

# The XePersian Package



## Persian for L<sup>A</sup>T<sub>E</sub>X 2<sub>E</sub> over XeT<sub>E</sub>X

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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 emails to me; I will not answer any direct emails. 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 examples showing the issue, and always choose the appropriate label for your query (i.e. if you are reporting any bugs, choose 'Bug' label).

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## 1 Introduction

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

### 1.1 Important Notes

- ☞ The XePersian package only works with Xe $\text{\LaTeX}$  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  $\text{\LaTeX}$  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  $\text{\TeX}$  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 LaTe $\text{\TeX}$  over Xe $\text{\TeX}$ )
Description: The package supports Persian
typesetting, using fonts provided in the distribution.
Copyright © 2008-2013 Vafa Khalighi
v13, 2013/09/22
License: La $\text{\TeX}$  Project Public License, version 1.3c or higher (your choice
)
Location on CTAN: /macros/xetex/latex/xepersian
```

## 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  $\text{\TeX}$  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.

---

<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>

```

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 four options:

### 2.4.1 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.

### 2.4.2 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. Please note that unfortunately X series fonts of IRMUG (Iranian Mac Users Group) do not have Kashida support and if you use any of these fonts with Kashida option enabled, the result on the PDF viewed on the monitor is not pleasant, however the print may look fine. Hence if you are going to enable Kashida option , then you are advised to use either "Adobe Arabic" or "Scheherazade" fonts or any other fonts that has fine Kashida support, like Persian Modern font (the default font of `XePersian` package).

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:

|                         |                          |
|-------------------------|--------------------------|
| <code>\KashidaOn</code> | <code>\KashidaOff</code> |
|-------------------------|--------------------------|

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

### 2.4.3 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 scape (or `write18`) is not enabled.

#### 2.4.4 localise Option

The `localise` option is now active by default; it allows you to use most frequently-used  $\text{\LaTeX}$  commands and environments in Persian, almost like what  $\text{\TeX-e-Parsi}$  offers. This is still work in progress and we wish to add lots more Persian equivalents of  $\text{\LaTeX}$  and  $\text{\TeX}$  commands and environments. The Persian equivalents of  $\text{\LaTeX}$  and  $\text{\TeX}$  commands are shown in [Table 1](#), The Persian equivalents of XePersian commands are shown in [Table 2](#), Persian equivalents of  $\text{\LaTeX}$  environments are shown in [Table 3](#) and Persian equivalents of XePersian environments are shown in [Table 4](#)

Please note that the Persian equivalents of  $\text{\LaTeX}$  and  $\text{\TeX}$  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  $\text{\LaTeX}$  and  $\text{\TeX}$  commands and environments, but still original  $\text{\LaTeX}$  and  $\text{\TeX}$  commands and environments work too.

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

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

|  |  |
|--|--|
| <code>\eqcommand{&lt;command-name in Persian&gt;}{&lt;original \LaTeX command-name&gt;}</code> | <code>\eqenvironment{&lt;environment-name in Persian&gt;}{&lt;original \LaTeX environment-name&gt;}</code> |
|--|--|

Table 1: The Equivalent  $\text{\LaTeX}$  and  $\text{\TeX}$  Commands

| Command in $\text{\TeX}$ or $\text{\LaTeX}$ | Equivalent Persian Command            |
|---|---------------------------------------|
| <code>\@arstrut</code>                      | <code>\شمع جدول</code>                |
| <code>\above</code>                         | <code>\فوق</code>                     |
| <code>\abovedisplayshortskip</code>         | <code>\فاصله کوتاه بالای نمایش</code> |
| <code>\abovedisplayskip</code>              | <code>\فاصله بالای نمایش</code>       |
| <code>\abstractname</code>                  | <code>\عنوان چکیده</code>             |
| <code>\accent</code>                        | <code>\اکسنت</code>                   |
| <code>\active</code>                        | <code>\فعال</code>                    |
| <code>\addcontentsline</code>               | <code>\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>\بیفزاضای و</code>              |
| <code>\adjdemerits</code>                   | <code>\تنظیم بد نمایی</code>          |

*Continued on next page*

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \advance   | \بیفزایر                   |
| \afterassignment   | \بعدازانتساب               |
| \aftergroup  | \بعدازگروه                 |
| \aleph   | \الف                       |
| \aliasfontfeature  | \خصیصه مستعارقلم           |
| \aliasfontfeatureoption  | \انتخاب خصیصه مستعارقلم    |
| \allowbreak  | \شکستنی                    |
| \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  | \اقریب                     |
| \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 اننهای طبقه            |
| \AtEndOfPackage  | \در اننهای سبک             |
| \author  | \نویسنده                   |
| \backmatter  | \مطلوب پشت                 |
| \backslash   | \شکاف پشت                  |
| \badness   | \بدنایی                    |
| \bar   | \میله                      |
| \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                |

Continued on next page

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \bgroup  | \اشرگروه                   |
| \bibitem   | \مرجوع                     |
| \bibliography  | \کتابنامه                  |
| \bibliographystyle   | \اسبککتابنامه              |
| \bibname   | \عنوانکتابنامه             |
| \bigskip   | \پرشبلند                   |
| \bigskipamount   | \مقدارپرشبلند              |
| \botfigrule  | \خطپایینشناور              |
| \botmark   | \علامتپایین                |
| \bottompageskip  | \کادررتاپایین              |
| \bottomfraction  | \نسبتپایین                 |
| \box   | \کادر                      |
| \boxmaxdepth   | \حداکثرعمقکادر             |
| \break   | \بسکن                      |
| \bullet  | \گلوله                     |
| \@cclv   | \ادوپن@پنج                 |
| \@cclvi  | \ادوپن@شش                  |
| \caption   | \شرح                       |
| \catcode   | \کدرده                     |
| \cc  | \رونوشت                    |
| \ccname  | \نامرونوشت                 |
| \cdot  | \ نقطه وسط                 |
| \cdots   | \ نقاط وسط                 |
| \centering   | \تنظيم از وسط              |
| \centerline  | \خط وسط                    |
| \ch@ck   | \چک@ن                      |
| \chapter   | \فصل                       |
| \chaptername   | \عنوان فصل                 |
| \char  | \نویسه                     |
| \chardef   | \تعريف نویسه               |
| \CheckCommand  | \بررسی فرمان               |
| \cite  | \مرجع                      |
| \ClassError  | \خطای طبقه                 |
| \ClassInfo   | \اطلاع طبقه                |
| \ClassWarning  | \هشدار طبقه                |
| \ClassWarningNoLine  | \هشدار طبقه بی سطر         |
| \cleaders  | \انسانگر مرکزی             |
| \cleardoublepage   | \دوصفهه پاک                |
| \clearpage   | \صفهه پاک                  |
| \cline   | \خط ناپر                   |
| \closein   | \بیند و رو دی              |
| \closeout  | \بیند خروجی                |
| \closing   | \بستن                      |
| \clubpenalty   | \جریمه سربند               |

*Continued on next page*

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \clubsuit  | \اخراج                     |
| \colbotmark  | \علامت پایین ستون اول      |
| \colfirstmark  | \علامت اول ستون اول        |
| \color   | \رنگ                       |
| \colorbox  | \کادر رنگ                  |
| \coltopmark  | \علامت بالای ستون اول      |
| \columncolor   | \رنگ ستون                  |
| \columnsep   | \بین ستون                  |
| \columnwidth   | \پهنهای ستون               |
| \columnseprule   | \خط بین ستون               |
| \contentsline  | \اسطره فهرست               |
| \contentsname  | \عنوان فهرست مطالب         |
| \copy  | \کپی                       |
| \copyright   | \حق تالیف                  |
| \count   | \شمار                      |
| \count@  | \شمار @                    |
| \countdef  | \تعريف شمار                |
| \cr  | \سخ                        |
| \crcr  | \سخ سخ                     |
| \csname  | \نام فرمان                 |
| \CurrentOption   | \گزینه جاری                |
| \dashbox   | \کادر بینایی               |
| \dashv   | \بینایی ع                  |
| \@date   | \@تاریخ                    |
| \date  | \تاریخ                     |
| \day   | \روز                       |
| \dblbotfigrule   | \خط پایین شناور پهن        |
| \dblbottomfraction   | \نسبت پهن پایین            |
| \dblfigrule  | \خط بالای شناور پهن        |
| \dblfloatpagefraction  | \نسبت صفحه شناور پهن       |
| \dblfloatsep   | \فاصله بین شناور پهن       |
| \dblfontlocatecode   | \کد مکان غیر همان نظر      |
| \dbltextfloatsep   | \فاصله متن و شناور پهن     |
| \dbltopfraction  | \نسبت پهن بالا             |
| \DeclareFixedFont  | \اعلان قلم ثابت            |
| \DeclareGraphicsExtensions                                     | \اعلان پسوند گرافیک        |
| \DeclareGraphicsRule   | \اعلان دستور گرافیک        |
| \DeclareOldFontCommand   | \اعلان فرمان قلم قدیمی     |
| \DeclareOption   | \اعلان گزینه               |
| \DeclareRobustCommand  | \اعلان فرمان قوی           |
| \DeclareSymbolFont   | \اعلان قلم علائم           |
| \deadcycles  | \دور بسته                  |
| \def   | \اتر                       |
| \define@key  | \تعريف @ کلید              |

