

Mathematical Typesetting Using \LaTeX

Jonathan R. Bacolod

Sauyo High School

INSET, December 14, 2020

Overview

What is \LaTeX ?

- It is a document preparation system for high-quality typesetting.

What is \LaTeX ?

- It is a document preparation system for high-quality typesetting.
- It is **not** a word processor.

What are the Features of \LaTeX ?

- Typesetting journal articles, technical reports, books, and slide presentations.

What are the Features of \LaTeX ?

- Typesetting journal articles, technical reports, books, and slide presentations.
- Control over large documents containing sectioning, cross-references, tables and figures.

What are the Features of \LaTeX ?

- Typesetting journal articles, technical reports, books, and slide presentations.
- Control over large documents containing sectioning, cross-references, tables and figures.
- Typesetting of complex mathematical formulas.

What are the Features of L^AT_EX?

- Typesetting journal articles, technical reports, books, and slide presentations.
- Control over large documents containing sectioning, cross-references, tables and figures.
- Typesetting of complex mathematical formulas.
- Automatic generation of bibliographies and indexes.

What is the Structure of a \LaTeX file?

```
\documentclass[11pt,letterpaper]{article}  
\usepackage[margin=1in]{geometry}  
  
\begin{document}  
  Hello, World!  
\end{document}
```

Figure: A Sample \LaTeX file

What is the Structure of a \LaTeX file?

The preamble contains:

```
\documentclass[11pt,letterpaper]{article}  
\usepackage[margin=1in]{geometry}
```

Figure: A sample
preamble

What is the Structure of a \LaTeX file?

```
\documentclass[11pt,letterpaper]{article}  
\usepackage[margin=1in]{geometry}
```

Figure: A sample
preamble

The preamble contains:

- document style

What is the Structure of a \LaTeX file?

```
\documentclass[11pt,letterpaper]{article}  
\usepackage[margin=1in]{geometry}
```

Figure: A sample preamble

The preamble contains:

- document style
- point size

Thank you!

Online Sources

<https://www.latex-project.org/about/>