Dictating LaTeX using Mathfly

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Contents

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 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

3 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
X color		xcolor
wrap figure		wrapfig

4 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
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}
title page	titlepage	
verbatim	verbatim	
verse	verse	
wrap figure	wrapfigure	

5 Commands

All of these commands are prefixed with "insert".

5.1 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

5.2 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

6 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

7 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	$.$
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	$\mod$
degree	$\deg$
determinant	$\det$
dimension	$\dim$
exp	$\exp$
GCD	$\gcd$
cat hom	$\hom$
kernel	$\ker$
infimum	$\inf$
supremum	$\sup$
limit	$\lim$
liminf	$\liminf$
(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	$\in$
(land—logic and)	$\wedge$
logic or	$\vee$
primer	$\prime$
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	$\ldots$
diagonal dots	$\ddots$
horizontal dots	$\cdots$
vertical dots	$\vdots$