# Methods Training Scholarship, Posters and Thesis (English)

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Spring 2018

Day	Date	Session	Торіс
1	13-02-2019	Morning (9:00 - 12:00)	Introduction
1	13-02-2019	Morning	Scholarship and research
1	13-02-2019	Morning	Taking notes
1	13-02-2019	Afternoon (13:00 - 15:30)	Posters
1	13-02-2019	Afternoon	Intro to Linux, desktop, command line
1	13-02-2019	Afternoon (15:30 – 18:00)	Personal working time (poster)
2	14-02-2019	Morning	Citations
2	14-02-2019	Morning	Literature searching and bibtex files
2	14-02-2019	Morning	Reference management (Citavi and Jabref)
2	14-02-2019	Afternoon	Inkscape & (Python3 ?)
2	14-02-2019	Afternoon	Personal working time (poster)
3	15-02-2019	Morning	Research questions and hypotheses
3	15-02-2019	Morning	Writing your thesis and personal time line
3	15-02-2019	Morning	FAQ thesis, IATEX
3	15-02-2019	Afternoon	Personal working time (poster)
	17-02-2019	Night (21:00)	Final PDF uploaded to LEA
4	18-02-2019	Morning 9:00	Poster PDF must be delivered to printshop
4	18-02-2019	Morning (1 hr)	Git
4	18-02-2019	Morning 10:00	Library seminar
4	18-02-2019	Afternoon	Significant figures and rounding
4	18-02-2019	Afternoon	Personal working time
5	19-02-2019	Morning	Ethics
5	19-02-2019	Morning	Course evaluations
5	19-02-2019	Afternoon	Poster presentation
	??-??-2019	08:00-11:00	Poster Session at the Niehl training center

# Questions or comments from last lecture(s)?

German and English Thesis Examples and Template:

 $https://gitlab.com/k.n.kirschner/H-BRS\_Thesis\_Template.git$ 

#### **FAQ About Thesis:**

LEA  $\rightarrow$  EMT-Studieninfos  $\rightarrow$  Prufüngen  $\rightarrow$  FAQ  $\rightarrow$  Häufige Fragen zu Prüfungsangelegenheiten  $\rightarrow$  Prüfungsinformationen für alle EMT-Studiengänge:  $\rightarrow$  Fragen zur Abschulssarbeit und zum Kolloquim

Bib-Cloud – https://www.h-brs.de/en/bib/cloud-storage-keep-yourfiles-safe-bibcloud



Photo by Mario Purisic on Unsplash

# LATEX and writing

or

# How to make professional-looking documents (i.e. the content is up to you)

# LATEX and writing



- Typesetting journal articles, technical reports, books, and slide presentations.
- Control over large documents containing sectioning, cross-references, tables and figures.
- Typesetting of complex mathematical formulas.
- Automatic generation of bibliographies and indexes.

Online Guide: https://en.wikibooks.org/wiki/LaTeX

#### Overview

- Structure of a LATEX document
- Displaying Text
  - bold, italics, subscripts
  - centering, raggedleft
  - lists
  - verbatim
  - boxes
  - tables
- Typesetting mathematical formulas.
- Figures and Tables (floats)
- Bibliographies and indexes.

Online Guide: https://en.wikibooks.org/wiki/LaTeX

#### Overall basic structure

```
01 example simple.tex:
\documentclass[a4paper,12pt]{article}
\title{The Best Thesis Title Ever}
\author{Jane Doe}
\date{September 2019}
\begin{document}
   \maketitle
   Hello scholarly world!
\end{document}
The latex project. https://www.latex-project.org/about.
```

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Accessed November 27th, 2017

**Example: Using Packages** 

```
02 example usepackage.tex:
```

```
\documentclass{article}
\usepackage{lipsum} % generates Lorem lpsum dummy text
\title{The Best Thesis Title Ever}
\author{Jane Doe}
\date{\today}
\begin{document}
   \maketitle
   \lipsum[1-3] % first 3 paragraphs of lipsum
\end{document}
```

