$\mathcal{A}_{\mathcal{N}}\mathcal{S}$ -LATEX Reference Card #1

See the T_FX Reference Card for additional commands. Required packages are indicated as (package).

Document Structure

```
• Preamble
```

\documentclass[option(s)]{class} \usepackage[option(s)]{package(s)}

\begin{document}

• Body

- (\frontmatter in book classes) • Front Matter
- Top Matter

\title{...}

\title[running head]{...} alternative headline

\date{...}

\date{\today} gives current date

\author{...}

\maketitle (not in book classes)

Additional items — ams classes only

\translator{...} \dedicatory{...}

\address[optional name]{...}

\curraddress{...}

\email[optional name] {...}

\thanks{...}

\subiclass{Primary: XXX: Secondary: XXX}

\kevwords{...}

\thanks{...}

\tableofcontents

\chapter{Introduction} (in book classes)

• Abstract (not in book classes)

\begin{abstract}...\end{abstract}

• Main Matter (\mainmatter in book classes)

\chapter{...}

\section{...}

\subsection{...}

\appendix

• Back Matter (\backmatter in book classes)

\begin{thebibliography}{99}...\end{...}

\end{document}

Page Style

\pagestyle{style} set page style to one of: plain empty header, page number in footer

empty header and footer empty

headings header filled by doc class, empty footer myheadings empty footer, fill header with info in

\markboth{lefthead}{righthead} and \markright{righthead}

\thispagestyle{style} set \pagestyle, only current page \enlargethispage{\baselineskip} force an extra line \renewcommand{\baselinestretch}{2} doublespaced fancyheadings package allows custom headers and footers

• Page Style Parameters

\hoffset. \voffset move page right, down \paperwidth, \paperheight, \textheight, \textwidth

\topmargin, \headheight, \headsep, \footskip \pagenumbering{...} e.g., arabic, roman

Classes and Packages

\documentclass[option(s)]{class} \usepackage[option(s)]{package(s)} \NeedsTeXFormat{LaTeX2e}[1994/12/01]

•Document Classes

article, book, letter, report, slides amsart, amsbook, amsproc (all autoload amsmath)

•Useful Packages

amsmath, amsthm, amscd, amssymb, latexsym

fancyheadings allows custom headers and footers

alltt all teletype, even \.{.}

makeidx, showidx create index, show in margin

graphics, graphicx inclusion of graphics

enumerate extends the enumerate environment

shows page layout of doc class multicol flexible multicolumn typesetting

showkeys print label kevs in margin

verbatim extends verbatim environment typeset URLs allowing line breaks

graphpap \graphpaper command for \picture environ.

•Document and Package Options

Font Size

8pt, 9pt, 10pt, 11pt, 12pt

Paper Size

a4paper,a5paper,b5paper,legalpaper,letterpaper

Document Preparation

draft, final, notitlepage, titlepage

Page Formatting

onecolumn, twocolumn, oneside, twoside, openany, openright

Equation Numbering

fleqn,leqno,reqno,centertags,tbtags

Equation Limits

intlimits.sumlimits.nonamelimits

AMS (Postscript) Fonts

psamsfonts.noamsfonts

Bibliography (see also BIBT_EX)

\begin{thebibliography}{99}...\end{...}

bibliography with widest label specified

\bibitem{name} named bibliography item \bibitem[label] {name} with alternative label to print

use long line for same author \bvsame \renewcommand{\bibname}{title} use custom title \cite{name} print number of named bib item

\cite[text]{name} with extra text

Cross Referencing and Numbering

\label{name} assign label name to numbered item \ref{name} print number of named item

\earef{name} print number in parentheses (amsmath)

\pageref{name} print page location of named item \cite{name} print number of named bibliography item

\cite[text]{name} with extra text

\numberwithinsection{equation}{section} number by section

Sectioning and Table of Contents

Sectioning commands

\command{title} sectioning command with title \command[head]{title} with alternative running head \command*{title} with number supressed