Continued on next page

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \definecolor   | \تعريف رنگ                 |
| \deg   | \درجہ                      |
| \delcode   | \کد جاساز                  |
| \delimiter   | \ جدا ساز                  |
| \delimiterfactor   | \ضریب جدا ساز              |
| \depth   | \گودی                      |
| \diamondsuit   | \خشتمان                    |
| \dim   | \ابعاد                     |
| \dimen   | \بعد                       |
| \dimen@  | \بعد @ یک                  |
| \dimen@i   | \بعد @ دو                  |
| \dimen@ii  | \بعد @ دو                  |
| \dimendef  | \تعريف بعد                 |
| \discretionary   | \اتیره گذاری               |
| \displaybreak  | \اشکست نمایش               |
| \displayindent   | \تورفتگی نمایش             |
| \displaystyle  | \سبک نمایش                 |
| \displaywidth  | \عرض نمایش                 |
| \divide  | \ تقسیم                    |
| \documentclass   | \طبقه نوشتار               |
| \do  | \کن                        |
| \dospecials  | \تعویض کدها                |
| \dot   | \ نقطه                     |
| \doteq   | \ نقطه مساوی               |
| \dotfill   | \ پر نقطه ا                |
| \dots  | \ نقطاط                    |
| \doublebox   | \ کادر دولا                |
| \doublerulesepcolor  | \رنگ فاصلہ دو خط جدول      |
| \doublerulesep   | \فاصلہ بین دو خط           |
| \downarrow   | \فلش پایین                 |
| \dp  | \ عمق                      |
| \dump  | \ تخلیه                    |
| \edef  | \ ترگ                      |
| \egroup  | \ پاگروہ                   |
| \eject   | \ انتهای فاصلہ             |
| \else  | \ اگر نه                   |
| \em  | \ تاکید                    |
| \emergencystretch  | \ کشش لاجرم                |
| \emph  | \ موکد                     |
| \empty   | \ پوج @ \                  |
| \emptyset  | \ پوج \                    |
| \emptyset  | \ مجموعہ پوج               |
| \end   | \ پایان                    |
| \endL  | \ پایان چپ                 |

*Continued on next page*

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \endR  | \پایان راست                |
| \endcsname   | \پایان نام فرمان           |
| \endfirsthead  | \پایان اولین سر            |
| \endfoot   | \پایان پا                  |
| \endgraf   | \ته بند                    |
| \endgroup  | \پایان گروه                |
| \endhead   | \پایان سر                  |
| \endinput  | \پایان ورودی               |
| \endlastfoot   | \پایان آخرین پا            |
| \enlargethispage   | \گسترش این صفحه            |
| \endline   | \ته سطر                    |
| \endlinechar   | \نویسه ته سطر              |
| \enspace   | \ان دوری                   |
| \enskip  | \ان فاصله                  |
| \eqcommand   | \فرمان جانشین              |
| \eqenvironment   | \محیط جانشین               |
| \eqref   | \رجاع فر                   |
| \errhelp   | \کمک خطأ                   |
| \errmessage  | \پیام خطأ                  |
| \errorcontextlines   | \سطر متن خطأ               |
| \errorstopmode   | \پردازش توقف خطأ           |
| \escapechar  | \نویسه ویره                |
| \euro  | \یورو                      |
| \evensidemargin  | \حاشیه زوج                 |
| \everycr   | \هر سخ                     |
| \everydisplay  | \هر نمایش                  |
| \everyhbox   | \هر کادر                   |
| \everyjob  | \هر کار                    |
| \everymath   | \هر ریاضی                  |
| \everypar  | \هر بند                    |
| \everyvbox   | \هر کادرو                  |
| \ExecuteOptions  | \اجراي گزينه ها            |
| \exhyphenpenalty   | \جريمه اضافي تيره بندی     |
| \expandafter   | \بگستر پس از               |
| \extracolsep   | \فاصله اضافي بين ستونها    |
| \@firstofone   | \@ اولی از یک              |
| \@firstoftwo   | \@ اولی از دو              |
| \f@ur  | \چ@ار                      |
| \fam   | \خانواده                   |
| \fancypage   | \صفحه تجمی                 |
| \fbox  | \کادر با                   |
| \fboxrule  | \ضخامت کادر با             |
| \fboxsep   | \حاشیه کادر با             |
| \fcolorbox   | \کادر بارنگ                |

*Continued on next page*

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \fi  | \رگ                        |
| \figurename  | \عنوان شکل                 |
| \filbreak  | \پرشکن                     |
| \fill  | \پر                        |
| \firstmark   | \علامت اول                 |
| \flat  | \پهن                       |
| \floatpagefraction   | \نسبت صفحه شناور           |
| \floatingpenalty   | \جریمه شناور               |
| \floatsep  | \فاصله بین شناور           |
| \flushbottom   | \تنظیم از پایین            |
| \fmtname   | \اشکل‌بندی                 |
| \fmtversion  | \ردہ شکل‌بندی              |
| \fnsymbol  | \نشانه                     |
| \font  | \قلم                       |
| \fontdimen   | \بعد قلم                   |
| \fontencoding  | \رمزینه قلم                |
| \fontfamily  | \فamil قلم                 |
| \fontname  | \نام قلم                   |
| \fontseries  | \شمايل قلم                 |
| \fontshape   | \شكل قلم                   |
| \fontsize  | \اندازه قلم                |
| \footheight  | \بلندای پایین صفحه         |
| \footins   | \درج زیرنویس               |
| \footnote  | \زیرنویس                   |
| \footnotemark  | \علامت زیرنویس             |
| \footnoterule  | \خط زیرنویس                |
| \footnotesep   | \فاصله تازیرنویس           |
| \footnotysize  | \اندازه زیرنویس            |
| \footnotetext  | \امتن زیرنویس              |
| \footskip  | \فاصله تا پایین صفحه       |
| \frame   | \فریم                      |
| \framebox  | \کادر ر با خ ط             |
| \frenchspacing   | \فو اصل یکواخت لاتین       |
| \frontmatter   | \مطلب پیش                  |
| \futurelet   | \بعد بگذار                 |
| \@gobble   | @\خور حریصانه              |
| \@gobbletwo  | @\خور حریصانه دو           |
| \@gobblefour   | @\خور حریصانه چهار         |
| \@tempa  | @\عاقت آ                   |
| \@tempb  | @\عاقت ب                   |
| \gdef  | \ترع                       |
| \GenericInfo   | \الگوی اطلاع               |
| \GenericWarning  | \الگوی هشدار               |
| \GenericError  | \الگوی خط                  |

