LooChao Emacs Cheat Sheet

Keyboard Shortcuts

M-f1:	search in firefox.
M-f2:	search in w3m.
g:	google.
g:	google symbol at point.

C -:	zoom out.
C =:	zoom in.

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f1 f1:	start shell inside emacs.
f1 f2:	start terminal. (mac)
f2 f2:	go to last change
f3 f3:	w3m browse url.
f3 f2:	switch to existing w3m.
f4 f4:	open finder. (mac)
f5 f5:	bmk list.
f6 f6:	bm toggle.
f7 f6:	dict search (dict.el).
f7 f7:	dict search symbol (w3m icba).
f9 f9:	hl symbol
f10 f10:	
f11 f11:	
f12 f12:	emms playlist

M-1:	start shell inside emacs.
M-g:	goto char.
M-k M-k:	kill this buffer.

M-z:	zap to char.
M-z e:	deletes all characters to the next 'e'.
C-u 2 M-z e:	deletes all character to the second 'e'.
C-- M-z e:	deletes all characters to the previous 'e'

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f5-f5:	bmk list.
C-f5:	jump to bmk.
S-f5:	set bmk.

C-f11:	menu bar toggle.
S-f11:	toolbar toggle.
M-f11:	line num toggle.
C-M-f11:	tabbar toggle.
C-S-f11:	ruler toggle.

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f2 s:	spell-mode toggle.

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f11 c:	lang env gb18030.
f11 u:	lang env utf8.

C-x f:	find file at point.
C-x C-f:	open file.
C-c f:	run find in dir.
C-x g:	goto char.
C-c g:	run grep in dir.

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w3m-mode

d:	kill curren page.
hjkl:	vim traditional move.
H:	history.
we:	history back/forward.
[]:	history back/forward.
np:	next/prev buffer.

Modes

artist-mode	.
rainbow-mode	.
whitespace-mode	.
el-doc	display help for elisp func.

M-x

list-colors-display	list colors.
re-builder	helper to build reg exp.
describe-text-properties	Find which faces are used at point.

Elegant Colors

SlateBlue	.
DarkSeaGreen	.

Miscellaneous

C-h v features	list all the packages loaded.
leisure read	C-. C-, C-'
replace regexp	C-M-
narrow-to-region	C-x n n (show region only)
widen	C-x n w
copy-to-register	C-x r s, (prompt you to insert register name)
insert-from-register	C-x r i
zap-to-char	delete all the chars until next one.

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

10pt/11pt/12pt	Font size.
letterpaper/a4paper	Paper size.
twocolumn	Use two columns.
twoside	Set margins for two-sided.
landscape	Landscape orientation. Must use `dvips -t landscape`.
draft	Double-space lines.

Usage: `\documentclass[`*opt,opt*`]{`*class*`}`.

Packages

fullpage	Use 1 inch margins.
anysize	Set margins: `\marginsize{`*l*`}{`*r*`}{`*t*`}{`*b*`}`.
multicol	Use *n* columns: `\begin{multicols}{`*n*`}`.
latexsym	Use LaTeX symbol font.
graphicx	Show image: `\includegraphics[width=`*x*`]{`*file*`}`.
url	Insert URL: `\url{`*http://...*`}`.

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

`\part{`*title*`}`	`\subsubsection{`*title*`}`
`\chapter{`*title*`}`	`\paragraph{`*title*`}`
`\section{`*title*`}`	`\subparagraph{`*title*`}`
`\subsection{`*title*`}`	

Section commands can be followed with an `*`, like `\section*{`*title*`}`, to supress heading numbers. `\setcounter{secnumdepth}{`x`}` supresses 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

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

References

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

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.

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`
`\textmd{`*text*`}`	`{\mdseries` *text*`}`	Medium series
`\textbf{`*text*`}`	`{\bfseries` *text*`}`	**Bold series**
`\textup{`*text*`}`	`{\upshape` *text*`}`	Upright shape
`\textit{`*text*`}`	`{\itshape` *text*`}`	*Italic shape*
`\textsl{`*text*`}`	`{\slshape` *text*`}`	*Slanted shape*
`\textsc{`*text*`}`	`{\scshape` *text*`}`	Small Caps shape
`\emph{`*text*`}`	`{\em` *text*`}`	*Emphasized*
`\textnormal{`*text*`}`	`{\normalfont` *text*`}`	Document font
`\underline{`*text*`}`		Underline

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

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`

Miscellaneous

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

Text-mode symbols

Symbols

&	`\&`	_	`\_`	...	`\ldots`	•	`\textbullet`
$	`\$`	^	`\^{}`	|	`\textbar`	\	`\textbackslash`
%	`\%`	~	`\~{}`	#	`\#`	§	`\S`

