



The XePersian Package

User documentation for version 22.7

to my Master, Ferdowsi The Great

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

<https://github.com/vafa-ac/xepersian/issues>

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

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The XePersian Package

Persian for L^AT_EX 2_E, using XeT_EX engine

User documentation for version 22.7

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1 Introduction

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

1.1 Important Notes

- ☒ The XePersian package only works with Xe^ET_EX 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 ^ET_EX 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 ^ET_EX document, and then run `xelatex` on your document, in addition to what bidi package writes to the terminal and to the log file, the XePersian package also writes some information about itself to the terminal and to the log file, too. The information is something like:

```
*****
*
* xepersian package (Persian for LaTeX, using XeTeX engine)
*
* Description: The package supports Persian
* typesetting, using fonts provided in the
* distribution.
*
* Copyright (c) 2008--2019 Vafa Khalighi
*
* v22.7, 2019/05/01
*
* License: LaTeX Project Public License, version
* 1.3c or higher (your choice)
*
* Location on CTAN: /macros/xetex/latex/xepersian
*
* Issue tracker: https://github.com/vafa-ac/xepersian/issues
```



```
*  
*****
```

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 TeX but lion does not symbolizes XePersian. **Simorgh**¹ (shown on the first page of this documentation) symbolizes XePersian.

2.3 Commands for Version number, and Date of The Package

```
\xepersianversion \xepersiandate
```

☞ \xepersianversion gives the current version of the package.

☞ \xepersiandate gives the current date of the package.

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

2.4 Options of The Package

There are few options:

2.4.1 defaultlatinfontfeatures Option

```
defaultlatinfontfeatures=<value>
```

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

2.4.2 extrafootnotefeatures Option

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

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



2.4.3 Kashida Option

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

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

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

```
\KashidaOn \KashidaOff
```

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

☞ `\KashidaOff` disables Kashida.

2.4.4 quickindex Option

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

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

2.4.5 quickindex-variant1 Option

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

2.4.6 quickindex-variant2 Option

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

2.4.7 localise Option

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



Please note that the Persian equivalents of L^AT_EX and T_EX 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 L^AT_EX and T_EX commands and environments, but still original L^AT_EX and T_EX commands and environments work too.

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

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

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

Table 1: The Equivalent L^AT_EX and T_EX Commands

| Command in T _E X or L ^A T _E X | Equivalent Persian Command |
|--|----------------------------|
| <code>\@arstrut</code> | \شمع جدول |
| <code>\above</code> | \فوق |
| <code>\abovedisplayshortskip</code> | \افاصله کوتاه بالای نمایش |
| <code>\abovedisplayskip</code> | \افاصله بالای نمایش |
| <code>\abstractname</code> | \عنوان چکیده |
| <code>\accent</code> | \اکسنت |
| <code>\active</code> | \فعال |
| <code>\addcontentsline</code> | \بیفزاسطرفهرست |
| <code>\addpenalty</code> | \اضافه برجیمه |
| <code>\address</code> | \نشانی |
| <code>\addtocontents</code> | \بیفزابه فهرست |
| <code>\addtocounter</code> | \اضافه بر شمارنده |
| <code>\addtolength</code> | \اضافه برعید |
| <code>\addvspace</code> | \بیفزاضای و |
| <code>\adjdemerits</code> | \تنظیم بد نمایی |
| <code>\advance</code> | \بیفزابر |
| <code>\afterassignment</code> | \بعد از انتساب |
| <code>\aftergroup</code> | \بعد از گروه |
| <code>\aleph</code> | \الف |
| <code>\aliasfontfeature</code> | \خصیصه مستعار قلم |
| <code>\aliasfontfeatureoption</code> | \انتخاب خصیصه مستعار قلم |

Continued on next page



| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \allowbreak | \شکستنی |
| \alloc@ | @تخصیص |
| \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 آغازنوشتار |
| \AtEndDocument | \در پایان نوشتار |
| \AtEndOfClass | \در انتهای طبقه |
| \AtEndOfPackage | \در انتهای سبک |
| \author | \نویسنده |
| \backmatter | \مطلوب پشت |
| \backslash | \شکاف پشت |
| \badness | \ابد نمایی |
| \bar | \امیله |
| \baselineskip | \فاصله کرسی |
| \baselinestretch | \کشش فاصله کرسی |
| \batchmode | \پردازش دسته ای |
| \begin | \شروع |
| \beginL | \شروع چپ |
| \beginR | \شروع راست |
| \begingroup | \شروع گروه |
| \belowdisplayshortskip | \فاصله کوتاه پایین نمایش |
| \belowdisplayskip | \فاصله پایین نمایش |
| \bf | \سیاه |
| \bfdefault | \پیش فرض سیاه |
| \bfseries | \شمایل سیاه |
| \bgroup | \شرگروه |
| \bibitem | \مرجوع |

Continued on next page



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

Continued on next page



| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \closing | \بستن |
| \clubpenalty | \حریمه سربند |
| \clubsuit | \خاچ |
| \colbotmark | \علامت پایین ستون اول |
| \colfirstmark | \علامت اول ستون اول |
| \color | \رنگ |
| \colorbox | \کادر رنگ |
| \coltopmark | \علامت بالای ستون اول |
| \columncolor | \رنگ ستون |
| \columnsep | \ابین ستون |
| \columnwidth | \پهنهای ستون |
| \columnseprule | \خط بین ستون |
| \contentsline | \اسطر فهرست |
| \contentsname | \عنوان فهرست مطالب |
| \copy | \کپی |
| \copyright | \حق تالیف |
| \count | \شمار |
| \count@ | @\شمار |
| \countdef | \تعريف شمار |
| \cr | \اسخ |
| \crcr | \اسخ سخ |
| \csname | \نام فرمان |
| \CurrentOption | \گزینه جاری |
| \dashbox | \کادر بینایی |
| \dashv | \ابینایی 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 |
| \dblfntlocatecode | \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 |

