4432, 4496  
`\addtoversion` ..... 4632  
`\addvspace` ..... 1759  
`\adl@argarraydashrule` ... 2198, 2242  
`\adl@arraydashrule` . 2197, 2241  
`\adl@arrayrule` ..... 2196, 2240  
`\adl@box` ..... 2222, 2224, 2225  
`\adl@class@iiiorvii` 2228, 2265  
`\adl@class@start` ... 2227, 2264  
`\adl@endmbox` ..... 2223  
`\adl@putlrc` 2219, 2220, 2221, 2253, 2254, 2255, 2261, 2262, 2263  
`\adl@startmbox` ..... 2222  
`\advance` ..... 1603, 1663, 1766, 2035, 2041, 2064, 2070, 2503, 3770, 3774, 4042, 4045, 4589, 4615, 4963, 4998, 5002, 5008, 5012, 5017, 5020, 5021, 5025, 5029, 5030, 5032, 5033, 5035, 5055, 5059, 5060,



5063, 5068, 5069, 5073, 5074,  
 5076, 5077, 5079, 5082, 5084  
 \aftergroup 1463, 1465, 3158, 3166,  
 3167  
 \ALG@name ..... 5, 7  
 \algorithmicensure ..... 3  
 \algorithmicrequire ..... 2  
 \ALGS@name ..... 6, 7  
 \aliasfontfeature ..... 1892,  
 1893, 1894, 1895, 1896, 1897,  
 1898, 1899, 1900, 1901, 1902,  
 1903, 1904, 1905, 1906, 1907,  
 1908, 1909, 1910, 1911, 1912,  
 1913, 1914, 1915, 1916, 1917,  
 1918, 1919, 1920, 1921, 1922,  
 1923, 1924, 1925, 1926, 1927,  
 1928, 1929, 1930, 1931, 1932,  
 1933, 1934, 1935, 1936, 1937,  
 1938, 1939, 1940, 1941, 1942,  
 1943, 1944  
 \aliasfontfeatureoption . 1945,  
 1946, 1947, 1948, 1949, 1950  
 \alloc@ ..... 4574  
 \Alph 1360, 1632, 1633, 2789, 2823,  
 2853  
 \alph 1361, 2790, 2824, 2854, 2880,  
 4838, 4864  
 \alpha@elt ..... 4633  
 \alpha@list ..... 4633  
 \anappendixtrue ..... 1962  
 \and ..... 3996  
 \andify ..... 1783  
 \answernumberfont ..... 4826  
 \answerstitle ..... 4822, 4892  
 \answerstitlefont ..... 4824  
 \appendix ..... 10, 71, 146, 152,  
 158, 164, 266, 277, 284, 296,  
 1428, 1438, 1450, 1629, 1630,  
 1684, 1957, 2747, 2754, 2761,  
 2769, 2777, 2810, 2840  
 \appendixautorefname ..... 1618  
 \appendixname ..... 11, 73,  
 136, 269, 280, 287, 299, 1441,  
 1453, 1685, 1960, 2750, 2757,  
 2764, 2772, 2813, 2843, 3233  
 \arabic ... 1364, 1660, 1773, 1774,  
 1775, 1776  
 \arrayrulewidth ..... 4511  
 \articlesep ..... 4493  
 \AtBeginDocument ..... 177,  
 1628, 1851, 2341, 2548, 2653,  
 3768, 3772  
 \AtEndOfClass ..... 3766  
 \author ..... 3994  
 \authorandplace ..... 4467  
 \autofootnoterule ..... 3594  
 \AutoMathsDigits ... 3566, 4785,  
 4789  
 B  
 \backrefpagesname ..... 169  
 \baselineskip 247, 254, 1471, 3192,  
 3207  
 \begin 2562, 2563, 3132, 3133, 3222,  
 3822, 3825, 3878, 3893, 3906,  
 3912, 3933, 3964, 3970, 3977,  
 4001, 4055, 4061, 4133, 4136,  
 4141, 4148, 4163, 4178, 4195,  
 4229, 4247, 4252, 4272, 4279,  
 4280, 4301, 4303, 4304, 4326,  
 4331, 4332, 4368, 4369, 4377,  
 4403, 4411, 4417, 4418, 4426,  
 4456, 4480, 4512, 4513, 4528,  
 4540, 4554, 4842, 4846, 4857,  
 4858, 4864, 4919  
 \beginingroup ..... 205, 232, 311,  
 1457, 1760, 1786, 2333, 2550,  
 2566, 2646, 2648, 2938, 2940,  
 3158, 4581, 4605, 4752  
 \beginL .. 3142, 3200, 3210, 3854,  
 4255  
 \beginR .. 3200, 3210, 3858, 3859,  
 3860, 3871, 3872, 3873, 4078,  
 4079, 4080, 4098, 4119, 4120,  
 4121, 4122, 4123, 4124, 4275,  
 4370  
 \belowdisplayshortskip .. 3782,  
 3793, 3800  
 \belowdisplayskip .. 3780, 3791,  
 3798  
 \bfseries 1755, 2388, 2477, 3152,  
 3814, 3820, 3839, 3847, 3875,





3891, 3910, 3924, 3928, 3953,  
 3958, 3962, 4087, 4093, 4801,  
 4823, 4825, 4909  
 \bgroup . . . 1366, 2078, 2118, 2319,  
 2329, 4577, 4601  
 \bibliofont . . . . . 1659  
 \bibname . . . . . 3240  
 \bidi@AfterEndPreamble . . 3518  
 \bidi@csdefcs . . . . . 954, 1874  
 \bidi@csletcs . . . 649, 1874, 1878,  
 1879, 1882, 1883  
 \bidi@footdir@footnote 64, 125,  
 1541, 1749  
 \bidi@isloaded . 1845, 1846, 1847,  
 1848, 1849, 1850, 1853, 1856,  
 1859, 1862, 1865, 1868  
 \bidi@mpfootnoterule 1548, 1566,  
 1581  
 \bidi@newrobustcmd . 3126, 3127,  
 3226  
 \bidi@reflect@box . . . . . 3227  
 \blacktriangleleft . 1598, 1600  
 \blacktriangleright . 1598, 1600  
 \bm@b . . . . . 2086  
 \bm@c . . . . . 2083  
 \bm@l . . . . . 2084  
 \bm@r . . . . . 2085  
 \bm@s . . . . . 2088  
 \bm@t . . . . . 2087  
 \bm@ . . . . . 2087  
 \bm@ . . . . . 2085  
 \bm@ . . . . . 2086  
 \bm@ . . . . . 2083  
 \bm@ . . . . . 2084  
 \bm@ . . . . . 2088  
 \bool . . . . . 4627  
 \boolean . 3755, 3767, 3776, 3880,  
 3895, 3914, 3935, 4131, 4132,  
 4162, 4194, 4228, 4246, 4270,  
 4300, 4324, 4351  
 \botmark . . . . . 1483, 3217  
 \box . . . . . 317, 1478, 3204, 3206  
 \BR@Latincitex . . . . . 170, 180  
 \BRorg@Latincitex . . . . 171, 179

## C

\C . . . . . 2570  
 \c . . 4661, 4669, 4677, 4685, 4693  
 \c@book . . . . . 1955  
 \c@chapter . . . . . 72,  
 74, 137, 270, 281, 288, 300,  
 1442, 1454, 1961, 2751, 2758,  
 2765, 2773, 2814, 2844  
 \c@footnote . . . . . 1795  
 \c@mpfootnote . . 1548, 1566, 1581,  
 2123  
 \c@part 9, 70, 145, 151, 157, 163, 261,  
 272, 283, 295, 1427, 1437,  
 1449, 1683, 1956, 2746, 2753,  
 2760, 2768, 2776, 2809, 2839  
 \c@section . . . . . 10, 12, 72, 140,  
 149, 155, 161, 167, 1431, 1684,  
 1686, 2780  
 \c@subsection . . . . . 10, 1684  
 \c@tocdepth . . . . . 1757  
 \catcode . 1872, 2333, 2334, 2335,  
 2569, 4752  
 \ccname . . . . . 3242  
 \cdp@elt . . . . . 4630  
 \cdp@list . . . . . 4630  
 \centering . . . 4017, 4305, 4806  
 \cftchapname . . . . . 2892  
 \cftfigname . . . . . 2898  
 \cftparaname . . . . . 2896  
 \cftsecname . . . . . 2893  
 \cftsubfigname . . . . . 2899  
 \cftsubparaname . . . . . 2897  
 \cftsubsecname . . . . . 2894  
 \cftsubsubsecname . . . . . 2895  
 \cftsubtabname . . . . . 2901  
 \cfttabname . . . . . 2900  
 \chapterautorefname . . . . 1619  
 \chaptername . . . . . 73, 3241  
 \chardef . . 1799, 1801, 1802, 1803,  
 1804, 1805, 4574  
 \charlist . . 1810, 1811, 1813, 1817  
 \citation . . . . . 3151  
 \cite . 191, 212, 218, 239, 245, 249,  
 252, 256  
 \citenumfont . . . . . 2527  
 \citeyear . . . . . 2349





`\DeclareSymbolFont` . 4635, 4707, 4708, 4709, 4710, 4734, 4743  
`\DeclareSymbolFontAlphabet` . . . . . 4642  
`\DeclareSymbolFontAlphabet@` . . . . . 4642  
`\DeclareTextFontCommand` . . . . . 3057, 3058, 3059, 3060, 3061, 3062  
`\def` . . . . . 2, 3, 5, 6, 7, 10, 12, 14, 31, 50, 69, 71, 74, 76, 93, 112, 169, 170, 183, 190, 217, 259, 303, 315, 328, 335, 339, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1456, 1488, 1507, 1526, 1547, 1565, 1580, 1595, 1597, 1599, 1601, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1630, 1641, 1646, 1668, 1671, 1680, 1681, 1682, 1684, 1686, 1687, 1691, 1693, 1700, 1717, 1736, 1753, 1756, 1777, 1789, 1807, 1810, 1812, 1813, 1818, 1842, 1843, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 2003, 2005, 2006, 2008, 2089, 2111, 2117, 2123, 2130, 2146, 2180, 2214, 2227, 2228, 2231, 2248, 2256, 2264, 2265, 2269, 2311, 2312, 2315, 2322, 2325, 2338, 2339, 2348, 2351, 2363, 2364, 2374, 2377, 2390, 2405, 2435, 2467, 2471, 2496, 2558, 2572, 2576, 2578, 2579, 2582, 2588, 2590, 2592, 2608, 2611, 2627, 2628, 2631, 2644, 2646, 2649, 2666, 2903, 2904, 2935, 2936, 2937, 2943, 2944, 2948, 3118, 3122, 3128, 3129, 3130, 3131, 3135, 3136, 3137, 3146, 3149, 3157, 3228, 3229, 3230, 3231, 3232, 3233, 3234, 3235, 3236, 3237, 3238, 3239, 3240, 3241, 3242, 3243, 3244, 3245, 3246, 3247, 3255, 3257, 3260, 3269, 3274, 3283, 3309, 3322, 3333, 3347, 3353, 3356, 3359, 3363, 3375, 3384, 3410, 3423, 3434, 3452, 3457, 3464, 3474, 3493, 3495, 3496, 3500, 3504, 3508, 3514, 3669, 3674, 3808, 4078, 4079, 4080, 4574, 4576, 4600, 4711, 4735, 4744, 4753, 4754, 4779, 4780, 4781, 4785, 4801, 4803, 4805, 4823, 4825, 4829, 4836, 4872, 4873, 4876, 4877, 4878, 4879, 4888, 4891, 4898, 4899, 4905, 4906, 4909, 5093  
`\def@NAT@last@yr` . . . 2506, 2508  
`\defaultfontfeatures` . . . . 3680  
`\DefaultMathsDigits` . . . . 3568, 4780  
`\define@choicekey` . . . . . 3564, 3572, 3579, 3586, 3592, 3604, 3610, 3616, 3620, 3624, 3630, 3643, 3655, 3667  
`\define@key` . . . . . 2672  
`\define@mathalphabet` . . . . 4632  
`\define@mathgroup` . . . . . 4632  
`\deflatinfont` . . . . . 3017  
`\defpersianfont` . . . . . 3001  
`\depth` . . . . . 2680, 2681  
`\dimexpr` . . . . . 1689  
`\ding` . . . . . 4872, 4873  
`\display@setup` . . . . . 304, 329  
`\divide` . . . . . 4047, 4048, 4960, 4968, 4973, 5000, 5006, 5014, 5016, 5019, 5023, 5027, 5031  
`\do` . . . . . 2030, 2383, 2472, 2673, 3148, 4645  
`\document` . . . . . 4791  
`\document@select@group` . . . 4600  
`\dorestore@version` . . . . . 4634  
`\dosetclass` . . . . . 1811, 1812, 1816  
`\doublebox` . . . . . 4386, 4439  
`\dp` . . . . . 19, 36, 55, 81, 98, 117, 1493, 1512, 1531, 1705, 1722, 1741, 3203  
`\dquad` . . . . . 337, 339  
`\dseries@display@setup` . . . 329