\part \section \paragraph \subparagraph \chapter \subsection \subsubsection

\appendix start appendix

• Table of Contents

\tableofcontents create and print contents

filename.toc contents associated to filename.tex

\addcontentsline{toc}{section}{line to add}

\addtocontents{toc}{material to add}

\setcounter{tocdepth}{...} set amount to print

Tables and Figures

\begin{table} ... \caption{text} \label{name} \end{table} \listoftables create and print list of tables \begin{figure} ... \caption{text} \label{name} \end{figure} \includegraphics{filename} include image (graphics) \scaledbox{.5}{\includegraphics{filename}} scaled graphic \listoffigures create and print list of figures

Lists

\item item within list \item[label] item with label \begin{enumerate}...\end{...} numbered items \begin{itemize}...\end{...} bulleted items \begin{description}...\end{...} captioned items \setlength{\itemsep}{0pt} move items closer enumerate package extends enumerate

Displayed Text Material

\begin{center}...\end{...} centered matrial \begin{flushright}...\end{...} flush right matrial \begin{flushleft}...\end{...} flush left matrial \begin{quote}...\end{...} short quote \begin{quotation}...\end{...} long quote \begin{verse}...\end{...} poetry \begin{verbatim}...\end{...} verbatim material \verbl...| verbatim material \verb*|...| verbatim with spaces marked extends verbatim verbatim package

Footnotes, Comments, Other Stuff

\footnote{text} numbered footnote comment out a line \begin{comment}...\end{...} long comment (verbatim)

\typeout{text} print to terminal \typein{text} get input from keyboard

\typein[\cmd]{text} assign input to \cmd \protect protects fragile commands

optional hyphen \-\hyphenation{hypenated words} extra hyphenated words

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Dimensions, Spacing, and Glue

= 11110110110110,	Parising, and order			
Dimensions are specified as (number) (unit of measure).				
Glue is specified as \d	imen plus (dimen minus (dimen).			
point pt pica	pc inch in centimeter cm			
m width em x heigh				
1 pc = 12 pt 1 in =	72.72 pt 2.54 cm = 1 in 18 mu = 1 em			
\ \qquad	white space (1 space, 1 em, 2 em)			
$\hspace{10pt}$	specified horizontal space			
$\hspace*{10pt}$	space even at line start			
Horizontal Spacing (N	Math): thin space \: med space			
\; thick space	\! neg. thin space \mspace\muglue\			
\strut,\mathstrut	invisible vertical space			
$\mathbf{phantom}\{\dots\}$	invisible space			
$\vert vphantom{}$	invisible vertical space			
$\mbox{smash[bt]}{}$	typeset w/zero height,depth			
\hfill	fill with space			
\dotfill	fill with dots			
\hrulefill	fill with rule (line)			
\par	new paragraph			
\newline or \\	force a new line			
*	new line, prohibit page break			
\\[5pt]	new line skipping 5 pts			
$\vspace{1in}$	specified vertical space			
$\vspace*{1in}$	space even at page start			
\newpage	force a new page			
• Length Variables				
$\newlength{\newlength}$	create length varible \lngth			
\setlength{\lngth}{	dimen} set value of \lngth			
\addtolength{\lngth}{dimen} increase \lngth				
• Useful Length Assignments				
\b	\enlargethispage{\baselineskip} force extra line			

