HUMBOLDT-UNIVERSITÄT ZU BERLIN

LATEX for Linguists
L 4 L   10: LATEX distribution & editor

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https://www.linguistik.hu-berlin.de/staff/amyp

MGK Workshop – SFB 1412, Berlin

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Reader

LATEX Reader (Freitag & Machicao y Priemer 2019a):
https://doi.org/10.13140/RG.2.2.29299.27682

Exercises and **Handouts**:
https://www.linguistik.hu-berlin.de/de/staff/amyp/latex

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What you need

In order to use LᴬTᴇX on your system, you need to install **two programs**:

1. a **LᴬTᴇX distribution** (e.g. TᴇX Live or MikTᴇX) – a program that runs LᴬTᴇX on your system. It takes your TᴇX code and produces your output file (PDF).
2. a **LᴬTᴇX editor** (e.g. TᴇX studio) – an interface to make it easier to produce your TᴇX file.

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Installation

Please **install** the following programs **in this order**:

1. LᴬTᴇX distribution:
   MiKTᴇX and TᴇX Live provide versions for Windows, Linux and Mac. Here is our suggestion:
   - for Windows: MiKTᴇX `https://miktex.org`
   - for Linux: TᴇX Live `https://www.tug.org/texlive/`
   - for Mac: MacTᴇX (version of TᴇX Live) `https://www.tug.org/texlive/`

   Install **only one distribution**! If you want to try another one, deinstall your current distribution first.

2. After you have installed the distribution, you can proceed with the **installation of the editor**. Here is our suggestion:
   - for Windows, Mac, or Linux: TᴇXstudio `https://www.texstudio.org`

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Setting up

- Open the file `testfile.tex` with your editor (TEXstudio).
- PDFLATEX is set as the **standard compiler**.
  You have to **change it to XeLATEX** as follows. (See link to manual)
- Go to the **TEXstudio preferences**.
- Go to **Build** and change the **default compiler** to XeLATEX.
- Go to **Build & View** and click on the screw-wrench.
- Delete the commands on the right side.
- Add the following commands from the left side to the right side **in this order**:
  1. XeLATEX
  2. BibTEX
  3. XeLATEX
  4. XeLATEX
  5. Internal PDF Viewer
- Save your changes (clicking on OK).
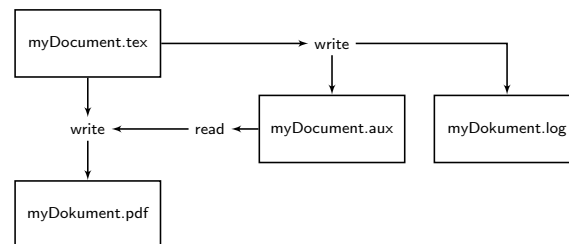
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Compiling

- Now, go back to your document. Click on the **green double arrow** (Build & View button).
- TEXstudio starts the **compiling process** (XeLATEX BibTEX XeLATEX XeLATEX).
- Your TEX distribution is going to **ask** for packages that are **not installed** in your system yet, and it will **download** them.
- After the compilation, your editor will show you the **generated PDF**.
- Your `testfile.pdf` should look like the file `testfile-example.pdf` I am giving you.
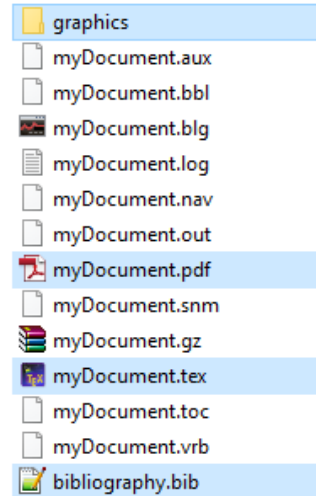
A note on auxiliary files

By compiling your document, LATEX creates further **auxiliary files** to improve the next compilations.

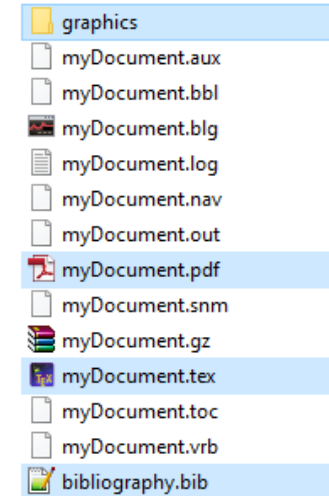- your document: `.tex`
- your output: `.pdf`

The auxiliary files can be **deleted** after your work is done. They will be created again when you compile.

- `.log` → information about the compiling process
- `.bbl` → information for the bibliography
- `.nav` → information for the navigation through slides
- `.toc` → information for the table of contents
- …

graphics
myDocument.aux
myDocument.bbl
myDocument.blg
myDocument.log
myDocument.nav
myDocument.out
myDocument.pdf
myDocument.snm
myDocument.gz
myDocument.tex
myDocument.toc
myDocument.vrb
bibliography.bib

The following files are important and **should not be deleted**. They are not created in the compiling process:

- `.tex` → this is the document you are working on.
- `.pdf` → you can delete your PDF, but this is what you normally want as your result
- `.bib` → this file contains your bibliography data base (if you have one)
- folder `graphics` → here could be your graphics (if you need some)

graphics
myDocument.aux
myDocument.bbl
myDocument.blg
myDocument.log
myDocument.nav
myDocument.out
myDocument.pdf
myDocument.snm
myDocument.gz
myDocument.tex
myDocument.toc
myDocument.vrb
bibliography.bib

Internet sources I

- Link: CTAN – The Comprehensive TᴇX Archive Network.
  http://www.ctan.org/ [Access: 02/01/2019]
- Link: LᴬTᴇX MeMeS for Well Typeset Teens.
  https://www.facebook.com/badness10000/ [Access: 29/07/2018]
- Link: TᴇXstudio Manual (English).
  http://texstudio.sourceforge.net/manual/current/usermanual_en.html [Access: 16/01/2019]
- Software: MiKTeX.
  https://miktex.org/ [Access: 10/01/2019]
- Software: TᴇX Live.
  https://www.tug.org/texlive/ [Access: 10/01/2019]
- Software: TeXstudio
  https://www.texstudio.org/ [Access: 10/01/2019]
- Software: VerbTᴇX – LᴬTᴇX editor for iPhone
  https://itunes.apple.com/us/app/verbtex-latex-editor/id560869163?mt=8 [Access: 18/01/2019]

Literature I

Freitag, Constantin & Antonio Machicao y Priemer. 2019a. LaTeX-Einführung für Linguisten. Manuscript. https://doi.org/10.13140/RG.2.2.29299.27682.

Freitag, Constantin & Antonio Machicao y Priemer. 2019b. LaTeX-Einführung für Linguisten. Manuskript. https://doi.org/10.13140/RG.2.2.29299.27682.

Knuth, Donald E. 1986. *The TeX book*. Boston, MA: Addison-Wesley.

Kopka, Helmut. 1994. *LaTeX: Einführung*, vol. 1. Bonn: Addison-Wesley.

Machicao y Priemer, Antonio & Elisabeth Eberle. 2019. LaTeX for Linguists – Slides. Workshop for PhD candidates given at the PhD day of the Department of German Studies and Linguistics – Humboldt-Universität zu Berlin – 09. Oktober 2019.

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