E	
\edef . . . . .	1790, 2098, 2153, 2187, 2251, 2259, 2276, 2385, 2474, 2634, 2911, 2933, 2942, 2945, 3150, 4838
\edition . . . . .	4105
\editionFormat . . . . .	3814, 3817
\editorialAuthorFormat . .	3957, 4521
\editorialTitleFormat . . .	3955, 3956
\else . . . . .	2, 3, 5, 7, 16, 25, 78, 87, 138, 169, 259, 307, 337, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1445, 1489, 1500, 1548, 1549, 1558, 1598, 1600, 1602, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1661, 1677, 1702, 1711, 1755, 1758, 1766, 1767, 1783, 1815, 1842, 1843, 1852, 1855, 1858, 1861, 1864, 1867, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 2011, 2019, 2024, 2034, 2040, 2093, 2096, 2101, 2102, 2103, 2104, 2105, 2115, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2147, 2148, 2149, 2151, 2152, 2155, 2156, 2157, 2158, 2159, 2160, 2162, 2163, 2164, 2165, 2166, 2169, 2170, 2171, 2172, 2173, 2174, 2181, 2182, 2183, 2185, 2186, 2189, 2190, 2191, 2192, 2193, 2194, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2205, 2206, 2207, 2208, 2209, 2210, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2240, 2241, 2242, 2243, 2244, 2245, 2270, 2271, 2272, 2274, 2275, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2293, 2294, 2295, 2296, 2297, 2300, 2301, 2302, 2303, 2304, 2305, 2317, 2327, 2352, 2365, 2397, 2402, 2411, 2414, 2428, 2432, 2441, 2445, 2448, 2460, 2464, 2465, 2486, 2507, 2521, 2523, 2526, 2540, 2542, 2553, 2576, 2587, 2600, 2602, 2605, 2620, 2622, 2628, 2636, 2644, 2671, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2785, 2806, 2819, 2849, 2876, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2959, 3176, 3181, 3187, 3200, 3210, 3228, 3229, 3230, 3231, 3232, 3233, 3234, 3235, 3236, 3237, 3238, 3239, 3240, 3241, 3242, 3243, 3244, 3245, 3246, 3254, 3259, 3277, 3279, 3287, 3288, 3289, 3290, 3291, 3292, 3293, 3294, 3312, 3327, 3341, 3354, 3357, 3378, 3380, 3388, 3389, 3390, 3391, 3392, 3393, 3394, 3395, 3413, 3428, 3441, 3442, 3445, 3476, 3478, 3480, 3482, 3484, 3639, 3651, 3663, 4024, 4502, 4577, 4590, 4596, 4601, 4616, 4622, 4747, 4755, 4756, 4757, 4758, 4759, 4760, 4761, 4762, 4763, 4764, 4765, 4779, 4782, 4783, 4784, 4786, 4787, 4788, 4966, 4970, 4975, 4976, 4983, 5004, 5009, 5039, 5075, 5083
\empty . . . . .	1814
\enclname . . . . .	3243
\end . . . . .	1811, 1812, 1817, 1818, 2562, 2563, 2634, 2645, 3132, 3133, 3225, 3822, 3827, 3884, 3898, 3908, 3917, 3940, 3979, 3982, 3985, 4002, 4057, 4063, 4140, 4146, 4150, 4176, 4182, 4216, 4236, 4251, 4257, 4293, 4294, 4295, 4318,



4319, 4320, 4344, 4345, 4346,	\eq@GRP@first@dmath . . . . .	316
4371, 4372, 4375, 4405, 4409,	\eq@prelim . . . . .	307, 324
4420, 4421, 4458, 4462, 4491,	\eq@setnumber . . . . .	310
4522, 4523, 4537, 4549, 4562,	\eq@setup@a . . . . .	312
4811, 4814, 4816, 4819, 4865,	\eq@startup . . . . .	313
4866, 4870, 4924	\eq@wdCond . . . . .	331
\end@correction . . . . .	\eqcommand 343, 344, 345, 346, 347,	
\endcomment . . . . .	348, 349, 350, 351, 352, 353,	
\endcorrection . . . . .	354, 355, 356, 357, 358, 359,	
\endcsname . . . . .	360, 361, 362, 363, 364, 365,	
40, 59, 85, 102, 121, 206, 233,	366, 367, 368, 369, 370, 371,	
1496, 1515, 1534, 1555, 1573,	372, 373, 374, 375, 376, 377,	
1588, 1709, 1726, 1745, 1762,	378, 379, 380, 381, 382, 383,	
1875, 2068, 2108, 2313, 2316,	384, 385, 386, 387, 388, 389,	
2323, 2326, 2343, 2650, 2667,	390, 391, 392, 393, 394, 395,	
2668, 2669, 2670, 2671, 2781,	396, 397, 398, 399, 400, 401,	
2815, 2845, 2939, 2942, 2948,	402, 403, 404, 405, 406, 407,	
2950, 3156, 3255, 3260, 3263,	408, 409, 410, 411, 412, 413,	
3369, 3493, 4580, 4583, 4588,	414, 415, 416, 417, 418, 419,	
4589, 4604, 4607, 4611, 4613,	420, 421, 422, 423, 424, 425,	
4615, 4650, 4652, 5060, 5069,	426, 427, 428, 429, 430, 431,	
5080	432, 433, 434, 435, 436, 437,	
\endgroup . . . . .	438, 439, 440, 441, 442, 443,	
208, 235, 1464,	444, 445, 446, 447, 448, 449,	
1771, 1794, 2571, 2649, 2938,	450, 451, 452, 453, 454, 455,	
2946, 3158, 3166, 4585, 4609,	456, 457, 458, 459, 460, 461,	
4755, 4756, 4757, 4758, 4759,	462, 463, 464, 465, 466, 467,	
4760, 4761, 4762, 4763, 4764,	468, 469, 470, 471, 472, 473,	
4765, 4766	474, 475, 476, 477, 478, 479,	
\endL . . . . .	480, 481, 482, 483, 484, 485,	
3200, 3210, 3854, 4255	486, 487, 488, 489, 490, 491,	
\endlatin . . . . .	492, 493, 494, 495, 496, 497,	
3129	498, 499, 500, 501, 502, 503,	
\endlist . . . . .	504, 505, 506, 507, 508, 509,	
1669	510, 511, 512, 513, 514, 515,	
\endLTR . . . . .	516, 517, 518, 519, 520, 521,	
3129	522, 523, 524, 525, 526, 527,	
\endMakeFramed . . . . .	528, 529, 530, 531, 532, 533,	
1606	534, 535, 536, 537, 538, 539,	
\endmath . . . . .	540, 541, 542, 543, 544, 545,	
334	546, 547, 548, 549, 550, 551,	
\endpersian . . . . .	552, 553, 554, 555, 556, 557,	
3131	558, 559, 560, 561, 562, 563,	
\endquestion . . . . .	564, 565, 566, 567, 568, 569,	
4917	570, 571, 572, 573, 574, 575,	
\endR 3200, 3210, 3858, 3859, 3860,	576, 577, 578, 579, 580, 581,	
3871, 3872, 3873, 4078, 4079,		
4080, 4098, 4119, 4120, 4121,		
4122, 4123, 4124, 4275, 4370		
\endRTL . . . . .		
3131		
\ends@math . . . . .		
334		
\endtrivlist . . . . .		
2339, 2649		
\end 2339, 2343, 2649, 2650		
\eq@addpunct . . . . .		
339		
\eq@group . . . . .		
307, 316		



582, 583, 584, 585, 586, 587,  
588, 589, 590, 591, 592, 593,  
594, 595, 596, 597, 598, 599,  
600, 601, 602, 603, 604, 605,  
606, 607, 608, 609, 610, 611,  
612, 613, 614, 615, 616, 617,  
618, 619, 620, 621, 622, 623,  
624, 625, 626, 627, 628, 629,  
630, 631, 632, 633, 634, 635,  
636, 637, 638, 639, 640, 641,  
642, 643, 644, 645, 646, 647,  
648, 650, 651, 652, 653, 654,  
655, 656, 657, 658, 659, 660,  
661, 662, 663, 664, 665, 666,  
667, 668, 669, 670, 671, 672,  
673, 674, 675, 676, 677, 678,  
679, 680, 681, 682, 683, 684,  
685, 686, 687, 688, 689, 690,  
691, 692, 693, 694, 695, 696,  
697, 698, 699, 700, 701, 702,  
703, 704, 705, 706, 707, 708,  
709, 710, 711, 712, 713, 714,  
715, 716, 717, 718, 719, 720,  
721, 722, 723, 724, 725, 726,  
727, 728, 729, 730, 731, 732,  
733, 734, 735, 736, 737, 738,  
739, 740, 741, 742, 743, 744,  
745, 746, 747, 748, 749, 750,  
751, 752, 753, 754, 755, 756,  
757, 758, 759, 760, 761, 762,  
763, 764, 765, 766, 767, 768,  
769, 770, 771, 772, 773, 774,  
775, 776, 777, 778, 779, 780,  
781, 782, 783, 784, 785, 786,  
787, 788, 789, 790, 791, 792,  
793, 794, 795, 796, 797, 798,  
799, 800, 801, 802, 803, 804,  
805, 806, 807, 808, 809, 810,  
811, 812, 813, 814, 815, 816,  
817, 818, 819, 820, 821, 822,  
823, 824, 825, 826, 827, 828,  
829, 830, 831, 832, 833, 834,  
835, 836, 837, 838, 839, 840,  
841, 842, 843, 844, 845, 846,  
847, 848, 849, 850, 851, 852,  
853, 854, 855, 856, 857, 858,

859, 860, 861, 862, 863, 864,  
865, 866, 867, 868, 869, 870,  
871, 872, 873, 874, 875, 876,  
877, 878, 879, 880, 881, 882,  
883, 884, 885, 886, 887, 888,  
889, 890, 891, 892, 893, 894,  
895, 896, 897, 898, 899, 900,  
901, 902, 903, 904, 905, 906,  
907, 908, 909, 910, 911, 912,  
913, 914, 915, 916, 917, 918,  
919, 920, 921, 922, 923, 924,  
925, 926, 927, 928, 929, 930,  
931, 932, 933, 934, 935, 936,  
937, 938, 939, 940, 941, 942,  
943, 944, 945, 946, 947, 948,  
949, 950, 951, 952, 953, 955,  
956, 957, 958, 959, 960, 961,  
962, 963, 964, 965, 966, 967,  
968, 969, 970, 971, 972, 973,  
974, 975, 976, 977, 978, 979,  
980, 981, 982, 983, 984, 985,  
986, 987, 988, 989, 990, 991,  
992, 993, 994, 995, 996, 997,  
998, 999, 1000, 1001, 1002,  
1003, 1004, 1005, 1006, 1007,  
1008, 1009, 1010, 1011, 1012,  
1013, 1014, 1015, 1016, 1017,  
1018, 1019, 1020, 1021, 1022,  
1023, 1024, 1025, 1026, 1027,  
1028, 1029, 1030, 1031, 1032,  
1033, 1034, 1035, 1036, 1037,  
1038, 1039, 1040, 1041, 1042,  
1043, 1044, 1045, 1046, 1047,  
1048, 1049, 1050, 1051, 1052,  
1053, 1054, 1055, 1056, 1057,  
1058, 1059, 1060, 1061, 1062,  
1063, 1064, 1065, 1066, 1067,  
1068, 1069, 1070, 1071, 1072,  
1073, 1074, 1075, 1076, 1077,  
1078, 1079, 1080, 1081, 1082,  
1083, 1084, 1085, 1086, 1087,  
1088, 1089, 1090, 1091, 1092,  
1093, 1094, 1095, 1096, 1097,  
1098, 1099, 1100, 1101, 1102,  
1103, 1104, 1105, 1106, 1107,  
1108, 1109, 1110, 1111, 1112,



1113, 1114, 1115, 1116, 1117,	1353, 1354, 1874
1118, 1119, 1120, 1121, 1122,	<code>\eqenvironment</code> . . . . . 1373,
1123, 1124, 1125, 1126, 1127,	1374, 1375, 1376, 1377, 1378,
1128, 1129, 1130, 1131, 1132,	1379, 1380, 1381, 1382, 1383,
1133, 1134, 1135, 1136, 1137,	1384, 1385, 1386, 1387, 1388,
1138, 1139, 1140, 1141, 1142,	1389, 1390, 1391, 1392, 1393,
1143, 1144, 1145, 1146, 1147,	1394, 1395, 1396, 1397, 1398,
1148, 1149, 1150, 1151, 1152,	1399, 1400, 1401, 1402, 1403,
1153, 1154, 1155, 1156, 1157,	1404, 1405, 1406, 1407, 1408,
1158, 1159, 1160, 1161, 1162,	1409, 1410, 1411, 1412, 1413,
1163, 1164, 1165, 1166, 1167,	1414, 1416, 1417, 1418, 1419,
1168, 1169, 1170, 1171, 1172,	1420, 1421, 1422, 1423, 1424,
1173, 1174, 1175, 1176, 1177,	1425, 1875
1178, 1179, 1180, 1181, 1182,	<code>\eqstyle</code> . . . . . 309
1183, 1184, 1185, 1186, 1187,	<code>\equal</code> 4053, 4208, 4380, 4385, 4390,
1188, 1189, 1190, 1191, 1192,	4395, 4400, 4433, 4438, 4443,
1193, 1194, 1195, 1196, 1197,	4448, 4453
1198, 1199, 1200, 1201, 1202,	<code>\equationautorefname</code> . . . . . 1612
1203, 1204, 1205, 1206, 1207,	<code>\escapechar</code> . . . 2941, 4582, 4606
1208, 1209, 1210, 1211, 1212,	<code>\evensidemargin</code> . . . . . 3177
1213, 1214, 1215, 1216, 1217,	<code>\everydisplay</code> . . . . . 304, 4791
1218, 1219, 1220, 1221, 1222,	<code>\everyjob</code> . . . . . 2933, 2934
1223, 1224, 1225, 1226, 1227,	<code>\everymath</code> . . . . . 4790
1228, 1229, 1230, 1231, 1232,	<code>\everypar</code> . . . . . 3142
1233, 1234, 1235, 1236, 1237,	<code>\ExecuteOptions</code> . . . . . 4907
1238, 1239, 1240, 1241, 1242,	<code>\ExecuteOptionsX</code> . . . . . 3685
1243, 1244, 1245, 1246, 1247,	<code>\exp</code> . 2973, 2975, 2976, 2977, 2991,
1248, 1249, 1250, 1251, 1252,	2993, 2994, 2995, 3009, 3011,
1253, 1254, 1255, 1256, 1257,	3012, 3013, 3025, 3027, 3028,
1258, 1259, 1260, 1261, 1262,	3029
1263, 1264, 1265, 1266, 1267,	<code>\expandafter</code> . . . . . 304,
1268, 1269, 1270, 1271, 1272,	1811, 1817, 2028, 2029, 2153,
1273, 1274, 1275, 1276, 1277,	2187, 2276, 2313, 2316, 2323,
1278, 1279, 1280, 1281, 1282,	2326, 2343, 2385, 2474, 2590,
1283, 1284, 1285, 1296, 1297,	2595, 2596, 2601, 2606, 2607,
1298, 1299, 1300, 1301, 1302,	2613, 2614, 2615, 2616, 2623,
1303, 1304, 1305, 1306, 1307,	2624, 2625, 2626, 2628, 2637,
1308, 1309, 1310, 1311, 1312,	2638, 2639, 2640, 2650, 2667,
1313, 1314, 1315, 1316, 1317,	2668, 2669, 2670, 2938, 2939,
1318, 1319, 1320, 1321, 1322,	2942, 2945, 2946, 2948, 2949,
1323, 1324, 1325, 1326, 1327,	3150, 3255, 3260, 3263, 3278,
1328, 1329, 1330, 1331, 1332,	3284, 3369, 3379, 3385, 3479,
1333, 1334, 1335, 1336, 1337,	3481, 3483, 3485, 3493, 4577,
1338, 1339, 1340, 1341, 1342,	4596, 4601, 4610, 4611, 4612,
1343, 1344, 1345, 1346, 1347,	4622, 4790, 4791, 4839
1348, 1349, 1350, 1351, 1352,	<code>\expandedtitle</code> . . . . . 4374



