

Digital Skills for Research

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1 **T_EX and L^AT_EX**

1.1 **Week 1. Setup and basics**

Session 1. Why T_EX and first doc (pdf, task)

- What's T_EX (distributions, editors, engines, formats, templates)
- Overleaf account and project
- First document (class, packages, layout, title, sections, margins, columns)

Session 2. Text and math (pdf, task)

- Text formatting
- Special characters
- Math

Week 2. Environments and non-text elements

Session 3. Tables and figures (pdf, task)

- Environments
- Tables
- Graphics and drawing

Session 4. Customisation, cross-referencing and templates (pdf, task)

- Own commands
- Internal and external links
- Templates and big projects

Week 3. Beamer and bibtex

Session 5. Presentations and posters (pdf, task)

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

*thanks to the RGCL for the opportunity to brush up and systematise these

Session 6. Bibliographies (pdf, task)

- Basics on referencing styles
- .bib files and bibliography engines
- Get References section

2 Week 4. Mendeley and Github

Session 7. Reference management: Mendeley (pdf, task)

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

Session 8. Version control and collaboration: Git and GitHub (pdf, task)

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

Housekeeping

- Canvas: Materials; Schedule
Wed, Fri 10am-11am, live sessions
- Workshop materials on GitHub, inc.
all source files
- Achievement Tracker: confident
 \LaTeX user, familiar with \LaTeX , basic \LaTeX skills (report completion in a GoogleDoc)
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Naming convention for any submissions:
ID_task#.pdf

where ID is your unique name and # is the
number of the respective training session

Recommended resources

- **LaTeX:** \TeX UsersGroup and Overleaf tutorials
- **GitHub:** Pro Git book by Scott Chacon and Ben Straub and Get started from github.com
- **Mendeley:** Official Guides