

INTRODUCTION TO L^AT_EX

Collaboration Tools at UC-Berkeley

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OUTLINE FOR TODAY

1. What is \LaTeX ?
2. Collaboration Tools
3. Structure of a Document
4. Basic Commands
5. A few Exercises

INTRODUCTION

\LaTeX is a typesetting system that allows you to focus on your content instead of formatting - formatting is done separately from entry.

You tell \LaTeX “what it is” not “how it looks.”

HOW DOES IT WORK?

\LaTeX vs. \TeX

- \TeX was developed in 1978 as a way for scientists and mathematicians to have better control over their typesetting. \LaTeX came along in the 1980s and takes \TeX to the next level through the use of packages and environments.
- Download \LaTeX distribution packages based on their operating systems along with an editor (TeXstudio, TeXmaker, or TeXworks).

COLLABORATION TOOLS



- open source
- project history
- smart references and autofill
- Dropbox and Github integration
- track changes
- unlimited projects, multiple collaborators per project



ABOUT OVERLEAF

- 10 GB of storage
- project history
- quick-save to Dropbox
- Publisher templates and direct submission process
- real-time previews and error-handling
- smart references and autofill

GET YOUR FEET WET

- For the most part, type normally.
- Words are separated by one or more spaces and paragraphs are separated by one or more lines and are naturally indented.
- Certain symbols require a backslash to appear, like \$ & # and %.
- A % without a backslash allows you to comment directly in the document.

EXERCISE 1

- Preambles
- Basic Text
- Sections

EXERCISE 2

- Creating Lists
- Nesting Lists

EXERCISE 3

- Exploring Packages in the Preamble

WHAT'S NEXT?

Check out Share \LaTeX and play around with the interface.

- Is there a tool you prefer?
- Why?

Next, play around with a few different templates. See if you can create a presentation, newsletter, or poster.

CONCLUSION

A teaser for next week...

$$e^{i\pi} = -1$$

$$f(x) = \sum_{i=0}^{\infty} \frac{f^{(i)}(0)}{i!} x^i$$

Questions?

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Check out Typesetting Math in \LaTeX on 2.21
and Creating Tables, Figures, and Bibliographies on 2.28

SUMMARY

Get the source of this theme and the demo presentation from

`github.com/matze/mtheme`

The theme itself is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.