*Continued on next page*

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \global  | \عام                       |
| \globaldefs  | \تعاریف عام                |
| \glossary  | \لخت نامه                  |
| \glossaryentry   | \فقره فرهنگ                |
| \goodbreak   | \خوش شکن                   |
| \graphpaper  | \کاغذ گراف                 |
| \guillemotleft   | \گیو مه چپ                 |
| \guillemotright  | \گیو مه راست               |
| \guilsinglleft   | \گیو مه تکی چپ             |
| \guilsinglright  | \گیو مه تکی راست           |
| \halign  | \ردیف ا                    |
| \hang  | \برو تو                    |
| \hangafter   | \بعد از سطر                |
| \hangindent  | \اتورفتگی ثابت             |
| \hbadness  | \ابدنمایی ا                |
| \hbox  | \کادرا                     |
| \headheight  | \بلندای سر صفحه            |
| \headsep   | \افاصله از سر صفحه         |
| \headtoname  | \سر به نام                 |
| \heartsuit   | \دل                        |
| \height  | \بلندا                     |
| \hfil  | \پرا                       |
| \hfill   | \پررا                      |
| \hfilneg   | \رفع پرا                   |
| \hfuzz   | \پر زافقی                  |
| \hideskip  | \فاصله مخفی                |
| \hidewidth   | \عرض پنهان                 |
| \hline   | \خط پر                     |
| \hoffset   | \حاشیه ا                   |
| \holdinginserts  | \حفظ درج                   |
| \hrboxsep  | \فاصله اگر                 |
| \hrule   | \خط ا                      |
| \rulefill  | \پر خط ا                   |
| \hspace  | \طول سطر                   |
| \hskip   | \فاصله ا                   |
| \hss   | \فضای ا                    |
| \ht  | \هر دوا                    |
| \huge  | \ارتفاع                    |
| \Huge  | \بزرگ                      |
| \hyperlink   | \بزرگ تر                   |
| \hypersetup  | \ابر پیوند                 |
| \hypertarget   | \بارگزاری ابر              |
| \hyphenation   | \هدف ابر                   |
|  | \تیره بندی                 |

*Continued on next page*

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \hyphenchar  | \نویسه‌تیره                |
| \hyphenpenalty   | \جريمه‌تیره‌بندی           |
| \@ifclassloaded  | @\گرکلاس‌فراخوانی‌شده      |
| \@ifdefinable  | @\گرترشدنی                 |
| \@ifnextchar   | @\گرنویسه‌بعدی             |
| \@ifpackageloaded  | @\گرسیک‌فراخوانی‌شده       |
| \@ifstar   | @\گرستاره                  |
| \@ifundefined  | @\گرتعريف‌نشده             |
| \if  | \اگر                       |
| \if@tempswa  | @\گر@سواقت‌آ               |
| \ifcase  | \گرانواع                   |
| \ifcat   | \گردد                      |
| \ifdefined   | \اگرتعريف‌شده              |
| \ifdim   | \اگربعد                    |
| \ifeof   | \اگرته‌پرونده              |
| \iff   | \اگر                       |
| \iffalse   | \اگرنا درست                |
| \IfFileExists  | \اگرپرونده موجود           |
| \ifhbox  | \اگرکادرا                  |
| \ifhmode   | \اگرحالت‌ا                 |
| \ifinner   | \اگردونی                   |
| \ifmmode   | \اگرحالتریاضی              |
| \ifnum   | \اگرعدد                    |
| \ifodd   | \اگرفرد                    |
| \ifthenelse  | \اگرآنگاه دیگر             |
| \iftrue  | \اگردرست                   |
| \ifvbox  | \اگرکادرو                  |
| \ifvmode   | \اگرحالت‌و                 |
| \ifvoid  | \اگرته‌ی                   |
| \ifx   | \اگرتم                     |
| \ignorespaces  | \افاصله‌خالی‌راندیده‌بگیر  |
| \immediate   | \فوری                      |
| \include   | \شامل                      |
| \includegraphics   | \درج تصویر                 |
| \includeonly   | \امشمولین                  |
| \indent  | \اتورفتگی                  |
| \index   | \ادرنما                    |
| \indexentry  | \استعلام                   |
| \indexname   | \عنوان‌نمایه               |
| \indexspace  | \افاصله‌رهنما              |
| \input   | \ورودی                     |
| \InputIfFileExists   | \ورود‌پرونده گرموجود       |
| \inputlineno   | \شماره‌سطر ورودی           |
| \insert  | \درج                       |

Continued on next page

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \insertpenalties   | \جریمه‌درج                 |
| \interfootnotelinepenalty                                      | \جریمه‌بین‌سطرهای زیرنویس  |
| \interdisplaylinepenalty                                       | \جریمه‌بین‌سطرهای نمایش    |
| \interlinepenalty  | \جریمه‌بین‌سطرها           |
| \intertext   | \امتن داخلی                |
| \intertextsep  | \فاصله‌شناور در متن        |
| \invisible   | \مخفي                      |
| \itdefault   | \پيش فرض اي                |
| \itshape   | \شكل ايتاليك               |
| \item  | \فقره                      |
| \itemindent  | \تورفتگي فقره              |
| \itemsep   | \فاصله فقره                |
| \iterate   | \تكرار کن                  |
| \itshape   | \شكل اي                    |
| \jobname   | \نام کار                   |
| \jot   | \قلپ                       |
| \kern  | \دوری                      |
| \kill  | \الگو                      |
| \label   | \برچسب                     |
| \labelenumi  | \برچسب شمارش يك            |
| \labelenumii   | \برچسب شمارش دو            |
| \labelenumiii  | \برچسب شمارش سه            |
| \labelenumiv   | \برچسب شمارش چهار          |
| \labelitemi  | \برچسب فقره يك             |
| \labelitemii   | \برچسب فقره دو             |
| \labelitemiii  | \برچسب فقره سه             |
| \labelitemiv   | \برچسب فقره چهار           |
| \labelsep  | \فاصله از برچسب            |
| \labelwidth  | \پهنانی برچسب              |
| \language  | \ازبان                     |
| \large   | \درشت                      |
| \Large   | \درشت تر                   |
| \LARGE   | \درشت درشت                 |
| \lastbox   | \آخرین کادر                |
| \lastkern  | \آخرین دوری                |
| \lastpenalty   | \آخرین جريمہ               |
| \lastskip  | \آخرین فاصله               |
| \LaTeX   | \لاتک                      |
| \LaTeXe  | \لاتک اي                   |
| \lccode  | \اکدکوچک                   |
| \ldots   | \نقاط خ                    |
| \leaders   | \انسانگر                   |
| \leavevmode  | \ترك و                     |
| \left  | \چپ                        |

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| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \leftmargin  | حاشیه چپ                   |
| \leftmargini   | حاشیه چپ یک                |
| \leftmarginii  | حاشیه چپ دو                |
| \leftmarginiii   | حاشیه چپ سه                |
| \leftmarginiv  | حاشیه چپ چهار              |
| \leftmarginv   | حاشیه چپ پنج               |
| \leftmarginvi  | حاشیه چپ شش                |
| \leftmark  | علامت چپ                   |
| \leftpageskip  | اکادر تا چپ                |
| \leftskip  | فاصله ابتدای سطر           |
| \let   | بگذار                      |
| \line  | سطر                        |
| \linebreak   | اسطر شکن                   |
| \linepenalty   | جریمه سطر                  |
| \lineskip  | فاصله سطرهای               |
| \lineskiplimit   | حد فاصله سطر               |
| \linespread  | کشش فاصله سطر              |
| \linethickness   | اضحیام خط                  |
| \linewidth   | پنهانی سطر                 |
| \listfigurename  | عنوان فهرست اشکال          |
| \listfiles   | لیست پروندهای              |
| \listoffigures   | فهرست اشکال                |
| \listoftables  | فهرست جداول                |
| \listparindent   | اتورفتگی بند لیست          |
| \listtablename   | عنوان فهرست جداول          |
| \LoadClass   | بارکن طبقه                 |
| \LoadClassWithOptions  | بارکن طبقه با گزینه        |
| \location  | امکان                      |
| \long  | بلند                       |
| \loop  | حلقه                       |
| \looseness   | گسیختگی                    |
| \lower   | انتقال پایین               |
| \@makeother  | @ دیگر                     |
| \@m  | @ زار                      |
| \@M  | @ زار @ ده                 |
| \@Mi   | @ ده @ زاریک               |
| \@Mii  | @ ده @ زاردو               |
| \@Miii   | @ ده @ زارسه               |
| \@Miv  | @ ده @ زار چهار            |
| \@MM   | @ بیس زار                  |
| \m@ne  | @ من                       |
| \mag   | بزرگ نمایی                 |
| \magstep   | گام                        |
| \magstephalf   | نیم گام                    |

