HUMBOLDT-UNIVERSITÄT ZU BERLIN

LaTeX for Linguists

LaTeX 10: LaTeX distribution & editor

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Contents

What you need

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

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

Installation

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

1. LaTeX distribution:
   MiKTeX and TeX Live provide versions for Windows, Linux and Mac.
   Here is our suggestion:
   - for Windows: MiKTeX `https://miktex.org`
   - for Linux: TeX Live `https://www.tug.org/texlive/`
   - for Mac: MacTeX (version of TeX Live) `https://www.tug.org/texlive/`

   Install **only one distribution**! If you want to try the other one, deinstall the other 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: TeXstudio `https://www.texstudio.org`

Setting up

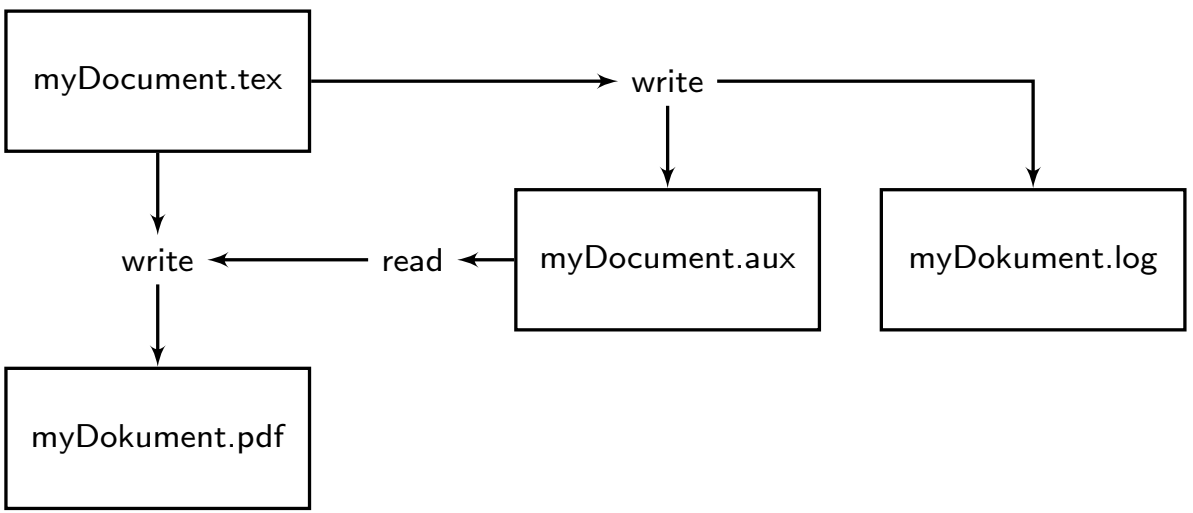
- Open the file `testfile.tex` with your editor (TeXstudio).
- PDFLaTeX is set as the **standard compiler**.
  You have to **change it to XeLaTeX** as follows. (See link to manual)
- Go to the **TeXstudio preferences**.
- Go to **Build** and change the **default compiler** to XeLaTeX.
- Go to **Build & 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).

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

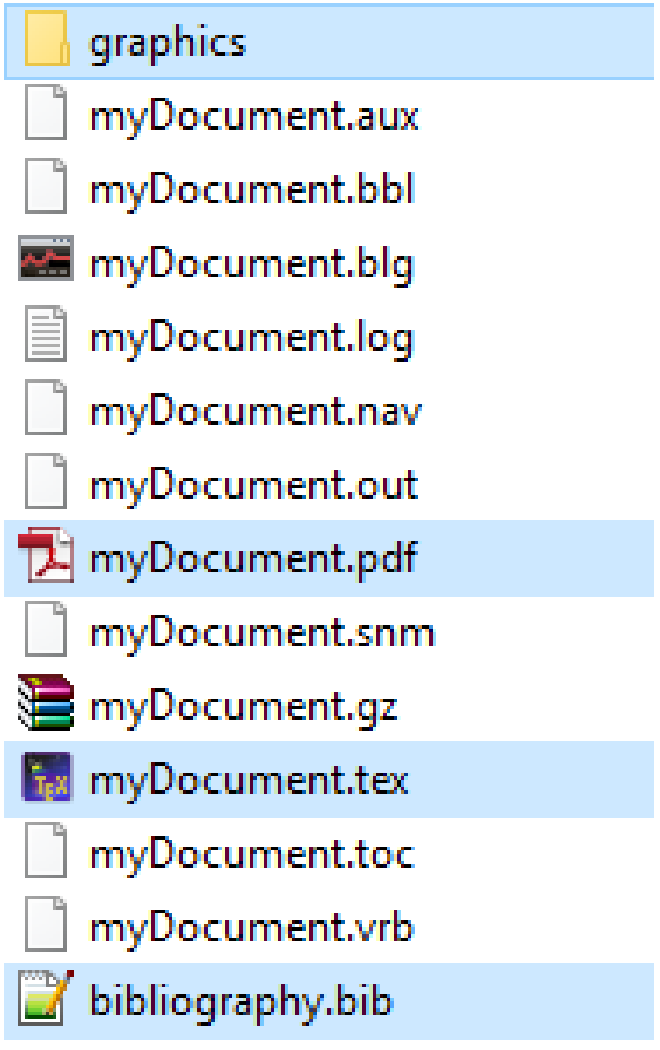
By compiling your document, LaTeX creates further **auxiliary files** to improve the next compilations.



