

Presentation on LaTeX

Rajyalakshmi Divi
IIT Bombay

March 23rd,2014

Outline

- 1 About Latex
- 2 components
- 3 principles
- 4 sections
- 5 TOC

What is LaTeX

- LaTeX is a scripting language used for writing documents

OR

- LaTeX is a language for creating structured documents.
- Focuses on document structure rather than such details.
Open source

Components of a LaTeX Document

Every LaTeX document must contain the following three components. Everything else is optional (even text).

- `\documentclass{beamer}` document class may be Article, Report, Book, IEEEtran, Letter
- `\begin{document} ... \end{document}`

Example

```
\documentclass{article}
\begin{document}
Hello world!
\end{document}
```

Principles

- Commands are case sensitive
- LaTeX commands in braces
- Optional information is included in square brackets [].
- The `\documentclass` command must appear at the very beginning of your LaTeX document, before any other LaTeX commands, or you will get an error message.
- Commands that affect the whole document, should be included in the preamble, space between the `\documentclass` and `\begin{document}` commands is called.

Sections

- `\section{...}`
- `\subsection{...}`
- `\subsubsection{....}`

Table of contents

- Created automatically by LaTeX `\tableofcontents` creates table of contents.
- Has to be written after Title page.
- Add `\usepackage{hyperref}` to make the Toc content clickable