`\ExplSyntaxOff` . 2342, 2664, 3117,  
     4647, 4746  
`\ExplSyntaxOn` . 2340, 2652, 2964,  
     4626, 4653  
`\extract@alph@from@version` 4610  
  
**F**  
`\false` . . . . . 4884  
`\falsesymbol` . . . . . 4875  
`\fancyfoot` 4118, 4122, 4123, 4124  
`\fancyhead` . 4117, 4119, 4120, 4121  
`\FancyVerbLineautorefname` 1625  
`\fbox` 4002, 4017, 4232, 4861, 4921  
`\fboxrule` . 1595, 1597, 1599, 1601,  
     4074  
`\fboxsep` . . . . . 1595, 1597,  
     1599, 1601, 4005, 4198, 4230,  
     4302, 4330, 4378, 4427  
`\fi` . . . . . 2, 3, 5, 7, 16, 25, 78,  
     87, 141, 169, 174, 259, 303,  
     305, 306, 307, 315, 326, 328,  
     337, 1370, 1445, 1489, 1500,  
     1548, 1549, 1558, 1566, 1581,  
     1598, 1600, 1602, 1612, 1613,  
     1614, 1615, 1616, 1617, 1618,  
     1619, 1620, 1621, 1622, 1623,  
     1624, 1625, 1626, 1627, 1661,  
     1671, 1677, 1680, 1681, 1682,  
     1702, 1711, 1755, 1766, 1767,  
     1772, 1784, 1808, 1816, 1842,  
     1843, 1854, 1857, 1860, 1863,  
     1866, 1869, 1965, 1966, 1967,  
     1968, 1969, 1970, 1971, 1972,  
     1973, 2014, 2015, 2021, 2036,  
     2037, 2042, 2043, 2046, 2049,  
     2052, 2055, 2058, 2061, 2065,  
     2066, 2074, 2092, 2093, 2099,  
     2106, 2109, 2114, 2115, 2134,  
     2135, 2136, 2137, 2141, 2142,  
     2143, 2157, 2158, 2159, 2160,  
     2175, 2176, 2191, 2192, 2193,  
     2194, 2211, 2212, 2226, 2235,  
     2236, 2237, 2238, 2245, 2246,  
     2250, 2255, 2258, 2263, 2266,  
     2280, 2281, 2282, 2283, 2306,  
     2307, 2317, 2327, 2339, 2357,

2375, 2396, 2398, 2409, 2413,  
 2422, 2423, 2427, 2439, 2444,  
 2448, 2452, 2453, 2457, 2462,  
 2463, 2464, 2465, 2485, 2487,  
 2509, 2517, 2525, 2526, 2535,  
 2536, 2542, 2545, 2555, 2576,  
 2591, 2609, 2629, 2642, 2645,  
 2671, 2683, 2786, 2787, 2788,  
 2789, 2790, 2791, 2792, 2793,  
 2794, 2795, 2796, 2797, 2798,  
 2799, 2800, 2801, 2806, 2820,  
 2821, 2822, 2823, 2824, 2825,  
 2826, 2827, 2828, 2829, 2830,  
 2831, 2832, 2833, 2834, 2835,  
 2850, 2851, 2852, 2853, 2854,  
 2855, 2856, 2857, 2858, 2859,  
 2860, 2861, 2862, 2863, 2864,  
 2865, 2878, 2892, 2893, 2894,  
 2895, 2896, 2897, 2898, 2899,  
 2900, 2901, 2952, 2953, 2961,  
 3151, 3172, 3178, 3179, 3180,  
 3182, 3183, 3184, 3187, 3200,  
 3210, 3228, 3229, 3230, 3231,  
 3232, 3233, 3234, 3235, 3236,  
 3237, 3238, 3239, 3240, 3241,  
 3242, 3243, 3244, 3245, 3246,  
 3254, 3259, 3281, 3295, 3307,  
 3312, 3313, 3316, 3318, 3319,  
 3331, 3335, 3337, 3338, 3340,  
 3343, 3345, 3351, 3354, 3357,  
 3361, 3366, 3382, 3396, 3408,  
 3413, 3414, 3417, 3419, 3420,  
 3432, 3436, 3438, 3439, 3441,  
 3447, 3448, 3450, 3455, 3462,  
 3468, 3486, 3487, 3488, 3489,  
 3490, 3491, 3498, 3499, 3502,  
 3503, 3506, 3507, 3509, 3510,  
 3571, 3577, 3584, 3591, 3603,  
 3609, 3615, 3619, 3623, 3629,  
 3641, 3642, 3653, 3654, 3665,  
 3666, 3678, 3698, 4027, 4028,  
 4233, 4250, 4414, 4488, 4507,  
 4534, 4559, 4577, 4595, 4596,  
 4601, 4621, 4622, 4749, 4767,  
 4768, 4769, 4770, 4771, 4772,  
 4773, 4774, 4775, 4776, 4777,





4779, 4782, 4783, 4784, 4786,  
 4787, 4788, 4975, 4977, 4978,  
 4979, 4985, 5009, 5010, 5030,  
 5041, 5062, 5071, 5078, 5085,  
 5100  
 \figureautorefname ..... 1615  
 \figurename ..... 3228  
 \finishsetclass ..... 1814, 1818  
 \firstarticle .. 4129, 4153, 4154,  
 4156  
 \FirstFrameCommand ..... 1597  
 \firstimage .. 4226, 4239, 4240,  
 4242  
 \firstmark ..... 1483, 3217  
 \firstTextFormat ... 3887, 3889  
 \firstTitleFormat .. 3875, 3881,  
 3882  
 \float@box ..... 2314, 2324  
 \float@endH ..... 2313, 2323  
 \floatingpenalty ... 20, 37, 56,  
 82, 99, 118, 1493, 1512, 1531,  
 1706, 1723, 1742  
 \flushright ... 3875, 3894, 3913  
 \fontencoding . 2976, 2994, 3012,  
 3028  
 \fontfamily ..... 2975, 2993,  
 3011, 3027, 3041, 3044, 3047,  
 3050, 3053, 3056  
 \fontsize ..... 1695  
 \fontspec 2341, 2659, 2970, 2988,  
 3006, 3022, 3068, 3077, 3086,  
 3095, 3104, 3113, 4705, 4733,  
 4742  
 \foot ..... 3870  
 \footdir@debugfalse ..... 3614  
 \footdir@debugtrue ..... 3612  
 \footdir@ORG@xepersian@amsart@footnotetext  
 ..... 64  
 \footdir@ORG@xepersian@amsart@LTRfootnotetext  
 ..... 66  
 \footdir@ORG@xepersian@amsart@RTLfootnotetext  
 ..... 65  
 \footdir@ORG@xepersian@amsbook@footnotetext  
 ..... 125  
 \footdir@ORG@xepersian@amsbook@LTRfootnotetext  
 ..... 127  
 \footdir@ORG@xepersian@amsbook@RTLfootnotetext  
 ..... 126  
 \footdir@ORG@xepersian@footnotetext  
 ..... 1541  
 \footdir@ORG@xepersian@imsproc@footnotetext  
 ..... 1749  
 \footdir@ORG@xepersian@imsproc@LTRfootnotetext  
 ..... 1751  
 \footdir@ORG@xepersian@imsproc@RTLfootnotetext  
 ..... 1750  
 \footdir@ORG@xepersian@LTRfootnotetext  
 ..... 1543  
 \footdir@ORG@xepersian@RTLfootnotetext  
 ..... 1542  
 \footdir@temp ..... 64, 65,  
 66, 125, 126, 127, 1541, 1542,  
 1543, 1749, 1750, 1751  
 \footins ..... 15, 32, 51,  
 77, 94, 113, 1488, 1507, 1526,  
 1701, 1718, 1737  
 \footnote ..... 3967  
 \footnoteautorefname ..... 1613  
 \footnoterule ..... 3966  
 \footnotesep .. 19, 25, 36, 42, 55,  
 61, 81, 87, 98, 104, 117, 123,  
 1492, 1500, 1511, 1519, 1530,  
 1538, 1558, 1576, 1591, 1690,  
 1692, 1705, 1711, 1722, 1728,  
 1741, 1747  
 \footnotesize 17, 34, 53, 79, 96, 115,  
 1445, 1446, 1447, 1490, 1509,  
 1528, 1551, 1569, 1584, 1679,  
 1703, 1720, 1739, 3795, 3796,  
 3830, 3863, 3928, 3952, 3953,  
 3965  
 \footskip ..... 3207  
 \fonttextfont ..... 1445  
 \FrameCommand ..... 1595  
 \FrameRestore ..... 1603  
 \frenchspacing ..... 2338, 2646  
 \frenchbmatter .. 69, 262, 273, 291,  
 1433, 2805  
 \frenchrelat ..... 2581, 4752  
 \g .. 4627, 4707, 4708, 4709, 4710,



4733, 4734, 4742, 4743  
 \g@addto@macro . . . . . 4791, 4836  
 \G@refundefinedtrue . . . . . 3153  
 \gdef . . . . . 149, 155, 161, 167,  
 192, 219, 246, 253, 269, 270,  
 280, 281, 287, 288, 299, 300,  
 1431, 1441, 1442, 1453, 1454,  
 1632, 1633, 1648, 1650, 1960,  
 1961, 2750, 2751, 2757, 2758,  
 2764, 2765, 2772, 2773, 2780,  
 2813, 2814, 2843, 2844, 3808,  
 4078, 4079, 4080, 4752, 4802,  
 4804, 4822, 4824, 4826, 4832,  
 4833, 4849, 4874, 4875, 4889,  
 4908, 4910, 4915, 4926  
 \get@cdp . . . . . 4636  
 \getanddefine@fonts 4583, 4607  
 \Gin@boolkey . . . . . 2666  
 \glb@currsize . . . . . 4700  
 \global 179, 180, 306, 316, 317, 318,  
 319, 320, 321, 322, 323, 331,  
 1460, 1461, 1480, 1548, 1549,  
 1566, 1567, 1581, 1582, 2071,  
 2075, 2395, 2484, 3161, 3162,  
 3171, 3214, 3215, 3987, 3988,  
 3989, 3990, 3991, 3992, 3993,  
 3994, 3995, 3996, 4589, 4615  
 \globaldefs . . . . . 4584, 4608  
 \glossary . . . . . 1470, 3191  
 \glsaddprotectedpagefmt . 1608,  
 1609, 1610  
 \goodbreak . . . . . 4565  
 \grid . . . . . 3769, 3773, 4035  
 \Grot@x . . 2674, 2675, 2676, 2677  
 \Grot@y . . 2678, 2679, 2680, 2681,  
 2682, 2683  
 \group . . . . . 2659  
 \group@elt . . . . . 4635  
 \group@list . . . . . 4635  
 \grp@aligned . . . . . 322  
 \GRP@box . . . . . 317  
 \grp@eqs@numbered . . . . . 321  
 \grp@hasNumber . . . . . 326  
 \GRP@label . . . . . 318  
 \grp@linewidth . . . . . 320  
 \GRP@queue . . . . . 317

\grp@setnumber . . . . . 326  
 \grp@shiftnumber . . . . . 323  
 \grp@wdL . . . . . 319  
 \grp@wdNum . . . . . 320  
 \grp@wdR . . . . . 319  
 \grp@wdT . . . . . 319  
 \gsetlength . . 194, 196, 221, 223