Continued on next page



| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \DeclareOption | \اعلان_گزینه |
| \DeclareRobustCommand | \اعلان_فرمان_قوی |
| \DeclareSymbolFont | \اعلان_قلم_علائم |
| \deadcycles | \دوربسته |
| \def | \تر |
| \define@key | \تعريف_@کلید |
| \definecolor | \تعريف_رنگ |
| \deg | \درجہ |
| \delcode | \کد_جدا_ساز |
| \delimiter | \ جدا_ساز |
| \delimiterfactor | \ضریب_جدا_ساز |
| \depth | \گودی |
| \diamondsuit | \خشت |
| \dim | \ابعاد |
| \dimen | \بعد |
| \dimen@ | \بعد_@ |
| \dimen@i | \بعد_یک |
| \dimen@ii | \بعد_دو |
| \dimendef | \تعريف_بعد |
| \discretionary | \تیره_گذاری |
| \displaybreak | \شکست_نمایش |
| \displayindent | \تورفتگی_نمایش |
| \displaystyle | \سبک_نمایش |
| \displaywidth | \عرض_نمایش |
| \divide | \ تقسیم |
| \documentclass | \طبقه_نوشتار |
| \do | \کن |
| \dospecials | \تغییض_کدها |
| \dot | \ نقطه |
| \doteq | \ نقطه_مساوی |
| \dotfill | \ پر نقطه_ا |
| \dots | \ نقاط |
| \doublebox | \کادر_دوا |
| \doublerulesepcolor | \رنگ_فاصله_دو_خط_جدول |
| \doublerulesep | \فاصله_بین_دو_خط |
| \downarrow | \فلش_پایین |
| \dp | \عمق |
| \dump | \تخلیه |
| \edef | \ترگ |
| \egroup | \پاگروه |

Continued on next page



| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \eject | \انتهای فاصله |
| \else | \گرنه |
| \em | \اتاکید |
| \emergencystretch | \اکشش لاجرم |
| \emph | \موکد |
| \empty | \@_@ |
| \emptyset | \اپوچ |
| \end | \اپیان |
| \endL | \اپیان چپ |
| \endR | \اپیان راست |
| \endcsname | \اپیان نام فرمان |
| \endfirsthead | \اپیان اولین سر |
| \endfoot | \اپیان پا |
| \endgraf | \اته بند |
| \endgroup | \اپیان گروه |
| \endhead | \اپیان سر |
| \endinput | \اپیان ورودی |
| \endlastfoot | \اپیان آخرین پا |
| \enlargethispage | \گسترش این صفحه |
| \endline | \تھ سطر |
| \endlinechar | \نویسه تھ سطر |
| \enspace | \ان دوری |
| \enskip | \ان فاصله |
| \eqcommand | \فرمان جانشین |
| \eqenvironment | \محیط جانشین |
| \eqref | \ارجاع فر |
| \errhelp | \کمک خطأ |
| \errmessage | \پیام خطأ |
| \errorcontextlines | \اسطرمتن خطأ |
| \errorstopmode | \پردازش توقف خطأ |
| \escapechar | \نویسه ویره |
| \euro | \یورو |
| \evensidemargin | \حاشیه زوج |
| \everycr | \ھرسخ |
| \everydisplay | \ھرنمايش |
| \everyhbox | \ھر کادر |
| \everyjob | \ھر کار |
| \everymath | \ھر ریاضی |
| \everypar | \ھربند |

Continued on next page



| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \everyvbox | \هرکادر و |
| \ExecuteOptions | \اجرای گزینه ها |
| \exhyphenpenalty | \جريمه اضافی تیره بندی |
| \expandafter | \بگستر پس از |
| \extracolsep | \فاصله اضافی بین ستونها |
| \@firstofone | \اولی از یک |
| \@firstoftwo | \اولی از دو |
| \f@ur | \ج@ار |
| \fam | \خانواده |
| \fancypage | \صفحه تجملی |
| \fbox | \کادر ربا |
| \fboxrule | \ضخامت کادر ربا |
| \fboxsep | \حاشیه کادر ربا |
| \fcolorbox | \کادر ربارنگ |
| \fi | \اگر |
| \figurename | \عنوان شکل |
| \filbreak | \پرشکن |
| \fill | \پر |
| \firstmark | \علامت اول |
| \flat | \پهن |
| \floatpagefraction | \نسبت صفحه شناور |
| \floatingpenalty | \جريمه شناور |
| \floatsep | \فاصله بین شناور |
| \flushbottom | \تنظيم از پایین |
| \fmtname | \شکل بندی |
| \fmtversion | \ردہ شکل بندی |
| \fnsymbol | \نشانه |
| \font | \قلم |
| \fontdimen | \بعد قلم |
| \fontencoding | \رمزینه قلم |
| \fontfamily | \فamilی قلم |
| \fontname | \نام قلم |
| \fontseries | \شمایل قلم |
| \fontshape | \شكل قلم |
| \fontsize | \اندازه قلم |
| \footheight | \بلندای پایین صفحه |
| \footins | \درج زیرنویس |
| \footnote | \ازیرنویس |
| \footnotemark | \علامت زیرنویس |
| \footnoterule | \خط زیرنویس |

