

# Digital Skills for Research L<sup>A</sup>T<sub>E</sub>X , Mendeley/Zotero and Github

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## Day 1. Setup, basic commands and environments

### 1. Why T<sub>E</sub>X and first doc

- What's T<sub>E</sub>X (distributions, editors, engines, formats, templates)
- Overleaf account and project
- First document (class, packages, layout, title, sections, margins, columns)

### 2. Text and math

- Text formatting
- Special characters
- Math

### 3. Lists, tables and figures

- Environments
- Tables
- Graphics and drawing

## Day 2. Cross-refs, templates and beamer

### 1. Cross-referencing and customisation

- Internal and external links
- Own commands

### 2. Building from templates

- Templates and big projects
- Preliminaries on bibliographic references

### 3. Presentations and posters

- Beamer themes: layout and colour
- Slides-specific commands
- Producing posters and own .sty

## Day 3. Bibliography and Github

### 1. Reference (citation) styles

- Morphology of a bibliographic description (APA, Chicago and Harvard)
- .bib files and bibliography engines
- In-text and end-of-text referencing commands

### 2. Reference management: Mendeley or Zotero

- Basic uses and setting up
- Integration (word processor, browser, Latex project)
- Library use and maintenance

### 3. Version control and collaboration: Git and GitHub

- Keeping track of changes
- Local and remote, push and pull, auth
- Markdown and arranging repos

#### Recommended resources

- **LaTeX**: T<sub>E</sub>X UsersGroup and Overleaf tutorials
- **GitHub**: Pro Git book by Scott Chacon and Ben Straub and Get started from github.com
- **Mendeley**: Official Guides

#### Historical Notes and Trivia

- T<sub>E</sub>X is a typesetting system which was designed by Donald Knuth and first released in 1978.
- The letters of the name are meant to represent the capital Greek letters tau, epsilon, and chi ( $\tau\epsilon\chi$ ), Greek for both “art” and “craft” (*technology*).
- The word L<sup>A</sup>T<sub>E</sub>X is an abbreviation of “Lamport’s TeX”, named after Leslie Lamport. He added and described **a collection of macros** (1986) to the original T<sub>E</sub>X .
- pronounced as /ˈlɑːtɛk/ or /ˈleɪtɛk/
- It is also a pun with the English word *latex* (try it in image google search)