

L^AT_EX 2_ε Cheat Sheet

Document classes

<code>book</code>	Default is two-sided.
<code>report</code>	No <code>\part</code> divisions.
<code>article</code>	No <code>\part</code> or <code>\chapter</code> divisions.
<code>letter</code>	Letter (?).
<code>slides</code>	Large sans-serif font.

Used at the very beginning of a document:

`\documentclass{class}`. Use `\begin{document}` to start contents and `\end{document}` to end the document.

Common documentclass options

<code>10pt/11pt/12pt</code>	Font size.
<code>letterpaper/a4paper</code>	Paper size.
<code>twocolumn</code>	Use two columns.
<code>twoside</code>	Set margins for two-sided.
<code>landscape</code>	Landscape orientation. Must use <code>dvips -t landscape</code> .
<code>draft</code>	Double-space lines.
Usage: <code>\documentclass[<i>opt, opt</i>]{class}</code> .	

Packages

`fullpage` Use 1 inch margins.
`anysize` Set margins with `\marginwidth{l}{r}{t}{b}`.
`multicol` Use n columns with `\begin{multicols}{n}`.
`latexsym` Use L^AT_EX symbol font.
Use before `\begin{document}`. Usage: `\usepackage{package}`

Title

`\author{text}` Author of document.
`\title{text}` Title of document.
`\date{text}` Date.
These commands go before `\begin{document}`. The declaration `\maketitle` goes at the top of the document.

Miscellaneous

`\pagestyle{empty}` Empty header, footer and no page numbers.

Document structure

<code>\part{title}</code>	<code>\subsubsection{title}</code>
<code>\chapter{title}</code>	<code>\paragraph{title}</code>
<code>\section{title}</code>	<code>\subparagraph{title}</code>
<code>\subsection{title}</code>	

Section commands can be followed with an $*$, like `\section*{title}`, to suppress heading numbers.
`\setcounter{secnumdepth}{x}` suppresses heading numbers of depth $> x$, where `chapter` has depth 0.

Text environments

`\begin{comment}` Comment block (not printed).
`\begin{quote}` Indented quotation block.
`\begin{quotation}` Like `quote` with indented paragraphs.
`\begin{verse}` Quotation block for verse.

Lists

<code>\begin{enumerate}</code>	Numbered list.
<code>\begin{itemize}</code>	Bulleted list.
<code>\begin{description}</code>	Description list.
<code>\item text</code>	Add an item.
<code>\item[x] text</code>	Use x instead of normal bullet or number. Required for descriptions.

References

<code>\label{marker}</code>	Set a marker for cross-reference, often of the form <code>\label{sec:item}</code> .
<code>\ref{marker}</code>	Give section/body number of marker.
<code>\pageref{marker}</code>	Give page number of marker.
<code>\footnote{text}</code>	Print footnote at bottom of page.

Floating bodies

<code>\begin{table}[place]</code>	Add numbered table.
<code>\begin{figure}[place]</code>	Add numbered figure.
<code>\begin{equation}[place]</code>	Add numbered equation.
<code>\caption{text}</code>	Caption for the body.

The *place* is a list valid placements for the body. `t`=top, `b`=bottom, `p`=separate page, `!`=place even if ugly.
Captions and label markers should be within the environment.

Text properties

Font face

Command	Declaration	Effect
<code>\textrm{text}</code>	<code>\rm text</code>	Roman family
<code>\textsf{text}</code>	<code>\sf text</code>	Sans serif family
<code>\texttt{text}</code>	<code>\tt text</code>	Typewriter family
<code>\textmd{text}</code>	<code>\md text</code>	Medium series
<code>\textbf{text}</code>	<code>\bf text</code>	Bold series
<code>\textup{text}</code>	<code>\up text</code>	Upright shape
<code>\textit{text}</code>	<code>\it text</code>	<i>Italic shape</i>
<code>\textsl{text}</code>	<code>\sl text</code>	<i>Slanted shape</i>
<code>\textsc{text}</code>	<code>\sc text</code>	SMALL CAPS SHAPE
<code>\emph{text}</code>	<code>\em text</code>	<i>Emphasized</i>
<code>\textnormal{text}</code>	<code>\normalfont text</code>	Document font
<code>\underline{text}</code>		<u>Underline</u>

The command (`ttt`) form handles spacing better than the declaration (`ttt`) form.

