

HUMBOLDT-UNIVERSITÄT ZU BERLIN



# L<sup>A</sup>T<sub>E</sub>X for Linguists

## L<sup>A</sup>T<sub>E</sub>X 1: Basics

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[www.linguistik.hu-berlin.de/staff/amp](http://www.linguistik.hu-berlin.de/staff/amp)

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# Contents

- 1 What is L<sup>A</sup>T<sub>E</sub>X?
- 2 Overleaf
- 3 Document structure 1
- 4 Document class
- 5 Commands
- 6 Document structure 2
  - Headlines
  - Cross references 1
  - Paragraphs & line breaks
  - Table of contents
- Footnotes
- 7 Characters & spaces
  - Special characters
  - Space & line break
- 8 Commenting out
- 9 Text formatting
- 10 Text environments
  - Quotations
  - List environments
  - Abstract
- 11 Loading packages

# 1 What is L<sup>A</sup>T<sub>E</sub>X?

## 2 Overleaf

## 3 Document structure 1

## 4 Document class

## 5 Commands

## 6 Document structure 2

## 7 Characters & spaces

## 8 Commenting out

## 9 Text formatting

## 10 Text environments

## 11 Loading packages

# What is L<sup>A</sup>T<sub>E</sub>X?

- $\tau\epsilon\chi$  (T<sub>E</sub>X) was developed between 1977 and 1986 by Donald E. Knuth.
- L<sup>A</sup>T<sub>E</sub>X is an interface with helpful macros for the T<sub>E</sub>X system. It was written by Leslie Lamport (= **L**amport **T**<sub>E</sub>**X**).
- L<sup>A</sup>T<sub>E</sub>X works with **markup tagging conventions** – similar to HTML – to
  - define the structure of the document (e.g. chapters and sections),
  - for typographic marking (e.g. bold and italics),
  - for cross-references (e.g. citations)

# WYSIWYG vs. WYGIWYN

- MS Word or Libre Office: **WYSIWYG** (*what-you-see-is-what-you-get*)

This is a headline

This word is **bold** and this one is in *italics*.

- L<sup>A</sup>T<sub>E</sub>X: **WYGIWYN** or **WYGIWYM** (*what-you-get-is-what-you-need/mean*)

▼ \section{This is a headline}

This word is \textbf{bold} and this one is in \textit{italics}.

# Overleaf

- 1 Go to: <https://www.overleaf.com>  
Overleaf is an online L<sup>A</sup>T<sub>E</sub>X editor.
- 2 **Register** with your email address and create a new blank project.  
Your project is not completely empty. Overleaf provides already some information. Later, we are going to change this information.
- 3 **Compile** your project: Click on the green button *Recompile*.

You will find the tasks for our course here:

<https://github.com/langsci/latex4linguists/blob/master/1-1.md>

1 What is L<sup>A</sup>T<sub>E</sub>X?

2 Overleaf

3 Document structure 1

4 Document class

5 Commands

6 Document structure 2

7 Characters & spaces

8 Commenting out

9 Text formatting

10 Text environments

11 Loading packages

# Document structure 1

A L<sup>A</sup>T<sub>E</sub>X document consists of (at least) two parts: **preamble** and **body**.

## L<sup>A</sup>T<sub>E</sub>X preamble

part of the document where **global characteristics** of the document are specified.

## L<sup>A</sup>T<sub>E</sub>X body

part of the document where **local characteristics** of the document are specified and where you write your document.



## Exercise

- Insert the following lines in your `.tex` file and compile.

```
%%%%%%%%%%
% Compile: XeLaTeX BibTeX XeLaTeX XeLaTeX
%%%%%%%%%
\documentclass{scrartcl}

%%%%%%%%%PACKAGES%%%%%%%%%

%%%%%%%%%COMMANDS%%%%%%%%%

%%%%%%%%%META DATA%%%%%%%%%

%%%%%%%%%END PREAMBLE%%%%%%%%%

%%%%%%%%%BEGIN DOCUMENT%%%%%%%%%

\begin{document}

This is my first \LaTeX file.

\end{document}

%%%%%%%%%END DOCUMENT%%%%%%%%%
```

- Write something after the `\end{document}` command and compile again.