Continued on next page



| Command in TeX or ET _E X | Equivalent Persian Command |
|-------------------------------------|----------------------------|
| \footnotesep | \فاصله تازیزنویس |
| \footnotysize | \اندازه زیرنویس |
| \footnotetext | \متن زیرنویس |
| \footskip | \فاصله تاپایین صفحه |
| \frame | \فريم |
| \framebox | \کادر با خطر |
| \frenchspacing | \فو اصلی کنواخت لاتین |
| \frontmatter | \مطلوب پیش |
| \futurelet | \بعد بگذار |
| \@gobble | \@خور حریصانه دو |
| \@gobbletwo | \@خور حریصانه چهار |
| \@gobblefour | \@عاقبت آ |
| \@gtempa | \@عاقتب |
| \@gtempb | \ترع |
| \gdef | \الگوی اطلاع |
| \GenericInfo | \الگوی هشدار |
| \GenericWarning | \الگوی خطأ |
| \GenericError | \عام |
| \global | \تعاریف عام |
| \globaldefs | \لغت نامه |
| \glossary | \فقره فرهنگ |
| \glossaryentry | \خوش شکن |
| \goodbreak | \کاغذگراف |
| \graphpaper | \گیومه چپ |
| \guillemotleft | \گیومه راست |
| \guillemotright | \گیومه تکی چپ |
| \guilsinglleft | \گیومه تکی راست |
| \guilsinglright | \ردیف ا |
| \halign | \برو تو |
| \hang | \بعد از سطر |
| \hangafter | \تورفتگی ثابت |
| \hangindent | \بدنمایی ا |
| \hbadness | \کادرا |
| \hbox | \بلندای سرصفحه |
| \headheight | \فاصله از سرصفحه |
| \headsep | \سر به نام |
| \headtoname | \دل |
| \heartsuit | \بلندا |
| \height | \پرا |
| \hfil | |

Continued on next page



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

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| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \ifhbox | \اگرکادرا |
| \ifhmode | \اگرhalt ا |
| \ifinner | \اگدروني |
| \ifmmode | \اگرhalt رياضى |
| \ifnum | \اگرعدد |
| \ifodd | \اگرفرد |
| \ifthenelse | \اگرآنگاه دیگر |
| \iftrue | \اگردرست |
| \ifvbox | \اگرکادرو |
| \ifvmode | \اگرhalt و |
| \ifvoid | \اگرتنه |
| \ifx | \اگرتام |
| \ignorespaces | \فاصله خالي رانديده بگير |
| \immediate | \فورى |
| \include | \شامل |
| \includegraphics | \درج تصوير |
| \includeonly | \مشمولين |
| \indent | \تورفتگى |
| \index | \ادرنمايه |
| \indexentry | \استعلام |
| \indexname | \عنوان نمايه |
| \indexspace | \فاصله رهتما |
| \input | \ورودى |
| \InputIfFileExists | \ورودپرونده گرموجود |
| \inputlineno | \شماره سطرومودى |
| \insert | \درج |
| \insertpenalties | \جريمه درج |
| \interfootnotelinepenalty | \جريمه بين سطرهای زيرنويس |
| \interdisplaylinepenalty | \جريمه بين سطرهای نمايش |
| \interlinepenalty | \جريمه بين سطرها |
| \intertext | \متن داخلی |
| \intertextsep | \فاصله شناور در متن |
| \invisible | \امخفي |
| \itdefault | \بيش فرض اي |
| \itshape | \اشكل ايتاليك |
| \item | \فقره |
| \itemindent | \تورفتگي فقره |
| \itemsep | \فاصله فقره |
| \iterate | \اتکارك |
| \itshape | \اشكل اي |

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

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

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| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \makelabel | \ساختبرچسب |
| \makelabels | \ساختبرچسب‌ها |
| \MakeLowercase | \ساخت‌حروف‌کوچک |
| \maketitle | \عنوان‌ساز |
| \MakeUppercase | \ساخت‌حروف‌بزرگ |
| \marginpar | \درحاشیه |
| \marginparpush | \فاصله‌دوحاشیه |
| \marginparsep | \فاصله‌تاخashیه |
| \marginparwidth | \پهنای‌حاشیه |
| \mark | \علامت |
| \markboth | \علامت‌دردوطرف |
| \markright | \علامت‌درراست |
| \mathaccent | \اعراب‌ریاضی |
| \mathchar | \نویسه‌ریاضی |
| \mathchardef | \تعريف‌نویسه‌ریاضی |
| \mathcode | \کد‌ریاضی |
| \mathrm | \ریاضی‌رومن |
| \maxdeadcycles | \حداکثرتکرار |
| \maxdepth | \حداکثرعمق‌صفحه |
| \maxdimen | \بعدیشین |
| \mbox | \کادربی |
| \mdseries | \شمایل‌نازک |
| \meaning | \معنا |
| \mediumseries | \نازک |
| \medmuskip | \فاصله‌متوسط‌ریاضی |
| \medskip | \پرش‌متوسط |
| \medskipamount | \مقدار‌پرش‌متوسط |
| \medspace | \فضای‌متوسط |
| \message | \پیام |
| \MessageBreak | \پیام‌شکن |
| \minrowclearance | \حداقل‌فاصله‌ردیف |
| \mkern | \دوری‌ریاضی |
| \month | \ماه |
| \moveleft | \انتقال‌بچپ |
| \moveright | \انتقال‌براست |
| \mskip | \فاصله‌ریاضی |
| \m@th | \اری‌@‌ضی |
| \multicolumn | \چندستونی |
| \multiply | \ضرب |
| \multispan | \چندادغام |