## H

\hangindent . . . 1680, 1681, 1682  
 \harfi . . . 1357, 1954, 2786, 2820,  
 2850, 3260  
 \harfinumeral . . . . . 3261  
 \hbExt@ . . . . . 3200, 3210  
 \hbox . . 247, 254, 1689, 1695, 1769,  
 2222, 3152, 3226, 3227  
 \headDateTimeFormat 3834, 3836  
 \headerfont . . . . . 4802  
 \headheight . . . 1476, 3196, 4068  
 \heading . . . . . 3857  
 \headrulewidth . . . . 4069, 4125  
 \headsep . . . . . 1477, 3205  
 \headtoname . . . . . 3245  
 \height . . . . . 2678, 2679  
 \hfil 1769, 2218, 2219, 2220, 2221,  
 2253, 2254, 2255, 2261, 2262,  
 2263, 3179, 3180, 3182, 3183  
 \hline . . . 4518, 4843, 4844, 4847,  
 4848, 4868, 4869  
 \hrule 1692, 1808, 4401, 4407, 4454,  
 4460, 4505, 4545  
 \hrulefill 1689, 4083, 4088, 4102  
 \hsize 20, 37, 56, 82, 99, 118, 1494,  
 1513, 1532, 1552, 1570, 1585,  
 1603, 1706, 1723, 1742, 2079,  
 2095, 2120, 2121, 2319, 2329  
 \hskip 1689, 1768, 1808, 2220, 2221,  
 2263  
 \hspace . . 1681, 1682, 3836, 3854,  
 4083, 4089, 4101, 4103, 4281  
 \hss . . . . . 2107  
 \Huge . . . . . 3806, 3875, 3931  
 \huge . . . . . 3805  
 \Hy@AlphNoErr . . . . . 1648, 1650  
 \Hy@appendixstring . 1634, 1652  
 \Hy@backout . . . . . 175, 183



\Hy@chapapp . . . . .	1634, 1652	\if@filesw . . . . .	3151
\HyOrg@appendix . . . .	1629, 1635	\if@inlabel . . . . .	306
\HyOrg@resets@pp . . .	1645, 1653	\if@Kashida@on . . . .	1806, 1807
\hyper@natlinkbreak . .	2417, 2448	\if@LTRbibitems . . . .	1661
\hyper@natlinkstart . . .	183	\if@newlist 1460, 1480, 2339, 3161,	
\hyphenpenalty . . . . .	1678, 1760	3214	
I			
\if . . . . .	307,	\if@nonlatin . . . .	4786, 4787, 4788
	326, 2032, 2038, 2044, 2047,	\if@noskipsec . . . . .	305
	2050, 2053, 2056, 2059, 2062,	\if@pboxsw . . . . .	2109
	2093, 2100, 2101, 2102, 2103,	\if@RTL . . . . .	2, 3, 5, 7,
	2115, 2132, 2133, 2134, 2135,		169, 259, 303, 315, 328, 1598,
	2136, 2137, 2138, 2139, 2140,		1600, 1602, 1612, 1613, 1614,
	2141, 2155, 2156, 2157, 2158,		1615, 1616, 1617, 1618, 1619,
	2159, 2160, 2162, 2163, 2164,		1620, 1621, 1622, 1623, 1624,
	2165, 2166, 2169, 2170, 2171,		1625, 1626, 1627, 1661, 1677,
	2172, 2173, 2174, 2189, 2190,		1680, 1681, 1682, 1755, 1766,
	2191, 2192, 2193, 2194, 2196,		1767, 1842, 1843, 1965, 1966,
	2197, 2198, 2199, 2200, 2201,		1967, 1968, 1969, 1970, 1971,
	2202, 2205, 2206, 2207, 2208,		1972, 1973, 2093, 2115, 2892,
	2209, 2210, 2233, 2234, 2235,		2893, 2894, 2895, 2896, 2897,
	2236, 2237, 2238, 2240, 2241,		2898, 2899, 2900, 2901, 3228,
	2242, 2243, 2244, 2245, 2278,		3229, 3230, 3231, 3232, 3233,
	2279, 2280, 2281, 2282, 2283,		3234, 3235, 3236, 3237, 3238,
	2284, 2285, 2286, 2287, 2288,		3239, 3240, 3241, 3242, 3243,
	2289, 2290, 2291, 2293, 2294,		3244, 3245, 3246
	2295, 2296, 2297, 2300, 2301,	\if@RTL@footnote . .	16, 25, 78, 87,
	2302, 2303, 2304, 2305, 2400,		1445, 1489, 1500, 1548, 1549,
	2430, 2448, 2458, 2464, 2465,		1558, 1702, 1711
	2526, 2542, 2574, 2594, 2600,	\if@RTLBibitems . . . . .	1661
	2602, 2612, 2620, 2622, 2644,	\if@RTLmain . . . .	3187, 3200, 3210
	2674, 2675, 2676, 2677, 2678,	\if@RTLtab . . . . .	
	2679, 2680, 2681, 2682, 2683		2092, 2114, 2134, 2135, 2136,
\if@bidi@algorithmicloaded@ .			2137, 2157, 2158, 2159, 2160,
. . . . .	1852		2191, 2192, 2193, 2194, 2235,
\if@bidi@algorithmloaded@	1855		2236, 2237, 2238, 2280, 2281,
\if@bidi@backrefloaded@ .	1858		2282, 2283
\if@bidi@csprimitive . . . .	1874	\if@specialpage . . . . .	3170
\if@bidi@csundef . . . .	3220, 3473,	\if@tempswa . . . . .	2517
3519		\if@twocolumn . . . . .	1671
\if@bidi@enumerateloaded@	1861	\if@twoside . . . . .	2806, 3173
\if@bidi@tocloftloaded@ .	1864	\ifadl@usingarypkg . . . .	2179
\if@bidi@urlloaded@ . . . .	1867	\ifbidi@autofooterule	1548,
\if@chapter@pp . . . . .	134	1566, 1581	
\if@extrafootnotefeatures	3695	\ifBR@verbose . . . . .	172
		\ifcase . . . . .	2217, 2248, 2252, 2256,
			2260, 2399, 2429, 2522, 3248,



3257, 3285, 3348, 3354, 3357,	\ifwritexviii . 2956, 3633, 3645,
3360, 3364, 3386, 3453, 3458,	3657
3465, 3497, 3501, 3505, 3509,	\ifx . . . . . 1357, 1358,
3565, 3573, 3580, 3587, 3593,	1359, 1360, 1361, 1362, 1363,
3605, 3611, 3617, 3621, 3625,	1364, 1365, 1366, 1367, 1782,
3631, 3644, 3656, 3668, 5093	1814, 2009, 2012, 2096, 2316,
\ifdim . . . . . 336, 4015, 4500	2326, 2403, 2404, 2406, 2433,
\ifhmode . . . . . 2016	2434, 2436, 2505, 2523, 2583,
\ifinner . . . . . 2022	2632, 2671, 2784, 2786, 2787,
\ifmmode . . . . . 2104, 4579, 4603	2788, 2789, 2790, 2791, 2792,
\ifNAT@full . . . . . 2397, 2486	2793, 2794, 2795, 2796, 2797,
\ifNAT@longnames . . . 2393, 2482	2798, 2799, 2800, 2818, 2820,
\ifNAT@numbers . . . . 2346, 2553	2821, 2822, 2823, 2824, 2825,
\ifNAT@super . . . . . 2347	2826, 2827, 2828, 2829, 2830,
\ifNAT@swa 2399, 2464, 2488, 2540	2831, 2832, 2833, 2834, 2848,
\ifnum . . . . . 337, 1548,	2850, 2851, 2852, 2853, 2854,
1566, 1581, 1757, 2063, 2130,	2855, 2856, 2857, 2858, 2859,
2131, 2147, 2148, 2149, 2150,	2860, 2861, 2862, 2863, 2864,
2152, 2181, 2182, 2183, 2184,	2939, 2947, 3179, 3180, 3182,
2186, 2231, 2232, 2270, 2271,	3183, 4577, 4601, 4747, 4755,
2272, 2273, 2275, 2874, 2957,	4756, 4757, 4758, 4759, 4760,
3275, 3277, 3286, 3287, 3288,	4761, 4762, 4763, 4764, 4765,
3289, 3290, 3291, 3292, 3293,	4779, 4782, 4783, 4784, 4786,
3310, 3312, 3314, 3316, 3318,	4787, 4788
3323, 3334, 3335, 3337, 3339,	\ifXePersian@kabiseh 4932, 5037
3340, 3343, 3376, 3378, 3387,	\ifXePersian@leap . . 4932, 4981
3388, 3389, 3390, 3391, 3392,	\ifxetex . . . . . 4008, 4231, 4248
3393, 3394, 3411, 3413, 3415,	\ignorespaces . . . . . 25,
3417, 3419, 3424, 3435, 3436,	42, 61, 87, 104, 123, 213, 240,
3438, 3440, 3441, 3443, 3448,	340, 1500, 1519, 1538, 1558,
3475, 3477, 3479, 3481, 3483,	1576, 1591, 1711, 1728, 1747,
3485, 3499, 3503, 3507, 3510,	1789, 2321, 2331, 3070, 3079,
4412, 4486, 4532, 4557, 4580,	3088, 3097, 3106, 3115, 3826,
4604, 4971, 4975, 5003, 5009,	3879, 3889, 3894, 3902, 3907,
5030, 5057, 5061, 5066, 5070,	3913, 3921, 4181, 4207, 4356
5072, 5081	\image . . . . . 4003
\ifodd . . . 2033, 2039, 3174, 4964,	\immediate 3151, 3636, 3637, 3648,
4969	3649, 3660, 3661
\ifthenelse . . . . . 193, 198, 220,	\includegraphics . . . 4018, 4232,
225, 3755, 3767, 3776, 3880,	4249
3895, 3914, 3935, 4053, 4131,	\index . . . . . 1469, 3190
4132, 4162, 4194, 4208, 4228,	\indexEntryFormat . . 3824, 3826
4246, 4270, 4300, 4324, 4351,	\indexEntryPageFormat . . 3830,
4380, 4385, 4390, 4395, 4400,	3832
4433, 4438, 4443, 4448, 4453,	\indexEntryPageTxt . 3829, 3832
4850	\indexEntrySeparator 3828, 4356



`\indexFormat` . . . . . 3820, 3822  
`\indexitem` 4349, 4359, 4360, 4362  
`\indexname` . . . . . 3234  
`\init@restore@version` . . . 4586,  
4634  
`\innerAuthorFormat` . 3952, 4469  
`\innerPlaceFormat` . . 3953, 4469  
`\innerSubtitleFormat` 3942, 3943  
`\innerTextFinalMark` 3954, 4490  
`\innerTitleFormat` . . 3931, 3936,  
3937  
`\input` . . . . 1885, 1886, 1887, 1888,  
1889, 1890, 1891, 3523, 3524,  
3525, 3526, 3527, 3528, 3529,  
3530, 3531, 3532, 3533, 3534,  
3535, 3536, 3537, 3538, 3539,  
3540, 3541, 3542, 3543, 3544,  
3545, 3546, 3547, 3548, 3549,  
3550, 3551, 3552, 3553, 3554,  
3555, 3556, 3557, 3558, 3559,  
3560, 3561, 3562, 3563, 3618,  
3622, 3696, 3697  
`\insert` 15, 32, 51, 77, 94, 113, 1488,  
1507, 1526, 1701, 1718, 1737  
`\insert@column` . 2219, 2220, 2221,  
2222, 2224, 2225  
`\int` . 4661, 4669, 4677, 4685, 4693  
`\interfootnotelinepenalty` . 18,  
35, 54, 80, 97, 116, 1491, 1510,  
1529, 1704, 1721, 1740  
`\interlinepenalty` . . . 18, 35, 54,  
80, 97, 116, 1491, 1510, 1529,  
1704, 1721, 1740  
`\intermath@penalty` . . . . . 339  
`\iranicdefault` . 3035, 3047, 3113  
`\iranicfamily` . 3045, 3046, 3059  
`\isempty` . . . . . 193, 198, 220, 225  
`\item` 1675, 4876, 4877, 4878, 4879  
`\itemautorefname` . . . . . 1614  
`\itshape` . . . . . 4888  
  
J  
`\jobname` . 3637, 3638, 3649, 3650,  
3661, 3662

## K

`\KashidaOff` . . . . . 1839  
`\KashidaOn` . . . . . 1838, 1840  
`\kern` 214, 215, 241, 242, 1688, 1690,  
1691, 1692, 2351, 3227  
`\keyval@eq@alias@key` . 1877, 1881

## L

`\l` . . 2976, 2980, 2994, 3012, 3028  
`\label` 1468, 3189, 4485, 4531, 4555  
`\labelsep` . . . . . 1659, 1663  
`\labelwidth` . . . . . 1662, 1663  
`\LARGE` . . . 3804, 3891, 3955, 3958,  
3971, 3973  
`\Large` . . . 3803, 3910, 3960, 4087,  
4370, 4404  
`\large` 3802, 3814, 3820, 3900, 3919,  
3942, 3962, 3975, 3981, 4093  
`\LastFrameCommand` . . . . . 1601  
`\lastpenalty` . . . . . 337  
`\lastskip` . . . . . 336  
`\latin` . . . . . 3128  
`\LatinAlphs` . . . 3128, 3132, 3514  
`\Latincite` . . . . . 2549, 3144  
`\latinfont` . . . . . 25, 61,  
87, 123, 189, 202, 209, 247,  
1445, 1446, 1500, 1538, 1558,  
1591, 1711, 1747, 2988, 2991,  
2993, 3119, 3121, 3126, 3139,  
3681  
`\latintoday` . . . . . 3135  
`\lccode` . . . . . 2568, 2569, 2570  
`\leaders` . . . . . 1808  
`\leavevmode` . . . . . 305,  
306, 1694, 1768, 2090, 2112,  
2339, 3146, 3226  
`\left@footnoterule` . 1548, 1581,  
1691  
`\leftfootnoterule` . . . . . 3596  
`\leftmargin` . . . . . 1663  
`\leftskip` . . . . . 1766, 1767  
`\let` . . . . . 11, 73, 179, 180,  
191, 212, 218, 239, 245, 249,  
252, 256, 316, 318, 321, 322,  
323, 329, 334, 1365, 1366,  
1367, 1368, 1458, 1460, 1468,



