

Introductory Course in L^AT_EX

Syllabus - Spring 2019

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Objective of the Course

L^AT_EX is a famous text editor mostly used in academics to write any documents, such as dissertations, papers, or CV, as well as to present slides. This course is intended to provide the basic knowledge of the most important commands of L^AT_EX. At the end of this course, students will be able to use L^AT_EX to write a full document – including tables, figures, and bibliography - and presentation.

Installing L^AT_EX

In order to use L^AT_EX you will need some *softwares* installed on your computer. Of course, you are free to use the one you prefer. Here you can find some recommended softwares.

Mac

Download TEXshop following the instructions on <http://pages.uoregon.edu/koch/texshop/> or MacTeX on <http://www.tug.org/mactex/>;

Windows

Download MiKTeX following the instructions on <http://www.miktex.org/>;

Linux

You might have already installed L^AT_EX on your system. If not, use your package manager to install the following packages: 1) **texlive** – the base T_EX/L^AT_EXsetup; 2) **emacs** (with AUCTeX) – an editor that integrates tightly with L^AT_EX through the add-on AUCTeX package; 3) **ghostscript** – a PostScript preview program; **xpdf** and **acrobat** – a PDF preview program; 4) **imagemagick** – a free program for converting bitmap images; 5) **gimp** – a free Photoshop look-a-like; 6) **inkscape** – a free illustrator/corel draw look-a-like.

Topics

1. What is L^AT_EX?
2. How to write with L^AT_EX: introduction to basic tool, documentclass, usepackages, environments;
3. How to write math with L^AT_EX;

4. How to insert Figures and Tables with L^AT_EX;
5. Writing a Dissertation: Layout of the first page; Bibliography; List of content, figures and tables;
6. How to write a presentation with L^AT_EX: Beamer.

References

Tobias Oetiker (1995), "The Not So Short Introduction to L^AT_EX" downloadable at:
<https://tobi.oetiker.ch/lshort/lshort.pdf>
This is just a suggestion, any useful available source is accepted.