# Document class

Global parameters of the layout can be specified in the `documentclass` command. The most commonly used classes are:

- `book` for books
- `article` for articles, without chapters, only with sections
- `beamer` for presentations, without chapters, only with sections

Variations of these classes (not in American formats) are provided by the KOMA-Script:

- `scrbook` for books
- `scrartcl` for articles, without chapters, only with sections

You can specify **options** in your `documentclass` command.

- **Font size** as default: 10pt, 11pt, 12pt  
Default → 10pt
- **Paper format**: letterpaper, a4paper  
Default → letterpaper

Specification of paper format in KOMA-Script classes: `paper=a4`, `paper=letter`

# Exercise

- Specify the following options for your document `.tex` file and compile.

```

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Compile: XeLaTeX BibTeX XeLaTeX XeLaTeX
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\documentclass[10pt, paper=a4, abstracton]{scrartcl}

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%PACKAGES%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%COMMANDS%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%META DATA%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%END PREAMBLE%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%BEGIN DOCUMENT%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

\begin{document}

This is my first \LaTeX\ file.

\end{document}

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%END DOCUMENT%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

- 1 What is L<sup>A</sup>T<sub>E</sub>X?
- 2 Overleaf
- 3 Document structure 1
- 4 Document class
- 5 Commands**
- 6 Document structure 2
- 7 Characters & spaces
- 8 Commenting out
- 9 Text formatting
- 10 Text environments
- 11 Loading packages

# Commands

In L<sup>A</sup>T<sub>E</sub>X, there are normally **3 types of commands**:

- **declarations:** backslash + command name

The scope of the command can be defined by an environment or with curly brackets.

```
\declaration ...
{\declaration ...} outside of scope
```

```
{\Huge Hello world!} outside of scope
```

- **simple commands:** backslash + command name + optional arguments (square brackets) + obligatory arguments (curly brackets)

```
\name[optional]{obligatory}
```

```
\textit{Text in italics}
```

- **environments:** begin + end command.

Command applies between begin and end.

```
\begin{environment}[optional]
...
\end{environment}
```

```
\begin{center}
Hello world!
\end{center}
```

1 What is L<sup>A</sup>T<sub>E</sub>X?

2 Overleaf

3 Document structure 1

4 Document class

5 Commands

6 Document structure 2

7 Characters & spaces

8 Commenting out

9 Text formatting

10 Text environments

11 Loading packages

# Meta data

Specifying the **meta data** of your document **in the preamble**:

```
\author{first name last name \and first name last name}  
\title{my title}  
\subtitle{my subtitle}  
\date{14th Februar 2019}
```

- Other options for date: `\date{\today}`, `\date{}`  
Default → `\date{\today}`

Use the command `\maketitle` after `\begin{document}` to include this information in your output.



# Exercise

Specify the meta data in your document with two authors, use the `\maketitle` command, and try different commands for date.

```
\documentclass[10pt, paper=a4, abstracton]{scrartcl}

%%%%%%%%%%%%%PACKAGES%%%%%%%%%%%%%

%%%%%%%%%%%%%COMMANDS%%%%%%%%%%%%%

%%%%%%%%%%%%%META DATA%%%%%%%%%%%%%
\author{Sebastian Nordhoff \and Antonio Machicao y Priemer}
\title{\LaTeX\ for Linguists}
\subtitle{My first \TeX\ document}
\date{\today}

%%%%%%%%%%%%%END PREAMBLE%%%%%%%%%%%%%

%%%%%%%%%%%%%BEGIN DOCUMENT%%%%%%%%%%%%%

\begin{document}

\maketitle
```

# Headlines

Commands for the structure of your text:

- `\part{title}` (only in book/scrbook and report/scrreprt)
- `\chapter{title}` (only in book/scrbook and report/scrreprt)
- `\section{title}`
- `\subsection{title}`
- `\subsubsection{title}`
- `\paragraph{title}`
- `\subparagraph{title}`

These commands can be used with an option, e.g.

`\section[short title]{long title}`

The text in the **option** – when used – appears in the **table of contents** and in the **headers**, otherwise only the text in the **argument** is used.

# Cross references 1

To work with cross references, you need two things:

- 1 a label with an ID: `\label{ID}`

The ID must be **unique** for the labelled element in your document.

- 2 a reference: `\ref{ID}`

With the `ref` command, L<sup>A</sup>T<sub>E</sub>X will take the **number of the element labelled** with the given ID and use it for cross references.

The `label` command must **follow** (if possible: immediately) the element it is labelling.

The command `\pageref{ID}` will give you the **page** on which the labelled element appears.