1469, 1470, 1480, 1483, 1548, 1566, 1581, 1629, 1639, 1640, 1645, 1660, 1675, 1685, 1782, 1814, 1816, 2083, 2084, 2085, 2086, 2087, 2088, 2107, 2124, 2125, 2126, 2127, 2196, 2197, 2198, 2240, 2241, 2242, 2310, 2313, 2314, 2323, 2324, 2343, 2347, 2349, 2350, 2353, 2354, 2355, 2356, 2358, 2359, 2360, 2361, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2382, 2391, 2394, 2397, 2398, 2471, 2480, 2483, 2486, 2487, 2495, 2550, 2575, 2586, 2593, 2599, 2603, 2604, 2619, 2621, 2641, 2650, 2668, 2670, 2784, 2818, 2848, 2869, 2873, 3119, 3120, 3123, 3124, 3134, 3147, 3159, 3161, 3174, 3175, 3176, 3177, 3179, 3180, 3182, 3183, 3189, 3190, 3191, 3214, 3217, 3256, 3261, 3268, 3374, 3494, 3512, 3513, 3515, 3516, 3670, 3671, 3675, 3676, 3965, 3966, 3967, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 4575, 4591, 4617, 4700, 4805, 4894, 4895, 4896, 4897, 4901, 4902, 4903, 4904, 4916, 4917, 5090, 5091, 5092	
\lineskip . . . . .	1472, 3192, 3976
\lineskiplimit . . . . .	1473, 3192
\linespacing . . . . .	1754
\linewidth . . . . .	4842, 4846, 4861, 4921
\list . . . . .	1662
\listalgorithmname . . . . .	7
\listfigurename . . . . .	3231
\listtablename . . . . .	3232
\LoadClass . . . . .	3748
\logo . . . . .	4081, 4110
\long . . . . .	14, 31, 50, 76, 93, 112, 190, 217, 1488, 1507, 1526, 1547, 1565, 1580, 1700, 1717, 1736, 2089
\longdate . . . . .	4465
\loop . . . . .	5058, 5067
\lower . . . . .	3226
\lowercase . . . . .	2571
\lr . . . . .	1639, 2382, 2471, 3126, 3135, 3148, 3808, 3863, 4255
\LRE . . . . .	3126
\lstlistingname . . . . .	1842
\lstlistlistingname . . . . .	1843
\LTR . . . . .	3128
\LTRbidityftesidenotemarginpar . . . . .	247
\LTRfoottextfont . . . . .	1446
\LTRmarginnote . . . . .	244
\ltx@ifUndefined . . . . .	1631, 1643, 1647
M	
\m@ne . . . . .	2499, 4582, 4606
\m@th . . . . .	2109
\makeform . . . . .	4898, 4905
\makeform@correction . . . . .	4813, 4905
\makeform@nocorrection . . . . .	4810, 4898
\MakeFramed . . . . .	1603
\makemask . . . . .	4899, 4906
\makemask@correction . . . . .	4818, 4906
\makemask@nocorrection . . . . .	4815, 4899
\maketitle . . . . .	1777, 3964, 3988
\MakeUppercase . . . . .	1792, 3930
\makezwjletter . . . . .	1872, 1873
\markboth . . . . .	1791
\math@bgroup . . . . .	4577, 4601
\math@fonts . . . . .	4584, 4608
\math@version . . . . .	. . . . . 4580, 4583, 4588, 4589, 4593, 4604, 4607, 4611, 4613, 4615, 4619
\mathalpha . . . . .	4712, 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4720, 4721
\mathbf . . . . .	4654, 4724
\mathbin . . . . .	4722
\mathchar@type . . . . .	4641, 4650, 4652
\mathchardef . . . . .	4750
\mathcode . . . . .	4662, 4670, 4678, 4686, 4694, 4778
\mathgroup . . . . .	4574



<code>\mathiranic</code>	3046	<code>\NAT@aysep</code>	2418
<code>\mathit</code>	4655, 4725	<code>\NAT@biblabel</code>	2369
<code>\mathnavar</code>	3049	<code>\NAT@biblabelnum</code>	2360
<code>\mathord</code>	4723	<code>\NAT@bibsetnum</code>	2361
<code>\mathpersiansf</code>	3040	<code>\NAT@bibsetup</code>	2370
<code>\mathpersiantt</code>	3043	<code>\NAT@cite</code>	2366
<code>\mathpook</code>	3052	<code>\NAT@cite@list</code>	2383, 2472
<code>\mathrm</code>	4656, 4726	<code>\NAT@citea@mbbox</code>	2517
<code>\mathsayeh</code>	3055	<code>\NAT@citenum</code>	2354
<code>\mathsf</code>	4657, 4735	<code>\NAT@citesuper</code>	2347
<code>\mathsurround</code>	333	<code>\NAT@citeundefined</code>	2388, 2478
<code>\mathtt</code>	4658, 4744	<code>\NAT@citex</code>	2367
<code>\mbox</code>	2353	<code>\NAT@citexnum</code>	2358
<code>\meaning</code>	2942, 2945	<code>\NAT@close</code>	2362, 2373
<code>\MessageBreak</code>		<code>\NAT@cmprs</code>	2493, 2539
	2408, 2409, 2438, 2439, 3520, 4153, 4185, 4219, 4239, 4260, 4263, 4285, 4310, 4336, 4359, 4362, 4854	<code>\NAT@cmt</code>	2464, 2542
<code>\MidFrameCommand</code>	1599	<code>\NAT@ctype</code>	2399, 2429, 2489, 2491, 2522, 2530, 2532, 2541, 2550
<code>\minilogo</code>	4092, 4306	<code>\NAT@date</code>	2373, 2390, 2400, 2401, 2412, 2420, 2425, 2430, 2443, 2450, 2455, 2458, 2465
<code>\minraggedcols</code>	3731, 3732, 3770, 3774, 4412, 4486, 4532, 4557	<code>\NAT@def@citea</code>	2427, 2459, 2520
<code>\mlfttitle</code>	1969	<code>\NAT@def@citea@box</code>	2528
<code>\mltttitle</code>	1970	<code>\NAT@def@citea@close</code>	2461
<code>\month</code>	4958	<code>\NAT@exlab</code>	2406, 2410, 2436, 2440
<code>\moveright</code>	1474, 3195	<code>\NAT@fullfalse</code>	2551
<code>\mtctitle</code>	1968	<code>\NAT@fulltrue</code>	2551
<code>\multido</code>	4054, 4060	<code>\NAT@hyper@</code>	2401, 2410, 2412, 2415, 2424, 2425, 2426, 2431, 2440, 2443, 2446, 2454, 2455, 2456, 2491, 2527
<code>\multiplefootnotemarker</code>	214, 215, 241, 242	<code>\NAT@hyper@citea@space</code>	2530, 2532, 2534
<code>\multiply</code>	2069, 4961, 4974, 5001, 5007, 5024, 5028	<code>\NAT@idtxt</code>	2362, 2373
<code>\mylogo</code>	4097	<code>\NAT@ifcat@num</code>	2494, 2497
<b>N</b>		<code>\NAT@last@nm</code>	2391, 2403, 2433, 2480, 2523
<code>\n</code>	4752, 4755, 4756, 4757, 4758, 4759, 4760, 4761, 4762, 4763, 4764, 4765	<code>\NAT@last@num</code>	2480, 2497, 2498, 2516
<code>\NAT@close</code>	2465, 2544	<code>\NAT@last@yr</code>	2391, 2404, 2434, 2471, 2505, 2539
<code>\NAT@Latin@citetp</code>	2552, 2556, 2557, 2558	<code>\NAT@last@yr@mbbox</code>	2501, 2511
<code>\NAT@open</code>	2448, 2524	<code>\NAT@Latin@cites</code>	2551, 2552
<code>\NAT@alias</code>	2426, 2456, 2491, 2534	<code>\NAT@Latin@citex</code>	2368, 2376, 2377
<code>\NAT@all@names</code>	2394, 2397, 2483, 2486		



<code>\NAT@Latin@citexnum</code>	2359, 2466, 2467	<code>\new@mathsf</code>	4683, 4735
<code>\NAT@mbox</code>	2348, 2353, 2524, 2527, 2544	<code>\new@mathtt</code>	4691, 4744
<code>\NAT@merge</code>	2501, 2516	<code>\new@mathversion</code>	4635
<code>\NAT@name</code>	2362, 2373, 2394, 2398, 2483, 2487	<code>\new@symbolfont</code>	4636
<code>\NAT@nm</code>	2382, 2391, 2397, 2398, 2401, 2403, 2416, 2424, 2431, 2433, 2447, 2454, 2471, 2480, 2486, 2487, 2495, 2496, 2500, 2504, 2523	<code>\newboolean</code>	3713, 3715, 3717, 3719, 3721, 3723, 3725
<code>\NAT@nmfmt</code>	2401, 2416, 2424, 2431, 2447, 2454	<code>\newcolumnntype</code>	4806, 4807
<code>\NAT@num</code>	2362, 2471, 2480, 2494, 2495, 2516, 2527	<code>\newcommand</code>	1838, 1839, 1872, 1874, 1875, 1877, 1881, 2376, 2466, 2552, 2557, 2880, 3033, 3034, 3035, 3036, 3037, 3038, 3219, 3262, 3265, 3368, 3371, 3710, 3765, 3809, 3810, 3813, 3814, 3815, 3820, 3821, 3824, 3825, 3828, 3829, 3830, 3831, 3834, 3835, 3839, 3840, 3843, 3844, 3845, 3846, 3849, 3852, 3857, 3862, 3865, 3867, 3870, 3875, 3876, 3887, 3888, 3891, 3892, 3900, 3901, 3904, 3905, 3910, 3911, 3919, 3920, 3922, 3923, 3924, 3925, 3928, 3929, 3931, 3932, 3942, 3943, 3944, 3945, 3946, 3947, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3998, 4003, 4035, 4067, 4081, 4092, 4097, 4105, 4129, 4160, 4192, 4226, 4245, 4349, 4367, 4374, 4416, 4424, 4467, 4473, 4493, 4510, 4539, 4564, 4648, 4649, 4651, 4747, 4748, 4802, 4804, 4810, 4813, 4815, 4818, 4822, 4824, 4826, 4874, 4875, 4880, 4884, 4889, 4908, 4910, 5086
<code>\NAT@open</code>	2362, 2373	<code>\newcount</code>	3727, 3728, 3731, 4033, 4034, 4933, 4934, 4935, 4936, 4937, 4938, 4939, 4940, 4941, 4942, 4943, 4944, 4945, 4946, 4948, 4949, 4950, 4951, 4952, 4953, 4954, 4955
<code>\NAT@parse</code>	2392, 2481	<code>\newcounter</code>	4827, 4828
<code>\NAT@partrue</code>	2550	<code>\newdimen</code>	4031, 4032
<code>\NAT@penalty</code>	2364, 2372, 2508, 2523	<code>\NewDocumentCommand</code>	4659, 4667, 4675, 4683, 4691
<code>\NAT@reset@citea</code>	2381, 2470		
<code>\NAT@reset@parser</code>	2379, 2468		
<code>\NAT@set@cites</code>	2345, 2548		
<code>\NAT@sort@cites</code>	2380, 2469		
<code>\NAT@space</code>	2350, 2355, 2371, 2523		
<code>\NAT@spacechar</code>	2355, 2362, 2371, 2373, 2411, 2418, 2442, 2448, 2524, 2526		
<code>\NAT@super@kern</code>	2351, 2356, 2524		
<code>\NAT@swafalse</code>	2554		
<code>\NAT@swattrue</code>	2550		
<code>\NAT@temp</code>	2405, 2406, 2435, 2436		
<code>\NAT@test</code>	2491, 2524, 2530, 2532		
<code>\NAT@year</code>	2382, 2391, 2404, 2434		
<code>\NAT@yrsep</code>	2403, 2433, 2523		
<code>\natexlab</code>	2363, 2374		
<code>\navardefault</code>	3036, 3050, 3086		
<code>\navarfamily</code>	3048, 3049, 3060		
<code>\NeedsTeXFormat</code>	2902, 3702, 4571, 4792, 4929		
<code>\new@mathalphabet</code>	4637		
<code>\new@mathbf</code>	4659, 4724		
<code>\new@mathgroup</code>	4574, 4575, 4630		
<code>\new@mathit</code>	4667, 4725		
<code>\new@mathrm</code>	4675, 4726		





