

# Introduction to $\text{\LaTeX}$

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December 28, 2019

# A few words about myself

- ▶ I mainly work in IDAM.
- ▶ I work at Wipro.
- ▶ I am an organizer at (and, member of ) PLUG.
- ▶ I do a lot of open-source stuff.

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# MS WORD!

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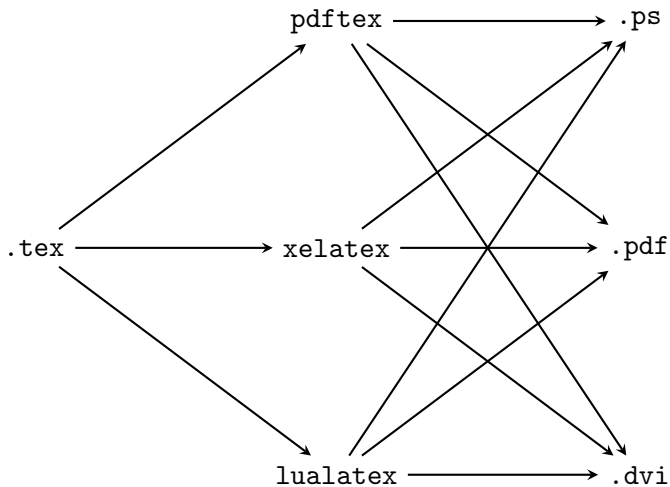
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# What is $\text{\LaTeX}$ ?

- ▶ A type-setting system.
- ▶ An improvement over  $\text{\TeX}$ .
- ▶ Not a WYSIWYG editor.
- ▶ Uses simple plaintext.

# How do I use L<sup>A</sup>T<sub>E</sub>X?

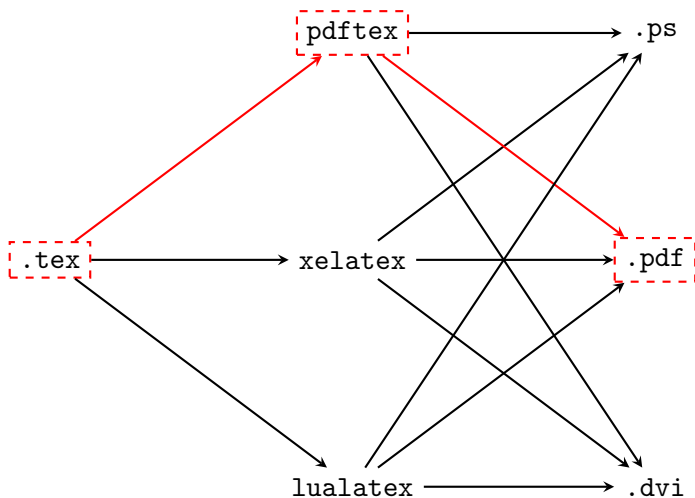


**Source Code**

**L<sup>A</sup>T<sub>E</sub>X engine**

**Final Output**

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**Source Code**

**$\text{\LaTeX}$  engine**

**Final Output**



# How do I use $\text{\LaTeX}$ ?

There are multiple  $\text{\TeX}$ engines:

- ▶ **Knuth's  $\text{\TeX}$ :**

This is original  $\text{\TeX}$ engine which serves as the lowest layer of  $\text{\LaTeX}$ 's software architecture.

- ▶  **$\text{\pdfTeX}$ :**

This engine adds a bunch of primitives related to the PDF and DVI extension.

- ▶  **$\text{\xetex}$ :**

This engine provides better font support.

- ▶  **$\text{\luatex}$ :**

Originally, meant to replace  $\text{\pdfTeX}$ , but, now moving in a very different direction. This engine also better font support (like,  $\text{\xelatex}$ ) through Lua code.