Continued on next page

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \mainmatter  | \مطلب اصلی                 |
| \makeatletter  | \ات حرف                    |
| \makeatother   | \ات دیگر                   |
| \makebox   | \کادر بی خط                |
| \makeglossary  | \اساخت فرهنگ               |
| \makeindex   | \تهیه نمایه                |
| \makelabel   | \اساخت برچسب               |
| \makelabels  | \اساخت برچسب ها            |
| \MakeLowercase   | \اساخت حروف کوچک           |
| \maketitle   | \عنوان ساز                 |
| \MakeUppercase   | \اساخت حروف بزرگ           |
| \marginpar   | \در راه شیه                |
| \marginparpush   | \فاصله دو حاشیه            |
| \marginparsep  | \فاصله تا حاشیه            |
| \marginparwidth  | \پهنای حاشیه               |
| \mark  | \علامت                     |
| \markboth  | \علامت در دو طرف           |
| \markright   | \علامت در راست             |
| \mathaccent  | \اعراب ریاضی               |
| \mathchar  | \نویسه ریاضی               |
| \mathchardef   | \تعريف نویسه ریاضی         |
| \mathcode  | \کد ریاضی                  |
| \mathrm  | \ریاضی رومان               |
| \maxdeadcycles   | \حداکثر تکرار              |
| \maxdepth  | \حداکثر عمق صفحه           |
| \maxdimen  | \بعد بیشین                 |
| \mbox  | \کادر بی                   |
| \mdseries  | \اشمایل نازک               |
| \meaning   | \معنا                      |
| \mediumseries  | \نازک                      |
| \medmuskip   | \فاصله متوسط ریاضی         |
| \medskip   | \پرش متوسط                 |
| \medskipamount   | \مقدار پرش متوسط           |
| \medspace  | \فضای متوسط                |
| \message   | \پیام                      |
| \MessageBreak  | \پیام شکن                  |
| \minrowclearance   | \حداقل فاصله ردیف          |
| \mkern   | \دوری ریاضی                |
| \month   | \ماه                       |
| \moveleft  | \انتقال بچپ                |
| \moveright   | \انتقال برآست              |
| \mskip   | \فاصله ریاضی               |
| \m@th  | \اری @ ضی                  |
| \multicolumn   | \چند ستونی                 |

Continued on next page

| Command in TeX or L <sup>A</sup> T <sub>E</sub> X | Equivalent Persian Command |
|---|----------------------------|
| \multiply   | \ضرب                       |
| \multispan  | \چندادغام                  |
| \muskip   | \میوفاصله                  |
| \muskipdef  | \تعريف میوفاصله            |
| \@namedef   | @\ترنام                    |
| \@nameuse   | @\کاربردنام                |
| \@ne  | @\یک                       |
| \name   | \نام                       |
| \natural  | \طبیعی                     |
| \nearrow  | \باریک                     |
| \nearrower  | \باریکتر                   |
| \NeedsTeXFormat                                   | \اشکلبندی موردنیاز         |
| \neg  | \منفی                      |
| \negmedspace                                      | \فضای متوسط منفی           |
| \negthickspace                                    | \فضای ضخیم منفی            |
| \negthinspace                                     | \دوری کوچک منفی            |
| \newboolean                                       | \بولی نو                   |
| \newbox   | \کادر جدید                 |
| \newcommand                                       | \فرمان نو                  |
| \newcount   | \شمار جدید                 |
| \newcounter                                       | \شمارنده جدید              |
| \newdimen   | \بعد جدید                  |
| \newenvironment                                   | \محیط نو                   |
| \newfam   | \اخانواده جدید             |
| \newfont  | \اقلم نو                   |
| \newhelp  | \کمک جدید                  |
| \newif  | \گرجدید                    |
| \newinsert  | \درج جدید                  |
| \newlabel   | \برچسب جدید                |
| \newlength  | \تعريف بعد جدید            |
| \newline  | \اسطر جدید                 |
| \newlinechar                                      | \نویسه سطر جدید            |
| \newmuskip  | \میوفاصله جدید             |
| \newpage  | \صفحه جدید                 |
| \newread  | \بخوان جدید                |
| \newsavebox                                       | \تعريف کادر جدید           |
| \newskip  | \فاصله جدید                |
| \newtheorem                                       | \قضیه جدید                 |
| \newtoks  | \جزء جدید                  |
| \newwrite   | \بنویس جدید                |
| \noalign  | \ابی ردیف                  |
| \nobreak  | \نشکن                      |
| \nobreakspace                                     | \فاصله نشکستنی             |
| \nocite   | \بدون سند                  |

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| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \noexpand  | \انگستر                    |
| \nofiles   | \ بدون پرونده              |
| \noindent  | \ بدون تورفتگی             |
| \nointerlineskip   | \ بی فاصله سطر             |
| \nolimits  | \ بدون حد                  |
| \nonlinebreak  | \ سطرنشکن                  |
| \nonstopmode   | \ پردازش بدون توقف         |
| \nonfrenchspacing  | \ فوacial متعارف لاتین     |
| \nonumber  | \ بدون شماره               |
| \nopagebreak   | \ صفحه نشکن                |
| \normalbaselines   | \ کرسیهای متعارف           |
| \normalbaselineskip  | \ فاصله کرسی متعارف        |
| \normalcolor   | \ ارنگ عادی                |
| \normalfont  | \ قلم عادی                 |
| \normallineskip  | \ فاصله سطر متعارف         |
| \normallineskiplimit   | \ حدفاصله سطر متعارف       |
| \normalmarginpar   | \ در حاشیه عادی            |
| \normalsize  | \ اندازه عادی              |
| \notag   | \ بدون اتیکت               |
| \null  | \ نول                      |
| \nullfont  | \ قلم تهی                  |
| \number  | \ عدد                      |
| \numberline  | \ سطر عددی                 |
| \numberwithin  | \ شماره مطابق              |
| \@evenfoot   | \ پایین صفحه زوج           |
| \@evenhead   | \ بالای صفحه زوج           |
| \@oddfoot  | \ پایین صفحه فرد           |
| \@oddhead  | \ بالای صفحه فرد           |
| \@outeqnttrue  | \ اشماره بیرون درست        |
| \@outeqnfase   | \ اشماره بیرون نادرست      |
| \obeylines   | \ سطر به سطر               |
| \obeyspaces  | \ فضافعال                  |
| \oddsidemargin   | \ حاشیه فرد                |
| \offinterlineskip  | \ سطور بی فاصله            |
| \omit  | \ حذف                      |
| \onlypreamble  | \ @ تهادر پیش در آمد       |
| \onecolumn   | \ یک ستون                  |
| \onlynotes   | \ اتفایاد داشت ها          |
| \onlyslides  | \ تنها اسلاید ها           |
| \openin  | \ بازکن ورودی              |
| \openout   | \ بازکن خروجی              |
| \OptionNotUsed   | \ گزینه مصرف نشده          |
| \or  | \ یا                       |
| \outer   | \ بروني                    |

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| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \output  | \صفحه‌بندی                 |
| \outputpenalty   | \جریمه‌صفحه‌بندی           |
| \overfullrule  | \علامت سرریز               |
| \@preamblecmds   | \فرمان‌های پیش‌درآمد       |
| \p@  | @\پو                       |
| \PackageError  | \خطای سبک                  |
| \PackageInfo   | \اطلاع‌سبک                 |
| \PackageWarning  | \هشدارسیک                  |
| \PackageWarningNoLine  | \هشدارسیک‌بی‌سطر           |
| \pagebreak   | \صفحه‌شکن                  |
| \pagecolor   | \رنگ‌صفحه                  |
| \pagedepth   | \عمق‌صفحه                  |
| \pagefillstretch   | \کشش‌پر رصفحه              |
| \pagefillstretch   | \کشش‌پر رصفحه              |
| \pagefilstretch  | \کشش‌پر رصفحه              |
| \pagegoal  | \غايت‌صفحه                 |
| \pagename  | \نام‌صفحه                  |
| \pagenumbering   | \شماره‌گذاري‌صفحه          |
| \pageref   | \رجوع‌صفحه                 |
| \pagerulewidth   | \ضخامت خط‌صفحه             |
| \pageshrink  | \افشادگي‌صفحه              |
| \pagestretch   | \کشش‌صفحه                  |
| \pagestyle   | \سبک‌صفحه                  |
| \pagetotal   | \جمع‌صفحه                  |
| \paperheight   | \بلنداي‌کاغذ               |
| \paperwidth  | \پهناناي‌کاغذ              |
| \par   | \بند                       |
| \paragraph   | \پاراگراف                  |
| \parallel  | \موازي                     |
| \parbox  | \کادرپار                   |
| \parfillskip   | \افق‌له‌ته‌بند             |
| \parindent   | \تورفتگي‌سر‌بند            |
| \parsep  | \افق‌له‌بند‌ليست           |
| \parshape  | \شكل‌بند                   |
| \parskip   | \افق‌له‌بند                |
| \part  | \بخش                       |
| \partname  | \عنوان‌بخش                 |
| \partopsep   | \افق‌له‌بالاي‌ليست‌بند     |
| \PassOptionToClass   | \ارسال‌گزينه‌به‌کلاس       |
| \PassOptionToPackage   | \ارسال‌گزينه‌به‌پکيچ       |
| \path  | \مسير                      |
| \patterns  | \الگوها                    |
| \pausing   | \امکث                      |
| \penalty   | \جريمه                     |