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| Command in TeX or ET _E X | Equivalent Persian Command |
|-------------------------------------|----------------------------|
| \muskip | \میوفاصله |
| \muskipdef | \معرف میوفاصله |
| \@namedef | \ترنام |
| \@nameuse | @\کاربردنام |
| \@ne | @\یک |
| \name | \نام |
| \natural | \طبیعی |
| \nearrow | \باریک |
| \nearrower | \باریکتر |
| \NeedsTeXFormat | \شکلیندی 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 | \شمارجدید |
| \newcounter | \شمارنده جدید |
| \newdimen | \بعد جدید |
| \newenvironment | \محیط نو |
| \newfam | \اخناده جدید |
| \newfont | \قلم نو |
| \newhelp | \اکمک جدید |
| \newif | \اگر جدید |
| \newinsert | \درج جدید |
| \newlabel | \برچسب جدید |
| \newlength | \تعريف بعد جدید |
| \newline | \اسطرجدید |
| \newlinechar | \نویسه سطرجدید |
| \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 | \بی ردیف |
| \nobreak | \انشکن |

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| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \nobreakspace | \فاصله نشکستنی |
| \nocite | \ بدون سند |
| \noexpand | \ انگستر |
| \nofiles | \ بدون پرونده |
| \noindent | \ بدون تورفتگی |
| \nointerlineskip | \ بی فاصله سطر |
| \nolimits | \ بدون حد |
| \nolinebreak | \ سطرنشکن |
| \nonstopmode | \ پردازش بدون توقف |
| \nonfrenchspacing | \ فواصل متعارف لاتین |
| \nonumber | \ بدون شماره |
| \nopagebreak | \ صفحه نشکن |
| \normalbaselines | \ کرسیهای متعارف |
| \normalbaselineskip | \ فاصله کرسی متعارف |
| \normalcolor | \ رنگ عادی |
| \normalfont | \ قلم عادی |
| \normallineskip | \ فاصله سطرمتعارف |
| \normallineskiplimit | \ حدفاصله سطرمتعارف |
| \normalmarginpar | \ درحاشیه عادی |
| \normalsize | \ اندازه عادی |
| \notag | \ بدون اتیکت |
| \null | \ نول |
| \nullfont | \ قلم تهی |
| \number | \ عدد |
| \numberline | \ سطرعددی |
| \numberwithin | \ شماره مطابق |
| \@evenfoot | \ پایین صفحه زوج |
| \@evenhead | \ بالای صفحه زوج |
| \@oddfoot | \ پایین صفحه فرد |
| \@oddhead | \ بالای صفحه فرد |
| \@outeqntrue | \ شماره بیرون درست |
| \@outeqnfalase | \ شماره بیرون نادرست |
| \obeylines | \ سطربه سطر |
| \obeyspaces | \ فضاعمال |
| \oddsidemargin | \ حاشیه فرد |
| \offinterlineskip | \ سطوربی فاصله |
| \omit | \ حذف |
| \@onlypreamble | \ تنها در پیش درآمد |
| \onecolumn | \ یک ستون |
| \onlynotes | \ تنها یادداشت ها |

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| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \onlyslides | \انها اسلاید ها |
| \openin | \بازکن ورودی |
| \openout | \بازکن خروجی |
| \OptionNotUsed | \اگزینه مصرف نشده |
| \or | \یا |
| \outer | \برونی |
| \output | \صفحه بندی |
| \outputpenalty | \جریمه صفحه بندی |
| \overfullrule | \علامت سرریز |
| \@preamblecmds | \فرمان های پیش در آمد |
| \p@ | \پو@ |
| \PackageError | \خطای سبک |
| \PackageInfo | \اطلاع سبک |
| \PackageWarning | \هشدار سبک |
| \PackageWarningNoLine | \هشدار سبک بی سطر |
| \pagebreak | \صفحه شکن |
| \pagecolor | \رنگ صفحه |
| \pagedepth | \عمق صفحه |
| \pagefillstretch | \کشش پر ر صفحه |
| \pagefillstretch | \کشش پر ر صفحه |
| \pagefilstretch | \کشش پر ر صفحه |
| \pagegoal | \غایت صفحه |
| \pagename | \نام صفحه |
| \pagenumbering | \شماره گذاری صفحه |
| \pageref | \رجوع صفحه |
| \pagerulewidth | \ضخامت خط صفحه |
| \pageshrink | \فسرده گی صفحه |
| \pagestretch | \کشش صفحه |
| \pagestyle | \سبک صفحه |
| \pagetotal | \جمع صفحه |
| \paperheight | \بلندای کاغذ |
| \paperwidth | \پهنای کاغذ |
| \par | \بند |
| \paragraph | \پاراگراف |
| \parallel | \موازی |
| \parbox | \کادر پار |
| \parfillskip | \فاصله ته بند |
| \parindent | \تورفتگی سر بند |
| \parsep | \فاصله بند لیست |
| \parshape | \شکل بند |

