

The bangla Package

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Contents

1 Introduction

1.1 About bangla Package

The bangla package is a programming tool geared primarily towards LaTeX document authors. It provides all necessary LaTeX frontends for Bangla language.

1.2 Licence

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2 Commands

2.1 Use Package

The basic command to use the package is-

```
\usepackage{bangla}
```

2.2 Font Selection

The default font of the `bangla` package is `Kalpurush`. If you do not mention any font name in the parameter, the `Kalpurush` will be your default font. However, an author can easily change the font using the parameter of the `usepackage` command.

```
\usepackage[<font name>]{bangla}
```

For example, if an author wants `Noto Serif Bengali` as the font for the whole article, he can write-

```
\usepackage[notoserifbengali]{bangla}
```

The following SIL Open Font Licence(OFL) Bangla fonts are currently associated with the `bangla` package-

Font Name	Command Keyword	Licence
Kalpurush	<code>kalpurush</code>	SIL OFL
Shimanto	<code>shimanto</code>	SIL OFL
Noto Sans Bengali	<code>notosansbengali</code>	SIL OFL
Noto Serif Bengali	<code>notoserifbengali</code>	SIL OFL

2.3 With Parameter Definitions

In this subsection, we have demonstrated the commands that requires parameters(at least one or more).

2.3.1 `\banglatext`{<bangla text here>}

`banglatext` displays any Bangla texts provided inside the parameter. Insert Bangla text in the parameter.

Command	Output
<code>\banglatext</code> {আমি বাংলায় কথা বলি।}	আমি বাংলায় কথা বলি।

2.3.2 `\banglabold`{<bangla text here>}

`banglabold` bolds the Bangla texts provided inside the parameter. It can make texts bold automatically of any font that has no bold fonts available.

Command	Output
<code>\banglabold</code> {আমি বাংলায় কথা বলি।}	আমি বাংলায় কথা বলি।

2.3.3 `\banglaitalic`{<bangla text here>}

`banglaitalic` makes the Bangla texts italic provided inside the parameter. It can make texts italic automatically of any font that has no italic fonts available.

Command	Output
<code>\banglaitalic</code> {আমি বাংলায় কথা বলি।}	আমি বাংলায় কথা বলি।

2.3.4 `\banglatranslit`{<bangla text here>}

`banglatranslit` generates a comprehensive and sophisticated transliteration of Bangla into Latin based on ISO 15919. `banglatranslit` works on character, word, and sentences as well.

Command	Output
<code>\banglatranslit</code> {আমি বাংলায় কথা বলি।}	āmi bānglāya kathā bali.

2.3.5 `\banglaipa`{<bangla text here>}

`banglaipa` generates equivalent International Phonetic Alphabets(IPA) symbols for Bangla alphabets. `banglaipa` works on character, word, and sentences as well.

Command	Output
<code>\banglaipa</code> {আমি বাংলায় কথা বলি।}	ami baŋla ^ɨ kt ^h a bli.

2.4 Without Parameter Definitions

In this subsection, we have demonstrated the commands that require no parameter at all.

2.4.1 `\banglapage`

`banglapage` produces bangla page numbering. `banglapage` does not need any parameters. Put `banglapage` command before `\begin{document}` command. Such as:

```
\banglapage
```

2.4.2 `\banglasection`

`banglasection` produces bangla numbering for all sections in the article including all subsections and subsubsections. `banglasection` does not need

any parameters. Put `banglasection` command before `\begin{document}` command. Such as:

`\banglasection`

2.4.3 `\banglaenumerate`

`banglaenumerate` produces level-2 bangla numbering for enumerate or the list in latex for the whole article. `banglaenumerate` does not need any parameters. Put `banglaenumerate` command before `\begin{document}` command or anywhere above the enumerate. Such as:

`\banglaenumerate`

2.4.4 `\banglaequation`

`banglaequation` produces bangla numbering for all equations in the whole article. `banglaequation` does not need any parameters. Put `banglaequation` command before `\begin{document}` command or anywhere above the equations. Such as:

`\banglaequation`

2.4.5 `\banglatable`

`banglatable` produces bangla numbering for all tables in the whole article. `banglatable` does not need any parameters. Put `banglatable` command before `\begin{document}` command or anywhere above the tables. Such as:

`\banglatable`

2.4.6 `\banglfigure`

`banglfigure` produces bangla numbering for all figures/images in the whole article. `banglfigure` does not need any parameters. Put `banglfigure` command before `\begin{document}` command or anywhere above the figures. Such as:

`\banglfigure`

2.4.7 `\banglaallcounters`

`banglaallcounters` produces bangla numbering for everything in the whole article. `banglaallcounters` does not need any parameters. Put `banglaallcounters` command before `\begin{document}` command. Such as:

`\banglaallcounters`

3 Reporting issues

To report any error or issue please send an email at nahid@cse.uju.ac.bd or mailbox.nahid@gmail.com.

4 Revision History

Version 2.0 bug fixes.

Version 1.9 new command added. minor bug fixes.

Version 1.8 bug fixes.

Version 1.7 bug fixes.

Version 1.6 a new OFL SIL font added. bug fixes.

Version 1.5 solved font licence issues and bug fixes.

Version 1.0 primary version.