Continued on next page

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \phantom   | \غیب                       |
| \poptabs   | \الگوی قبلی                |
| \postdisplaypenalty  | \جریمه پس نمایش            |
| \predisplaydirection   | \جهت پیش نمایش             |
| \predisplaypenalty   | \جریمه پیش نمایش           |
| \predisplaysize  | \اندازه پیش نمایش          |
| \pretolerance  | \پیش حد بند نمایی          |
| \prevdepth   | \عمق قبلی                  |
| \prevgraf  | \بند قبلی                  |
| \printindex  | \نمایه در اینجا            |
| \ProcessOptions  | \پردازش گزینه ها           |
| \protect   | \تامین                     |
| \providecommand  | \تهیه فرمان                |
| \ProvidesClass   | \آماده سازی طبقه           |
| \ProvidesFile  | \آماده سازی پرونده         |
| \ProvidesPackage   | \آماده سازی سبک            |
| \pushtabs  | \ثبت الگو                  |
| \quad  | \کواد                      |
| \quad  | \کوکواد                    |
| \@outputpagerestore  | \@باز آبی خروج صفحه        |
| \radical   | \رادیکال                   |
| \raggedbottom  | \پایین بی تنظیم            |
| \raggedleft  | \تنظیم از راست             |
| \raggedright   | \تنظیم از چپ               |
| \raise   | \انتقال بالا               |
| \raisebox  | \بالابر                    |
| \raisetag  | \ترفیع اتیکت               |
| \rangle  | \راویه ر                   |
| \rceil   | \سقف ر                     |
| \read  | \بخوان                     |
| \ref   | \رجوع                      |
| \reflectbox  | \کادر قرینه                |
| \refname   | \عنوان مراجع               |
| \refstepcounter  | \گام شمارنده مرجع          |
| \relax   | \راحت                      |
| \removeLastskip  | \رفع آخرین فاصله           |
| \renewcommand  | \فرمان ازنو                |
| \renewenvironment  | \محیط ازنو                 |
| \repeat  | \ازنو                      |
| \RequirePackage  | \سبک مورد نیاز             |
| \RequirePackageWithOptions                                     | \سبک مورد نیاز با گزینه    |
| \resizebox   | \کادر کشیده                |
| \reversemarginpar  | \در حاشیه معکوس            |
| \rfloor  | \کفر                       |

Continued on next page

| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \right   | \راست                      |
| \rightmargin   | \حاشیه راست                |
| \rightmark   | \علامت راست                |
| \rightskip   | \کادر تراست                |
| \rightskip   | \فاصله انتهای سطر          |
| \rmdefault   | \رومی عادی                 |
| \rmfamily  | \فamil رومی                |
| \Roman   | \رومی بزرگ                 |
| \roman   | \رومی کوچک                 |
| \romannumeral  | \عدد رومی                  |
| \rotatebox   | \کادر چرخان                |
| \rowcolor  | \رنگ ردیف                  |
| \rule  | \خط                        |
| \@secondoftwo  | \@ دومی از دو              |
| \@spaces   | \فضاها                     |
| \samepage  | \همین صفحه                 |
| \savebox   | \مقدار کادر                |
| \sbox  | \مقادر                     |
| \scalebox  | \کادر اندازه               |
| \scdefault   | \پیش فرض تمام بزرگ         |
| \scshape   | \اشکل تمام بزرگ            |
| \scriptfont  | \قلم توان                  |
| \scriptscriptfont  | \قلم توان توان             |
| \scriptscriptstyle   | \اسک ته نوشته نوشته        |
| \scriptsize  | \اندازه پانویس             |
| \scriptstyle   | \اسک ته نوشته              |
| \scrollmode  | \پردازش گذری               |
| \section   | \قسمت                      |
| \secdef  | \تعريف قسمت                |
| \see   | \بینید                     |
| \seealso   | \نیز بینید                 |
| \seename   | \نام بینید                 |
| \selectfont  | \قلم بردار                 |
| \setboolean  | \تنظیم بولی                |
| \setbox  | \در کادر                   |
| \setcounter  | \مقدار شمارنده             |
| \setkeys   | \مقدار کلید ها             |
| \setlength   | \مقدار بعد                 |
| \setminus  | \تنظیم منها                |
| \SetSymbolFont   | \تعريف قلم علائم           |
| \settodepth  | \تنظیم به عمق              |
| \settoheight   | \تنظیم به ارتفاع           |
| \settowidth  | \مقدار بعدیه اندازه        |
| \sfcode  | \کد ضربی فاصله             |

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| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \sfdefault   | \پیشفرض سف                 |
| \sffamily  | \فامیل سن سریف             |
| \shadowbox   | \کادر سایه دار             |
| \sharp   | \تیز                       |
| \shipout   | \بفرست                     |
| \shortstack  | \پشته کوتاه                |
| \show  | \نمایش بده                 |
| \showbox   | \نمایش بده کادر            |
| \showboxbreadth  | \میزان نمایش کادر          |
| \showboxdepth  | \عمق نمایش کادر            |
| \showlists   | \نمایش بده لیستها          |
| \showthe   | \نمایش بده محتوای          |
| \simplefontmode  | \حالت ساده قلم             |
| \sixt@@n   | @\اشانزد                   |
| \skewchar  | \نویسه اریب                |
| \skip  | \فاصله                     |
| \skip@   | @\فاصل                     |
| \skipdef   | \تعريف فاصله               |
| \sl  | \خوابیده                   |
| \sldefault   | \پیشفرض خو                 |
| \slshape   | \اشکل خوابیده              |
| \slloppy   | \راحت چین                  |
| \slshape   | \شمایل خو                  |
| \small   | \کوچک                      |
| \smallskip   | \پرش کوتاه                 |
| \smallskipamount   | \مقدار پرش کوتاه           |
| \smash   | \کوب                       |
| \smile   | \بخند                      |
| \snglfntlocatecode   | \کدمکان همانطور            |
| \space   | \فضا                       |
| \spacefactor   | \ضریب فاصله                |
| \spaceskip   | \فاصله کلمات               |
| \spadesuit   | \پیک                       |
| \span  | \أدغام                     |
| \special   | \اویژه                     |
| \splitmaxdepth   | \حداکثر عمق ستون           |
| \splittopskip  | \فاصله بالای ستون          |
| \star  | \ستاره                     |
| \stepcounter   | \گام شمارنده               |
| \stretch   | \کشی                       |
| \string  | \رشته                      |
| \strut   | \شمع                       |
| \strutbox  | \کادر رسمی                 |
| \subitem   | \ازیر بند                  |

