

The **bangla** Package

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1 Introduction

1.1 About `bangla` Package

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

1.2 Licence

Copyright © 2021 Nahid Hossain. Permission is granted to copy, distribute and/or modify this software under the terms of the LaTeX Project Public License, version 1.3c or later.

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{আমি বাংলায় কথা বলি।}</code>	আমি বাংলায় কথা বলি।

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

`banglabold` holds 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{আমি বাংলায় কথা বলি।}</code>	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{আমি বাংলায় কথা বলি।}</code>	<i>আমি বাংলায় কথা বলি।</i>

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{আমি বাংলায় কথা বলি।}</code>	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 banla ^j 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. `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 `\banglafigure`

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

`\banglafigure`

3 Reporting issues

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

4 Revision History

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

Version 1.5 solved font licence issues and fixed some bugs.

Version 1.0 primary version.