\setlength{\hangafter}{3} \renewcommand{\baselinestretch}{2} doublespaced

Accents

\setlength{\hangindent}{30pt}

Type	Example	In Math	In Text
hat	â	\hat	\^
expanding hat	$\stackrel{\frown}{abc}$	\widehat	none
check	ă	\check	\v
tilde	$\widetilde{\underline{a}}$	\tilde	\~
expanding tilde	\widetilde{abc}	\widetilde	none
acute	lpha	\acute	\',
grave	à	\grave	\'
dot	\dot{a}	\dot	١.
double dot	\ddot{a}	\ddot	\"
breve	$reve{a}$	\breve	\u
bar	$ar{a}$	\bar	\=
vector	$ec{a}$	\vec	none
cedilla	ç	none	\c

indentation

indent after

Additional Text Symbols

\dag	†	\copyright	(C)	\pounds	1
\ddag	‡	\textcircled{r}	$^{\circ}$		
\P	\P	\textvisiblespace	\Box		
۱s	8	\textbullet	•		

Fonts

LOHUS		
• Text Fonts		
	{\normalfont}	document font
	${\tt \{\rmfamily\}}$	roman
	${\left\{ \left(sffamily\right\} \right\} }$	sans serif font
	$\{\ttfamily\}$	typewriter style
	{\bfseries}	bold
	{\upshape}	upright
	${ ext{ (itshape)}}$	italic
	{\slshape}	slanted
	{\scshape}	SMALL CAPITALS
	{\em}	emphasize
		framed text
• Font Environn	nents exist for above	e types, e.g.,
\begin{ttfamily}	$\ldots \setminus end\{\dots\}$	
• Changing Font	Sizes	
\tiny, \scr	$iptsize$, \footnote	size,\small
\normalsize \l	arge, \Large, \LAR	GE, \huge, \Huge
• Math Fonts		
$\mathbf{mathrm}\{\dots\}$	roman	
$\mathbf{mathbf}\{\}$	bold (letters)	
	bold (symbol)	(amsmath)
	italic	
$\mathbf{mathcal}{\dots}$	caligraphic A ,	\mathcal{B},\mathcal{C}
euca	<pre>1} redef \mathcal</pre>	to script A , B , C
$\mathbf{mathfrak}\{\dots\}$	Fraktur A, a,	$\mathfrak{B},\mathfrak{b}$ (amsfonts)
	Blackboard bo	$\operatorname{Id} A, B, \mathbb{C} $ (amsfonts)
	framed math	
• Math Font Siz	es	
\displaystyle	display size	
\textstyle	text size	
\scriptsize	sub/superscrip	ot size
\scriptscriptsiz	e doubly sub/su	perscripted size

Boxes

	one line of text
	one line of text (amsmath)
$\operatorname{\mathtt{parbox}} \operatorname{\mathtt{width}} \operatorname{\mathtt{text}}$	paragraph of text
\parbox[align] [height] [inner	align] {width} {text}
	marginal comment
\rule[-1pt]{20pt}{10pt}	solid box
$\raisebox{5pt}{text}$	raised box
\makebox[width] [alignment] {	text} box of text
\framebox[width] [alignment]	{text} framed text
\setlength{\fboxsep}{5pt}	space around text
\setlength{\fboxrule}{3pt}	width of box borders

Overfull and Underfull Boxes

draft	document class marks overfulls
\overfullrule	width of overfull marker
setlength	n}{\hfuzz}{2pt}
	allow small overfulls

Multicolumn Printing

\twocolumn	double column on new page
\onecolumn	single column on new page
multic	ols} ${n}[ext{title}] \setminus end{}$
	multicolumn environment (multicol)

Array and Tabular Environments

```
\begin{tabular}[POS]{COLS}...\end{...}
\begin{array}[POS]{COLS}...\end{...}
Use tabular for text, array for mathematics
&. \\
               column and row separators
POS aligns top (t), bottom (b), center (default)
COLS gives formats for columns:
    1,c,r
               left, center, right justified
               vertical rule
    @{...}
               material between columns
    @{}
               no space between columns
    *\{n\}\{...\} n copies of material
    p{width}
               set column width
\hline
               horizontal line between rows
\cline{i-j}
               line across columns i to j
\multicolumn{n}{COLS}{...}
               span n columns using format in COLS
\setlength{\tabcolsep}{Opt} set column separation
\setlength{\itemsep}{Opt} set item separation
\renewcommand{\arraystretch}{1.25} open up array
• Example of a table using \tabular
\begin{table}
  \begin{center}
    \begin{tabular}{||1|c|c|} \hline
     Name & Exam & Grade \\ \hline
     Dan & 97\% & A \\ \hline
    \end{tabular}
    \caption{Math 101 Final Grades}
    \label{GradeTable}
  \end{center}
                        Name
                                Exam
                                        Grade
\end{table}
                                 97%
                                           Α
```