## **Sections and Paragraphs**

# $03\_sections\_paragraphs.tex$

```
\section{}
\subsection{}
\subsubsection{}

\paragraph{}
```

\subparagraph{}

#### Font Effects

## 04\_font\_effects.tex

```
Bold: \textbf{Lorem ipsum dolor sit amet}
Underline: \underline{Lorem ipsum dolor sit amet}
Italics: \textit{Lorem ipsum dolor sit amet}
Slanted: \textsl{Lorem ipsum dolor sit amet}
Emphasis: \emph{Lorem ipsum dolor sit amet}
Small Caps: \textsc{Lorem ipsum dolor sit amet}
Teletype: \texttt{Lorem ipsum dolor sit amet}
Sans Serif: \textsf{Lorem ipsum dolor sit amet}
Roman Words: \textrm{Lorem ipsum dolor sit amet}
```

#### Font Effects

```
04 font effects.tex and
` (grave accent): à
(acute accent): á
^ (circumflex or "hat"): â
" (umlaut or dieresis): ä
~ (tilde or "squiggle"): ã
(macron or "bar"): ā
(dot accent): à
~ (breve accent): ă
(háček or "check"): ă
" (long Hungarian umlaut): ő
```

German rules and fonts

 $05\_font\_labels\_ngerman.tex$ 

### Citing and Cross Referencing

## 06\_example\_citing\_crossref.tex

```
\cite
\bibliographystyle{abbrv}
\bibliography{bibtex_examples}
\label{marker}
\ref{marker}
\pageref{marker}
```

#### Large documents: Include statement

## $07\_example\_include\_files.tex$

Let's say you have a main LATEX document and then separate ones for chapters:

- main.tex
- chapter 1.tex
- chapter 2.tex
- chapter\_3.tex

#### main.tex:

```
\include{chapter_1}
\include{chapter_2}
\include{chapter_3}
```

Example: Math

 $08\_example\_math.tex$ 

Example: Verbatim

 $09\_example\_verbatim.tex$ 

**Example: Figures** 

 $10\_example\_figures.tex$ 

Example: Tables

 $11\_example\_tables.tex$ 

#### Helpful Misc. Files

#### Tips on making a LATEX table

Do everything necessary within a spreadsheet

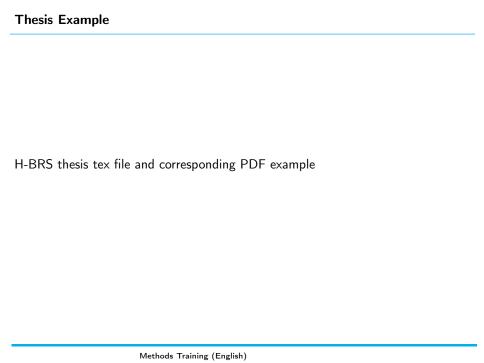
- Save the spreadsheet in the program's native format (preserves formulas)
- Make sure you don't use "&" or mark it with as "\&"
- Save as (or Export) as a csv formatted file
  - Field delimiter = &
  - Text delimiter = (nothing)
- add "\\" to end of lines

For Linux command line users
If you have the data already in a csv file (using commas)

csv2latex filename.csv > newname.csv

#### Example

```
\begin{table}[h!]
 \centering
 \caption{Example of a simple table.}
 \label{tab:example1}
 \normalsize \%\% fontsize for table
 \begin{tabular}{1|cr}
      NAME 1 \& NAME 2&ITEM&VALUE \\
      Test \& Example 1&Item 1&Value 1 \\
      Test \& Example 2&Item 2&Value 2 \\
      Test \& Example 3&Item 3&Value 3 \\
 \end{tabular}
\end{table}
```



The latex project. https://www.latex-project.org/about. Accessed November 27th, 2017.			