

Mini Intro to L^AT_EX

SToRE Master Class 2017

Patrick Nuhn

Heinrich-Heine-Universität
Institut für Sprache und Information



October 5, 2017

Outline

- 1 What is L^AT_EX?
- 2 What do I need?
- 3 Demonstrations
- 4 Pros and Cons of Working with L^AT_EX
- 5 Getting Started

What is L^AT_EX?

- L^AT_EX – Collection of Macros for T_EX

What is L^AT_EX?

- L^AT_EX – Collection of Macros for T_EX
- T_EX – Typesetting program developed by DONALD E. KNUTH in the late 1970's
- T_EX is short for the Greek word τέχνη and means *art* or *craft*.
- Pronunciation: [tɛx]. (German: [tɛç]; English: [tɛk])

What is L^AT_EX?

- L^AT_EX – Collection of Macros for T_EX
- T_EX – Typesetting program developed by DONALD E. KNUTH in the late 1970's
- T_EX is short for the Greek word τέχνη and means *art* or *craft*.
- Pronunciation: [tɛx]. (German: [tɛç]; English: [tɛk])
- L^AT_EX – Short for “Lamport T_EX”, a software package developed by LESLIE LAMPORT in the 1980's to make T_EX more user friendly.

What do I need?

- 1 L^AT_EX-distribution
- 2 Editor
- 3 Bibliography Software

What do I need?

- 1 L^AT_EX-distribution
 - Differences hardly noticeable in everyday use.
 - *basic* vs. *full*: save yourself trouble and just take *full*
 - Contains the program that converts the `tex`-file you input into a `pdf`.
- 2 Editor
- 3 Bibliography Software

What do I need?

1 L^AT_EX-distribution

- Differences hardly noticeable in everyday use.
- *basic* vs. *full*: save yourself trouble and just take *full*
- Contains the program that converts the `tex`-file you input into a `pdf`.

2 Editor

- The editor is separate from L^AT_EX itself.
- Choice depends mostly on personal preference.
- In principle, any text editor works.

3 Bibliography Software

What do I need?

1 L^AT_EX-distribution

- Differences hardly noticeable in everyday use.
- *basic* vs. *full*: save yourself trouble and just take *full*
- Contains the program that converts the `tex`-file you input into a `pdf`.

2 Editor

- The editor is separate from L^AT_EX itself.
- Choice depends mostly on personal preference.
- In principle, any text editor works.

3 Bibliography Software

- Very convenient but not necessary.

My Recommendations

Distribution

MacOS MacT_EX, <https://tug.org/mactex>. (2,8 GB)

Ubuntu T_EXLive, Softwarecenter oder in der Konsole:
`sudo apt-get install texlive-full`

Windows T_EXLive, <https://tug.org/texlive>

Editor

T_EX-Studio easy to use, auto completion, clickable icons...
Download: www.texstudio.org

similar T_EXnicCenter,...

emacs very simple, I recommend using it with AUCT_EX.

T_EXShop ...

⋮

Demonstrations

- *Hello World!* – the hard way.
- T_EX-Studio – a quick tour
- Some advantages of working with L^AT_EX
- Bibliographies with and without BibDesk
- Linguistics in L^AT_EX
- Examples: article, thesis, poster, letter, presentation

Pros and Cons of Working with L^AT_EX

Pro

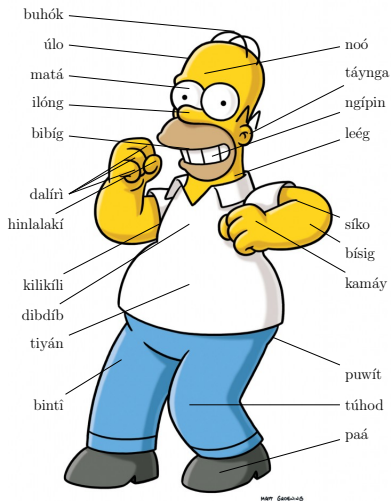
- looks more professional
- automatic numbering
- automatic lists
- cross references & hyperlinks
- bibliography management
- tables and figure (\rightsquigarrow TikZ)
- handles math better
- platform independent
- completely free
- more reliable

Con

- steep learning curve
- collaboration: not enough people use L^AT_EX
- not WYSIWYG
- (spell checking)

Example: TikZ

Ang Katáwan ni Homer



Pros and Cons of Working with L^AT_EX

Pro

- looks more professional
- automatic numbering
- automatic lists
- cross references & hyperlinks
- bibliography management
- tables and figure (\rightsquigarrow TikZ)
- handles math better
- platform independent
- completely free
- more reliable

Con

- steep learning curve
- collaboration: not enough people use L^AT_EX
- not WYSIWYG
- (spell checking)

Getting Started

- 1 Install the necessary software on your computer.

Getting Started

- 1 Install the necessary software on your computer.
- 2 Start out with a template from a friend or colleague who already uses L^AT_EX and just change the content.

Getting Started

- 1 Install the necessary software on your computer.
- 2 Start out with a template from a friend or colleague who already uses L^AT_EX and just change the content.
- 3 When you run into problems you have plenty of resources:

Getting Started

- 1 Install the necessary software on your computer.
- 2 Start out with a template from a friend or colleague who already uses L^AT_EX and just change the content.
- 3 When you run into problems you have plenty of resources:
 - **friends/colleagues**

Getting Started

- 1 Install the necessary software on your computer.
- 2 Start out with a template from a friend or colleague who already uses L^AT_EX and just change the content.
- 3 When you run into problems you have plenty of resources:
 - **friends/colleagues**
 - **documentations:** In T_EX-Studio: ctrl+click or cmd+click on package name or enter

`texdoc package`

into your UNIX-console.

Getting Started

- 1 Install the necessary software on your computer.
- 2 Start out with a template from a friend or colleague who already uses L^AT_EX and just change the content.
- 3 When you run into problems you have plenty of resources:
 - **friends/colleagues**
 - **documentations:** In T_EX-Studio: ctrl+click or cmd+click on package name or enter

`texdoc package`

into your UNIX-console.

- **forums:** countless forums on L^AT_EX-trouble online

Getting Started

- 1 Install the necessary software on your computer.
- 2 Start out with a template from a friend or colleague who already uses L^AT_EX and just change the content.
- 3 When you run into problems you have plenty of resources:
 - **friends/colleagues**
 - **documentations:** In T_EX-Studio: ctrl+click or cmd+click on package name or enter

`texdoc package`

into your UNIX-console.

- **forums:** countless forums on L^AT_EX-trouble online
- **wikibooks:** <https://en.wikibooks.org/wiki/LaTeX>

Thank you for your attention!

Thank you for your attention!

Do you have any questions or comments?