Math 101 Final Grades

Tabbing Environment

```
\begin{tabbing}...\end{...}
                              tabbing environment
                               set tab
\=
                               end line
//
\>
                               move to next tab
\kill
                               do not print line
```

File Suffixes and Types

```
• LATEXSource Files
        File containing a LATEX document
.sty, .cls LATEX style and document class files
.fd
        Font definition file
• Files Written by LATEX
        (See also BIBTFX and MAKEINDEX)
        cross-referencing and list information
.aux
.dvi
        device independent typeset file
        list of glossary entries
.glo
        list of figures (read by \listoffigures)
.lof
.lot
        list of tables (read by \listoftables)
        table of contents (read by \tableofcontents)
.toc
        LATEX log file
.log
\nofiles supresses all except .log and .dvi
```

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$\mathcal{A}_{\mathcal{N}}\mathcal{S}$ -LATEX Reference Card #2

See the TFX Reference Card for additional commands. The notation (package) indicates a required package.

Math Environments

\(...\) or \$...\$ inline math displayed math \[...\] or \$\$...\$\$ \begin{equation}\label{eqname}...\end{...} numbered and labeled equation refer to labeled eqn \ref{eqname} \mbox{...} text in math • The following require amsmath \text{...} text in math \begin{equation*}...\end{...} unnumbered eqn \tag{eqtag} use eqtag instead of number \notag supress equation tag \earef{eaname} ref with parens \begin{subequations}...\end{...} group equations for numbering \numberwithin{equation}{section} number equations within sections

Theorems, Lemmas, Etc.

• Defining Theorem-Like Environments

\newtheorem{name}{label} theorem environment \newtheorem*{name}{label} unnumbered (amsthm) \newtheorem{name} [other name] {label}

numbered consecutively with other environment \newtheorem{name}{label}[section]

numbered by section (or chapter, etc.) put numbers on left \swapnumbers

• Theorem-Like Environment Styles (amsthm)

\theoremstyle{plain} most emphatic \theoremstyle{defintion} medium emphasis \theoremstvle{remark} least emphatic

• Invoking Theorem-Like Environments

\begin{name}...\end{...} invoke environment \begin{name} [label]... invoke with new label If proclamation starts with a list, put in \hfill \begin{proof}...\end{...} proof environment \begin{proof}[label]...\end{...} proof with label \qedsymbol end of proof marker \renewcommand{\qedsvmbol}{...} redefine marker

Commutative Diagrams (amscd)

Separate lines with \\, do not use &s \begin{CD}...\end{CD} commutative diagram

@>#1>#2> right arrow with labels @<#1<#2< left arrow with labels @V#1V#2V down arrow with labels @A#1A#2A up arrow with labels @= long horizontal equal sign @| long vertical equal sign @. leave out an arrow

Multiline Math Displays (amsmath)

Use as \begin{command}...\end{command} Separate items with &. separate lines with \\ No \\ on last line, \\[dim] to skip space

• Full Math Environments (full line)

centered, numbered equations gather gather* centered, unnumbered equations multline first line left, last line right, rest centered multline* same as multline, but unnumbered align formulas aligned at & signs align* same as align, but unnumbered

flalign flush left and right align alignat align without space, needs

argument \begin{alignat}{# of cols} \intertext{text} text between lines

\shoveleft,\shoveright move multline line left, right allow page breaks (* prohibits) \allowdisplaybreaks \displaybreak force page break (before \\)

