

LaTeX Article Class*

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Abstract

This article aims to present the elements in a LaTeX article. Starting with the presentation of the general architecture, we note the key elements for each of the preamble, documentclass and doc-body.

1 Introduction

1.1 Overall structure of a LaTeX document

The general architecture of a LaTeX document is given below.

```
prologue
\documentclass[opt-list]{doc-class}[date]
preamble
\begin{document}
doc-body
\end{document}
```

1.2 Style for Article class

Article is a commonly-used template for LaTeX document preparation. The standard options to this class (at *documentclass* definition) of documents are: at most one of 10pt (default), 11pt or 12pt; at most one of letterpaper (default), legalpaper, executivepaper, a4paper, a5paper or b5paper; at most one of final (default) or draft; at most one of oneside (default) or twoside; at most one of onecolumn (default) or twocolumn; and at most one of notitlepage (default) or titlepage. Furthermore, any or none of the following can occur in *opt-list*: landscape, openbib, leqno and fleqn.

*This article is prepared with the help of a book called ‘LATEX Line by Line’ by A. Diller.

1.3 Feature of Article class

The most important stuff differentiating it from the others is the availability of section and sub-session to organize the content.

2 Items for Preamble

2.1 Title, Author and Date

The materials one may include in this part of a LaTeX article includes the followings.

- title: It is to be put in the form `\title{title}`. To force a line break, use the `\\` command. One or more `\thank` can also appear within the argument to produce footnotes.
- author: It is to be put in the form `\author{textitauthor}`. To include more than one author, use `\and` to separate the entries. Similarly, one can use `\\` to make line breaks and `\thanks` for making footnotes.
- date: It is optional and to be put in the form `\date{textitdate}`. This overrides the default printing of the current date. Similarly, one can use `\\` to make line breaks and `\thanks` for making footnotes.

3 Items for doc-body

3.1 Title

To display the title page with the title, authors and date, one needs to put the `\maketitle` command at place of document body where that information is needed.

3.2 Abstract

To include an abstract for the document, use `\begin{abstract}` *abstract-text* `\end{abstract}` syntax to put your abstract.

3.3 Sectioning

There are altogether six kinds of sectioning stuff. From highest order to lowest order, they are

- `\part`

- `\section`
- `\subsection`
- `\subsubsection`
- `\paragraph`
- `\subparagraph`

The general format of this class of command (here taking section as an example) is

`\section[entry]{heading}`

The optional argument here is to override the default display name in the table of content.