```
\section{Introduction}
\label{sec:Intro}
```

To see how cross referencing works, take a look at Section `\ref{sec:Intro}`  
which is on page `\pageref{sec:Intro}`

For long works, it is **useful** to have **prefixes**. They help you to find your references faster.

`sec` for sections, subsections, ...

`fig` for figures

`tab` for tables

`it` for numbered items in lists

`eq` for equations

`fn` for footnotes

```
\section{Introduction}
```

```
\label{sec:Intro}
```

To see how cross referencing works, take a look at Section `\ref{sec:Intro}`  
which is on page `\pageref{sec:Intro}`

# Paragraphs & line breaks

- new **paragraph**: twice `<ENTER>` (↵) key
- **line** break: `\newline` or `\\` cause a line break without ending the paragraph.
- new **page**: `\newpage` or `\clearpage`
- `\noindent` **prevents** the **indentation** after a line break.

# Table of contents

To **generate a table of contents** just include the following command in the body of your document at the position where you want the toc to appear.

L<sup>A</sup>T<sub>E</sub>X generates your toc taking the **information from your structuring commands** (e.g. `\section[short title]{title}`).

```
\tableofcontents
```

```
%%%%%%%%%%%%BEGIN DOCUMENT%%%%%%%%%
```

```
\begin{document}
```

```
\maketitle
```

```
\tableofcontents
```

```
\section[Introduction]{A short introduction}
```

This is a sample text. The only purpose of this text is to show how `\LaTeX` work with `\LaTeX` . It is not necessary that this text has any meaning. It should only show some properties of the system we are using.

```
\subsection{A note on the data}
```

This is a sample text. The only purpose of this text is to show how `\LaTeX` work with `\LaTeX` . It is not necessary that this text has any meaning. It should only show some properties of the system we are using.

```
\end{document}
```

```
%%%%%%%%%%%%END DOCUMENT%%%%%%%%%
```

# Footnotes

To generate a footnote, use the following command at the position where the **footnote index** should appear.

```
\footnote{content of the footnote}
```

## Example

```
This is a sample text. The only purpose of this text\footnote{A text  
(literary theory) is any object that can be read.} is to show how  
to work with footnotes in \LaTeX .\footnote{\LaTeX\ is a document preparation  
system.}
```



# Exercise

Go to

<https://github.com/langsci/latex4linguists/blob/master/1-1.md>  
and follow the instructions of the **first four blocks** in your .tex file.

- 1 What is L<sup>A</sup>T<sub>E</sub>X?
- 2 Overleaf
- 3 Document structure 1
- 4 Document class
- 5 Commands
- 6 Document structure 2
- 7 Characters & spaces**
- 8 Commenting out
- 9 Text formatting
- 10 Text environments
- 11 Loading packages

# Characters & spaces

- The following characters can be used without problems:

```
a...z A...Z 0...9
. , : ; ? ! ' ' " ( ) + - * =
```

- With XeL<sup>A</sup>T<sub>E</sub>X, you can write **accents** and **umlauts** without further commands. Another option is to use **commands**:

```
\ "A \ "O \ "a \ "o \ 'a \ 'o \ ss{} \ ^u \ ~n
\ "{A} {\ "O} {\ ss}
```

(1) Ä Ö ä ö á ò ß û ñ  
 Ä Ö ß

- The following characters have a **special meaning** in T<sub>E</sub>X.  
 You must **escape** their function to use them. (It depends on your compiler  
 e.g. XeL<sup>A</sup>T<sub>E</sub>X vs. PDFL<sup>A</sup>T<sub>E</sub>X)

```
# $ & _ { } \ < > | ~ ^ [ ] %
```

- escaping with **backslash**

```
\# \$ \% \_ \{ \} \%
```

(2) # \$ & - { } %

- escaping with **macros** or **math mode**

