

Introduction to \LaTeX

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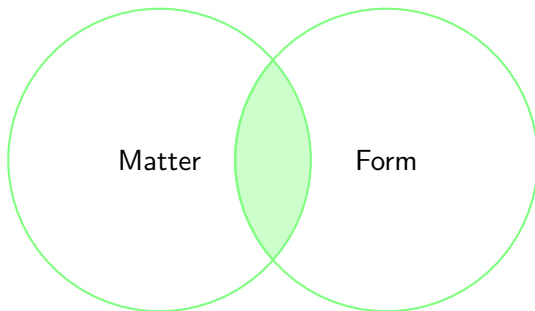
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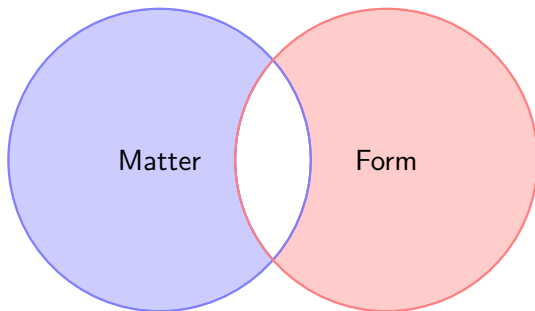
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MS WORD!

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How should we typeset?

L^AT_EX!

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Unlike WYSIWYG softwares like MS Word and Open Office, \LaTeX separates the process of typesetting from the process of inserting content.

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- ▶ \LaTeX is technically a \TeX macro package.
- ▶ In computer-science-y terms, \TeX is a *macroprocessor*.

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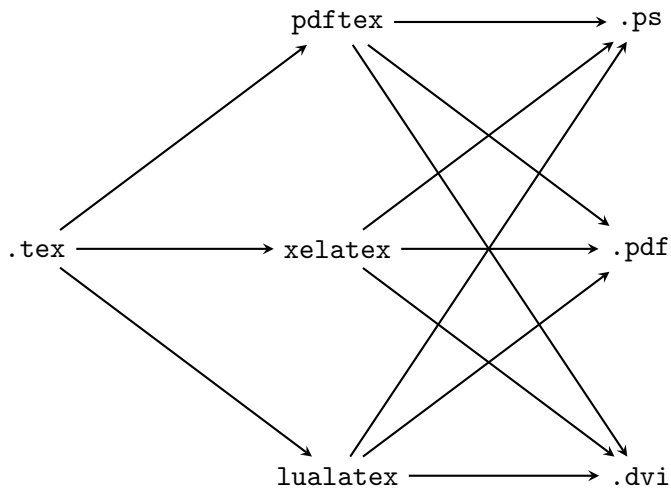
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- ▶ This is the role that "markup" plays.

How do I use \LaTeX ?

- ▶ A \LaTeX file or source code is always a plaintext file, that is processed by a \TeX engine.
- ▶ This is one of the most important features of \LaTeX as it frees the user using a particular version or text editor.

How do I use L^AT_EX?

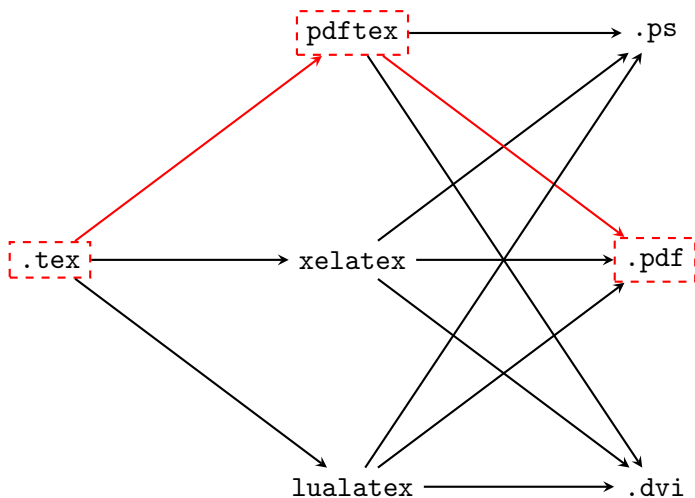


Source Code

L^AT_EX engine

Final Output

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- ▶ and, a few more...

Structure of \LaTeX source file.

```
1  \documentclass{article}
2
3  \usepackage{hyperref}
4
5  \title{A critical analysis of Naruto: the Manga}
6  \author{Tejas Sanap}
7
8  \begin{document}
9      \maketitle
10
11 \end{document}
```


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- ▶ And, prevents commands from leaking out.
- ▶ Environments restrict their effects to their own contents.

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Example:

```
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A few of the most common environments we see are:

- ▶ document.
- ▶ figure.
- ▶ align.
- ▶ table.

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- ▶ The tricky part, is to figure out how to place/position floats.
- ▶ \LaTeX automatically moves floats across pages depending on how much space is left.

Page Geometry

- 4. `\topmargin`
- 7. `\textheight`
- 8. `\textwidth`
- 11. `\footskip`