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| Command in $\text{\TeX}$ or $\text{\LaTeX}$ | Equivalent Persian Command |
|---|----------------------------|
| <code>\subparagraph</code>                  | \زیرپاراگراف               |
| <code>\subsection</code>                    | \زیرقسمت                   |
| <code>\substack</code>                      | \زیرپشتہ                   |
| <code>\subsubitem</code>                    | \زیرزیربند                 |
| <code>\subsubsection</code>                 | \زیرزیرقسمت                |
| <code>\subset</code>                        | \زیرمجموعه                 |
| <code>\subsetneq</code>                     | \زیرمجموعه مس              |
| <code>\supereject</code>                    | \امنهای صفحه               |
| <code>\suppressfloats</code>                | \حذف مکان شناور            |
| <code>\@tempa</code>                        | \موقت آ                    |
| <code>\@tempb</code>                        | \موقتب                     |
| <code>\@tempc</code>                        | \موقتب پ                   |
| <code>\@tempd</code>                        | \موقتب ت                   |
| <code>\@tempe</code>                        | \موقتب ث                   |
| <code>\@tempboxa</code>                     | \کادرقت آ                  |
| <code>\@tempcnta</code>                     | \شماقت آ                   |
| <code>\@tempcntb</code>                     | \شماقت ب                   |
| <code>\@tempdima</code>                     | \بعدقت آ                   |
| <code>\@tempdimb</code>                     | \بعدقت ب                   |
| <code>\@tempdimc</code>                     | \بعدقت پ                   |
| <code>\@tempskipa</code>                    | \فاقت آ                    |
| <code>\@tempskipb</code>                    | \فاقت ب                    |
| <code>\@tempswafalse</code>                 | @سواقت آنادرست             |
| <code>\@tempswatrue</code>                  | @سواقت آدرست               |
| <code>\@temptokena</code>                   | @جزقت آ                    |
| <code>\@thefnmark</code>                    | \انگ زیرنویس               |
| <code>\@thirdofthree</code>                 | @سومی از سه                |
| <code>\tabbingsep</code>                    | \فاصله جاگذاری             |
| <code>\tabcolsep</code>                     | \فاصله بین ستونها          |
| <code>\tableofcontents</code>               | \فهرست مطالب               |
| <code>\tablename</code>                     | \عنوان جدول                |
| <code>\tabskip</code>                       | \فاصله ستونها              |
| <code>\tabularnewline</code>                | \ته سطر جدول               |
| <code>\tag</code>                           | \اتیکت                     |
| <code>\telephone</code>                     | \تلفن                      |
| <code>\TeX</code>                           | \اتک                       |
| <code>\text</code>                          | \متن                       |
| <code>\textbullet</code>                    | \گلوله متنی                |
| <code>\textfont</code>                      | \قلم متن                   |
| <code>\textemdash</code>                    | \ام دش متنی                |
| <code>\textendash</code>                    | \ان دش متنی                |
| <code>\textexclamdown</code>                | \تعجب وارونه متنی          |
| <code>\textperiodcentered</code>            | \نقطه وسط متنی             |
| <code>\textquestiondown</code>              | \سوال وارونه متنی          |

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| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \textquotedblleft  | \نقل چپ متنی دولا          |
| \textquotedblright   | \نقل راست متنی دولا        |
| \textquotleft  | \نقل متنی چپ               |
| \textquotright   | \نقل متنی راست             |
| \textvisiblespace  | \فضای نمایان متنی          |
| \textbackslash   | \شکافت پشت متنی            |
| \textbar   | \امیله متنی                |
| \textgreater   | \بزرگ تر متنی              |
| \textless  | \کمتر متنی                 |
| \textbf  | \متن سیاه                  |
| \textcircled   | \مدور متنی                 |
| \textcolor   | \رنگ متن                   |
| \textcompwordmark  | \انسان کلمه مرکب متن       |
| \textfloatsep  | \فاصله متن و شناور         |
| \textfraction  | \نسبت متن                  |
| \textheight  | \بلندای متن                |
| \textindent  | \متن تورفتہ                |
| \textit  | \متن ایتالیک               |
| \textmd  | \متن نازک                  |
| \textnormal  | \متن نرمال                 |
| \textregistered  | \ثبتی متنی                 |
| \textrm  | \متن رومان                 |
| \textsc  | \متن تمام بزرگ             |
| \textsf  | \متن سن سریف               |
| \textsl  | \متن خوابیده               |
| \textstyle   | \سبک متنی                  |
| \textsuperscript   | \بالانویس متنی             |
| \texttrademark   | \علامت تجاری متنی          |
| \texttt  | \متن تایپ                  |
| \textup  | \متن ایستاده               |
| \textwidth   | \پهنهای متن                |
| \thanks  | \ازیرنویس عنوان            |
| \the   | \محتوای                    |
| \thempfn   | \اين زيرنویس               |
| \thicklines  | \خط ها ضخیم                |
| \thickmuskip   | \فاصله زيادي رياضي         |
| \thinmuskip  | \فاصله کم رياضي            |
| \thickspace  | \فضاضخیم                   |
| \thinlines   | \خط هانازک                 |
| \thinspace   | \دوری کوچک                 |
| \thisfancypage   | \اين صفحه تجملی            |
| \thispagestyle   | \سبک اين صفحه              |
| \thr@@   | @سه\                       |
| \tilde   | مد\                        |

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| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \tiny  | \ظریف                      |
| \time  | \زمان                      |
| \times   | \ضرب در                    |
| \title   | \عنوان                     |
| \to  | \به                        |
| \today   | \امروز                     |
| \toks  | \جزء                       |
| \toksdef   | \تعريف جزء                 |
| \tolerance   | \حدبندنایی                 |
| \top   | \بالا                      |
| \topfigrule  | \خط بالای شناور            |
| \topfraction   | \نسبت بالا                 |
| \topmargin   | \حاشیه بالا                |
| \topmark   | \علامت بالا                |
| \topskip   | \کادر تابلا                |
| \topsep  | \فاصله بالای لیست          |
| \topskip   | \فاصله بالا                |
| \totalheight   | \بلندای کل                 |
| \tracingall  | \ردگیری کل                 |
| \tracingcommands   | \ردگیری فرامین             |
| \tracinglostchars  | \ردگیری حروف               |
| \tracingmacros   | \ردگیری ماکروها            |
| \tracingonline   | \ردگیری نمایشی             |
| \tracingoutput   | \ردگیری صفحه بندی          |
| \tracingpages  | \ردگیری صفحات              |
| \tracingparagraphs   | \ردگیری بندها              |
| \tracingrestores   | \ردگیری بازگردنی           |
| \tracingstats  | \ردگیری آمارها             |
| \triangle  | \مثلث                      |
| \ttdefault   | \پیش فرض تایپ              |
| \ttfamily  | \فamil تایپ                |
| \tw@   | @\دو                       |
| \twocolumn   | \دو ستون                   |
| \typein  | \درنویس                    |
| \typeout   | \برنویس                    |
| \uccode  | \کد بزرگ                   |
| \uchyph  | \تیره بندی بزرگ            |
| \undefined   | \تعريف نشده                |
| \underline   | \زیر خط                    |
| \unhbox  | \بی کادر                   |
| \unhcopy   | \بی کپی                    |
| \unitlength  | \واحد طول                  |
| \unkern  | \برگشت دوری                |
| \unpenalty   | \برگشت جریمه               |

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| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \unskip  | \برگشت فاصله               |
| \unvbox  | \بی کادر و                 |
| \unvcopy   | \بی کپی و                  |
| \updefault   | \پیش فرض ایستاده           |
| \upshape   | \اشکل ایستاده              |
| \usebox  | \از کادر                   |
| \usecounter  | \با شمارشگر                |
| \usefont   | \گزینش قلم                 |
| \usepackage  | \سبک لازم                  |
| \@vobeyspaces  | \فضاهای فعال               |
| \@void   | \@ تهی                     |
| \vadjust   | \تنظیم و                   |
| \valign  | \ردیف و                    |
| \value   | \محتوای شمارنده            |
| \vbadness  | \بد نمایی و                |
| \vbox  | \کادر و                    |
| \vcenter   | \کادر و سط                 |
| \verb  | \همانطور                   |
| \vfil  | \پرو                       |
| \vfill   | \پر رو                     |
| \vfilneg   | \رفع پر رو                 |
| \vfuzz   | \پر زعمودی                 |
| \visible   | \نمایان                    |
| \vline   | \خط عمود                   |
| \voffset   | \حاشیه و                   |
| \voidb@x   | \ک در تهی                  |
| \vpageref  | \ارجاع صفحه ع              |
| \vrboxsep  | \فاصله و گرد               |
| \vref  | \ارجاع ع                   |
| \rule  | \خط و                      |
| \vsize   | \طول صفحه                  |
| \vskip   | \فاصله و                   |
| \vspace  | \فضای و                    |
| \vsplit  | \اشکست و                   |
| \vss   | \هر دو و                   |
| \vtop  | \کادر گرد                  |
| \wd  | \عرض                       |
| \whiledo   | \مادام بکن                 |
| \widehat   | \کلاه پهن                  |
| \widetilde   | \مد پهن                    |
| \widowpenalty  | \حریمه ته بند              |
| \width   | \پهنا                      |
| \wlog  | \در کارنامه                |
| \write   | \بنویس                     |

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| Command in T <sub>E</sub> X or L <sub>A</sub> T <sub>E</sub> X | Equivalent Persian Command |
|--|----------------------------|
| \@xobeysp  | @فضای لاتین\               |
| \@xxxii  | دو@سی\                     |
| \xdef  | ترجم\                      |
| \xleaders  | انشانگرگسترشی\             |
| \xspaceskip  | افاصله اضافی کلمات\        |
| \year  | سال\                       |
| \z@  | فر@\                       |
| \z@skip  | فرافصله@\<br>@\<br>\       |