```
\textbackslash \textasciitilde \textasciicircum  

\textgreater $>$ \textless $<$ \textbar $\textverbar$ $|
```

(3) \ ~ ^ > > < < | | |

- Sometimes **angled brackets**  $\langle \rangle$  can be used in XeLaTeX without further commands.
- **Square brackets**  $[ ]$  can be used in plain text, but they can also mark the **option** of a command (e.g. in `\section[short title]{title}`).  
 In this case use them in math mode  $\$[ \$ \text{ text } \$]$  for the brackets.

More on special characters:

[https://en.wikibooks.org/wiki/LaTeX/Special\\_Characters](https://en.wikibooks.org/wiki/LaTeX/Special_Characters)

# Space & line break

L<sup>A</sup>T<sub>E</sub>X has a special treatment of **spaces** and **line breaks** to avoid typographic errors:

- **no difference** between a **blank** and a **tab**
- **Consecutive blanks** are treated as only one blank.
- A **blank** at the **beginning of a line** is ignored.
- One **line break** (1x `<ENTER>`) is interpreted as a blank.
- One **empty line** (2x `<ENTER>`) is interpreted as the end of a paragraph.
- **More than one empty line** is interpreted as one empty line.

## Example

This is a sample text with too many spaces. Here, I use one line break.

This is a sample text. Now, I use one blank line.

This is a sample text. Now, I use 3 blank lines.

This is a sample text.

This is a sample text with too many spaces. Here, I use one line break. This is a sample text. Now, I use one blank line.

This is a sample text. Now, I use 3 blank lines.

This is a sample text.

- 1 What is L<sup>A</sup>T<sub>E</sub>X?
- 2 Overleaf
- 3 Document structure 1
- 4 Document class
- 5 Commands
- 6 Document structure 2
- 7 Characters & spaces
- 8 Commenting out**
- 9 Text formatting
- 10 Text environments
- 11 Loading packages

# Commenting out

In LaTeX, text following the character **%** in a line will be **ignored**.

- **hiding code/text**, without deleting it;
- **finding errors** in sections;
- **avoiding blanks** and **empty lines** in a long input line;
- **writing comments** without seeing it in the output.

```
This is a sample text. %These are just notes
%Here is a special characters and a command: & \small
```

```
A comment can divide a word:
Rindfleischetikettierungs% 5 morphemes
überwachungsaufgaben% 6 morphemes
übertragungsgesetz.
```

This is a sample text.

A comment can divide a word: Rindfleischetikettierungsüberwachungsaufgaben-  
übertragungsgesetz.



- 1 What is L<sup>A</sup>T<sub>E</sub>X?
- 2 Overleaf
- 3 Document structure 1
- 4 Document class
- 5 Commands
- 6 Document structure 2
- 7 Characters & spaces
- 8 Commenting out
- 9 Text formatting**
- 10 Text environments
- 11 Loading packages

# Text formatting

```
\textbf{bold}  
\textit{italics}  
\textsl{slanted}  
\emph{emphasized}  
\it test \textup{upright} test}  
\texttt{typewriter}  
\textsc{small caps}  
ex\textsuperscript{up}  
ex\textsubscript{down}
```

**bold**  
*italics*  
*slanted*  
*emphasized*  
test upright test  
typewriter  
SMALL CAPS  
ex<sup>up</sup>  
ex<sub>down</sub>

Some of these commands can be also used as **declarations**.

```
{\tiny tiny}  
{\scriptsize scsize}  
{\footnotesize fnsiz}  
{\small small}  
{\normalsize normal}  
{\large large}  
{\Large Large}  
{\LARGE LARG}  
{\huge huge}  
{\Huge Huge}
```

tiny  
scsize  
fnsiz  
small  
normal  
large  
Large  
LARG  
huge  
Huge

The commands for font size can be used as **declarations** or as **environments**.

# Exercise

Go to

<https://github.com/langsci/latex4linguists/blob/master/1-1.md>  
and follow the instructions of the **fifth block** in your .tex file.

Test further commands!

- 1 What is L<sup>A</sup>T<sub>E</sub>X?
- 2 Overleaf
- 3 Document structure 1
- 4 Document class
- 5 Commands
- 6 Document structure 2
- 7 Characters & spaces
- 8 Commenting out
- 9 Text formatting
- 10 Text environments**
- 11 Loading packages

# Text environments

You will normally need the following text environments:

- quotations,
- lists,
- abstracts,
- ...

# Quotations

- In L<sup>A</sup>T<sub>E</sub>X there are two environments for quotations `quote` and `quotation`.
- Both show a different output dependent on the document class (e.g. `beamer` vs. `article`).

This is a sentence before the `\texttt{quote}` environment.