`\newenvironment` . . . . . 100, 119, 1707, 1724, 1743  
. . . 1657, 1875, 2562, 2563,  
3132, 3133, 4000, 4106, 4268,  
4298, 4322, 4476, 4525, 4551,  
4856, 4890  
`\newfam` . . . . . 4575  
`\newfontface` . . . . . 2870  
`\newfontlanguage` . . . . . 2963  
`\newfontscript` . . . . . 2962  
`\newif` . . . . . 1806, 2956, 4932  
`\newlength` 3705, 3706, 3707, 3708,  
3709, 3711, 4820, 4911, 4913  
`\newmathalphabet` . . . . . 4631  
`\newmathalphabet@@` . . . . . 4631  
`\newmathalphabet@@@` . . . . . 4631  
`\newpage` . 3635, 3647, 3659, 4116  
`\newsavebox` . . . . . 3999  
`\newsection` . . . . . 4473  
`\next` . . . . . 1814, 1816,  
1817, 2575, 2576, 2577, 2581,  
2583, 2586, 2590, 2591, 2593,  
2599, 2604, 2608, 2610, 2619,  
2621, 2627, 2630, 2634, 2641,  
2643  
`\nobreak` . . 1768, 1770, 1807, 2348  
`\noexpand` 1458, 2574, 2594, 2600,  
2602, 2612, 2620, 2622, 2634,  
2635, 2644, 3159, 4587  
`\nohyphens` 3881, 3896, 3915, 3936  
`\noindent` . . . . . 247,  
254, 3826, 3841, 3879, 3889,  
3894, 3902, 3907, 3913, 3921,  
3926, 3930, 3934, 4083, 4100,  
4181, 4207, 4232, 4279, 4356,  
4370, 4404, 4419, 4457, 4514,  
4542, 4567, 4569  
`\non@alpherr` . . . . . 4596, 4622  
`\nopagebreak` . . . . . 4922  
`\normalcolor` . . 2077, 2318, 2328,  
3199, 3209  
`\normalfont` . . 17, 34, 53, 79, 96,  
115, 1659, 1695, 1703, 1720,  
1739, 1755, 2981, 3069, 3078,  
3087, 3096, 3105, 3114, 3119,  
3120, 3123, 3124  
`\normalparindent` . 21, 38, 57, 83,  
1467, 3188  
`\normalsize` 1467, 3140, 3186, 3777,  
3778, 3824, 4419, 4457  
`\NOT` . . . . . 193, 220  
`\not` . . . . . 4834  
`\not@math@alphabet` . 3040, 3043,  
3046, 3049, 3052, 3055  
`\null` . . . . . 3968, 3984  
`\number` . . 1762, 3275, 3277, 3278,  
3376, 3378, 3379, 3479, 3481,  
3483, 3485, 4588, 4612, 5087,  
5088  
`\numexpr` . 4662, 4670, 4678, 4686,  
4694  

**O**

`\obeyspaces` . . . . . 4752  
`\oddsidemargin` . . . . . 3175  
`\old@endquestion` . . . 4917, 4925  
`\old@question` . . . . . 4916, 4923  
`\or` . 2219, 2220, 2221, 2223, 2224,  
2248, 2249, 2250, 2254, 2255,  
2256, 2257, 2258, 2262, 2263,  
2424, 2425, 2426, 2454, 2455,  
2456, 2529, 2531, 2533, 3248,  
3249, 3250, 3251, 3252, 3253,  
3257, 3258, 3259, 3296, 3297,  
3298, 3299, 3300, 3301, 3302,  
3303, 3304, 3305, 3309, 3348,  
3349, 3350, 3351, 3354, 3357,  
3360, 3361, 3364, 3365, 3366,  
3397, 3398, 3399, 3400, 3401,  
3402, 3403, 3404, 3405, 3406,  
3410, 3453, 3454, 3455, 3458,  
3459, 3460, 3461, 3462, 3465,  
3466, 3467, 3468, 3497, 3498,  
3501, 3502, 3505, 3506, 3509,  
3567, 3569, 3575, 3582, 3589,  
3595, 3597, 3599, 3601, 3607,  
3613, 3627, 3673, 5093, 5094,  
5095, 5096, 5097, 5098, 5099  
`\orig` 4654, 4655, 4656, 4657, 4658,  
4660, 4668, 4676, 4684, 4692  
`\originaltoday` . . . . . 3134, 3135  
`\Ovalbox` . . . . . 4396, 4449



`\ovalbox` ..... 4391, 4444  
`\overline` ..... 4765  
  
**P**  
`\p@` ... 1672, 1676, 1688, 1690, 1691,  
1692, 2351, 3969  
`\p@enumiv` ..... 1660  
`\PackageError` .. 1853, 1856, 1859,  
1862, 1865, 1868, 3221, 3270,  
3520, 3634, 3640, 3646, 3652,  
3658, 3664  
`\PackageInfo` ..... 173, 185, 4648  
`\PackageWarning` 2389, 2478, 3471,  
3632  
`\PackageWarningNoLine` ... 2406,  
2436  
`\page@free` ..... 4013, 4015  
`\pageautorefname` ..... 1627  
`\pagegoal` ..... 4495  
`\pagename` ..... 3244  
`\pagenumbering` 69, 265, 276, 294,  
1436, 1953, 2807  
`\pageref` ..... 3854, 4352  
`\pagesFormat` ..... 3928, 3930  
`\pagestyle` ..... 4071  
`\pagetotal` ..... 4496  
`\par` ..... 10, 25, 42,  
61, 71, 87, 104, 123, 130, 146,  
152, 158, 164, 266, 277, 284,  
296, 954, 1428, 1438, 1450,  
1680, 1681, 1682, 1684, 1711,  
1728, 1747, 1759, 1769, 1777,  
1957, 2747, 2754, 2761, 2769,  
2777, 2810, 2840, 3971, 3973,  
3979, 3981, 3982, 4471, 4556,  
4862, 4922  
`\paragraphautorefname` ... 1623  
`\parallel` ..... 3836  
`\parbox` ..... 4861, 4921  
`\parfillskip` ..... 1767  
`\parindent` 21, 38, 57, 83, 100, 119,  
1676, 1707, 1724, 1743, 1766  
`\parskip` ..... 1676  
`\part` ..... 1753  
`\partautorefname` ..... 1617  
`\partname` ..... 3237  
  
`\PassOptionsToClass` 3733, 3734,  
3735  
`\pbs` ..... 4805, 4806  
`\pdfstringdefDisableCommands` .  
..... 1638  
`\penalty` ... 333, 339, 2364, 3149  
`\persian` ..... 3130  
`\PersianAlphs` .. 3130, 3133, 3669,  
3674, 3701  
`\persianday` ..... 5092  
`\persianfont` 42, 104, 229, 236, 254,  
1447, 1519, 1576, 1728, 2970,  
2973, 2975, 3123, 3125, 3127  
`\PersianMathsDigits` 3570, 4781  
`\persianmathsdigits` 4711, 4782,  
4786  
`\persianmathsfdigits` 4735, 4783,  
4787  
`\persianmathttdigits` 4744, 4784,  
4788  
`\persianmonth` ..... 5091  
`\persiansfdefault` .. 3033, 3041,  
3068  
`\persiansffamily` .. 3039, 3040,  
3057  
`\persiantoday` ..... 3136, 5086  
`\persianttdefault` .. 3034, 3044,  
3077  
`\persianttfamily` ... 3042, 3043,  
3058  
`\persianyear` ..... 5090  
`\pictureCaptionFormat` ... 3924,  
3926  
`\plftitle` ..... 1966  
`\plq` ..... 2936  
`\plttitle` ..... 1967  
`\pookdefault` .. 3037, 3053, 3095  
`\pookfamily` ... 3051, 3052, 3061  
`\postmath` ..... 339  
`\PrefixCurrentTab` ..... 2880  
`\premath` ..... 335  
`\prepnext@tok` ..... 2216, 2226  
`\printindex` .. 3635, 3647, 3659  
`\process@table` ..... 4634  
`\ProcessOptions` .... 3747, 4928  
`\ProcessOptionsX` ..... 3693



<code>\proofname</code> . . . . .	3246	<code>\raggedright</code> . . . . .	1677, 1755
<code>\protect</code> . . . . .	1458,	<code>\raise</code> . . . . .	1695
	3159, 4153, 4154, 4156, 4185,	<code>\raisebox</code> . . . . .	3811, 3816
	4186, 4188, 4219, 4220, 4222,	<code>\refname</code> . . . . .	259, 3235
	4239, 4240, 4242, 4260, 4261,	<code>\refstepcounter</code> . . . .	4878, 4879
	4263, 4359, 4360, 4362, 4811,	<code>\relax</code> 206, 215, 233, 242, 1659, 1676,	
	4814, 4816, 4819, 4837, 4842,		1689, 1756, 1762, 1764, 1766,
	4843, 4844, 4846, 4847, 4848,		1768, 1872, 2064, 2096, 2231,
	4868, 4869		2232, 2253, 2254, 2255, 2316,
<code>\protected@edef</code> . . . . .	22, 39,		2326, 2350, 2356, 2400, 2430,
	58, 84, 101, 120, 1495, 1514,		2458, 2465, 2471, 2498, 2505,
	1533, 1554, 1572, 1587, 1708,		2516, 2671, 2784, 2818, 2848,
	1725, 1744		2869, 2874, 2939, 2957, 3565,
<code>\protected@xdef</code> . . . . .	201, 228		3573, 3580, 3587, 3593, 3605,
<code>\providecommand</code> . . . . .	3470		3611, 3617, 3621, 3625, 3631,
<code>\ProvidesClass</code> . . . . .	3703		3644, 3656, 3668, 3747, 3966,
<code>\ProvidesFile</code> . . . . .	1, 4, 8, 68, 129,		3987, 3988, 3993, 3994, 3995,
	144, 150, 156, 162, 168, 188,		3996, 4577, 4591, 4601, 4617,
	258, 260, 271, 282, 290, 302,		4650, 4652, 4662, 4670, 4678,
	342, 1295, 1355, 1372, 1415,		4686, 4694, 4700, 4778, 4960,
	1426, 1432, 1444, 1448, 1455,		4961, 4963, 4968, 4973, 4974,
	1484, 1593, 1607, 1611, 1656,		4980, 4982, 4984, 4986, 4987,
	1798, 1841, 1844, 1871, 1951,		4988, 4989, 4990, 4991, 4992,
	1964, 1974, 2344, 2745, 2752,		4993, 4994, 4995, 4996, 4998,
	2759, 2767, 2775, 2804, 2838,		5000, 5001, 5006, 5007, 5014,
	2868, 2871, 2891		5016, 5019, 5023, 5024, 5027,
<code>\ProvidesPackage</code> . . . .	2905, 4572,		5028, 5031, 5036, 5038, 5040,
	4793, 4930		5042, 5043, 5044, 5045, 5046,
<code>\prq</code> . . . . .	2935		5047, 5048, 5049, 5050, 5051,
<code>\ptctitle</code> . . . . .	1965		5052, 5053, 5055, 5056, 5059,
			5064, 5068, 5074, 5076, 5077
<b>Q</b>		<code>\renewcommand</code> . . . . .	9,
<code>\question</code> . . . . .	4916		70, 130, 136, 137, 140, 145,
<code>\questionsep</code> . . . . .	4913, 4914,		146, 151, 152, 157, 158, 163,
	4926		164, 244, 251, 261, 262, 266,
<code>\questionspace</code> . . . . .	4820, 4821, 4862		272, 273, 277, 283, 284, 291,
<code>\questiontitle</code> . . . . .	4908, 4927		295, 296, 1427, 1428, 1433,
<code>\questiontitlefont</code> . . . . .	4910		1437, 1438, 1445, 1446, 1447,
<code>\questiontitlespace</code> . . . .	4911, 4912,		1449, 1450, 1660, 1683, 1773,
	4922		1774, 1775, 1776, 1952, 1954,
<b>R</b>			1955, 1956, 1957, 2345, 2362,
<code>\raggedFormat</code> . . . . .	3765, 4413, 4487,		2373, 2746, 2747, 2753, 2754,
	4533, 4558		2760, 2761, 2768, 2769, 2776,
<code>\RaggedLeft</code> . . . . .	3765		2777, 2783, 2805, 2809, 2810,
<code>\raggedleft</code> . . . . .	1677, 1755		2817, 2839, 2840, 2847, 2872,
			2892, 2893, 2894, 2895, 2896,



2897, 2898, 2899, 2900, 2901,  
 3635, 3647, 3659, 3777, 3784,  
 3786, 3788, 3795, 3802, 3803,  
 3804, 3805, 3806, 3858, 3859,  
 3860, 3871, 3872, 3873, 3964,  
 4069, 4105, 4125, 4464, 4474,  
 4479, 4809  
 \renewenvironment . . . 1594, 4918  
 \repeat . . . . . 5061, 5070  
 \RequirePackage . . . . .  
 . . . 2907, 2908, 2909, 2910,  
 3704, 3749, 3750, 3751, 3752,  
 3753, 3754, 3756, 3758, 3760,  
 3761, 3762, 3763, 3764, 4795,  
 4796, 4797, 4798, 4799, 4800  
 \reserved@a . . . . .  
 . . . 2028, 2032, 2038, 2044,  
 2047, 2050, 2053, 2056, 2059,  
 2062  
 \reserved@b . . . . . 2008, 2009  
 \reset@font 1467, 1490, 1509, 1528,  
 1551, 1569, 1584, 2388, 2477,  
 3120, 3124, 3138, 3152, 3185  
 \reset@latinfont 3118, 3128, 3132,  
 3187  
 \restore@mathversion . . . . 4634  
 \restoreapp . . . . . 142  
 \right@footnoterule 1548, 1566,  
 1687  
 \rightfootnoterule . . . . . 3598  
 \rightline . . . . . 4468  
 \rightskip . . . . . 1766, 1767  
 \rl . . . . . 1640, 3127, 3136  
 \RLE . . . . . 3127  
 \rmdefault . . . . . 2980  
 \Roman . . . . 1363, 2791, 2825, 2855  
 \roman . . . . 1362, 2792, 2826, 2856  
 \romannumeral . . 2800, 2834, 2864,  
 5060, 5069, 5079  
 \RTL . . . . . 3130  
 \RTLbidituftesidenotemarginpar  
 . . . . . 254  
 \RTLfoottextfont . . . . . 1447  
 \RTLmarginnote . . . . . 251  
 \rule 25, 42, 61, 87, 104, 123, 1500,  
 1519, 1538, 1558, 1576, 1591,  
 1711, 1728, 1747, 3828, 3954,  
 4056, 4062, 4149, 4181

