

latex-math Macros

compiled: 2021-10-17

Latex macros like `\frac{#1}{#2}` with arguments are displayed as $\frac{\#1}{\#2}$.

Contents

basic-math

2

basic-math

Macro	Notation	Comment
<code>\N</code>	\mathbb{N}	
<code>\Z</code>	\mathbb{Z}	Z, integers
<code>\Q</code>	\mathbb{Q}	Q, rationals
<code>\R</code>	\mathbb{R}	R, reals
<code>\C</code>	\mathbb{C}	
<code>\continuous</code>	\mathcal{C}	C, space of continuous functions
<code>\M</code>	\mathcal{M}	machine numbers
<code>\epsm</code>	ϵ_m	maximum error
<code>\xt</code>	\tilde{x}	x tilde
<code>\sign</code>	sign	sign, signum
<code>\I</code>	\mathbb{I}	I, indicator
<code>\Ind</code>	$\mathbb{1}$	1, indicator
<code>\order</code>	\mathcal{O}	O, order
<code>\fp</code>	$\frac{\partial \#1}{\partial \#2}$	partial derivative
<code>\pd</code>	$\frac{\partial \#1}{\partial \#2}$	partial derivative
<code>\sumin</code>	$\sum_{i=1}^n$	summation from i=1 to n
<code>\sumjp</code>	$\sum_{j=1}^p$	summation from j=1 to p
<code>\sumik</code>	$\sum_{i=1}^k$	summation from i=1 to k
<code>\sumkg</code>	$\sum_{k=1}^g$	summation from k=1 to g
<code>\sumjg</code>	$\sum_{j=1}^g$	summation from j=1 to g
<code>\meanin</code>	$\frac{1}{n} \sum_{i=1}^n$	mean from i=1 to n
<code>\meankg</code>	$\frac{1}{g} \sum_{k=1}^g$	mean from k=1 to g
<code>\prodin</code>	$\prod_{i=1}^n$	product from i=1 to n
<code>\prodkg</code>	$\prod_{k=1}^g$	product from k=1 to g
<code>\prodjp</code>	$\prod_{j=1}^p$	product from j=1 to p
<code>\one</code>	$\mathbf{1}$	1, unitvector
<code>\zero</code>	$\mathbf{0}$	0-vector
<code>\id</code>	\mathbf{I}	I, identity
<code>\diag</code>	diag	diag, diagonal
<code>\trace</code>	tr	tr, trace
<code>\spn</code>	span	span
<code>\scp</code>	$\langle \#1, \#2 \rangle$	<.,.>, scalarproduct
<code>\Amat</code>	\mathbf{A}	matrix A
<code>\xv</code>	\mathbf{x}	vector x (bold)
<code>\xtil</code>	$\tilde{\mathbf{x}}$	vector x-tilde (bold)
<code>\xb</code>	\mathbf{x}	WE SHOULD NOT USE THIS
<code>\yv</code>	\mathbf{y}	vector y (bold)
<code>\Deltab</code>	Δ	error term for vectors
<code>\E</code>	E	E, expectation
<code>\var</code>	Var	Var, variance
<code>\cov</code>	Cov	Cov, covariance

<code>\corr</code>	Corr	Corr, correlation
<code>\normal</code>	\mathcal{N}	N of the normal distribution
<code>\iid</code>	$\overset{i.i.d}{\sim}$	dist with i.i.d superscript
<code>\distas</code>	$\overset{\#1}{\sim}$... is distributed as ...
<code>\ind</code>	\perp	$_ _$, ... is independent of ...
