Bash Reference Card

相关文件

.bashrc Default is two-sided.

.bash_profile divisions. .bash_history divisions.

Common document class options

Font size. 10pt/11pt/12pt letterpaper/a4paper Paper size. twocolumn

Use two columns.

twoside Set margins for two-sided.

Landscape orientation. Must use dvips landscape

-t landscape.

draft Double-space lines. Usage: \documentclass[opt,opt]{class}.

Packages

fullpage Use 1 inch margins.

anysize Set margins: $\mbox{marginsize}\{l\}\{r\}\{t\}\{b\}.$ multicol Use n columns: β_n .

latexsym Use LATEX symbol font.

graphicx Show image: \includegraphics[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.

 $\del{deterministic} \del{deterministic} \del{determinist} \del{deterministic} \del{d$ 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 number-

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.

 $\strut {secnumdepth} {x} supresses heading numbers of$ 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.

 $\left| \int text \right|$ 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

CommandDeclarationEffect\textrm{text} {\rmfamily \text} Roman family $\text{textsf}\{text\}$ {\sffamily text} Sans serif family \texttt{text} {\ttfamily \text} Typewriter family textMedium series {\mdseries text} text{\bfseries text} **Bold** series \textup{text} Upright shape {\upshape text} \textit{text} {\itshape text} Italic shape $\text{textsl}\{text\}$ {\slshape text} Slanted shape $\text{textsc}\{text\}$ {\scshape text} SMALL CAPS SHAPE $\mbox{emph}\{text\}$ $\{ \text{lem } text \}$ Emphasized\textnormal{text}{\normalfont text}Document font \underline{text} Underline

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

Font size

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

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

Text-mode symbols

Symbols

&	\&	_	_		\ldots	•	\textbullet
\$	\\$	^	\^{}		\textbar	\	\textbackslash
0%	۱%	~	/~{}	++	\ #	8	\ 9

Accents

ò \'o	ó ∖'o	ô \^o	õ \~o	ō \=o
o ∖.ο	ö \"o	9 \c o	ŏ \ν ο	ő \H o
ç \c c	o \d o	o √b o	⊙ \t 00	œ \oe
			å \aa	
ø \o	Ø \0	ł \1	Ł \L	1 \i
j ∖j	i ~ '	٤ ?'		'

Delimiters

```
{ \{ [ [ ( ( < \textless
```

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 28, 2011.

Prints \sim instead of \S , which makes $\tilde{}$. \$\sim\$ 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). $\vertical space of length l.$

 \mathbf{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

1 Left-justified column. Centered column. С Right-justified column. r $p\{width\}$ Same as $parbox[t]\{width\}$.

Insert decl instead of inter-column space. **Q**{ decl} 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
               ≥ \geq
                             ≠ \neq
                                          ≈ \approx
               ÷ \div
                             \pm \pm
                                             \cdot
   \times
   ^{\circ} o \circ
                             / \prime ··· \cdots
                             \land \wedge \lor \vee
\infty \infty
               ¬ \neg
               \rightarrow \rightarrow
⊃ \supset
              ∃ \exists ∉ \notin ⇒ \Rightarrow
   \subset
               ∩ \cap
                                \mid
                                          ⇔ \Leftrightarrow
   \cup
               \hat{a} \hat a
                             ar{a} \bar a 	ilde{a}
                                             \tilde a
   \dot a
                                              \delta
\alpha \alpha
               \beta \beta
                             \gamma \gamma \delta
   \epsilon (\zeta
                             \eta \eta
                                             \varepsilon
                                          ε
               \iota \iota
                             \kappa \kappa \vartheta
                                             \vartheta
   \theta
\lambda \lambda
               \mu \setminus mu
                             \nu \nu
                                             \xi
               \rho \rho
                             \sigma \sigma 	au
                                             \tau
   \pi
                                             \psi
   \upsilon \phi \phi
                             \chi \setminus \text{chi}
\omega \omega
               \Gamma \Gamma
                             \Delta \Delta \Theta
                                             \Theta
\Lambda \Lambda \Xi \Xi
                             Π\Pi
                                          \Sigma \Sigma
\Upsilon \Upsilon \Phi \Phi
                             \Psi \Psi
                                          \Omega \Omega
```

Bibliography and citations

When using ${\rm BiBT}_{\rm E}{\rm X}$, you need to run latex, bibtex, and latex twice more to resolve dependencies.

Citation types

Citation types			
$\texttt{\cite}\{key\}$	Full author list and year. (Watson and Crick		
	1953)		
$\texttt{\citeA}\{key\}$	Full author list. (Watson and Crick)		
$\texttt{\citeN}\{key\}$	Full author list and year. Watson and Crick		
	(1953)		
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	Abbreviated author list and year. ?		
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	Abbreviated author list. ?		
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	Abbreviated author list and year. ?		
$\citeyear\{key\}$	Cite year only. (1953)		

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

BibT_EX entry types

@article

```
      Cbook
      Book with publisher.

      Cbooklet
      Book without publisher.

      Cconference
      Article in conference proceedings.

      Cinbook
      A part of a book and/or range of pages.

      Cincollection
      A part of book with its own title.

      Cmisc
      If nothing else fits.

      Cphdthesis
      PhD. thesis.
```

Journal or magazine article.

©proceedings Proceedings of a conference.

Ctechreport Tech report, usually numbered in series.Cunpublished Unpublished.

BibT_EX 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

 ${\tt abbrv} \quad {\tt Standard} \qquad \quad {\tt abstract} \quad {\tt alpha} \ {\tt with} \ {\tt abstract}$

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}

BibT_EX example

```
The \mbox{BiBT}_{E}X database goes in a file called \mbox{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}{|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}
```

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