

Commands in preamble

<code>\documentclass</code>	Style rules in your file.
<code>\documentclass[<i>opt,opt</i>]{<i>class</i>}</code>	Class: extra details go into [] and class inside {}.
10,11,12pt	Font size.
letterpaper, a4paper	Example paper size.
portrait, landscape	Page orientation.
book, report, article, letter	Most common classes.

Packages

Example packages:

<code>\usepackage{multicol}</code>	Use multiple (x) columns: <code>\begin{multicols}{x}</code> .
<code>\usepackage{latexsym}</code>	Use L ^A T _E X symbol font.
<code>\usepackage{setspace}</code>	Set spacing of your text.
<code>\onehalfspace</code>	Add this command under the set space package to set your spacing to 1.5.
<code>\usepackage[utf8]{inputenc}</code>	Get font encodings.
<code>\usepackage[french]{babel}</code>	Set language in [].

Insert packages before `\begin{document}`.

Title & abstract

<code>\author{name}</code>	Author.
<code>\title{title}</code>	Title.
<code>\date{date}</code>	Date.
<code>\abstract{abstract content}</code>	Abstract.

Header, footer, table of contents

<code>\pagestyle{empty}</code>	Empty header, footer and no page numbers.
<code>\pagestyle{plain}</code>	Default style with empty header and the footer with page numbers.
<code>\pagestyle{myheadings}</code>	Empty footer, the header with page number on right side on even pages and on left side on odd pages
<code>\tableofcontents</code>	Table of contents.

Simple tables

To get the following table:

A	B	C
D	E	F

<code>\begin{center}</code>	Begin centering your table and its content.
<code>\begin{tabular}{ c c c }</code>	Set up columns (c) and table edges between them.
<code>\hline</code>	Get a line over your first table row.
A & B & C \\\	Data used to fill in every cell in your first table row.
<code>\hline</code>	Get a line under your first table row.
D & E & F \\\	Data used to fill in every cell in your second table row.
<code>\hline</code>	Get a line under your second table row.
<code>\end{tabular}</code>	Enter this command to finish your table.
<code>\end{center}</code>	Enter this command to finish having a centered table.

Mathematical expressions

Place equation between dollar signs (\$) or

```
\begin{equation}
a=b+c-d
\end{equation}
to get
```

$$a = b + c - d \quad (1)$$

Images

To insert image:

```
\begin{figure}[ht]
\includegraphics[width=.5in]{imagename.jpg}
\caption{The (optional) caption goes here.}
\end{figure}
Omit [width=.5in] if you want the image to be full-sized.
```

Text formatting

Text decorations

Your text can be *italics* (`\textit{italics}`), **boldface** (`\textbf{boldface}`), underlined (`\underline{underlined}`).

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>		

Justification

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

Comments

Put % before your text to make it a comment.

Lists

<i>list type</i>	<i>command</i>	<i>result</i>
	<code>\begin{itemize}</code>	
	<code>\item</code>	
unordered list	Thing 1	• Thing 1
	<code>\item</code>	• Thing 2
	Thing 2	
	<code>\end{itemize}</code>	
	<code>\begin{enumerate}</code>	
	<code>\item</code>	
ordered list	Thing 1	1. Thing 1
	<code>\item</code>	2. Thing 2
	Thing 2	
	<code>\end{enumerate}</code>	

Acknowledgements

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