

L^AT_EX 2_ε Cheat Sheet

Mathematics

Delimiters

`\lvert`, `\rvert`, `\vert`
`\lVert`, `\rVert`, `\Vert`
`\{`, `\}`, `\lbrace`, `\rbrace`

Extensors: `\left`, `\right`, `\big`, `\Big`, `\bigg`, `\Bigg`.

Frequently used symbols

`\cdots` `\ldots` `\ddots` `\vdots`
`\leq` `\geq` `\neq` `\approx`
`\partial` `\partial` `\sim` `\sim`

Other symbols

`\times` `\div` `\pm` `\cdot` `\cdot`
`\circ` `\circ` `\prime` `\prime`
`\infty` `\neg` `\wedge` `\vee` `\vee`
`\supset` `\forall` `\forall` `\rightarrow` `\rightarrow`
`\subset` `\exists` `\exists` `\Rightarrow` `\Rightarrow`
`\cup` `\cap` `\mid` `\Leftrightarrow` `\Leftrightarrow`
`\dot{a}` `\hat{a}` `\bar{a}` `\tilde{a}` `\tilde{a}`

Greek characters

`\alpha` `\eta` `\nu` `\tau` `\tau`
`\beta` `\theta` `\xi` `\upsilon` `\upsilon`
`\gamma` `\iota` `\phi` `\phi` `\phi`
`\delta` `\kappa` `\pi` `\chi` `\chi`
`\epsilon` `\lambda` `\rho` `\psi` `\psi`
`\zeta` `\mu` `\sigma` `\omega` `\omega`

Other maths constructs

`\begin{matrix} 0 & 1 \\ 2 & 3 \end{matrix}` `\mat{0&1\\2&3}`
`\begin{matrix} 0 & 1 \\ 2 & 3 \end{matrix}` `\matc{0&1\\2&3}`
`\sum_{i=1}^n` `\sum_{i=1}^n`
`\sum_{i=1}^n` `\sum_{i=1}^n`

Formatting

Text environments

`\begin{comment}` Comment block (not printed).
`\marginpar{comment}` Comments on margin.

Lists

`\begin{itemize}` Bulleted list.
`\begin{compactitem}` Bulleted list (compact).
`\begin{enumerate}` Numbered list.
`\begin{compactenum}` Numbered list (compact).
`\begin{description}` Bold word heading.
`\begin{compactdesc}` Bold word heading (compact).
`\item[x] text` Use *x* instead. Also required for descriptions. [i] can be used with enum to generate roman chars.

References

`\ref{marker}` Reference marker.
`\eqref{marker}` Reference marker parenthesized.
`\pageref{marker}` Give page number of marker.

Fonts

`\textrm`, `\rmfamily` Normal (roman) incl. math
`\textit`, `\itshape` *Italicized* - italic
`\emph`, `\em` *Italicized* - emph
`\textsl`, `\slshape` *Italicized* - slanted
`\textsf`, `\sffamily` Normal (serif) incl. math
`\textbf`, `\bfseries` **Bold with textbf.**
`\mathbf` **Bold with mathbf** - math only
`\bm` ***Bold with bm*** - math only
`\mathcal` ***R*** - math mode (incl. `\bm`)
`\mathbb` ***R*** - math mode

Font size

`\tiny` `\scriptsize` `\footnotesize` `\small` `\normalsize` `\large`
`\Large` `\huge` `\Huge`

Verbatim text

`\shortvrb` package to import
`\MakeShortVerb{}` preamble command
`|text|` using it in text

Justification

`\begin{center}` `\centering`
`\begin{flushleft}` `\raggedright`
`\begin{flushright}` `\raggedleft`

Miscellaneous

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

Text-mode symbols

Symbols

`&` `\&` `-` `\_` `\ldots` `\bullet`
`$` `\$` `^` `\^{}{}` `|` `\textbar` `\` `\textbackslash`
`%` `\%` `~` `\~{}{}` `#` `\#` `§` `\S`

Accents

`\grave{o}` `\acute{o}` `\circ` `\tilde{o}` `\bar{o}`
`\grave{o}` `\acute{o}` `\circ` `\tilde{o}` `\bar{o}`
`\grave{o}` `\acute{o}` `\circ` `\tilde{o}` `\bar{o}`
`\grave{o}` `\acute{o}` `\circ` `\tilde{o}` `\bar{o}`
`\grave{o}` `\acute{o}` `\circ` `\tilde{o}` `\bar{o}`

Delimiters

`'` `"` `‘` `’` `{` `}` `[` `]` `(` `)` `<` `>`
`'` `"` `‘` `’` `{` `}` `[` `]` `(` `)` `<` `>`

Dashes

`hyphen` `-` `X-ray` `In words.`
`en-dash` `--` `1–5` `Between numbers.`
`em-dash` `---` `Yes—or no?` `Punctuation.`

Tabular environments

tabular environment

Remember to load the `array` package if using tables
`\begin{tabular}[pos]{cols}`
`\begin{tabular*}[width][pos]{cols}`

tabular column specification

`l` Left-justified column.
`c` Centered column.
`r` Right-justified column.
`p{width}` Same as `\parbox[t]{width}`.
`@{decl}` Insert *decl* instead of inter-column space.
`|` Inserts a vertical line between columns.

tabular elements

`\hline` Horizontal line between rows.
`\cline{x-y}` Horizontal line across columns *x* through *y*.
`\multicolumn{n}{cols}{text}` A cell that spans *n* columns, with *cols* column specification.

Citation formatting

`\cite{}` *Author–number* *Author–date*
`\citep{}` [23] (Zhu et al., 2007)
`\citet{}` Zhu et al. [23] Zhu et al. (2007)
`\citeauthor{}` Zhu et al. Zhu et al.
`\citeauthor*{}` Zhu, Ka, and Ko Zhu, Ka, and Ko
`\citeyear{}` 2007 2007

Use `\usepackage[numbers]{natbib}` for *Author–number*, and `\usepackage{natbib}` for *Author–date*.

Sample L^AT_EX document

`\documentclass[11pt]{article}\usepackage{fullpage}`
`\title{Template}\author{Name}\begin{document}`
`\maketitle\section{section}\subsection*{w/o number}`
Text `\textbf{bold text}`, math `\$2+2=5\$` `\end{document}`

Capitalisation of titles

Do not capitalise iff:

- articles a, an, the
 - infinitive to
 - proposition/conjunction of <5 letters to, and, from, when, for
 - 2nd word in hyphenation "Make-up"
- Exceptions:**
- neither of them Is, About, Under, Only, Up
 - last/first word "For the Method"
 - after <;>or <:> "Truth: A Theory"
 - after the letter or "From Him or For Us"
 - 2nd word in hyphenated word (only if it's a noun) "Looking-Glass"