Continued on next page



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

Continued on next page



| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \ref | \ارجع |
| \reflectbox | \کادرقرینه |
| \refname | \عنوان مراجع |
| \refstepcounter | \آگام شمارنده مرجع |
| \relax | \راحت |
| \removelastskip | \رفع آخرین فاصله |
| \renewcommand | \فرمان از تو |
| \renewenvironment | \محیط از تو |
| \repeat | \از تو |
| \RequirePackage | \سبک موردنیاز |
| \RequirePackageWithOptions | \سبک موردنیاز با گزینه |
| \resizebox | \کادرکشیده |
| \reversemarginpar | \در رحایشیه معکوس |
| \rfloor | \اکف ر |
| \right | \راست |
| \rightmargin | \حاشیه راست |
| \rightmark | \علامت راست |
| \rightskip | \کادر تراست |
| \rmdefault | \فاصله انتهای سطر |
| \rmfamily | \رومی عادی |
| \Roman | \فامیل رومی |
| \roman | \رومی بزرگ |
| \romannumeral | \رومی کوچک |
| \rotatebox | \اعد در رومی |
| \rowcolor | \کادر چرخان |
| \rule | \رنگ ردیف |
| \@secondoftwo | \خط |
| \@spaces | \دو می از دو |
| \samepage | \فضاها |
| \savebox | \همین صفحه |
| \sbox | \مقدار کادر |
| \scalebox | \مقکادر |
| \scdefault | \کادر اندازه |
| \scshape | \پیش فرض تمام بزرگ |
| \scriptfont | \شکل تمام بزرگ |
| \scriptscriptfont | \قلم توان |
| \scriptscriptstyle | \قلم توان توان |
| \scriptsize | \سبک ته نوشت ته نوشت |
| \scriptstyle | \اندازه پانویس |
| | \سبک ته نوشت |

Continued on next page



| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \scrollmode | \پردازش گذري |
| \section | \قسمت |
| \secdef | \تعريف قسمت |
| \see | \ببینيد |
| \seealso | \انیزببینید |
| \seename | \نامببینید |
| \selectfont | \قلمبردار |
| \setboolean | \تنظیم بولی |
| \setbox | \ادرکادر |
| \setcounter | \مقدار شمارنده |
| \setkeys | \مقدار کلیدها |
| \setlength | \مقدار بعد |
| \setminus | \تنظيم منها |
| \SetSymbolFont | \تعريف قلم علامت |
| \settodepth | \تنظیم به عمق |
| \settoheight | \تنظیم به ارتفاع |
| \settowidth | \مقدار بعدیه اندازه |
| \sfcode | \اکد ضریب فاصله |
| \sfdefault | \پیش فرض س ف |
| \sffamily | \فامیل سن سریف |
| \shadowbox | \کادر رسایه دار |
| \sharp | \تیز |
| \shipout | \بفرست |
| \shortstack | \پشتہ کوتاه |
| \show | \نمایش بدھ |
| \showbox | \نمایش بدھ کادر |
| \showboxbreadth | \میزان نمایش کادر |
| \showboxdepth | \عمق نمایش کادر |
| \showlists | \نمایش بدھ لیستها |
| \showthe | \نمایش بدھ محتوای |
| \simplefontmode | \حالت ساده قلم |
| \sixt@n | \شانزد @ |
| \skewchar | \نویسه اریب |
| \skip | \فاصله |
| \skip@ | \فاصله @ |
| \skipdef | \تعريف فاصله |
| \sl | \خوابیده |
| \sldefault | \پیش فرض خو |
| \slshape | \شکل خوابیده |
| \sloppy | \راحت چین |

Continued on next page



| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \slshape | \شمايل خو |
| \small | \کوچك |
| \smallskip | \پرش کوتاه |
| \smallskipamount | \مقدار پرش کوتاه |
| \smash | \کوب |
| \smile | \البند |
| \snglfntlocatecode | \اكمان همانطور |
| \space | \فضا |
| \spacefactor | \ضربي فاصله |
| \spaceskip | \فاصله کلمات |
| \spadesuit | \پيک |
| \span | \ادغام |
| \special | \ويژه |
| \splitmaxdepth | \حد اکثر عمق ستون |
| \splittopskip | \فاصله بالاي ستون |
| \star | \ستاره |
| \stepcounter | \گام شمارنده |
| \stretch | \اکشي |
| \string | \رشته |
| \strut | \شمع |
| \strutbox | \کادر شمع |
| \subitem | \زير بند |
| \subparagraph | \زير پارا گراف |
| \subsection | \زير قسمت |
| \substack | \زير پيشته |
| \subsubitem | \زير زير بند |
| \subsubsection | \زير زير قسمت |
| \subset | \زير مجموعه |
| \subsepeq | \زير مجموعه مس |
| \supereject | \امنهای صفحه |
| \suppressfloats | \حذف مكان شناور |
| \@tempa | \@موقت آ |
| \@tempb | \@موقت ب |
| \@tempc | \@موقت پ |
| \@tempd | \@موقت ت |
| \@tempe | \@موقت ث |
| \@tempboxa | \@کادر قلت آ |
| \@tempcnta | \@شماقت آ |
| \@tempcntb | \@شماقت ب |
| \@tempdima | \@بعد قلت آ |

