

Pi Mu Epsilon

LaTeX Tutorial



Adapted from Overleaf "Learn LaTeX in 30 minutes"

What is LaTeX

Why we use it?

- A tool for typesetting professional-looking documents (we can use LaTeX commands to generate a PDF file that is typeset to extremely high standards)
 - Better format than Microsoft Word or LibreOffice Writer!
- Support for typesetting extremely complex mathematics, tables, and technical contents
- Bonus: become comfortable with writing Markdown, which is a markup language



Recommended Software



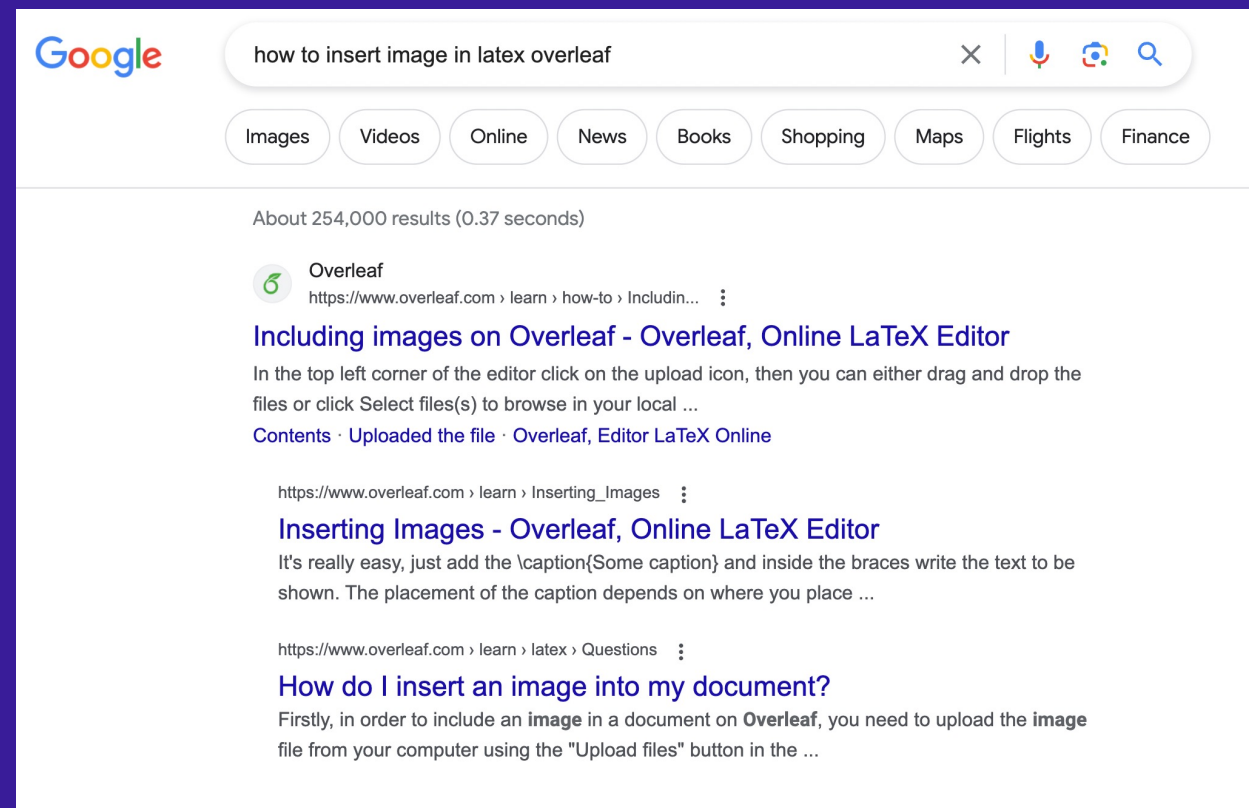
- <https://www.overleaf.com>
- Create [New Project] -> Choose either [New File] to create a blank file or [Upload] if you already have a template
- To recompile the file, the shortcut is either [Cmd + Enter] or [Cmd + S]
- The full Overleaf guide can be found at: https://www.overleaf.com/learn/latex/Learn_LaTeX_in_30_minutes

Write your first piece of LaTeX!

```
\documentclass{article}  
\begin{document}  
First document. This is a simple example, with no  
extra parameters or packages included.  
\end{document}
```

Useful Techniques

Remember: Google can be pretty useful!



- Define font size: `\documentclass[12pt]{article}`
- Load an external package: `\usepackage{...}`
 - ... can be any packages, such as “graphicx”
- Include title: `\title{...}`
- Bold: `\textbf{...}`; Italics: `\textit{...}`; Underline: `\underline{...}`
- Inline math mode: `$...$`
- Unordered lists: `\begin{itemize}`
`\item`
`\end{itemize}`

Questions?

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