
TeX cheatsheet

Pavel Hrdina , July 5, 2023

1 Text formatting

1.1 Italics

```
\emph      abc
\textit    abc
\itshape   abc
```

1.2 Bolds

```
\textbf    abc
\bfseries  abc
```

1.3 Families

```
\textrm   roman family
\textsf   sans serif
\texttt   typewriter
```

1.4 Sizing

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

2 Fonts

`\setmainfont` Uses main font
`\setsansfont` Uses sans-type font
`\setmonofont` Uses monospaced font

3 Spacing

<code>\vspace</code>	creates vertical space
<code>\hspace</code>	creates horizontal space
<code>\vfill</code>	infinitely vertical space
<code>\hfill</code>	infinitely horizontal space
<code>\dotfill</code>	dotted space
<code>\hrulefill</code>	a line
<code>\rule{width}{thickness}</code>	a line
<code>\\[10pt]</code>	custom spacing between paragraphs
<code>\vfill\ejct</code>	fills up and ends current column

4 Tables


`\multicolumn{2}{c}{X}` creates centered multicolumn (2)
`\multirow{2}{*}{X}` creates multirow (2)
`\cline{1-2}` partial horizontal line

5 Boxes

5.1 tcolorbox

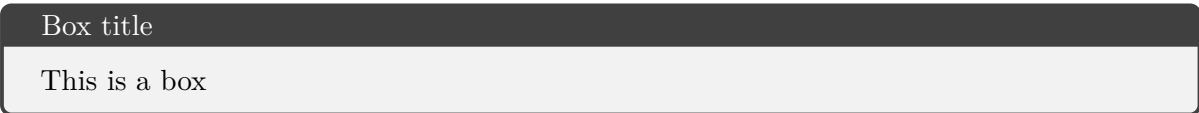
```
\usepackage{tcolorbox}
```

```
\begin{tcolorbox}
  This is a box
\end{tcolorbox}
```




This is a box

```
\begin{tcolorbox}[title=Box title]
  This is a box
\end{tcolorbox}
```



Box title
This is a box

```
\begin{tcolorbox}[title=Box title,colback=red!10!white,colframe=red!75!black]
  This is a box
\end{tcolorbox}
```



Box title
This is a box

5.2 makebox

```
\makebox[width] [position] {text}
```

A box floated to left.

A

spread

A box floated to right.

box.

5.3 mbox

```
\mbox{text}
```

Lorem ipsum dolor sit amet

5.4 framebox

```
\framebox[width] [position]{text}
```

A box floated to left.

A box floated to right.

A spread box.

5.5 fbox

```
\fbox{text}
```

Lorem ipsum dolor sit amet

6 Packages

microtype	better text alignment
graphicx	all about images
blindtext	lorem ipsum
wrapfig	image floating
fancyhdr	custom page foot/headers
enumitem	better lists
parlists	better lists
index	table of contents
hyperref	hyperlinks
tcolorbox	boxes like <i>warning</i>
booktabs	better tables
titlesec	modifies section titles
titling	modifies <code>\maketitle</code>
geometry	modifies page layout
tablearray	new package for tables

7 Info sources

- <https://ctan.org/> - package documentation
- <https://tug.org/FontCatalogue/> - font repository
- <https://texfaq.org/> - latex FAQ
- IRC Librera server channel `#latex`

8 Resources

- <https://www.latextemplates.com/> - templates for all kinds of documents