Accents

ò	`\‘o`	ó	`\’o`	ô	`\^o`	õ	`\~o`	ō	`\=o`
ȯ	`\.o`	ö	`\"o`	o̧	`\c o`	ő	`\v o`	ő	`\H o`
ç	`\c c`	o̩	`\d o`	o̲	`\b o`	o͡o	`\t oo`	œ	`\oe`
Œ	`\OE`	æ	`\ae`	Æ	`\AE`	å	`\aa`	Å	`\AA`
ø	`\o`	Ø	`\O`	ł	`\l`	Ł	`\L`	ı	`\i`
ȷ	`\j`	¡	`~‘`	¿	`?‘`				

Delimiters

‘ ‘	“ ‘‘	{ `\{`	[`[`	((	< `\textless`
’ ’	” ’’	} `\}`	] `]`	))	> `\textgreater`

Dashes

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

Line and page breaks

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

Miscellaneous

`\today`	December 15, 2011.
`$\sim$`	Prints ∼ instead of `\~{}`, which makes ˜.
`~`	Space, disallow linebreak (`W.J.~Clinton`).
`\@.`	Indicate that the `.` ends a sentence when following an uppercase letter.
`\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.

Tabular environments

`tabbing` environment

`\=` Set tab stop. `\>` Go to tab stop.

Tab stops can be set on "invisible" lines with `\kill` at the end of the line. Normally `\\` is used to separate lines.

`tabular` environment

`\begin{array}[`*pos*`]{`*cols*`}`
`\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.

Math mode

To use math mode, surround text with `$` or use `\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`

Math-mode 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

Bibliography and citations

When using BibTeX, you need to run `latex`, `bibtex`, and `latex` twice more to resolve dependencies.

Citation types

`\cite{`*key*`}`	Full author list and year. (Watson and Crick 1953)
`\citeA{`*key*`}`	Full author list. (Watson and Crick)
`\citeN{`*key*`}`	Full author list and year. Watson and Crick (1953)
`\shortcite{`*key*`}`	Abbreviated author list and year. ?
`\shortciteA{`*key*`}`	Abbreviated author list. ?
`\shortciteN{`*key*`}`	Abbreviated author list and year. ?
`\citeyear{`*key*`}`	Cite year only. (1953)

All the above have an `NP` variant without parentheses; Ex. `\citeNP`.

BibTeX entry types

`@article`	Journal or magazine article.
`@book`	Book with publisher.
`@booklet`	Book without publisher.
`@conference`	Article in conference proceedings.
`@inbook`	A part of a book and/or range of pages.
`@incollection`	A part of book with its own title.
`@misc`	If nothing else fits.
`@phdthesis`	PhD. thesis.
`@proceedings`	Proceedings of a conference.
`@techreport`	Tech report, usually numbered in series.
`@unpublished`	Unpublished.

BibTeX fields

`address`	Address of publisher. Not necessary for major publishers.
`author`	Names of authors, of format ....
`booktitle`	Title of book when part of it is cited.
`chapter`	Chapter or section number.
`edition`	Edition of a book.
`editor`	Names of editors.
`institution`	Sponsoring institution of tech. report.
`journal`	Journal name.
`key`	Used for cross ref. when no author.
`month`	Month published. Use 3-letter abbreviation.
`note`	Any additional information.
`number`	Number of journal or magazine.
`organization`	Organization that sponsors a conference.
`pages`	Page range (`2,6,9--12`).
`publisher`	Publisher's name.
`school`	Name of school (for thesis).
`series`	Name of series of books.
`title`	Title of work.
`type`	Type of tech. report, ex. "Research Note".
`volume`	Volume of a journal or book.
`year`	Year of publication.

Not all fields need to be filled. See example below.

Common BibTeX style files

`abbrv`	Standard	`abstract`	`alpha` with abstract
`alpha`	Standard	`apa`	APA
`plain`	Standard	`unsrt`	Unsorted

The LaTeX document should have the following two lines just before `\end{document}`, where `bibfile.bib` is the name of the BibTeX file.

```
\bibliographystyle{plain}
\bibliography{bibfile}
```

BibTeX example

The BibTeX database goes in a file called *file*`.bib`, which is processed with `bibtex file`.

```
@String{N = {Na\-ture}}
@Article{WC:1953,
  author  = {James Watson and Francis Crick},
  title   = {A structure for Deoxyribose Nucleic Acid},
  journal = N,
  volume  = {171},
  pages   = {737},
  year    = 1953
}
```

Sample LaTeX document

```
\documentclass[11pt]{article}
\usepackage{fullpage}
\title{Template}
\author{Name}
\begin{document}
\maketitle

\section{section}
\subsection*{subsection without number}
text \textbf{bold text} text. Some math: $2+2=5$
\subsection{subsection}
text \emph{emphasized text} text. \cite{WC:1953}
discovered the structure of DNA.

A table:
\begin{table}[!th]
\begin{tabular}{|l|c|r|}
\hline
first  &  row  &  data \\
second &  row  &  data \\
\hline
\end{tabular}
\caption{This is the caption}
\label{ex:table}
\end{table}

The table is numbered \ref{ex:table}.
\end{document}
```