Continued on next page



| Command in TeX or ET _E X | Equivalent Persian Command |
|-------------------------------------|----------------------------|
| \@tempdimb | @\بعدقت ب |
| \@tempdimc | @\بعدقت پ |
| \@tempskipa | @\فاقت آ |
| \@tempskipb | @\فاقت ب |
| \@tempswafalse | @\سواقت آنادرست |
| \@tempswatrue | @\سواقت آدرست |
| \@temptokena | @\جزقت آ |
| \@thefnmark | \انگ زیرنویس |
| \@thirdofthree | @\سومی ازسه |
| \tabbingsep | \فاصله جاگذاری |
| \tabcolsep | \فاصله بین ستونها |
| \tableofcontents | \فهرست مطالب |
| \tablename | \عنوان جدول |
| \tabskip | \فاصله ستونها |
| \tabularnewline | \ته سطرجدول |
| \tag | \اتیکت |
| \telephone | \تلفن |
| \TeX | \اتک |
| \text | \متن |
| \textbullet | \گلوله متنی |
| \textfont | \قلم متن |
| \textemdash | \ام دش متنی |
| \textendash | \ان دش متنی |
| \textexclamdown | \تعجب وارونه متنی |
| \textperiodcentered | \ نقطه وسط متنی |
| \textquestiondown | \سوال وارونه متنی |
| \textquotedblleft | \نقل چپ متنی دولا |
| \textquotedblright | \نقل راست متنی دولا |
| \textquotleft | \نقل متنی چپ |
| \textquotright | \نقل متنی راست |
| \textvisiblespace | \فضای نمایان متنی |
| \textbackslash | \شکافت پشت متنی |
| \textbar | \میله متنی |
| \textgreater | \بزرگ تر متنی |
| \textless | \کمتر متنی |
| \textbf | \متن سیاه |
| \textcircled | \مدور متنی |
| \textcolor | \رنگ متن |
| \textcompwordmark | \نشان کلمه مرکب متن |
| \textfloatsep | \فاصله متن و شناور |

Continued on next page



| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \textfraction | \نسبت متن |
| \textheight | \بلندای متن |
| \textindent | \متن تورفته |
| \textit | \متن ایتالیک |
| \textmd | \متن نازی |
| \textnormal | \متن نرمال |
| \textregistered | \ثبتی متñ |
| \textrm | \متن رومن |
| \textsc | \متن تمام بزرگ |
| \textsf | \متن سن سریف |
| \textsl | \متن خوابیده |
| \textstyle | \سبک متñ |
| \textsuperscript | \بالانویس متñ |
| \texttrademark | \علامت تجاری متñ |
| \texttt | \متن تایپ |
| \textup | \متن ایستاده |
| \textwidth | \پهنهای متن |
| \thanks | \ازینویس عنوان |
| \the | \محتوای |
| \thempfn | \اين زيرنویس |
| \thicklines | \خط هاضخیم |
| \thickmuskip | \فاصله زيادرياضی |
| \thinmuskip | \فاصله کم رياضی |
| \thickspace | \فضاضخیم |
| \thinlines | \خط هاناری |
| \thinspace | \دوری کوچک |
| \thisfancypage | \اين صفحه تجملی |
| \thispagestyle | \سبک اين صفحه |
| \thr@ | @س\ه |
| \tilde | \مد |
| \tiny | \ظریف |
| \time | \زمان |
| \times | \ضرب در |
| \title | \عنوان |
| \to | \به |
| \today | \امروز |
| \toks | \جزء |
| \toksdef | \تعريف جزء |
| \tolerance | \حدبدنمايی |
| \top | \بالا |

Continued on next page



| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \topfigrule | \خط‌بالای شناور |
| \topfraction | \نسبت‌بالا |
| \topmargin | \حاشیه‌بالا |
| \topmark | \علامت‌بالا |
| \topskip | \کادرت‌بالا |
| \topsep | \فاصله‌بالای لیست |
| \totalheight | \فاصله‌بالا |
| \tracingall | \بلندای کل |
| \tracingcommands | \ردگیری کل |
| \tracinglostchars | \ردگیری فرامین |
| \tracingmacros | \ردگیری حروف |
| \tracingonline | \ردگیری ماکروها |
| \tracingoutput | \ردگیری نمایشی |
| \tracingpages | \ردگیری صفحه‌بندی |
| \tracingparagraphs | \ردگیری صفحات |
| \tracingrestores | \ردگیری بندها |
| \tracingstats | \ردگیری بارگردانی |
| \triangle | \ردگیری آمارها |
| \ttdefault | \مثلث |
| \ttfamily | \پیش‌فرض تایپ |
| \tw@ | \فamil تایپ |
| \twocolumn | @دو |
| \typein | \دوستون |
| \typeout | \درنویس |
| \uccode | \برنویس |
| \uchyph | \کدبزرگ |
| \undefined | \تیره‌بندی‌بزرگ |
| \underline | \تعريف‌نشده |
| \unhbox | \زیرخط |
| \unhcopy | \بی‌کادرا |
| \unitlength | \بی‌کپی‌ا |
| \unkern | \ واحد طول |
| \unpenalty | \برگشت دوری |
| \unskip | \برگشت جریمه |
| \unvbox | \برگشت فاصله |
| \unvcopy | \بی‌کادرو |
| \updefault | \بی‌کپی و |
| \upshape | \پیش‌فرض ایستاده |
| \usebox | \شکل‌ایستاده |
| | \ازکادر |