Table 2: The Equivalent XePersian Commands

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

Continued on next page

| Command in XePersian       | Equivalent Persian Command |
|----------------------------|----------------------------|
| \setdefaultbibitems        | \بگذارم رجوعات عادی        |
| \setdefaultmarginpar       | \بگذار در حاشیه عادی       |
| \setdigitfont              | \اگزینش قلم اعداد فرمولها  |
| \setfootnoteLR             | \بگذار زیرنویس چپ          |
| \setfootnoteRL             | \بگذار زیرنویس راست        |
| \setlatintextfont          | \اگزینش قلم لاتین متن      |
| \setLTR                    | \بگذار متن چپ              |
| \setLTRbibitems            | \بگذار مرجوعات چپ          |
| \setLTRmarginpar           | \بگذار در حاشیه چپ         |
| \setRTL                    | \بگذار متن راست            |
| \setRTLbibitems            | \بگذار مرجوعات راست        |
| \setRTLmarginpar           | \بگذار در حاشیه راست       |
| \settextfont               | \اگزینش قلم متن            |
| \textwidthfootnoterule     | \خط زیرنویس پهنه‌ای متن    |
| \twocolumnstableofcontents | \فهرست مطالب دوستونی       |
| \unsetfootnoteRL           | \انگذار زیرنویس راست       |
| \unsetLTR                  | \انگذار متن چپ             |
| \unsetRTL                  | \انگذار متن راست           |
| \vboxL                     | \کادر رواز چپ              |
| \vboxR                     | \کادر رواز راست            |
| \XeTeX                     | \ازی لاتک                  |
| \XePersian                 | \ازی پرشین                 |
| \xepersianversion          | \گونه‌زی پرشین             |
| \xepersiandate             | \تاریخ گونه‌زی پرشین       |
| \XeTeX                     | \ازی تک                    |

Table 3: The Equivalent L<sup>A</sup>T<sub>E</sub>X Environments

| Environment in L <sup>A</sup> T <sub>E</sub> X | Equivalent Persian Environment |
|--|--------------------------------|
| abstract                                       | چکیده                          |
| appendix                                       | پیوست                          |
| array  | آرایه                          |
| center   | وسط چین                        |
| description                                    | توضیح                          |
| displaymath                                    | ریاضی نمایشی                   |
| document                                       | نوشتار                         |
| enumerate                                      | شمارش                          |
| figure   | شکل                            |
| figure*  | شکل *                          |
| filecontents                                   | محتوای پرونده                  |
| filecontents*                                  | محتوای پرونده *                |
| flushleft                                      | چپ چین                         |
| flushright                                     | راست چین                       |
| itemize  | فقرات                          |
| letter   | نامه                           |
| list   | لیست                           |
| longtable                                      | جدول دراز                      |

*Continued on next page*

| Environment in L <sup>A</sup> T <sub>E</sub> X | Equivalent Persian Environment |
|--|--------------------------------|
| lrbox  | کادر رج                        |
| math   | ریاضی                          |
| matrix   | ماتریس                         |
| minipage                                       | صفحه کوچک                      |
| multicols                                      | چند ستونی ها                   |
| multiline                                      | چند خطی                        |
| note   | یادداشت                        |
| overlay  | انباشت                         |
| picture  | تصویر                          |
| quotation                                      | اقتباس                         |
| quote  | نقل                            |
| slide  | اسلاید                         |
| sloppypar                                      | پارنامه رتب                    |
| split  | شکافتن                         |
| subarray                                       | زیر آرایه                      |
| tabbing  | جاگذاری                        |
| table  | لوح                            |
| table*   | لوح*                           |
| tabular  | جدول                           |
| tabular*                                       | جدول*                          |
| thebibliography                                | مراجع                          |
| theindex                                       | محظوای نمایه                   |
| titlepage                                      | صفحه عنوان                     |
| trivlist                                       | لیست بدروی                     |
| verbatim                                       | همانطور که هست                 |
| verbatim*                                      | همانطور که هست*                |
| verse  | شعر                            |

Table 4: The Equivalent XePersian Environments

| Environment in XePersian | Equivalent Persian Environment |
|--------------------------|--------------------------------|
| latin                    | لاتین                          |
| LTR                      | متن چپ                         |
| LTRitems                 | دسته بندی چپ                   |
| persian                  | پارسی                          |
| RTL                      | متن راست                       |
| RTLitems                 | دسته بندی 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 L<sup>A</sup>T<sub>E</sub>X position arguments

| Position argument in L <sup>A</sup> T <sub>E</sub> X | Equivalent Persian position argument |
|--|--------------------------------------|
| b  | ز                                    |
| c  | و                                    |
| C  | س                                    |
| h  | ا                                    |

*Continued on next page*

### Position argument in L<sup>A</sup>T<sub>E</sub>X    Equivalent Persian position argument

|   |   |
|---|---|
| H | آ |
| J | ت |
| l | ج |
| L | ف |
| m | م |
| p | پ |
| P | ص |
| r | ر |
| R | ا |
| s | ک |
| t | ب |

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

#### 2.4.5 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           | پیش‌نویس               |
| origin          | مبدأ                   |
| clip            | بی‌اضافه               |
| keepaspectratio | حفظ تناسب              |
| natwidth        | پهناي طبیعی            |
| natheight       | بلندای طبیعی           |
| bb              | مختصات                 |
| viewport        | محدوده نمایش           |
| trim            | حذف اطراف              |
| angle           | زاویه                  |
| width           | پهنا                   |
| height          | بلندای                 |
| 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                            |

*Continued on next page*

| Original Key value | Equivalent Persian Key value |
|--------------------|------------------------------|
| false              | نادرست                       |
| l                  | ج                            |
| r                  | ر                            |
| t                  | ب                            |
| true               | درست                         |

#### 2.4.6 Localizations of font features and font feature options

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

Table 8: Persian Equivalent font features

| Original font feature | Equivalent Persian font feature |
|-----------------------|---------------------------------|
| ExternalLocation      | مکان خارجی                      |
| ExternalLocation      | مسیر                            |
| Renderer              | تحویل دهنده                     |
| BoldFont              | قلم سیاه                        |
| Language              | زبان                            |
| Script                | خط                              |
| UprightFont           | قلم عمودی                       |
| ItalicFont            | قلم ایتالیک                     |
| BoldItalicFont        | قلم ایتالیک سیاه                |
| SlantedFont           | قلم خوابیده                     |
| BoldSlantedFont       | قلم خوابیده سیاه                |
| SmallCapsFont         | قلم کلاه کوچک                   |
| UprightFeatures       | ویرگی های قلم عمودی             |
| BoldFeatures          | ویرگی های قلم سیاه              |
| ItalicFeatures        | ویرگی های قلم ایتالیک           |
| BoldItalicFeatures    | ویرگی های قلم ایتالیک سیاه      |
| SlantedFeatures       | ویرگی های قلم خوابیده           |
| BoldSlantedFeatures   | ویرگی های قلم خوابیده سیاه      |
| SmallCapsFeatures     | ویرگی های قلم کلاه کوچک         |
| SizeFeatures          | ویرگی های اندازه                |
| Scale                 | ضریب                            |
| WordSpace             | فضای کلمه                       |
| PunctuationSpace      | فضای نقطه گذاری                 |
| FontAdjustment        | تنظیم قلم                       |
| LetterSpace           | فضای حرف                        |
| HyphenChar            | نویسه تیره                      |
| Color                 | رنگ                             |
| Opacity               | کدری                            |
| Mapping               | نگاشت                           |
| Weight                | سنگینی                          |
| Width                 | پهنا                            |
| OpticalSize           | اندازه چشمی                     |
| FakeSlant             | خوابیده تقلیلی                  |

*Continued on next page*

| Original font feature | Equivalent Persian font feature |
|-----------------------|---------------------------------|
| FakeStretch           | کشش تقلیبی                      |
| FakeBold              | سیاه تقلیبی                     |
| AutoFakeSlant         | خواهید تقلیبی خودکار            |
| AutoFakeBold          | سیاه تقلیبی خودکار              |
| Ligatures             | دو با چند حرف متصل به هم        |
| Alternate             | متناوب                          |
| Variant               | گوناگون                         |
| Variant               | مجموعه سبکی                     |
| CharacterVariant      | گوناگونی نویسه                  |
| ScriptStyle           | سبک اسکریپت                     |
| ScriptScriptStyle     | سبک اسکریپت اسکریپت             |
| Style                 | سبک                             |
| Annotation            | یادداشت                         |
| RawFeature            | ویرگی های کال                   |
| CharacterWidth        | پهنهای نویسه                    |
| Numbers               | ارقام                           |
| Contextuals           | منتهی                           |
| Diacritics            | تفکیک کننده ها                  |
| Letters               | حروف                            |
| Kerning               | دوری                            |
| VerticalPosition      | موقعیت عمودی                    |
| Fractions             | كسر                             |

