Digital Skills for Research

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02 March - 25 March, 2022

1 TeX and LaTeX

1.1 Week 1. Setup and Start

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

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

Session 2. Text and math (pdf, tex, 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 Bibs

Session 5. Presentations and posters (pdf, task)

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

Session 6. Bibliographies (pdf, task)

- Basics on referencing styles

- .bib files and bibliography engines

- Get References section

2 Week 4. Mendeley and Github
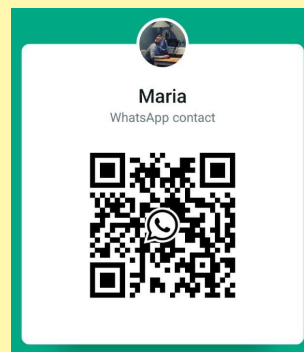
Session 7. Reference management: Mendeley (pdf, task)

- 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

- each session has a source file with the session content and a practical task for independent work

- Canvas: Materials; Schedule
  Wed, Fri 10am-11am, live sessions

- GitHub: Source code for all sessions

- Send, or share with, me your source code (m.kunilovskaya@wlv.ac.uk) and track your progress in the course Achievement and Attendance Tracker to earn a certificate and ascertain your level: confident user, familiar with LaTeX, basic skills

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Naming convention for any submissions:
ID_task#.pdf
where ID is your unique name and # is
the number of the 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