Continued on next page



| Command in TeX or L ^A T _E X | Equivalent Persian Command |
|---|----------------------------|
| \usecounter | \باشمارشگر |
| \usefont | \گزینش قلم |
| \usepackage | \سبک لازم |
| \@vobeyspaces | \فضاهای فعال |
| \@void | \@تهی |
| \vadjust | \تنظیم و |
| \valign | \ردیف و |
| \value | \محتوای شمارنده |
| \vbadness | \بدنمایی و |
| \vbox | \کادرو |
| \vcenter | \کادر و سط |
| \verb | \همانطور |
| \vfil | \پرو |
| \vfill | \پررو |
| \vfilneg | \رفع پرو |
| \vfuzz | \پر زعمودی |
| \visible | \نمایان |
| \vline | \خط عمود |
| \voffset | \حاشیه و |
| \voidb@x | \ک در تهی |
| \vpageref | \ارجاع صفحه ع |
| \vrboxsep | \افاصله و گرد |
| \vref | \ارجاع ع |
| \vrule | \خط و |
| \vsize | \طول صفحه |
| \vskip | \افاصله و |
| \vspace | \فضای و |
| \vsplit | \شکست و |
| \vss | \هردو 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 |
| \@xobeysp | \@فضای لاتین |
| \@xxxii | \@سی دو |

Continued on next page



| Command in TeX or ET _E X | Equivalent Persian Command |
|-------------------------------------|----------------------------|
| \xdef | \ترجع |
| \xleaders | \نشانگرگسترشی |
| \xspaceskip | \فاصله اضافی کلمات |
| \year | \سال |
| \z@ | \فر |
| \z@skip | \فروفاصله |

Table 2: The Equivalent XePersian Commands

| Command in XePersian | Equivalent Persian Command |
|----------------------|----------------------------|
| \autofootnoterule | \خط زیرنویس خودکار |
| \AutoMathsDigits | \اعداد فرمولها 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 | \متن لاتین |
| \LRE | \چپ برای راست |
| \LTRdblcol | \دوستونی چپ |
| \LTRfootnote | \پانویس |
| \LTRfootnotetext | \متن پانویس |
| \LTRthanks | \پانویس عنوان |
| \persianday | \روز پارسی |
| \persianfont | \قلمهای پارسی |
| \PersianMathsDigits | \اعداد فرمولهای پارسی |
| \persianmonth | \ماه پارسی |
| \persianyear | \سال پارسی |
| \plq | \علامت چپ نقل قول پارسی |
| \prq | \علامت راست نقل قول پارسی |
| \rightfootnoterule | \خط زیرنویس راست |
| \rl | \متن پارسی |
| \RLE | \راست بچپ |
| \RTLdblcol | \دوستونی راست |
| \RTLfootnote | \پانوشت |

Continued on next page



| Command in XePersian | Equivalent Persian Command |
|----------------------------|----------------------------|
| \RTLfootnotetext | \امتن پانوشت |
| \RTLthanks | \پانوشت عنوان |
| \@SepMark | \علامت بین @ |
| \SepMark | \علامت بین \ |
| \setdefaultbibitems | \اگذار مرجوعات عادی |
| \setdefaultmarginpar | \اگذار در رحایه عادی |
| \setmathdigitfont | \اگرینش قلم اعداد فرمولها |
| \setfootnoteLR | \اگذار زیرنویس چپ |
| \setfootnoteRL | \اگذار زیرنویس راست |
| \setlatintextfont | \اگرینش قلم لاتین متن |
| \setLTR | \ابگذار متن چپ |
| \setLTRbibitems | \ابگذار مرجوعات چپ |
| \setLTRmarginpar | \ابگذار در رحایه چپ |
| \setRTL | \ابگذار متن راست |
| \setRTLBibitems | \ابگذار مرجوعات راست |
| \setRTLmarginpar | \ابگذار در رحایه راست |
| \settextfont | \اگرینش قلم متن |
| \textwidthfootnoterule | \خط زیرنویس پنهانی متن |
| \twocolumnstableofcontents | \فهرست مطالب دوستونی |
| \unsetfootnoteRL | \انگذار زیرنویس راست |
| \unsetLTR | \انگذار متن چپ |
| \unsetRTL | \انگذار متن راست |
| \vboxL | \کادر رواز چپ |
| \vboxR | \کادر رواز راست |
| \XeLaTeX | \ازی لاتک |
| \XePersian | \ازی پرشین |
| \xepersianversion | \اگونه زی پرشین |
| \xepersiandate | \تاریخ اگونه زی پرشین |
| \XeTeX | \ازی تک |

Table 3: The Equivalent L^AT_EX Environments

| Environment in L ^A T _E X | Equivalent Persian Environment |
|--|--------------------------------|
| abstract | چکیده |
| appendix | پیوست |
| array | آرایه |
| center | وسط چین |
| description | توضیح |
| displaymath | ریاضی نمایشی |
| document | نوشتار |
| enumerate | شمارش |
| figure | شکل |

Continued on next page



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

Table 4: The Equivalent XePersian Environments

| Environment in XePersian | Equivalent Persian Environment |
|--------------------------|--------------------------------|
| latin | لاتین |
| LTR | متن چپ |

Continued on next page



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

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

Table 5: The Equivalent L^AT_EX position arguments

| Position argument in L ^A T _E X | Equivalent Persian position argument |
|--|--------------------------------------|
| b | ز |
| c | و |
| C | س |
| h | ا |
| H | آ |
| J | ت |
| l | چ |
| L | ف |
| m | م |
| p | پ |
| P | ص |
| r | ر |
| R | ا |
| s | ک |
| t | ب |

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

2.4.8 Localizations of the keys and key values of `graphicx` package

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

Table 6: Persian Equivalent keys of `graphicx` package

| Original Key | Equivalent Persian Key |
|------------------------------|------------------------|
| <code>draft</code> | پیش‌نویس |
| <code>origin</code> | مبدأ |
| <code>clip</code> | بی‌اضافه |
| <code>keepaspectratio</code> | حفظ تناسب |
| <code>natwidth</code> | پهنای طبیعی |

