

L A T E X Fundamentals

The Very Basics

L
A
T
E
X
– short for Lamport-
T
E
X
, originated from Leslie Lamport – is the approach to create a more user-friendly and modern way to interact with the typesetting program
T
E
X
of Donald Knuth (abr. for Τέχνη, *art*). The key ideas of
L
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T
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X
to take away are:

- Differentiate between the *content* and the *layout*: The former is written in a plain text editor of choice and is then *given* to the professional typesetter
T
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X
.
- Forget your MS Word habits:
L
A
T
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X
is capable of everything but the more you force it into special solutions, the more pitfalls will arise!

Configurations

Configurations Usually blank line, in special environments (e.g. tables)
\\...

Installation	
Linux	apt-get install texlive-full
MacOS	See goo.gl/UMzDfV
Windows	See goo.gl/Z19eiz

Bare Minimum
<pre> \documentclass[options]{<class> % Configurations go here \begin{document} % Document goes here \end{document} </pre>

Minimum Working Example
<pre> \documentclass[paper=a4]{scrartcl} \begin{document} Hello World! \end{document} </pre>
Compilation: pdflatex yourdocument.tex

Classes	
scrartcl	Small documents, short articles/reports
scrreprt	Longer reports, seminar papers, smaller theses
scrbook	Long works like books or dissertations
scrllttr2	Letters

Important Options	
paper	a4, a5, letter, ...
BCOR	8.25 mm, 10 pt, ... Reserved space (binding correction) on inner margins.
DIV	calc, classic, 8, 9, ... Number of segments the page is divided in (below).
fontsize	8pt, 9pt, 10pt, ...
twoside	true, false

type area (DIV=9)									
1	2	3	4	5	6	7	8	9	9
2									
3									
4									
5									
6									
7									
8									
9									

page layout left

binding correction (BCOR)