• Math Subenvironments (within math display)

gathered centered equations

aligned formulas aligned at & signs

split long formula within other environment split

cases, with { on left cases

matrix matrix (of up to 10 columns) pmatrix, bmatrix, vmatrix, Vmatrix

matrix variants enclosed by (\cdots) , $[\cdots]$, $|\cdots|$, $|\cdots|$ \setcounter{MaxMatrixCols}{12}

increase number of matrix columns dots across columns \hdotsfor{num}

Overlines, Underlines, and Arrows

\underline{...} underline overline \overline{...} \overbrace{...}^{...} overbrace $\underbrace{...}_{...}$ underbrace \overightarrow{...} over right arrow \overleftarrow{...} over left arrow \overleftrightarrow{...} over left-right arrow \underrightarrow{...},\underleftarrow{...}, etc. \xrightarrow[bot]{top} stretchable w/sub/supscripts \xleftarrow[bot]{top} stretchable w/sub/supscripts

Operator Names

\arccos	\cos	\csc	\exp	\ker	\liminf	\min	\sinh
\arcsin	\cosh	\deg	\gcd	\lg	\label{limsup}	\Pr	\sup
\arctan	\cot	\det	\hom	\lim	\log	\sec	\tan
\arg	\coth	\dim	\inf	\ln	\max	\sin	\tanh
a \equiv	b \pmo	$d\{m\}$	$a \equiv b$	(mod a	m)		
a \equiv	b \mod	.{m}	$a \equiv b$	$\mod n$	i		
a \bmod	m		$a \mod$	m			
\Declare	MathOpe	rator{	\cmd}	{opnam	ie} crea	ate ope	rator
\Declare	MathOpe	rator*	{\cmd}	}{opnai	me}	with 1	$_{ m imits}$
\operato	$rname\{.$	}		1	typeset as	an ope	rator
\operato	rname*{	}				with l	$_{ m imits}$

Large Operators

\sum	\sum	\cap	\bigcap	\odot	\bigodot
П	\prod	Ü	\bigcup	\otimes	\bigotimes
ĬĬ	\coprod	Ŭ	\bigsqcup	\oplus	\bigoplus
$\overline{\int}$	\int	V	\bigvee	\forall	\biguplus
∮	\oint	Λ	\bigwedge		
∖su	bstack{xxx\\ y	yy}	stacked sub or s	supers	scripts
\1i	mits,\nolimits		force or forbid of	displa	yed limits
\oi:	nt,\iint,\iiint,	\iiii	int,\idotsint		
			integral varia	ants (amsmath)

Delimiters

\lbrack or \[$\{ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	\langle
] \rbrack or \]	} \rbrace or \} >	\rangle
\vert or \	\lfloor [\lceil
\Vert or \	\rfloor	\rceil
↑ \uparrow	↑ \Uparrow ↓	\updownarrow
↓ \downarrow	↓ \Downarrow	\Updownarrow
<pre>\left(\right)</pre>	expanding delimiters	
\left. \right.	empty delimiters	
<pre>\bigl(\bigr)</pre>	big delimiters	
\Bigl(\Bigr)	bigger delimiters	
\biggl(\biggr)	even bigger delimiters	
\bigm ,\biggm	big binary relation delim	iters

Roots

	square root $\sqrt{}$
$\sqrt[n]{}$	n th root $\sqrt[n]{}$
\leftroot{2},\uproot{2}	move root left or up

Ellipses

\ldots,\cdots,\dots ellipses vertical and diagonal dots \vdots.\ddots \dotsc.\dotsb.\dotsm.\dotsi more ellipses (amsmath)