```
\begin{quote}
```

Furthermore, each actual ‘‘language’’ will incorporate a periphery of borrowings, historical residues, inventions, and so on, which we can hardly expect to -- and indeed would not want to -- incorporate within a principled theory of UG. [\dots]

Viewed against the reality of what a particular person may have inside his head, core grammar is an idealization. \hfill (Chomsky,~1981:~8)

```
\end{quote}
```

This is a sentence after the `\texttt{quote}` environment.

# List environments

L<sup>A</sup>T<sub>E</sub>X has 3 pre-defined and 1 general list environments:

- `itemize`,
- `enumerate`,
- `description`,
- `list`.

Every environment begins with the `\begin{ }` and ends with the `\end{ }` command.  
Each point on the list begins with `\item`.

```
\begin{itemize}
\item syntax
\item semantics

\begin{itemize}
\item lexical semantics
\item propositional semantics
\end{itemize}

\item morphology
\end{itemize}
```

- syntax
- semantics
  - lexical semantics
  - propositional semantics
- morphology



The description list can be used for terms with their definitions.

```
\begin{description}
\item[Morpheme:] smallest grammatical unit in a language bearing a meaning

\begin{description}
\item[Allomorph:] phonetic variant of a morpheme
\end{description}

\item[Phoneme:] systematic unit of sound (or gesture in the case of sign
languages, see chereme) that distinguish one word from another in a particular
language
\end{description}
```

**Morpheme:** smallest grammatical unit in a language bearing a meaning

**Allomorph:** phonetic variant of a morpheme

**Phoneme:** systematic unit of sound (or gesture in the case of sign languages, see chereme) that distinguish one word from another in a particular language

# Combining lists

Lists can be **combined** with and **embedded** in other list types.

```
\begin{description}
\item[Morpheme:] smallest grammatical
unit in a language bearing a meaning

\begin{itemize}
\item minimal unit in morphology
\item subtypes:

\begin{enumerate}
\item roots
\item prefixes
\item suffixes
\item \dots
\end{enumerate}
\end{itemize}
\end{description}
```

Morpheme: smallest grammatical  
unit in a language  
bearing a meaning

- minimal unit in morphology
- subtypes:
  - ① roots
  - ② prefixes
  - ③ suffixes
  - ④ ...

# Customizing lists

Bullet points can be customized with an **optional parameter**.

```
\begin{itemize}
\item standard symbol
\item[+] customized
\item[--] customized
\item[--] customized
\end{itemize}
```

- standard symbol
- + customized
- customized
- customized

```
\begin{enumerate}
\item standard symbol
\item[+] customized
\item[+] customized
\item[--] customized
\item standard symbol
\end{enumerate}
```

- ① standard symbol
- + customized
- + customized
- customized
- ② standard symbol

# Abstract

For automatic abstracts, use the option `abstracton` in the `\documentclass` command.

```
\begin{abstract}
```

An abstract is a brief summary of a research article, thesis, or any in-depth analysis of a particular subject and is often used to help the reader quickly ascertain the paper's purpose.\par

When used, an abstract always appears at the beginning of a manuscript, acting as the point-of-entry for any given academic paper.

