

### Introduction

#### What is LATEX?

- LATEX ("lay-tex" or "luh-tex") is an open source typesetting system used to generate scientific and academic documents with high typographical quality. [1]
- For graduate students, LATEX is part of the hidden curriculum it is rarely taught formally, and learning to use it can be a frustrating and isolating experience.

#### Workshop Details

- Goal: To introduce LATEX to novice users in the graduate community at UC Davis. No prior LATEX or coding experience was required.
- **Duration**: Three sessions (March 21st to 23rd, 2022) lasting 2 hours each (1 hour of interactive lecture + 1 hour of  $IAT_EX$  exercises).
- Content: Days 1 and 2 focused on the basics of LATEX. Day 3 focused on common LATEX templates (CVs and beamer slides).

#### Materials and Methods

- Workshop registration was conducted through Eventbrite.
- Workshop materials (Zoom recordings, slides, other resources) are available at mdelrosario.com/latex101/
- Lectures were adapted from the online LATEX tutorial, learnlatex.org. [2]
- Participants used Overleaf, a free LATEX system which can be loaded in a browser
- A post-workshop survey was sent out using Google Forms.

#### Attendance

• Out of 79 registered people, 42 people attended at least one session ( $\approx 52\%$ ). See Table 1 below.

Registered	Total Attendees	Day 1	Day 2
79	42	40	24

Table 1: Summary of participant registration and attendance.

# **ATEX 101:** Making Publication-quality Papers and Professional-grade Presentations

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2 Day 3 21

## Survey (Quantitative)

13 PhD students answered the following questions in a post-workshop survey.

#### Lecture/Review Session Sentiments

- Q1: How useful did you find the lectures?
- Q2: If you attempted them, how useful did you find the exercises?
- •Q3: If you attended them, how useful did you find the exercise
- review sessions?



#### **Document** Types



#### Insights/Improvements

- **Review sessions**: Respondents found these sessions less useful than the lectures or the exercises. The sessions could be improved by changing exercises to be group-based or by changing the workshop format (i.e., in-person over Zoom).
- **Templates**: Given the high interest in using LATEX for dissertations and research papers, the templates we review on Day 3 should be changed accordingly.

## Survey (Qualitative/Feedback)

Respondents provided free-form answers to two questions. The questions and a few representative answers are included below.

#### What did you like about the workshop series?

- very insightful."
- new questions that I wouldn't have otherwise encountered."
- Carlos cover the chat part!"

#### What suggestions would you make to improve the workshop series?

- coded in Latex..."
- answering and lump the questions into a few time slots."

#### Insights/Improvements

- lecture to answer questions might be a good way to address this.
- setting, so a longer review session ( $\approx 1.5$  or 2 hours) may be warranted.

1] T. Oetiker, H. Partl, I. Hyna, and E. Schlegl, "The not so short introduction to  $\mathbb{A}T_{\mathrm{E}} X 2 \varepsilon,$ " 1995.

[2] J. Wright, "Learnlatex.org," https://www.learnlatex.org/.



• "The lectures were great! I feel like I learned so much in just a few hours. It helps that people were asking really good questions and then the answers were

• "[The exercises were] where the rubber hit the road for me; they were very effective for reinforcing the topics discussed in the lectures, and even gave rise to

• "It is a very organized workshop, lecturer mason did very detailed explained and question answer, and great demonstration, kind attitude! and we also have

• "I'd like to have gone through other templates for resumes or posters that were

• "...[S]ometimes folks' questions were a bit tangential to the topic – I thought it would have worked well to take slightly fewer lecture breaks for question

• "I think adding an extra hour to each day and making it more interactive so that people can follow along with their own Overleaf documents would help."

• Answering questions: Some folks appreciated my willingness to answer questions, but others found it distracting. Setting aside time at the end of the

• **Timing**: Some participants wanted more time to work on exercises in a group