

Latex Presentation

Using Latex-Beamer

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Outline

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What is Latex?

Purpose of Latex

\LaTeX is a document preparation system. It is especially used in (but not limited as) preparing scientific and technical documents.

Advantages and Disadvantages of Latex

Advantages of Using Latex Over Microsoft Office

- Preparing long and complex documents are more practical in Latex.
- You may change the style of the document in a single line.
- Writing mathematical equations are much easier in Latex.
- Text quality is very high. Zooming gives very good results.
- Latex is free. You may edit your document in any text editor.

"Focus on what to write not the design" (Latex)

Disadvantages of Using Latex Over Microsoft Office

- Preparing short and visual documents are more practical in Latex.
- Integrated grammar check is currently missing in Latex.
- Graphic engine allows you to review symbols while adding.

"What you see is what you get" (Ms. Word, Ms. Powerpoint)

A Comparison on Speed

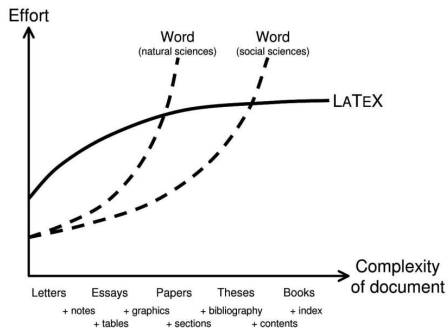


Figure: Speed comparison based on document complexity [1]

As you can see in the figure 1, required time for preparing document grows exponentially by increasing complexity while using Microsoft Word.

Summary Word vs Latex

- **Editor:** “what you see is what you get” **vs** source file is compiled
- **Compatibility:** dependent on editor **vs** independent on editor
- **Graphics:** simple inbuilt editor, mouse-based **vs** powerful but complex editor, text-based
- **Typography:** optimized for speed **vs** optimized for quality
- **Style:** inbuilt stylese **vs** parate style document
- **Multi-platform:** only via export **vs** possible with scripting
- **Compatibility:** some elements need manual refresh **vs** all elements refreshed with each compile
- **Formula:** basic support needs external tools **vs** complete support

External Links for Resources

- [Latex - official website](#)
- [Overleaf - online latex editor](#)
- [YTU - thesis latex template](#)
- [Overleaf - latex tutorial](#)



James Peters.

Why latex is better choice than microsoft word?, 03 2020.