LooChao Emacs Cheat Sheet

Keyboard Shortcuts

M-f1:	search in firefox.
M-f2:	search in w3m.
g:	google.
g:	google symbol at point.
ь.	google symbol at point.
C -:	zoom out.
C =:	zoom in.
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
	F,
M-1:	start shell inside emacs.
M-g:	goto char.
M-k M-k:	kill this buffer.
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.
	11 1 1
f2 s:	spell-mode toggle.
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.
3	G F
w3m-mode	
d:	kill curren page.
hjkl:	vim traditional move.
Н:	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.

Elegant Colors

slateblue .

Miscellaneous

C-h v features list all the packages loaded.

leisure read C-. C-, C-'

narrow-to-region C-x n n (show region only, C-x n w, widen

Used at the very beginning of a document:

 $\label{locument} $$\operatorname{class}(class).$ Use \left(\operatorname{document}\right)$ to start contents and \left(\operatorname{document}\right)$ 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.

 $\begin{tabular}{ll} $\tt draft & \tt Double-space lines. \\ \\ \tt Usage: \documentclass[\it opt, opt]\{\it class\}. \\ \end{tabular}$

Packages

 ${\tt fullpage}$ Use 1 inch margins.

anysize Set margins: $\mbox{\mbox{$\mbox{marginsize}(l}_{r}_{b}.$}$ multicol Use n columns: $\mbox{\mbox{$\mbox{$\mbox{$mu$}$}}}$ multicols} $\mbox{\mbox{$\mbox{n}$}}$.

latexsym Use LATEX symbol font.

graphicx Show image: $\include{cludegraphics}$ [width=x] {file}.

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

 $\sl title$

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.

 $\forall tem[x] text$ 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
$\text{textrm}\{text\}$	${\tt \{rmfamily } text}$	Roman family
$\text{textsf}\{text\}$	$\{\sffamily\ text\}$	Sans serif family
$\text{texttt}\{text\}$	$\{ \forall ttfamily text \}$	Typewriter family
$\texttt{textmd}\{text\}$	${\tt \{ mdseries } text{} }$	Medium series
$\text{textbf}\{text\}$	$\{\bfseries\ text\}$	Bold series
$\text{textup}\{text\}$	$\{\upshape text\}$	Upright shape
$\text{textit}\{text\}$	$\{\t tshape text\}$	$Italic\ shape$
$\text{textsl}\{text\}$	$\{\sline text\}$	Slanted shape
$\text{textsc}\{text\}$	$\{\scanhear text\}$	SMALL CAPS SHAPE
$\ensuremath{\verb emph {text} }$	$\{ \text{\ } text \}$	Emphasized
$\text{textnormal}\{text\}$	t {\normalfont $text$	Document font
\underline{text}	+	$\underline{\text{Underline}}$

The command (tttt) form handles spacing better than the declaration (tttt) form.

Font size

			T
\tiny	tiny	\Large	Large
\scriptsize	scriptsize	\ T ADGE	LARGE
\footnotesize	footnotesize		1
\small	small	\hiige	huge
\normalsize	normalsize	(Huge	TT
\large	large	\Huge	Huge

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

Verbatim text

\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

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

Text-mode symbols

Symbols

&	\&	_	_		\ldots	•	\textbullet
\$	\\$	^	\^{}		\textbar	\	\textbackslash
%	\%	~	\~{}	#	\#	ξ	\S

Accents

ò \'o	ó ∖'o	ô \^o	õ \~o	ō \=o
ό \.ο	ö \"o	g \c o	ŏ \v o	ő \H o
ç \c c			⊙ \t 00	
Œ ∖oe	æ \ae	Æ \AE	å \aa	Å \AA
ø \o	Ø \0		Ł \L	
j ∖j	i ~ '	٠? ز		

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	August 19, 2011.
π	Prints \sim instead of $\$, which makes $\tilde{\}$.
~	Space, disallow linebreak (W.J.~Clinton).
\@.	Indicate that the . ends a sentence when following
	an uppercase letter.

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

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.

Insert decl instead of inter-column space
Inserts a vertical line between columns.

tabular elements

 $\label{eq:line_point} $$ \begin{array}{ll} \mbox{\colored} & \mbox{\colored}$

A cell that spans n columns, with cols column specification.

≈ \approx

Math mode

< \leq

To use math mode, surround text with \$ or use \begin{equation}.

Superscript x	^{x}	$Subscript_x$	_{x}
$\frac{x}{y}$	$frac{x}{y}$	$\sum_{k=1}^{n}$	$\sum_{k=1}^n$
$\sqrt[n]{x}$	$\sqrt[n]{x}$	$\prod_{k=1}^n$	$\prod_{k=1}^n$

≠ \neq

Math-mode symbols

> \geq

_	·1	_	,0-1	/	,1		,FF
×	\times	÷	\div	\pm	\pm		\cdot
0	^{\circ}	0	\circ	1	\prime		\cdots
∞	∞	\neg	\neg	\wedge	\wedge	\vee	\vee
\supset	\supset	\forall	\forall	\in	\in	\rightarrow	\rightarrow
\subset	\subset	\exists	\exists	∉	\n	\Rightarrow	\Rightarrow
\cup	\cup	\cap	\cap		\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	au	\tau
v	υ	ϕ	\phi	χ	\chi	ψ	\psi
ω	\omega	Γ	\Gamma	Δ	\Delta	Θ	\Theta
Λ	\Lambda	Ξ	\Xi	П	\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. ?
\shortciteN{key} Abbreviated author list. ?
\citeyear{key} Cite year only. (1953)

All the above have an NP variant without parentheses; Ex. $\c\$

BibTeX entry types

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

Cunpublished Unpublished.

$BibT_{E}X$ 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 of a journal or book.

year Year of publication.

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

Common BibT_FX 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 ${\rm BiBT}_{\rm E}{\rm X}$ database goes in a file called ${\it file}$.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}
```

\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}{|1|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}

 $\begin{array}{c} {\rm Copyright} \ \textcircled{\odot} \ 2010 \ {\rm Winston} \ {\rm Chang} \\ {\rm http://www.stdout.org/}{\sim} {\rm winston/latex/} \end{array}$