Fractions and Stacked Relations

$frac{n}{d}$	fraction $\frac{n}{d}$
$\displaystyle \{d\} $	displaystyle fraction
$tfrac\{n\}\{d\}$	textstyle fraction
$\ \ \ \ \ \ \ \ \ \ \ \ \ $	binomial coefficient $\binom{n}{d}$
\genfrac{ldelim}{rdel	im}{thick}{style}{num}{{den}}
{}	continued fraction
$\stackrel{top}{bot}$	stacked relation
\overset{top}{bot}	stacked symbol (amsmath)
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	stacked relation (amsmath)
$\left[\left[-\left\{ l\right\} \right] \right] $	_{lr}^{ur}}{largeop}
large operator w	ith left/right sub/supscripts

Negated Relations

\n	negate a relation
\ne	$not\ equal \neq$
\n	not a member of \notin
\n	not divisible ∤

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User Defined Commands

\newcommand{\name}{replacement text} new command \newcommand{\name} [n] {text with #1.#2.....#n}

new command with n arguments

Example: \newcommand{\vect}[2]{\#1_1,\ldots,\#1_{\#2}} $\mbox{\newcommand}{\newcommand}[n] [default]{...}$

command with args and default value for #1

\renewcommand{...}{...} redefine existing command \providecommand{...}{...} define if doesn't exist $\newcommand*{...}{...}$ command with one par arg \ensuremath{...} forces math mode

\show\command print definition of \command \showthe\paramname print value of a parameter

User Defined Environments

\newenvironment{name}{pretext}{posttext}

new environment with material before and after $\new [n] {name} {...} {...}$

environment with n arguments

\newenvironment[n] [default] $\{name\}\{...\}\{...\}$

environment with default value for #1

\renewenvironment{name}{...}{...} redefine envrment

MAKEINDEX

• MakeIndex File Suffixes

.idx, .ind, .ilg entry listing, index file, log file

• MakeIndex Commands in Document File

\usepackage{makeidx} use indexing package

(Do not include this line if using AMS packages.)

\makeindex tell LATFX to create an .idx file

\printindex tell LATEX to print index here

supresses creation of .idx and .glo files \nofiles

• Creating MakeIndex .idx File

\index{entrv} main entry \index{entry!entry} subentry \index{entry!entry!entry} subsubentry \index{text@entrv} with placement info \index{entry|see{entry}} cross referenced entry \index{entry|modifier} entry with page modifier e.g. \index{gnats|textbf} give bold page number

\index{entry|(}...\index{entry|)} page range "! "@ "| "" Special Characters:

• Creating An Index With MakeIndex

- (1) Typeset document containing \makeindex command.
- Run MakeIndex on .idx file to create .ind file.
- (3) Typeset document containing \printindex command.

Glossarv

\makeglossary tell LATEX to create a .glo file \glossary{entry} create a glossary entry \glossarventry{entry}{page no.} entries in .glo file \input filename.glo read glossary file User must define \makeglossary, e.g., \newcommand{\glossarventry}[2]{#1, page #2\par}

Time and Date

\today current date Use \the to display the following items \day, \month, \year, \time (minutes since midnight)

Counters

```
\newcounter{cntr}
                        create new counter named cntr
\newcounter{cntr}[cntr1]reset cntr when cntr1 changes
\setcounter{cntr}{value} set value of cntr
\stepcounter{cntr}
                          increment cntr
```

\refstepcounter{cntr} increment and reset \label $\addtocounter{cntr}{n}$ increment by n

\value{cntr} value stored in \cntr \thecntr the value of cntr

calc package to do counter arithmetic

• Counter Styles

\arabic{} \roman{} \Roman{} \alph{} \Alph{}

• Standard Counters

equation footnote figure page table part chapter section subsection subsubsection paragraph subparagraph enumi enumii enumiiv secnumdepth depth to which sections are numbered depth to which sections are put into toc tocdepth

Customized List Environments

\begin{list}{default label}{declarations}

\item item 1 text \item item 2 text

\end{list}

\begin{trivlist}...\end{trivlist}

list with no labels or declarations, trivial lengths

•Declarations

\setlength{length parameter}{length}

\usecounter{counter name}

[Create counter first using \newcounter{counter name}.]

