Introduction to writing with LaTeX

Markus Stocker

May 12, 2017

Outline

- Morning lecture
  - What is LaTeX
  - Some LaTeX history
  - Motivating LaTeX
  - LaTeX software environment
  - Elements of LaTeX documents
  - Scientific documents with journal LaTeX templates
  - LaTeX for slides and posters
  - Collaborative writing and versioning of LaTeX documents
- Afternoon hands-on
  - Develop your LaTeX manuscript
  - Style your manuscript with journal templates
  - Revise your manuscript with track changes
  - Create slides and a poster to present your work
  - Collaborative writing with your co-authors

Schedule

10.00 - 11.30	Lecture
11.30 - 12.30	*Lunch*
12.30 - 13.15	Hands-on I
13.15 - 13.30	*Break*
13.30 - 14.15	Hands-on II
14.15 - 14.45	*Coffee break*
14.45 - 15.30	Hands-on III
15.30 - 15.45	*Break*
15.45 - 16.30	Hands-on IV
16.30 - 17.00	Closing

About me

- Postdoc with PANGAEA at MARUM
- PhD in environmental informatics at University of Eastern Finland
- MSc in informatics at University of Zurich
- MSc in environmental science at University of Eastern Finland *(soon)*
- My history with LaTeX goes back to 2001 when ...

What is LaTeX

- Document preparation system
- Most often used for technical or scientific documents
- Worry less about style and more about content
- Write plain text rather than formatted text
- Using markup tagging for things like
  - Defining document structure, e.g. chapters, sections
  - Styling text, e.g. italic, tables
  - Citing, footnoting, cross-referencing
- Free software
- Available for Windows, Mac OS, Linux, Online

https://www.latex-project.org

```
1  \textit{Example}
2  markup
3  \underline{tagging}
```

Example markup tagging

A bit of history

- LaTeX was authored by L. Lamport, an American computer scientist
- Originally released in 1985