

ENVIRONNEMENT NUMÉRIQUE



LATEX FOR BEGINNERS DIGITAL ENVIRONMENT • WORKSHOP

Code: A-LateXBeg

Duration: 5 half-days (3hr30), 2 sessions/year, 20 places/session

Public: all doctoral candidates

Lecturer: Jean Hare, jean.hare@lkb.ens.fr

Requisite: none

Objectives

Initiation au programme de composition de document LaTeX

Initiation to LaTeX for beginners

The course/workshop will be held in English in case of non-French speaking attendees

Contents

3 sessions dealing with the basics of LaTeX

- Introduction to TeX and LaTeX
 - General discussion about TeX and LaTeX processing
 - Typesetting vs word-processing — WYSIWYM vs WYSIWIG
 - Files names and TDS structure, Motors and Advantages of pdflatex
 - Simple macro definitions
- LaTeX document structure:
 - Classes of LaTeX2e, essential packages: for fonts and language
 - Formatting text and Environments
 - Sectioning commands
 - Document layout, page layout, headers and footers
 - Cross-references

- *Controlling text, spaces, breaking lines and pages, and boxes...*
- *Basic math typesetting in LaTeX*
- *Basics on bibliography with BibTeX*
- *Graphics in LaTeX:*
 - *Embedding graphics (EPS, PNG, JPEG, PDF)*
 - *Programing graphics (short Introduction to PGF/TikZ, PGFPlots...)*
 - *Floats and Captions*
- *Hyperref: URLs, Bookmarks and Hyperlinks*
- *Simple customization of sectioning commands*

2 optional sessions more focused on specific topics

- *1-More on mathematic formatting:*
 - *Maths fonts, symbols and spacing; amsmath package for advanced typesetting*
- *2-More on bibliography*
 - *Author-year: multiple bibliographies(with BibTeX and with BibLaTeX)*

Method

Presentation and practical exercises

Doctoral candidates must have their SU login/password or, failing that, bring a laptop with LaTeX already installed or a flash drive in the FAT32 format