```
\end{abstract}
```

## Abstract

An abstract is a brief summary of a research article, thesis, or any in-depth analysis of a particular subject and is often used to help the reader quickly ascertain the paper's purpose.

When used, an abstract always appears at the beginning of a manuscript, acting as the point-of-entry for any given academic paper.

# Exercise

Go to

<https://github.com/langsci/latex4linguists/blob/master/1-1.md>  
and follow the instructions of the **blocks 6–8** in your .tex file.

Test further commands!

- 1 What is L<sup>A</sup>T<sub>E</sub>X?
- 2 Overleaf
- 3 Document structure 1
- 4 Document class
- 5 Commands
- 6 Document structure 2
- 7 Characters & spaces
- 8 Commenting out
- 9 Text formatting
- 10 Text environments
- 11 Loading packages**

# Loading Packages

- The functions L<sup>A</sup>T<sub>E</sub>X offers are restricted. Most **extra features** you will need come with **packages** that you can load in your T<sub>E</sub>X document.
- Packages must be loaded in the **preamble** of your document.

```
\usepackage[parameter1, parameter2]{package name}
```

- Normally, L<sup>A</sup>T<sub>E</sub>X packages are already **pre-installed** in your T<sub>E</sub>X distribution (e.g. MiKTeX).
- Almost every other package (with manual) can be **downloaded** from CTAN – The Comprehensive T<sub>E</sub>X Archive Network (<http://www.ctan.org/>)
- With the command `\usepackage` your T<sub>E</sub>X distribution loads the package – or **downloads it automatically** if necessary.

These packages can be useful:

- Language package: `babel` `\usepackage[ngerman, english]{babel}`
- Font: `libertine` `\usepackage{libertine}`
- Blind text: `lipsum` or `blindtext` `\usepackage{blindtext}`
- URLs: `url` `\usepackage{url}`
- Links (e.g. for cross references): `hyperref`  
`\usepackage[bookmarksnumbered, hidelinks]{hyperref}`

Sometimes the **order** in that packages have been installed can affect the compilation (e.g. `gb4e` and `forest`).

Also, not all packages are **compatible** with each other or with your compiler (XeLaTeX vs. PDFLaTeX).



# Exercise

Go to  
<https://github.com/langsci/latex4linguists/blob/master/1-1.md>  
and follow the instructions of the **blocks 9–11** in your `.tex` file.

Test further commands!

# Internet sources I

- Graphic: File Extensions – xkcd, A webcomic of romance, sarcasm, math, and language  
<https://xkcd.com/1301/>  
[Access: 10/04/2017]
- Link: Akzente und Sonderzeichen in L<sup>A</sup>T<sub>E</sub>X.  
[https://de.wikibooks.org/wiki/LaTeX/\\_Akzente\\_und\\_Sonderzeichen](https://de.wikibooks.org/wiki/LaTeX/_Akzente_und_Sonderzeichen)  
[Access: 10/10/2017]
- Link: KOMA-Script.  
<https://www.komascript.de/>  
[Access: 02/01/2019]
- Link: Overleaf.  
<https://www.overleaf.com>  
[Access: 02/01/2019]
- Link: L<sup>A</sup>T<sub>E</sub>X/Special Characters.  
[https://en.wikibooks.org/wiki/LaTeX/Special\\_Characters](https://en.wikibooks.org/wiki/LaTeX/Special_Characters)  
[Access: 02/01/2019]
- Link: CTAN – The Comprehensive T<sub>E</sub>X Archive Network.  
<http://www.ctan.org/>  
[Access: 02/01/2019]

# Internet sources II

- Software: MiKTeX  
<https://miktex.org/>  
[Access: 10/04/2017]
- Software: TeXstudio  
<https://www.texstudio.org/>  
[Access: 10/04/2017]

# Literature I

- Chomsky, Noam. 1981. *Lectures on Government and Binding*. Dordrecht: Foris Publications.
- Freitag, Constantin & Antonio Machicao y Priemer. 2015. LaTeX-Einführung für Linguisten. Manuscript. <https://www.linguistik.hu-berlin.de/de/staff/amp/latex-einfuehrung>.
- Knuth, Donald E. 1986. *The TeX book*. Boston: Addison-Wesley.
- Kopka, Helmut. 1994. *LaTeX: Einführung*, vol. 1. Bonn: Addison-Wesley.
- Machicao y Priemer, Antonio & Robyn Kerkhof. 2016. LaTeX-Einführung für Linguisten – Slides. Presentation at the 7<sup>th</sup> linguistischer Methodenworkshop in the Humboldt-Universität zu Berlin – 22–24 February 2016. <https://www.linguistik.hu-berlin.de/de/staff/amp/latex-einfuehrung>.