

LATEX Workshop

Cosima Meyer and Dennis Hammerschmidt

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University of Mannheim

What is LTEX?

- Developed by Leslie Lamport in the 1980s
- User-friendly version to use TEX (ETEX = Lamport TEX)
- High-quality typesetting system with minimal effort
- Produces exactly the same result across all computers (TEX-logic)
- Usually used for technical reports and scientific articles
- Main difference between Word and LATEX:
 - Word: "what you see is what you get" (WYSIWYG) you have to format everything individually
 - LATEX: "what you see is what you mean" (WYSIWYM) you enter plain text and LATEX does the rest

First introduction i

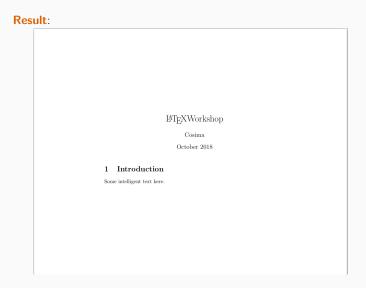
- Structure of a LATEX document
 - Preamble: Defines all the necessary settings (e.g., font, line spacing, packages)

```
1 \documentclass{article}
2 \usepackage[utf8]{inputenc}
3
4 \title{\LaTex workshop}
5 \author{Cosima}
6 \date{October 2018}
```

2. Main document: Your plain text

```
8 - \begin{document}
9
10 \maketitle
11
12 - \section{Introduction}
13 Some intelligent text here.
14
15 \end{document}
```

First introduction ii



Introduction to the basic term paper template

- Open an empty project in overleaf
- And open the following link in a new tab: https://bit.ly/2Gi2OWN

Trial and error: Now it's your turn...

- 1. Open this template: https://bit.ly/2Gi2OWN
- 2. Rename title
- 3. Add your name
- 4. Tell LATEX to print the title/name on your paper
- 5. Add your introduction from your old term paper to the template
- 6. Highlight some parts of the text in italics
- 7. Decrease the size of some parts of the text
- 8. Add a figure
- 9. Add a subsubsection
- 10. Add one reference for a book
- 11. Generate a list with dashes
 - *. Add a table (You may want to use the tablegenerator: https://www.tablesgenerator.com)
 - *. Refer to the figure included in the text (Hint: This relates to the command label).

Further links

- More sophisticated template: https://bit.ly/2DHqGm7 (similar to the one we used during the class)
- Cheat sheet for Later https://bit.ly/2UVChSE
- 30-minutes tutorial: https://www.overleaf.com/learn/ latex/Learn_LaTeX_in_30_minutes
- General tutorials: https://www.overleaf.com/learn/latex/Tutorials
- To get an idea of LTEX: https://bit.ly/20oudKm
- Templates: https://www.overleaf.com/latex/templates
- If you are lost: Google, https://tex.stackexchange.com, and/or https://stackoverflow.com/questions/tagged/latex