Font size

<code>\tiny</code>	<small>tiny</small>	<code>\Large</code>	Large
<code>\scriptsize</code>	<small>scriptsize</small>	<code>\LARGE</code>	LARGE
<code>\footnotesize</code>	<small>footnotesize</small>	<code>\huge</code>	huge
<code>\small</code>	<small>small</small>	<code>\Huge</code>	Huge
<code>\normalsize</code>	<small>normalsize</small>		
<code>\large</code>	<small>large</small>		

These are declarations and should be used in the form `\small ...` or without braces to affect the entire document.

Verbatim text

<code>\begin{verbatim}</code>	Verbatim environment.
<code>\begin{verbatim*}</code>	Spaces are shown as <code>␣</code> .
<code>\verb!text!</code>	Text between the delimiting characters (in this case <code>!</code>) is verbatim.

Justification

Environment	Declaration
<code>\begin{center}</code>	<code>\centering</code>
<code>\begin{flushleft}</code>	<code>\raggedright</code>
<code>\begin{flushright}</code>	<code>\raggedleft</code>

Miscellaneous

`\linespread{x}` changes the line spacing by the multiplier x .

Text-mode symbols

Symbols

<code>&</code>	<code>\&</code>	<code>-</code>	<code>_</code>	<code>...</code>	<code>\ldots</code>	<code>•</code>	<code>\textbullet</code>
<code>\$</code>	<code>\\$</code>	<code>^</code>	<code>\^{}{}</code>	<code> </code>	<code>\textbar</code>	<code>\</code>	<code>\textbackslash</code>
<code>%</code>	<code>\%</code>	<code>~</code>	<code>\~{}{}</code>	<code>#</code>	<code>\#</code>	<code> </code>	<code>\textbar</code>

Accents

<code>ò \‘o</code>	<code>ó \’o</code>	<code>ô \^o</code>	<code>õ \~o</code>	<code>ō \=o</code>
<code>ó \.o</code>	<code>ö \\"o</code>	<code>q \c o</code>	<code>ô \v o</code>	<code>ő \H o</code>
<code>ç \c c</code>	<code>q \d o</code>	<code>q \b o</code>	<code>ö \t oo</code>	<code>œ \oe</code>
<code>Æ \OE</code>	<code>æ \ae</code>	<code>Æ \AE</code>	<code>ä \aa</code>	<code>Å \AA</code>
<code>ø \o</code>	<code>Ø \O</code>	<code>ı \l</code>	<code>Ł \L</code>	<code>ı \i</code>
<code>ı \j</code>	<code>ı \j</code>	<code>ı \j</code>	<code>ı \j</code>	<code>ı \j</code>

Delimiters

<code>‘ ‘ ‘ ‘</code>	<code>{ \{</code>	<code>[[((</code>	<code>< \textless</code>
<code>, , , ,</code>	<code>} \}</code>	<code>]]))</code>	<code>> \textgreater</code>

Dashes

Name	Source	Example	Usage
<code>hyphen</code>	<code>-</code>	X-ray	In words.
<code>en-dash</code>	<code>--</code>	1–5	Between numbers.
<code>em-dash</code>	<code>---</code>	Yes—or no?	Punctuation.

Line and page breaks

<code>\\</code>	Begin new line without new paragraph.
<code>*</code>	Prohibit pagebreak after linebreak.
<code>\kill</code>	Don't print current line.
<code>\pagebreak</code>	Start new page.
<code>\noindent</code>	Do not indent current line.

Miscellaneous

<code>\today</code>	May 11, 2002.
<code>\sim\$</code>	Prints <code>~</code> instead of <code>\~{}{}</code> , which makes <code>~</code> .
<code>~</code>	Space, disallow linebreak (W.J.~Clinton).
<code>\@.</code>	Indicate that the <code>.</code> ends a sentence when following an uppercase letter.
<code>\hspace{l}</code>	Horizontal space of length l (Ex: $l = 20\text{pt}$).
<code>\vspace{l}</code>	Vertical space of length l .
<code>\rule{w}{h}</code>	Line of width w and height h .