

Dictating L^AT_EX using Mathfly

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1 Introduction

All of these commands can be modified or added to by editing “config/latex.toml” or using the voice command “configure latex”.

2 Bibliography management

Once you have added the location of your .bib file (using regular slashes) to your LaTeX config file, Mathfly includes a number of commands to make bibliography management easy:

Insert my (bib resource — bibliography)	<code>\addbibresource{your.bibliography.bib}</code>
Add paper to bibliography	Searches google scholar for the highlighted text (paper title), appends the first resulting bib-TeX citation to your bibliography file and adds the tag to the clipboard, ready to be pasted into a document.
Add book to bibliography	Same as above, but searches goodreads instead.

3 Document classes

Prefixed by "document class", these commands produce for example "`\documentclass{article}`"

article	article
beamer	beamer
book	book
letter	letter
proceedings	proc
report	report

4 Packages

Prefixed by "use package", these commands produce for example "`\usepackage{geometry}`". The second column represents additional arguments.

AMS math		AMS math
bib latex	[style=authoryear]	biblatex
colour		color
geometry		geometry
hyper ref		hyperref
graphic X		graphicx
math tools		mathtools
multi col		multicol
long table		longtable
tabular X		tabularx
X color		xcolor
wrap figure		wrapfig

5 Environments

Prefixed by "begin", these commands produce for example
`"\begin{abstract}`

`\end{abstract}"`.

The third column represents additional arguments.

abstract	abstract	
add margin	addmargin	
center	center	
columns	columns	
description	description	
document	document	
(enumerate — numbered list)	enumerate	
equation	equation	
figure	figure	[h!]
flush left	flushleft	
flush right	flushright	
frame	frame	
(list — itemise)	itemize	
mini page	minipage	
multi (cols — columns)	multicols	{2}
quotation	quotation	
quote	quote	
table	table	[h!]
long table	longtable	{lll}
tabular	tabular	{llll}
tabular X	tabular X	{l X}
title page	titlepage	
verbatim	verbatim	
verse	verse	
wrap figure	wrapfigure	

6 Commands

All of these commands are prefixed with "insert".

6.1 With arguments

These commands finish in a set of curly brackets, ready for an argument, for example “\author {}”

author	author
[add] bib resource	addbibresource
caption	caption
chapter	chapter
frame title	frametitle
footnote	footnote
footnote text	footnotetext[]
graphics path	graphicspath
[include] graphics	includegraphics[width=1\textwidth]
label	label
new command	newcommand{}[]
paragraph	paragraph
paren cite	parencite
part	part
reference	ref
renew command	renewcommand
sub paragraph	subparagraph
(section — heading)	section
sub (section — heading)	subsection
sub sub (section — heading)	subsubsection
text cite	textcite
[text] bold	textbf
[text] italics	textit
[text] slanted	textsl
title	title
use theme	usetheme

6.2 No arguments

For example “\linebreak”.

centering	centering
column	column{0.5\textwidth}
footnote mark	footnotemark[]
horizontal line	hline
line break	linebreak
item	item

make title	maketitle
new page	newpage
no indent	noindent
page break	pagebreak
print bibliography	printbibliography
table of contents	tableofcontents
text backslash	textbackslash
text width	textwidth
vertical line	vline

7 Greek letters

Prefixed by “greek”.

alpha	α	
beater	β	
gamma	γ	Γ
delta	δ	Δ
epsilon	ε	
zita	ζ	
eater	η	
theta	θ	Θ
iota	ι	
kappa	κ	
lambda	λ	Λ
mu	μ	
new	ν	
zee	ξ	Ξ
pie	π	Π
row	ρ	
sigma	σ	Σ
tau	τ	
upsilon	υ	Υ
phi	ϕ	Φ
chi	χ	
sigh	ψ	Ψ
omega	ω	Ω

8 Mathematical symbols

Prefixed with “symbol”.

square root	\sqrt{a}
[generic] root	$\sqrt[n]{a}$
integral	\int
double integral	\iint
triple integral	\iiint
infinity	∞
times	\times
divide	\div
intersection	\cap
union	\cup
stop	\cdot
sum	\sum
product	\prod
(direct sum — oh plus)	\oplus
(large direct sum — large oh plus)	\bigoplus
plus or minus	\pm
partial	∂
fraction	$\frac{a}{b}$
binomial	$\binom{a}{b}$
sine	\sin
cosine	\cos
tangent	\tan
secant	\sec
cosecant	\csc
cotangent	\cot
arc sine	\arcsin
arc cosine	\arccos
arc tan	\arctan
hyperbolic sine	\sinh
hyperbolic cosine	\cosh
hyperbolic cotangent	\coth
hyperbolic tangent	\tanh
argument	\arg
modulus	\bmod
degree	\deg
determinant	\det
dimension	\dim

exp	exp
GCD	gcd
cat hom	hom
kernel	ker
infimum	inf
supremum	sup
limit	lim
liminf	lim inf
(natural (log — logarithm) — log natural)	ln
logarithm	log
max	max
min	min
probability	Pr
[is] not equal [to]	\neq
[is] greater [than] [or] equal [to]	\geq
[is] less [than] [or] equal [to]	\leq
[is] approximately [equal] [to]	\approx
proportional [to]	\propto
preference less [than]	\prec
preference less equals	\preceq
preference greater [than]	\succ
preference greater equals	\succeq
subset	\subset
superset	\supset
strict subset	\subsetneq
strict superset	\supsetneq
member	\in
(and—logic and)	\wedge
logic or	\vee
primer	$'$
logic not	\neg
for all	\forall
there exists	\exists
real numbers	\mathbb{R}
complex numbers	\mathbb{C}
integer numbers	\mathbb{Z}
rational numbers	\mathbb{Q}
natural numbers	\mathbb{N}
left arrow	\leftarrow
right arrow	\rightarrow
up arrow	\uparrow

down arrow	\downarrow
left right arrow	\leftrightarrow
left	$($
right	$)$
parens	$()$
dot dot dot	\dots
diagonal dots	\ddots
horizontal dots	\cdots
vertical dots	\vdots