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

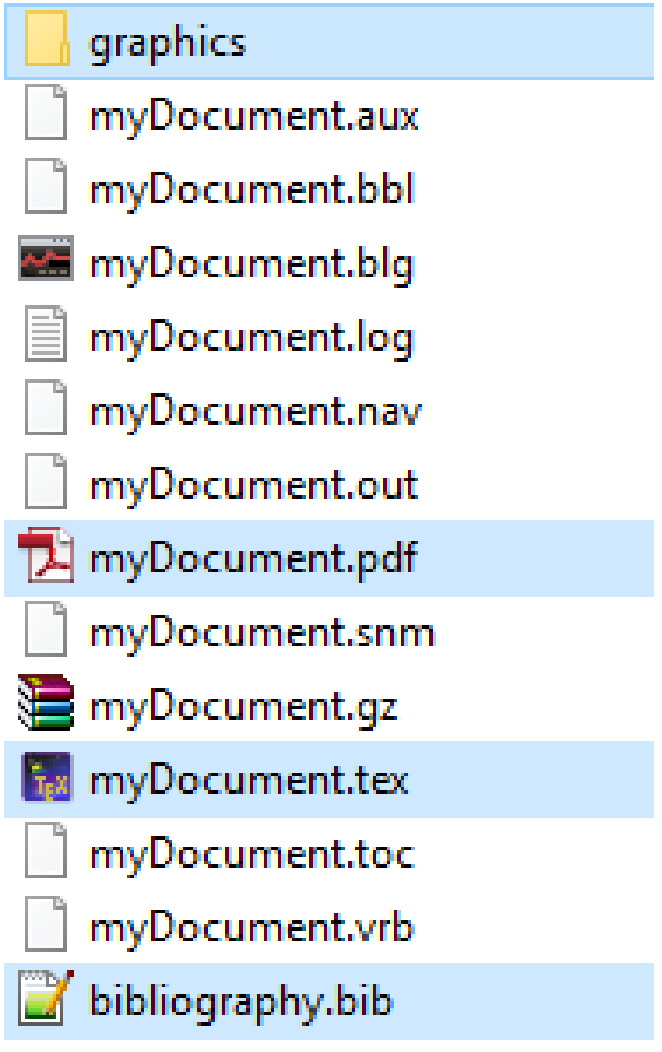
The auxiliary files can be **deleted** after your work is done. They will be created again when you compile.

- `.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
- ...



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)



Internet sources I

- Link: CTAN – The Comprehensive TeX Archive Network.
  `http://www.ctan.org/` [Access: 02/01/2019]
- Link: LaTeX MeMeS for Well Typeset Teens.
  `https://www.facebook.com/badness10000/` [Access: 29/07/2018]
- Link: TeXstudio 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: TeX Live.
  `https://www.tug.org/texlive/` [Access: 10/01/2019]
- Software: `TeXstudio`
  `https://www.texstudio.org/` [Access: 10/01/2019]
- Software: VerbTeX – LaTeX 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. 2015. LaTeX-Einführung für Linguisten. Manuscript. https://www.linguistik.hu-berlin.de/de/staff/amyp/latex-einfuehrung.

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

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