

Document Writing and Slides using LaTeX

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Overview

- 1 Document writing
- 2 Slides presentation

Installations

LaTeX distribution

Turn code to readable document

- For Windows: MiKTeX
- For Mac OS: MacTeX
- For linux: TexLive

LaTeX text editor

Used to write the LaTeX code

- Texmaker
- TeXstudio

Installation commands

TexLive `sudo apt-get install texlive-full`

Texmaker `sudo apt-get install texmaker`

TeXstudio

- `sudo add-apt-repository ppa:sunderme/texstudio`
- `sudo apt-get update`
- `sudo apt-get install texstudio`

Demo: Paragraphs of Text

Sed iaculis dapibus gravida. Morbi sed tortor erat, nec interdum arcu. Sed id lorem lectus. Quisque viverra augue id sem ornare non aliquam nibh tristique. Aenean in ligula nisl. Nulla sed tellus ipsum. Donec vestibulum ligula non lorem vulputate fermentum accumsan neque mollis.

Sed diam enim, sagittis nec condimentum sit amet, ullamcorper sit amet libero. Aliquam vel dui orci, a porta odio. Nullam id suscipit ipsum. Aenean lobortis commodo sem, ut commodo leo gravida vitae. Pellentesque vehicula ante iaculis arcu pretium rutrum eget sit amet purus. Integer ornare nulla quis neque ultrices lobortis. Vestibulum ultrices tincidunt libero, quis commodo erat ullamcorper id.

Demo: Bullet Points

- Lorem ipsum dolor sit amet, consectetur adipiscing elit
- Aliquam blandit faucibus nisi, sit amet dapibus enim tempus eu
- Nulla commodo, erat quis gravida posuere, elit lacus lobortis est, quis porttitor odio mauris at libero
- Nam cursus est eget velit posuere pellentesque
- Vestibulum faucibus velit a augue condimentum quis convallis nulla gravida

Demo: Blocks of Highlighted Text

Block 1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer lectus nisl, ultricies in feugiat rutrum, porttitor sit amet augue. Aliquam ut tortor mauris. Sed volutpat ante purus, quis accumsan dolor.

Block 2

Pellentesque sed tellus purus. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Vestibulum quis magna at risus dictum tempor eu vitae velit.

Block 3

Suspendisse tincidunt sagittis gravida. Curabitur condimentum, enim sed venenatis rutrum, ipsum neque consectetur orci, sed blandit justo nisi ac lacus.

Demo: Multiple Columns

Heading

- ① Statement
- ② Explanation
- ③ Example

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer lectus nisl, ultricies in feugiat rutrum, porttitor sit amet augue. Aliquam ut tortor mauris. Sed volutpat ante purus, quis accumsan dolor.

Demo: Table

Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table: Table caption

Demo: Theorem

Theorem (Mass–energy equivalence)

$$E = mc^2$$

Demo: Verbatim

Example (Theorem Slide Code)

```
\begin{frame}  
\frametitle{Theorem}  
\begin{theorem}[Mass--energy equivalence]  
$E = mc^2$  
\end{theorem}  
\end{frame}
```

Demo: Figure



Demo: Citation

An example of the `\cite` command to cite within the presentation:

This statement requires citation [Smith, 2012].

This statement requires citation [Henry, 2015].

Demo: References



John Smith (2012)

Title of the publication

Journal Name 12(3), 45 – 678.



Peter Henry (2015)

Title of the publication

Journal Name 14(31), 78 – 358.

The End