LaTeX One Page Cheatsheet

Document structure

Lists

`\begin{enumerate}`	Numbered list.
`\begin{itemize}`	Bulleted list.
`\begin{description}`	Description list.
`\item` *text*	Add an item.

Floating bodies

`\begin{table}[`*place*`]`	Add numbered table.
`\begin{figure}[`*place*`]`	Add numbered figure.
`\begin{equation}[`*place*`]`	Add numbered equation.
`\caption{`*text*`}`	Caption for the body.

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

Spacing

`\hspace{`l`}`	Horizontal space of length l (Ex: $l =$ `20pt`).
`\vspace{`l`}`	Vertical space of length l.
`\rule{`w`}{`h`}`	Line of width w and height h.

Text properties

Font face

Command	*Declaration*	*Effect*
`\textrm{`*text*`}`	`{\rmfamily` *text*`}`	Roman family
`\textsf{`*text*`}`	`{\sffamily` *text*`}`	Sans serif family
`\texttt{`*text*`}`	`{\ttfamily` *text*`}`	`Typewriter family`
`\textbf{`*text*`}`	`{\bfseries` *text*`}`	**Bold series**
`\textit{`*text*`}`	`{\itshape` *text*`}`	*Italic shape*
`\textsl{`*text*`}`	`{\slshape` *text*`}`	*Slanted shape*
`\textsc{`*text*`}`	`{\scshape` *text*`}`	Small Caps shape
`\textnormal{`*text*`}`	`{\normalfont` *text*`}`	Normal font
`\underline{`*text*`}`		Underline

Font size

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

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

Verbatim text

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

Justification

Environment	*Declaration*
`\begin{center}`	`\centering`
`\begin{flushleft}`	`\raggedright`
`\begin{flushright}`	`\raggedleft`

Tabular environments

`\begin{array}[`*pos*`]{`*cols*`}`
`\begin{tabular}[`*pos*`]{`*cols*`}`
`\begin{tabular*}{`*width*`}[`*pos*`]{`*cols*`}`

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.

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.

Math mode

For inline math, use `\(...\)` or `$...$`. For displayed math, use `\[...\]` or `\begin{equation}`.

Superscript $x^{}$	`^{x}`	Subscript $x_{}$	`_{x}`	$\frac{x}{y}$	`\frac{x}{y}`
$\sum_{k=1}^{n}$	`\sum_{k=1}^n`	$\sqrt[n]{x}$	`\sqrt[n]{x}`	$\prod_{k=1}^{n}$	`\prod_{k=1}^n`
$\int_{a}^{b}$	`\int_{a}^{b}`	$\oint_{a}^{b}$	`\oint_{a}^{b}`	$\lim_{x \to \infty}$	`\lim_{x\to\infty}`
$\sqrt{x}$	`\sqrt{x}`	$\overline{abc}$	`\overline{abc}`	$\lceil x \rceil$	`\lceil x \rceil`

symbols

$\leq$ `\leq`	$\geq$ `\geq`	$\neq$ `\neq`	$\approx$ `\approx`	$\times$ `\times`
$\div$ `\div`	$\pm$ `\pm`	$\cdot$ `\cdot`	$^\circ$ `^{\circ}`	$\circ$ `\circ`
$\prime$ `\prime`	$\cdots$ `\cdots`	∞ `\infty`	$\neg$ `\neg`	$\wedge$ `\wedge`
$\vee$ `\vee`	$\supset$ `\supset`	$\forall$ `\forall`	$\in$ `\in`	$\rightarrow$ `\rightarrow`
$\subset$ `\subset`	$\exists$ `\exists`	$\notin$ `\notin`	$\Rightarrow$ `\Rightarrow`	$\cup$ `\cup`
$\cap$ `\cap`	$\mid$ `\mid`	$\Leftrightarrow$ `\Leftrightarrow`	$\dot{a}$ `\dot a`	$\hat{a}$ `\hat a`
$\bar{a}$ `\bar a`	$\tilde{a}$ `\tilde a`	α `\alpha`	β `\beta`	γ `\gamma`
δ `\delta`	ϵ `\epsilon`	ζ `\zeta`	η `\eta`	ε `\varepsilon`
θ `\theta`	ι `\iota`	κ `\kappa`	ϑ `\vartheta`	λ `\lambda`
μ `\mu`	ν `\nu`	ξ `\xi`	π `\pi`	ρ `\rho`
σ `\sigma`	τ `\tau`	υ `\upsilon`	ϕ `\phi`	χ `\chi`
ψ `\psi`	ω `\omega`	Γ `\Gamma`	Δ `\Delta`	Θ `\Theta`
Λ `\Lambda`	Ξ `\Xi`	Π `\Pi`	Σ `\Sigma`	Υ `\Upsilon`
Φ `\Phi`	Ψ `\Psi`	Ω `\Omega`	$\mapsto$ `\mapsto`	$\Re$ `\Re`