•Length Parameters (see page 113 of Lamport for more)

separate preceding text and first item \topsep \itemsep separate items

\leftmargin indent of item box from left margin

\labelwidth width of box for item label separate label box from item box \labelsep

The picture Environment

 $\begin{array}{c} \begin{array}{c} (w,h) & \text{od} \\ \end{array}$ \begin{picture} $(w,h)(\Delta x,\Delta y)...$ with offset $\operatorname{put}(x,y)$ {picture object} place object \multiput(x,y)($\Delta x, \Delta y$){n}{object} n times Picture Objects:

 $\mbox(x,y)$ [tblr]{text}

box with text $\label{line} \Delta x, \Delta y \ \{x \text{ length}\}$ line of slope $\Delta y/\Delta x$ $\vector(\Delta x, \Delta y) \{x \text{ length}\}\$ arrow of slope $\Delta y/\Delta x$ \circle{r} circle of radius r $\circle*{r}$ filled circle $\operatorname{(v,y)}[\operatorname{lrtb}]$ oval (part or whole) $\\ \begin{tabular}{l} \begin{t$ stacked text framed text

 $\frac{(x,u)}{\text{tblr}}$ \frame{text}.fbox{text} $\dshbox{d}(x,y){text}$ \quad $\space{name}(x,y)\{\dots\}$

\usebox{\name} $\graphpaper[n]\{x,y\}\{w,h\}$ \setlength{\unitlength}{1pt}

\thinlines.\thicklines

retrieve material print grid (graphpap) change size of picture adjust line thickness

dashed box

quadratic curve

store material

other framed boxes

Color (color)

\color{color} change color \textcolor{color}{text} colored text \colorbox{color}{text} colored background \fcolorbox{col_1}{col_2}{text} colored border & background \setlength{\fboxsep}{5pt} put space around text \setlength{\fboxrule}{3pt} width of border of box \pagecolor{color} set background color of page $\definecolor{name}{rgb}{r, q, b}$ define an RGB color $\definecolor{name}{cmyk}{c, m, y, k}$ define a CMYK color Predefined Colors black, white, red, green, blue, yellow, cyan, magenta

BIBTEX

```
• BIBT<sub>F</sub>X File Suffixes
```

BIBTEX bibliographic database file BIBTEX bibliographic style file .bst

BIBTEX log file .blg

.bbl BIBTEX document bibliography file

• BIBTEX Commands in Document File

\bibliographystyle{bib style file}

Examples: plain, amsplain, unsrt, alpha, abbrv \bibliography{bib database file(s)}

\cite{label} cite a reference

\nocite{label} include ref in bib without citation \nocite{*} include all references in bibliography

• Creating BIBTEX Database File

@STRING{name = "text"} define an abbreviation Put braces around non-initial capitalized title words. Use and to separate multiple authors in author field

•General Format of a Database Entry @ENTRYTYPE{label.

```
fieldtype1 = {entry1},
fieldtype2 = {entry2},
```

•Database Entry Types

@ARTICLE{...} QMASTERSTHESIS{...} @BOOK{...} @MISC{...} @BOOKLET{...} @PHDTHESIS{...} @INBOOK{...} @PROCEEDINGS{...} @INCOLLECTION{...} @TECHREPORT{...} @INPROCEEDINGS{...} @UNPUBLISHED{...} @MANUAL{...} @COMMENT{...}

•Field Types Within Entries

address editor school month author howpublished note series booktitle institution number title chapter journal organization type crossref kev pages volume publisher edition language year • Creating Document Bibliography With BIBTEX

- (1) Typeset document to get new .aux file.
- Run BIBTEX on .aux file to create .bbl file.
- Retypeset document twice.

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