Continued on next page



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

Table 7: Persian Equivalent key values of `graphicx` package

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

2.4.9 Localizations of font features and font feature options

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

Table 8: Persian Equivalent font features

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

Continued on next page



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

Continued on next page



| Original font feature | Equivalent Persian font feature |
|-----------------------|---------------------------------|
| Diacritics | تفکیک کنندۀ 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 |
| Style | MathScript | اسکریپت ریاضی |
| Style | MathScriptScript | اسکریپت اسکریپت ریاضی |

2.5 A Sample Input **TEX** File

```

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

```

2.6 Font Commands



2.6.1 Basic Font Commands

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

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

2.6.2 Defining Extra Persian and Latin Fonts

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

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

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

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

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

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

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



2.6.3 Choosing Persian Sans Font

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

2.6.4 Choosing Persian Mono Font

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

2.6.5 Choosing Persian Iranic Font

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

2.6.6 Choosing Persian Navar Font

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

2.6.7 Choosing Persian Pook Font

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

2.6.8 Choosing Persian Sayeh Font

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

2.6.9 Choosing Latin Sans Font

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

2.6.10 Choosing Latin Mono Font

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



3 Latin and Persian Environment

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

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

3.1 latinitems and parsiitems environments

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

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

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

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

3.2 Short Latin and Persian Texts

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

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

3.3 Miscellaneous Commands

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

- ☞ \persianyear is Persian equivalent of \year.
- ☞ \persianmonth is Persian equivalent of \month.



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

3.4 New Commands

\Latincite

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

3.5 Additional Counters

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

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



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

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

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



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

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

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

In addition with the extra support that XePersian provides, an occurrence of one of the tokens `l`, `س`, 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 TeX expressions, however the tokens `A`, `a`, `I`, `i`, `1`, `l`, `س`, `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 FarsiTeX Files To XePersian or Unicode

There is a python program written by Mostafa Vahedi that enables you to convert FarsiTeX files to XePersian or unicode. This program can be found in `doc` folder with the name `ftxe-0.12.py`. To convert your FarsiTeX files to XePersian, put `ftxe-0.12.py` in the same directory that your FarsiTeX 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` (FarsiTeX file) to `file.tex` (XePersian file).
The general syntax of using the python script is as follow:

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

Where

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

`-s` do not recursively consider files

`-x` (DEFAULT) insert XePersian related commands

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

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



6 Extra Packages And Classes

6.1 Magazine Typesetting

6.1.1 Introduction

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

6.1.2 Usage

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

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

at the beginning of your source file. The class options are described in [subsubsection 6.1.12](#). From this point it is possible to include packages and renew class commands described in [subsubsection 6.1.9](#).

6.1.3 Front Page

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

```
\firstimage \firstarticle
```

The first two commands you can use inside the `frontpage` environment are `\firstimage` and `\firstarticle` which include, respectively, the main image and the main heading in the front page. The first one takes two arguments `\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.

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

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



`\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 respec the original `xepersian-magazine` format.

`\indexitem`

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

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

inside the environment. The `\langle title\rangle` is the index entry text and the `\langle reference\rangle` 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 `\langle title\rangle` that places a title over the weather block. It can fit up to three weather icons



with maximum and minimum temperatures, description and name. To add each of the weather entries type the following

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

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

6.1.4 Inside

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

6.1.5 The article environment

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

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

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

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

```
\authorandplace \timestamp
```

The `\authorandplace{\langle author\rangle}{\langle place\rangle}` inserts the name of the editor and the place where the article happened in the way many magazines do. Another useful command is `\timestamp{\langle time\rangle}` 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{\langle image\rangle}{\langle description\rangle}
```

```
\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{\langle type\rangle}{\langle text\rangle}
\expandedtitle{\langle type\rangle}{\langle text\rangle}
```

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

6.1.6 The editorial environment

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

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

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

6.1.7 The shortarticle environment

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



```
\begin{shortarticle}{\numofcolumns}{\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{\sectionname}
```

6.1.9 Customization

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

6.1.10 Front Page

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

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

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

```
\edition \editionformat
```

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



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

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

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

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

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

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

```
\pictureCaptionFormat \pagesFormat
```

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

6.1.11 Inside The Magazine

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

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

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

The `\timestamp` command described in [subsection 6.1.5](#) lets you introduce the time of the event before the article text. You can configure its appearance by altering several commands: `\timestampTxt` which means the text after the timestamp;



\timestampSeparator which defines the element between the actual timestamp and the beginning of the text and, finally, \timestampFormat to change the entire timestamp format.

```
\innerTextFinalMark
```

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

```
\minraggedcols \raggedFormat
```

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

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

```
\heading \foot
```

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

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

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

6.1.12 Class Options

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

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



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

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

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

6.2 Typesetting Multiple-choice Questions

6.2.1 Introduction

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

6.2.2 Usage

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

6.2.3 Loading The Package

You can load the package as usual by:

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

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

6.2.4 Creating Questions

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

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



6.2.5 The question Environment

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

```
\true \false
```

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

6.2.6 Question Numbers

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

6.2.7 The Form and the Mask

```
\makeform \makemask
```

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

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

6.2.8 Typesetting corrections

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

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

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



6.2.9 Important Note

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

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

6.3 Customising The Package

6.3.1 The question environment

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

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