## S

\sayehdefault . . . 3038, 3056, 3104  
 \sayehfamily . . . 3054, 3055, 3062  
 \scriptsize . . . . . 3786  
 \secondarticle . . 4160, 4185, 4186,  
 4188  
 \secondSubtitleFormat . . . 3900,  
 3902  
 \secondTextFormat . . 3904, 3907  
 \secondTitleFormat . . 3891, 3896,  
 3897  
 \section . . . . . 3222  
 \sectionautorefname . . . . 1620  
 \sectionname . . . . . 11, 1685  
 \select@group . . . . . 4576  
 \selectfont 2977, 2995, 3013, 3029,  
 3041, 3044, 3047, 3050, 3053,  
 3056  
 \set@mathdelim�ter . . . . . 4641  
 \set@mathaccent . . . . . 4638  
 \set@mathchar . . . . . 4638  
 \set@mathdelim�ter . . . . . 4640  
 \set@mathsymbol . . . . . 4639  
 \set@typeset@protect 1462, 1466,  
 3165, 3167  
 \setboolean . . . . . 2881, 2882,  
 3714, 3716, 3718, 3720, 3722,  
 3724, 3726, 3742, 3743, 3745,  
 3746, 4108, 4126, 4271, 4296,  
 4325, 4347  
 \setbox . . . . . 317, 1549, 1567,  
 1582, 2075, 2118, 2222, 2224,  
 2225, 2315, 2318, 2325, 2328,  
 3196  
 \setclass . . . 1810, 1820, 1821, 1822,  
 1823, 1824, 1825, 1826, 1827  
 \setcounter . . . . . 133, 135, 139,  
 147, 148, 153, 154, 159, 160,  
 165, 166, 267, 268, 278, 279,  
 285, 286, 297, 298, 1429,  
 1430, 1439, 1440, 1451, 1452,  
 1482, 1958, 1959, 2748, 2749,  
 2755, 2756, 2762, 2763, 2770,



2771, 2778, 2779, 2811, 2812,  
 2841, 2842, 2875, 2879, 2883,  
 2884, 2885, 2886, 2887, 2888,  
 2889, 3986, 4831  
 \setdigitfont ..... 4699  
 \setiraniconfont ..... 3108  
 \setkeys ..... 308, 325  
 \setlatinmonofont ..... 3000  
 \setlatinsansfont ..... 2999  
 \setlatintextfont .. 2983, 3700  
 \setlength .... 2094, 2097, 2116,  
 3712, 3744, 3779, 3780, 3781,  
 3782, 3790, 3791, 3792, 3793,  
 3797, 3798, 3799, 3800, 4005,  
 4009, 4050, 4051, 4068, 4073,  
 4074, 4198, 4230, 4302, 4327,  
 4330, 4378, 4379, 4427, 4428,  
 4494, 4495, 4511, 4821, 4912,  
 4914  
 \setLTRcitationfont ..... 189  
 \SetMathAlphabet ..... 4637  
 \SetMathAlphabet@ ..... 4637  
 \SetMathCharDef .... 4651, 4723  
 \SetMathCode ... 4649, 4712, 4713,  
 4714, 4715, 4716, 4717, 4718,  
 4719, 4720, 4721, 4722  
 \SetMathsDigits 4780, 4781, 4785,  
 4790, 4791  
 \setmathsfdigitfont ..... 4728  
 \setmathsttdigitfont ..... 4737  
 \setmonofont ..... 3000  
 \setnavarfont ..... 3081  
 \setpersianfont 3122, 3130, 3133,  
 3187  
 \setpersianmonofont ..... 3072  
 \setpersiansansfont ..... 3063  
 \setpookfont ..... 3090  
 \setsansfont ..... 2999  
 \setsayehfont ..... 3099  
 \SetSymbolFont ..... 4636  
 \SetSymbolFont@ ..... 4636  
 \setttextfont ..... 2965, 3521  
 \setthesection ..... 1954  
 \settowidth ..... 1662  
 \sf@size ..... 1695  
 \sfcode ..... 1666  
 \sffamily ..... 3809  
 \shadowbox ..... 4381, 4434  
 \shadowsize ... 4379, 4428, 4432  
 \shipout ..... 1462, 3164  
 \shortarticleitem ..... 4564  
 \shortarticleItemTitleFormat .  
 ..... 3962, 3963  
 \shortarticleSubtitleFormat .  
 ..... 3960, 3961  
 \shortarticleTitleFormat 3958,  
 3959  
 \shortauthors .. 1782, 1783, 1788  
 \shorttitle ... 1781, 1782, 1788  
 \sixt@n ..... 2027, 2064  
 \slftitle ..... 1972  
 \sloppy ... 21, 38, 57, 83, 100, 119,  
 1665, 1707, 1724, 1743  
 \sltttitle ..... 1973  
 \small 3223, 3788, 3789, 3843, 3847,  
 3853, 3924, 3946, 3965  
 \smash ..... 3226  
 \SOUL@tt ..... 2869, 2870  
 \space 2390, 2479, 2905, 3155, 3477,  
 4012, 4013, 4153, 4154, 4156,  
 4185, 4186, 4188, 4219, 4220,  
 4222, 4239, 4240, 4242, 4260,  
 4261, 4263, 4359, 4360, 4362,  
 4469, 4852, 5087, 5088  
 \SplitFootnoteRule ..... 3600  
 \splitmaxdepth ..... 19, 36, 55,  
 81, 98, 117, 1493, 1512, 1531,  
 1705, 1722, 1741  
 \splittopskip ..... 19, 36, 55,  
 81, 98, 117, 1492, 1511, 1530,  
 1705, 1722, 1741  
 \stctitle ..... 1971  
 \stepcounter ..... 132, 200,  
 227, 1481, 2877, 3216, 4827,  
 4840, 4871  
 \string 173, 2153, 2187, 2276, 2645,  
 3151  
 \strut 25, 42, 61, 87, 104, 123, 1711,  
 1728, 1747  
 \strutbox ..... 19, 36, 55,  
 81, 98, 117, 1493, 1500, 1512,  
 1519, 1531, 1538, 1558, 1576,



1591, 1705, 1722, 1741  
`\subitem` ..... 1681  
`\subparagraphautorefname` 1624  
`\subsectionautorefname` ... 1621  
`\subsubitem` ..... 1682  
`\subsubsectionautorefname` 1622  
`\symnew@mathbf@font@digits` ..  
..... 4662  
`\symnew@mathit@font@digits` ..  
..... 4670  
`\symnew@mathrm@font@digits` ..  
..... 4678  
`\symnew@mathsf@font@digits` ..  
..... 4686  
`\symnew@mathtt@font@digits` ..  
..... 4694

## T

`\tableautorefname` ..... 1616  
`\tablename` ..... 3229  
`\tabularxcolumn` ..... 4809  
`\tartibi` . 1359, 2788, 2822, 2852,  
3368  
`\tartibinumeral` ..... 3374  
`\test` ..... 1813, 1814, 1815  
`\textbf` 2, 3, 1596, 1598, 1600, 1602,  
4370, 4404, 4419, 4457  
`\textblockorigin` ..... 4030  
`\textdegree` ..... 3844  
`\textheight` ... 3215, 4037, 4062  
`\textiranica` ..... 3059  
`\textit` ..... 3955  
`\textnavar` ..... 3060  
`\textpersiansf` ..... 3057  
`\textpersiantt` ..... 3058  
`\textpook` ..... 3061  
`\textsayah` ..... 3062  
`\textsc` ..... 3957  
`\textsuperscript` ..... 2348  
`\texttt` ..... 3814  
`\textwidth` 2121, 3200, 3210, 4036,  
4056, 4368, 4858  
`\textwidthfootnoterule` .. 3602  
`\thanks` ..... 3967, 3987  
`\the` ..... 304, 309,  
1791, 1792, 1808, 2098, 2596,

2601, 2607, 2614, 2624, 2638,  
2933, 4012, 4013, 4498, 4790,  
4791, 5060, 5069, 5079  
`\the@choice` ..... 4830, 4852  
`\thebook` ..... 1955  
`\thechapter` ..... 74,  
137, 270, 281, 288, 300, 1442,  
1454, 1954, 1961, 2751, 2758,  
2765, 2773, 2814, 2844  
`\theclass` ..... 1810, 1815  
`\theenumiv` ..... 1660, 1662  
`\theHchapter` ..... 1633, 1650  
`\theHsection` ..... 1632, 1648  
`\theindex` ..... 1671  
`\thempfn` 201, 207, 228, 234, 2123  
`\thempfootnote` ..... 2123  
`\theoremautorefname` .... 1626  
`\thepage` . 2390, 2407, 2437, 2479,  
3155, 3854  
`\theparagraph` ..... 1775, 1776  
`\thepart` 9, 70, 145, 151, 157, 163, 261,  
272, 283, 295, 1427, 1437,  
1449, 1683, 1956, 2746, 2753,  
2760, 2768, 2776, 2809, 2839  
`\thequestion` ... 4851, 4891, 4927  
`\thesection` 12, 140, 149, 155, 161,  
167, 1431, 1686, 1773, 2780  
`\thesubparagraph` ..... 1776  
`\thesubsection` ..... 1773, 1774  
`\thesubsubsection` .. 1774, 1775  
`\thirdarticle` .. 4192, 4219, 4220,  
4222  
`\thirdSubtitleFormat` 3919, 3921  
`\thirdTextFormat` ... 3922, 3923  
`\thirdTitleFormat` .. 3910, 3915,  
3916  
`\thispagestyle` . 1674, 1780, 4109,  
4114  
`\thr@@` 2150, 2169, 2170, 2184, 2205,  
2206, 2232, 2244, 2245, 2273,  
2300, 2301  
`\timestamp` 3947, 4144, 4174, 4210  
`\timestampFormat` ... 3946, 3948  
`\timestampSeparator` 3945, 3950  
`\timestampTxt` ..... 3944, 3949  
`\tiny` ..... 3784



`\title` ..... 3993  
`\TitleBarFrame` . 1596, 1598, 1600,  
                   1602  
`\tl` ..... 4628, 4645  
`\tmp` ..... 4805  
`\today` ..... 3134, 3136, 4465  
`\toks` ..... 1789, 1791  
`\toks@` ..... 1788, 1792  
`\topmargin` ..... 1474, 3194  
`\TPHorizModule` .... 3825, 4050,  
                   4149, 4181, 4232, 4279, 4280,  
                   4303, 4304, 4327  
`\TPVertModule` ..... 4051  
`\true` ..... 4880  
`\truesymbol` ..... 4874  
`\tw@` . 2045, 2048, 2130, 2136, 2137,  
           2139, 2149, 2159, 2160, 2183,  
           2193, 2194, 2231, 2237, 2238,  
           2243, 2272, 2282, 2283, 2491  
`\twocolumnstableofcontents` 3219  
`\typeout` ..... 2932, 2934, 3998

## U

`\Umathchardef` ..... 4652  
`\Umathcode` ..... 4650  
`\undefined` 1985, 4747, 4779, 4782,  
           4783, 4784, 4786, 4787, 4788  
`\unhbox` ..... 2107  
`\unpenalty` ..... 339  
`\unrestored@protected@xdef` 207,  
           234  
`\unskip` ..... 25, 42, 61,  
           87, 104, 123, 213, 240, 336,  
           1711, 1728, 1747, 2261, 2262,  
           2263, 2348, 2411, 2442  
`\unvbox` ... 1550, 1568, 1583, 2107  
`\uppercaseonmath` ..... 1781  
`\use` . 2971, 2975, 2989, 2993, 3007,  
           3011, 3023, 3027  
`\use@mathgroup` ..... 4587  
`\usebox` ..... 4002  
`\usecounter` ..... 1664, 4864

## V

`\value` ..... 2874, 4834, 4850

`\vbox` ..... 1462, 1475, 1549, 1567,  
           1582, 2078, 2095, 2100, 2101,  
           2118, 2225, 2315, 2319, 2325,  
           2329, 3164, 3195, 3196, 4541,  
           4567  
`\vcenter` ..... 2104, 2105  
`\verbatim@addtoline` .....  
           ... 2580, 2595, 2606, 2613,  
           2615, 2623, 2625, 2637, 2639  
`\verbatim@finish` ..... 2633  
`\verbatim@processline` ... 2584,  
           2597, 2617  
`\verbatim@startline` 2573, 2585,  
           2598, 2618  
`\version@elt` ..... 4633  
`\version@list` ..... 4633  
`\vfil` ..... 3197, 3968, 3984  
`\voidb@x` ..... 317  
`\vrb@catcodes` ..... 2567  
`\vskip` 1474, 1476, 1477, 3194, 3205,  
           3969, 3972, 3974, 3980  
`\vspace` ..... 247,  
           254, 4004, 4023, 4085, 4095,  
           4138, 4142, 4165, 4168, 4172,  
           4179, 4197, 4201, 4205, 4214,  
           4273, 4277, 4333, 4354, 4402,  
           4406, 4425, 4455, 4459, 4504,  
           4506, 4516, 4519, 4544, 4546,  
           4566, 4568, 4862, 4920, 4922  
`\vss` ..... 2107  
`\vtop` ..... 2102, 2103, 2224

## W

`\weatherFormat` ..... 3839, 3841  
`\weatheritem` .. 4245, 4260, 4261,  
           4263  
`\weatherTempFormat` . 3843, 4253  
`\weatherUnits` ..... 3844, 4255  
`\whiledo` ..... 4834  
`\widowpenalty` ..... 1665  
`\width` ..... 1604, 2676, 2677  
`\write` .... 3151, 3637, 3649, 3661  
`\writexviiiifalse` ..... 2960  
`\writexviii>true` ..... 2958



