Day 01: Intro to LATEX



September 2021

Outline

Introduction

Course Background

What is L $^{A}T_{E}X$?



Introduction

moroducolon

Course Background

- ► Inspiration https://www.learnlatex.org/.
- ► Slides Available https://github.com/mdelrosa/latex-101.
 - ► Template based on Clara Pavillet's Oxford Template
- ▶ Slack back channel
 - ▶ UC Davis Slack channel



Markup Language – Instructions for rendering a document.

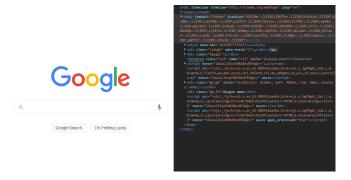


Figure 1: Example – HTML for websites



E^ATEX- Markup language for academic documents (e.g., publications, presentations, lecture notes, assignments).

Figure 2: Example – LATEX snippet for this slide.

$$V_s = \int_{-R}^{R} \pi (R^2 - x^2) dx = \frac{4}{3} \pi R^3$$
 (1)

Figure 3: Example – LATEX snippet for this equation.

Enables rich cross-referencing of equations, figures, tables

- ► Equation 1 (previous page)
- ► Table 1

Feature	Support
Figures	Yes!
Equations	Yes!
Tables	Yes!
Bibliographies	Yes!

Table 1: A simple table.



Two primary components/steps:

- 1. Write your LATEXfile(s) (**Text editor**)
- 2. "Compile" or "Typeset" your document (LATEX system)



Figure 4: Text editors (Notepad, Notepad++, Sublime Text) and LaTeX distributions (MikTeX, TeXLive, and TeX Studio)



 \blacktriangleright Editors/systems installed on local device (faster)

- ► Editors/systems installed on local device (faster)
- ► Editor/systems online (convenient, collaborative)



- ► Editors/systems installed on local device (faster)
- ► Editor/systems online (convenient, collaborative)
- ▶ Will use **Overleaf** for this course.