Table 9: Persian Equivalent font feature options

| font feature | font feature option | Persian font feature option |
|--------------|---------------------|-----------------------------|
| Language     | Default             | پیش فرض                     |
| Language     | Parsi               | پارسی                       |
| Script       | Parsi               | پارسی                       |
| Script       | Latin               | لاتین                       |

## 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 زیرقسمت}
16 ...
17 \end{document}

```

## 2.6 Font Commands

### 2.6.1 Basic Font Commands

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

- ☞ Options in any font command in this documentation are anything that `fontspec` package provides as the option of loading fonts, except `Script` and `Mapping`.
- ☞ `\settextfont` will choose the default font for Persian texts of your document. If you do not use this command at all, the Persian Modern<sup>2</sup> font will be used 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 and if you do not use this command at all, the Persian Modern font for digits in math mode will be used.
- ☞ `\setmathsf digitfont` will choose the Persian font for digits in math mode inside `\mathsf`. By using this command, digits in math mode inside `\mathsf` will appear in Persian form and if you do not use this command at all, you will get default T<sub>E</sub>X font for digits in math mode inside `\mathsf` and digits appear in their original form (Western).
- ☞ `\setmathtt digitfont` will choose the Persian font for digits in math mode inside `\mathtt`. By using this command, digits in math mode inside `\mathtt` will appear in Persian form and if you do not use this command at all, you will get default T<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. You do not need to install Persian Modern fonts since they are already included in your TeX distribution.

### 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>}
```

If you do not use  
`\setiranicfont`  
command at all, the  
Persian Modern font  
will be used.

### 2.6.5 Choosing Persian Iranic Font

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

### 2.6.6 Choosing Persian Navar Font

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

If you do not use  
`\setpookfont`  
command at all, the  
Persian Modern font  
will be used.

If you do not use  
`\setsayehfont`  
command at all, the  
Persian Modern font will  
be used.

### 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 \textssf{\<text>}
```

### 2.6.10 Choosing Latin Mono Font

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

## 3 Latin and Persian Environment

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

- ☞ latin environment both changes direction of the paragraphs to LTR and font to Latin font.
- ☞ persian environment both changes direction of the Paragraphs to RTL and font to Persian font.

### 3.1 latinitems and parsiitems environments

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

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

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

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

### 3.2 Short Latin and Persian Texts

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

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

### 3.3 Miscellaneous Commands

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

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

### 3.4 New Commands

```
\Latincite
```

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

### 3.5 Additional Counters

XePersian defines several additional counters to what already L<sup>A</sup>T<sub>E</sub>X offers. These counters are **harfi**, **adadi**, and **tartibi**. In addition, the following commands are also provided:

```
\harfinumeral{\langle integer\rangle} \adadinumeral{\langle integer\rangle} \tartibinumeral{\langle integer\rangle}
```

- ☞ 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  $1 \leq \text{integer} \leq 32$  and **\adadinumeral**, and **\tartibinumeral** return **adadi**, and **tartibi** form of *\langle integer\rangle* respectively, where  $0 \leq \text{integer} \leq 999,999,999$ .

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

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

- ☞ As we discussed before, **\setdigitfont** will choose the Persian font for digits in math mode. By default, digits in math mode will appear in Persian form and if you do not use this command at all, the Persian Modern font for digits in math mode will be used.
- ☞ As we discussed before, **\setmathsf digitfont**, and **\setmathtt digitfont** will choose the Persian sans serif and typewriter fonts for digits in math mode. By using this command, digits in math mode will appear in Persian form and if you do not use this command at all, you will get default T<sub>E</sub>X font for digits in math mode and digits appear in their original form (Western). If you use **\setdigitfont**, **\setmathsf digitfont**, and **\setmathtt digitfont**, then you should know that:
  - ☞ By default, **\AutoMathsDigits** is active, which means that in Persian mode, you get Persian digits in math mode and in Latin mode, you get T<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

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

## 5 Bilingual Captions

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

### 5.1 Support For Various Packages

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

#### 5.1.1 Things You Should Know about Support For enumerate Package

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

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

In addition with the extra support that XePersian provides, an occurrence of one of the tokens ل, ئ, 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  $\text{\TeX}$  expressions, however the tokens A, a, I, i, 1, ل, ئ, 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 Farsi $\text{\TeX}$ Files To XePersian or Unicode

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

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

This will convert your `file.ftx` (Farsi $\text{\TeX}$  file) to `file.tex` (XePersian file).

The general syntax of using the python script is as follow:

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

Where

`-r` (DEFAULT) recursively consider files included in the given files

`-s` do not recursively consider files

`-x` (DEFAULT) insert XePersian related commands

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

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

## 6 Extra Packages And Classes

### 6.1 Magazine Typesetting

#### 6.1.1 Introduction

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

#### 6.1.2 Usage

To create<sup>3</sup> a magazine just load the class as usual<sup>4</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](#).

---

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

4. 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.

### 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 caption; `\langle image \rangle` defines the relative path to the image. In order to include the first piece of article use

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

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

```
\secondarticle
```

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

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

The new arguments `\langle subtitle \rangle` and `\langle pagesof \rangle` define a subtitle and the name of the section for this piece of article.

```
\thirdarticle
```

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

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

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

The front page includes three information blocks besides the news: `indexblock` which contains the index, `authorblock` which includes information about the author and a `weatherblock` containing a weather forecast. All these three environments are mostly a frame in the front page therefore they can be redefined to fit your personal wishes but I kept them to give an example and to 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 [subsubsection 6.1.4](#). In order to get a correct output, it is necessary to leave a blank line between index items.

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

```
\weatheritem
```

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

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

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

#### 6.1.4 Inside

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

#### 6.1.5 The article environment

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

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

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

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

```
\authorandplace \timestamp
```

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

```
\image
```

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

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

```
\columntitle \expandedtitle
```

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

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

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

### 6.1.6 The editorial environment

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

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

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

### 6.1.7 The shortarticle environment

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

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

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

### 6.1.8 Commands between articles

```
\articlesep \newsection
```

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

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

### 6.1.9 Customization

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

### 6.1.10 Front Page

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

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

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

```
\edition \editionformat
```

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

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

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

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

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

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

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

```
\pictureCaptionFormat \pagesFormat
```

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

#### 6.1.11 Inside The Magazine

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

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

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

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

```
\innerTextFinalMark
```

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

```
\minraggedcols \raggedFormat
```

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

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

```
\heading \foot
```

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

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

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

### 6.1.12 Class Options

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

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

**9pt** (false) Allows the 9pt font size that article class does not include (default is 10pt).  
**columnlines** columnlines (false) Adds lines between columns in the entire xepersian-magazine. The default line width is 0.1pt but it is possible to change this by setting length `\columnlines` in the preamble.

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

## 6.2 Typesetting Multiple-choice Questions

### 6.2.1 Introduction

xepersian-multiplechoice is a package for making multiple choices questionnaires under L<sup>A</sup>T<sub>E</sub>X. 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 \ جواب
4 \false \ جواب
5 \false \ 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 L<sup>A</sup>T<sub>E</sub>X counter named `question`. This counter stores the number of the next (or current) question. It is initialized to 1, and automatically incremented at the end of question environments. You might want to use it to format question titles. For instance, you could decide that each question belongs to a subsection in the `article` class, and use something like this before each question: `\subsection*{Question \thequestion}`

### 6.2.7 The Form and the Mask

```
\makeform \makemask
```

Based on the questions appearing in your document, `xepersian-multiplechoice` has the ability to generate a “form” (a grid that your students will have to fill in), and a

“mask” (the same grid, only with correct answers properly checked in). This can make the correction process easier.

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

#### 6.2.8 Typesetting corrections

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

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

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

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

#### 6.2.9 Important Note

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

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

### 6.3 Customising The Package

#### 6.3.1 The `question` environment

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

`\questionspace` is the amount of extra vertical space to put under the question, before the list of proposed answers. This is a  $\text{\LaTeX}$  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.