X

\X ..... 4804  
\x ..... 2942, 2947  
\xdef 1634, 1652, 4587, 4830, 4835,  
4859, 4860, 4881, 4882, 4885,  
4886  
\XePersian .... 1641, 3226, 3863  
\xepersian ..... 2654, 2656  
\xepersian@adadi .. 3284, 3309  
\xepersian@adadi@tartibi 3385,  
3410  
\xepersian@A ... 1804, 1820, 1834,  
1836  
\xepersian@adadi ... 3278, 3283  
\xepersian@adadi@tartibi 3379,  
3384  
\xepersian@cmds@temp 2937, 2955  
\xepersian@coltitsize .....  
.. 3706, 4429, 4430, 4431,  
4432, 4435, 4440, 4445, 4450  
\xepersian@cx . 4033, 4038, 4055  
\xepersian@cy .. 4034, 4039, 4061  
\XePersian@d .. 4933, 4958, 5063,  
5082, 5084, 5087, 5092  
\xepersian@D ... 1801, 1822, 1823,  
1824, 1825, 1829, 1830, 1831,  
1833, 1834  
\xepersian@dahgan .. 3342, 3363,  
3446  
\xepersian@dahgan@tartibi 3444,  
3452  
\xepersian@digits@family 4705,  
4707, 4708, 4709, 4710  
\XePersian@dn .....  
.. 4953, 5052, 5060, 5063,  
5066, 5070, 5082, 5084  
\xepersian@dx . 4031, 4036, 4047,  
4050  
\xepersian@dy . 4032, 4037, 4048,  
4051  
\xepersian@edition . 3813, 3817,  
3853, 3973, 4105  
\xepersian@editionLogo .. 3815,  
4083, 4101  
\xepersian@editorialTit . 4510,  
4529  
\xepersian@editorialTitle 3956,  
4515  
\xepersian@everyjob 2933, 2934  
\xepersian@firstText 3888, 4144  
\xepersian@firstTitle ... 3876,  
4139  
\xepersian@fmbox ... 3999, 4001,  
4002  
\xepersian@footcenter ... 3865,  
3872, 4124  
\xepersian@footleft 3867, 3871,  
4123  
\xepersian@footright 3862, 3873,  
4122  
\xepersian@gridcolumns .. 3728,  
3730, 3769, 3773  
\xepersian@gridrows 3727, 3729,  
3769, 3773  
\xepersian@headcenter ... 3849,  
3859, 4121  
\xepersian@headDateTime . 3835,  
4089, 4103  
\xepersian@headleft 3846, 3858,  
4120  
\xepersian@headright 3852, 3860,  
4119  
\XePersian@i .....  
.. 4933, 5056, 5057, 5059,  
5060, 5061, 5064, 5068, 5069,  
5072, 5073, 5076, 5079, 5081  
\xepersian@imgsize . 3705, 4006,  
4007, 4009, 4018, 4019  
\xepersian@incolumntitle 4416,  
4435, 4440, 4445, 4450  
\xepersian@indexEntry ... 3825,  
4352  
\xepersian@indexEntryPage 3831,  
4352  
\xepersian@indexFrameTitle ..  
..... 3821, 4328  
\xepersian@indexwidth ... 3709,  
3828, 4327, 4331, 4332  
\xepersian@inexpandedtitle ..  
.. 4367, 4382, 4387, 4392,  
4397  
\xepersian@innerSubtitle 3943,





4483  
 \xepersian@innerTitle . . . 3932,  
 4482  
 \XePersian@kabisehfalse . 5003,  
 5009  
 \XePersian@kabisehtrue . . 5009  
 \xepersian@kashida . 1807, 1829,  
 1830, 1831, 1832, 1833, 1834,  
 1835  
 \xepersian@L . . . 1802, 1826, 1830,  
 1831, 1832, 1835, 1836  
 \XePersian@latini . . 4934, 4980  
 \XePersian@latinii . 4935, 4982,  
 4984  
 \XePersian@latiniii 4936, 4986  
 \XePersian@latiniv . 4937, 4987  
 \XePersian@latinix . 4942, 4992  
 \XePersian@latinvi . . 4938, 4988  
 \XePersian@latinvii . 4939, 4989  
 \XePersian@latinviii 4940, 4990  
 \XePersian@latinix . . 4943, 4993  
 \XePersian@latinxi . 4944, 4994  
 \XePersian@latinxii 4945, 4995  
 \XePersian@leapfalse 4965, 4969,  
 4975  
 \XePersian@leaptrue 4975, 4976  
 \xepersian@localize@verbatim@  
 . . 2575, 2576, 2578, 2586,  
 2599, 2608, 2619, 2627, 2641  
 \xepersian@localize@verbatim@@  
 . . . . . 2578, 2579  
 \xepersian@localize@verbatim@@@  
 . . . . . 2581, 2582  
 \xepersian@localize@verbatim@@@testend  
 . . . . . 2621, 2631  
 \xepersian@localize@verbatim@rescan  
 . . . . . 2635, 2644  
 \xepersian@localize@verbatim@start  
 . 2572, 2647, 2648, 2659  
 \xepersian@localize@verbatim@test  
 . . . 2590, 2592, 2593  
 \xepersian@localize@verbatim@testend  
 . . . . . 2604, 2611  
 \XePersian@m . . 4933, 4958, 5054,  
 5073, 5076, 5088, 5091  
 \xepersian@milyoongan 3311, 3322  
 \xepersian@milyoongan@tartibi  
 . . . . . 3412, 3423  
 \XePersian@mminusone 4955, 5054,  
 5055, 5057, 5061  
 \xepersian@ncol . . . . 4060, 4061  
 \xepersian@ncolumns 3710, 4411,  
 4412, 4479  
 \xepersian@nrow . . . . 4054, 4055  
 \xepersian@numberoutofrange .  
 . . . 3269, 3280, 3381  
 \xepersian@numberstring . 3266,  
 3274  
 \xepersian@numberstring@tartibi  
 . . . . . 3372, 3375  
 \xepersian@PackageInfo . . 4648,  
 4706  
 \xepersian@pageleft 3708, 4495,  
 4496, 4498, 4500  
 \xepersian@pageneed 3707, 4009,  
 4010, 4012, 4015, 4494, 4500  
 \xepersian@pages . . . 3929, 4164,  
 4196, 4481  
 \XePersian@persian@month 5088,  
 5093  
 \XePersian@persiani 4934, 5034,  
 5035, 5065, 5082  
 \XePersian@persianii 4935, 5036  
 \XePersian@persianiii . . . 4936,  
 5038, 5040  
 \XePersian@persianiv 4937, 5042  
 \XePersian@persianix 4942, 5047  
 \XePersian@persianv 4938, 5043  
 \XePersian@persianvi 4939, 5044  
 \XePersian@persianvii . . . 4940,  
 5045  
 \XePersian@persianviii . . 4941,  
 5046  
 \XePersian@persianx 4943, 5048  
 \XePersian@persianxi 4944, 5049  
 \XePersian@persianxii . . . 4945,  
 5050  
 \XePersian@persianxiii . . 4946,  
 5051  
 \xepersian@pictureCaption 3925,  
 4021, 4235



`\xepersian@R` . . . 1803, 1821, 1833, 1835  
`\xepersian@sadgan` . . . . . 3315, 3320, 3324, 3328, 3333, 3416, 3429  
`\xepersian@sadgan@tartibi` 3421, 3425, 3434  
`\xepersian@say` 3998, 4478, 4498, 4501, 4503, 4527, 4553  
`\xepersian@secondSubtitle` 3901, 4170  
`\xepersian@secondText` . . . 3905, 4174  
`\xepersian@secondTitle` . . 3892, 4166  
`\xepersian@section` . 3845, 3850, 4474  
`\xepersian@shellescape` . . 2957  
`\xepersian@shortarticleItemTitle` . . . . . 3963, 4567  
`\xepersian@shortarticleSubtitle` . . . . . 3961, 4547  
`\xepersian@shortarticleTit` . . . . . 4539, 4554  
`\xepersian@shortarticleTitle` . . . . . 3959, 4543  
`\XePersian@sn` . . . . . 4954, 5053, 5065, 5066, 5069, 5070, 5079, 5084  
`\xepersian@tartibi` . 3372, 3457  
`\XePersian@temp` . . . . . 4948, 4959, 4960, 4961, 4963, 4967, 4968, 4969, 4972, 4973, 4974, 4975, 4997, 4998, 4999, 5002, 5003, 5005, 5008, 5009, 5013, 5014, 5017, 5020, 5025, 5030, 5032, 5033, 5035  
`\xepersian@tempa` . . . . . 3564, 3572, 3579, 3586, 3592, 3604, 3610, 3616, 3620, 3624, 3630, 3643, 3655, 3667  
`\xepersian@tempb` . . . . . 3564, 3565, 3572, 3573, 3579, 3580, 3586, 3587, 3592, 3593, 3604, 3605, 3610, 3611, 3616, 3617, 3620, 3621, 3624, 3625, 3630, 3631, 3643, 3644, 3655, 3656, 3667, 3668  
`\XePersian@tempthree` . . . . . 4950, 5011, 5012, 5013, 5015, 5018, 5021, 5022, 5026, 5029, 5030, 5031, 5032  
`\XePersian@temptwo` . . . . . 4949, 4999, 5000, 5001, 5002, 5005, 5006, 5007, 5008, 5015, 5016, 5017, 5018, 5019, 5020, 5022, 5023, 5024, 5025, 5026, 5027, 5028, 5029  
`\xepersian@thirdSubtitle` 3920, 4203  
`\xepersian@thirdText` 3923, 4210  
`\xepersian@thirdTitle` 3911, 4199  
`\XePersian@thirtytwo` 4952, 4996, 5003  
`\xepersian@V` . . . . . 1805, 1827  
`\xepersian@weather` . 3840, 4275  
`\xepersian@www` . . . . . 3810, 4083  
`\xepersian@wwwFormat` 3809, 3811  
`\XePersian@y` . . . . . 4933, 4958, 4959, 4962, 4972, 4975, 4997, 5011, 5074, 5077, 5088, 5090  
`\xepersian@yekani` . . 3315, 3343, 3347, 3354, 3357, 3416  
`\xepersian@yekanii` 3266, 3328, 3353, 3429  
`\xepersian@yekaniii` 3324, 3356, 3425  
`\xepersian@yekaniv` 3335, 3359, 3436  
`\xepersian@yekanv` . . 3448, 3464  
`\XePersian@yModHundred` . . . . . 4951, 4962, 4963, 4964, 4967, 4971  
`\xepersian@zwj` . 1799, 1807, 1808  
`\xepersiandate` 2904, 2905, 2921  
`\xepersianInit` . . . . . 3766, 4067  
`\xepersianversion` . 2903, 2905, 2921  
`\XeTeXcharclass` . . . . . 1815  
`\XeTeXcharglyph` . . . . . 1808  
`\XeTeXglyphbounds` . . . . . 1808



<code>\XeTeXinterchartoks</code>	1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836	<code>\ .</code>	1987, 1988, 1993, 1994, 1996, 1997
<code>\xpg@warning</code>	3470, 3475, 3477	<code>\</code>	1987, 1992
Y			
<code>\y</code>	2943, 2945, 2947	<code>\</code>	1987, 1988, 1993, 1997
<code>\year</code>	4958	<code>\</code>	1982, 1983
Z			
<code>\z</code>	2944, 2945	<code>\</code>	1987, 1989, 1994, 1999
<code>\z@</code>	10, 25, 42, 61, 72, 87, 104, 123, 319, 320, 331, 333, 1473, 1500, 1519, 1538, 1558, 1576, 1591, 1672, 1676, 1684, 1695, 1711, 1728, 1747, 1754, 1766, 1778, 1795, 2023, 2123, 2127, 2132, 2133, 2141, 2151, 2155, 2156, 2161, 2175, 2185, 2189, 2190, 2195, 2211, 2233, 2234, 2245, 2263, 2274, 2278, 2279, 2292, 2306, 2493, 2539, 2541, 2550, 2674, 2675, 2682, 2683, 3174, 3192, 3203, 3310, 3312, 3314, 3318, 3334, 3337, 3343, 3411, 3413, 3415, 3419, 3435, 3438, 3448, 3477, 3499, 3503, 3507, 3510, 5009	<code>@ \</code>	2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705
<code>\z@skip</code>	1471, 1472, 3192	<code>@ \</code>	1976
<code>\ziffer@check</code>	4753, 4754	<code>\</code>	1982
<code>\ziffer@dcheck</code>	4752, 4753	<code>\</code>	1976, 1980
<code>\ziffer@DotOri</code>	4750, 4753	<code>\</code>	2338, 2646
<code>\ZifferAn</code>	4748, 4751	<code>\</code>	2560
<code>\ZifferLeer</code>	4753, 4779	<code>\</code>	1983, 2335, 2336
<code>\</code>	1286, 1963, 2559	<code>\</code>	1975
<code>\</code>	1987, 1989, 1992, 1999	<code>\</code>	1978
<code>\</code>	1992	<code>\</code>	1977, 1979
<code>\</code>	1977, 1984, 1985, 1988, 1989, 1997, 1999		
<code>\</code>	1982, 1983, 1987, 1994		
<code>\</code>	1975, 1981, 1982, 1987, 1992, 1993		
<code>\</code>	1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1985		



## 8 Change History

v13.1		
General: Added implementation of the package. . . . .	0	
v13.2		
General: Replaced <code>\reflect</code> with <code>\bidi@reflect@box</code> . . . . .	123	
v13.5		
General: Fixed the extra space after Persian decimal separator. . . .	153	
v13.6		
General: Used <code>\XeTeXglyphbounds</code> to find the true height and depth of the Kashida character. . . . .	93	

