School of Economic Disciplines
Chair for European Economic Policy

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Crash Course in LaTeX
Hints and Basic Sources

Documentation This course only highlights certain parts of the excellent Wikibook LaTeX, available for free under `http://en.wikibooks.org/wiki/LaTeX`. This Wikibook is far more extensive than what we cover in the crash course and still quite more extensive than anything you will probably need during your studies. Read the book as a lexicon and not as a novel, i.e. jump directly to whatever interests you or what you need—instead of reading it completely from the beginning. More introductions and further reading are compiled at `http://tug.org/interest.html`. The Internet is full of documentation for LaTeX, just use your favourite search engine.

Software In order to use LaTeX you need a so-called distribution, i.e., a collection of LaTeX-related software. You can use TeXLive, available for Windows and Linux at `http://tug.org/texlive/` or MiKTeX (Windows only), available at `http://www.miktex.org/`. The Mac variant of TeXLive is called MacTeX and is available for Mac OS X at `http://tug.org/mactex/`.

This LaTeX software, however, only enables you to "compile" a document written in LaTeX code! Therefore, you further need an editor where you write your paper, that is, where you produce your LaTeX code as a file. You can basically use any text-editor (Notepad, Gedit, Kate, Geany, ...), but there are a lot of great special purpose LaTeX editors available for free, that provide a bundle of services to write LaTeX code much more efficient:

- TeXStudio for Windows, Linux and Mac OS X. (`http://texstudio.sourceforge.net/`)

- TeXnicCenter for Windows. (`http://www.texniccenter.org/`)

- TeXMaker for Windows, Linux and Mac OS X. (`http://www.xm1math.net/texmaker/`)

- WinEdt for Windows. (`http://http://www.winedt.com/`)

- ... *(use your favourite search engine to find more)*

Contents of the course

1. Syntax of the language
   (http://en.wikibooks.org/wiki/LaTeX/Basics#The_LaTeX_syntax)
2. Basic structure of a LaTeX document
   (http://en.wikibooks.org/wiki/LaTeX/Document_Structure)
3. Structuring text – Chapters, sections, etc.
   (http://en.wikibooks.org/wiki/LaTeX/Document_Structure#The_document_environment)
4. Formatting text
   (http://en.wikibooks.org/wiki/LaTeX/Fonts)
5. Footnotes
   (http://en.wikibooks.org/wiki/LaTeX/Footnotes_and_Margin_Notes#Footnotes)
6. Internal references
   (http://en.wikibooks.org/wiki/LaTeX/Labels_and_Cross-referencing#Introduction
   and
   http://en.wikibooks.org/wiki/LaTeX/Labels_and_Cross-referencing#Sections)
7. Lists and enumerations
   (http://en.wikibooks.org/wiki/LaTeX/List_Structures#List_Structures)
8. Graphics
   (http://en.wikibooks.org/wiki/LaTeX/Importing_Graphics#Examples)
9. Tables
   (http://en.wikibooks.org/wiki/LaTeX/Tables#The_tabular_environment
   and
   http://mirrors.ctan.org/macros/latex/contrib/booktabs/booktabs.pdf)
10. Math basics
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