

Arithmetic Operators		Radicals	
$x + y$	$x + y$	$\text{sqrt}(x)$	\sqrt{x}
$x - y$	$x - y$	$\text{sqrt}(x, y)$	$\sqrt[y]{x}$
$x * y$	xy	Relations	
x/y	x/y	$x == y$	$x = y$
$x \%+-\% y$	$x \pm y$	$x != y$	$x \neq y$
$x\%/\%y$	$x \div y$	$x < y$	$x < y$
$x \%*\% y$	$x \times y$	$x <= y$	$x \leq y$
$x \%. \% y$	$x \cdot y$	$x > y$	$x > y$
$-x$	$-x$	$x >= y$	$x \geq y$
$+x$	$+x$	$x \% \sim \sim \% y$	$x \approx y$
Sub/Superscripts		$x \% \sim \% y$	$x \equiv y$
$x[i]$	x_i	$x \% == \% y$	$x \equiv y$
x^2	x^2	$x \% \text{prop} \% y$	$x \propto y$
Juxtaposition		Typeface	
$x * y$	xy	$\text{plain}(x)$	x
$\text{paste}(x, y, z)$	xyz	$\text{italic}(x)$	x
Lists		$\text{bold}(x)$	x
$\text{list}(x, y, z)$	x, y, z	$\text{bolditalic}(x)$	x
		$\text{underline}(x)$	<u>x</u>

Ellipsis		Arrows	
list(x[1], ..., x[n])	x_1, \dots, x_n	x %<->% y	$x \leftrightarrow y$
x[1] + ... + x[n]	$x_1 + \cdots + x_n$	x %>-% y	$x \rightarrow y$
list(x[1], cdots, x[n])	x_1, \cdots, x_n	x %<-% y	$x \leftarrow y$
x[1] + ldots + x[n]	$x_1 + \dots + x_n$	x %up% y	$x \uparrow y$
Set Relations		x %down% y	$x \downarrow y$
x %subset% y	$x \subset y$	x %<=>% y	$x \Leftrightarrow y$
x %subsetq% y	$x \subseteq y$	x %=>% y	$x \Rightarrow y$
x %supset% y	$x \supset y$	x %<=% y	$x \Leftarrow y$
x %supsetq% y	$x \supseteq y$	x %dblup% y	$x \Uparrow y$
x %notsubset% y	$x \not\subset y$	x %dbldown% y	$x \Downarrow y$
x %in% y	$x \in y$	Symbolic Names	
x %notin% y	$x \notin y$	Alpha – Omega	$\Lambda - \Omega$
Accents		alpha – omega	$\alpha - \omega$
hat(x)	\hat{x}	phi1 + sigma1	$\varphi + \varsigma$
tilde(x)	\tilde{x}	Upsilon1	Υ
ring(x)	\mathring{x}	infinity	∞
bar(xy)	\overline{xy}	32 * degree	32°
widehat(xy)	\widehat{xy}	60 * minute	$60'$
widetilde(xy)	\widetilde{xy}	30 * second	$30''$

Style	
<code>displaystyle(x)</code>	x
<code>textstyle(x)</code>	x
<code>scriptstyle(x)</code>	x
<code>scriptscriptstyle(x)</code>	x
Spacing	
<code>x ~ ~y</code>	$x \quad y$

<code>x + phantom(0) + y</code>	$x+ \quad +y$
<code>x + over(1, phantom(0))</code>	$x+\overset{1}{-}$
Fractions	
<code>frac(x, y)</code>	$\frac{x}{y}$
<code>over(x, y)</code>	$\frac{x}{y}$
<code>atop(x, y)</code>	$\frac{x}{y}$

Big Operators	
<code>sum(x[i], i = 1, n)</code>	$\sum_1^n x_i$
<code>prod(plain(P)(X == x), x)</code>	$\prod_x P(X = x)$
<code>integral(f(x) * dx, a, b)</code>	$\int_a^b f(x) dx$
<code>union(A[i], i == 1, n)</code>	$\bigcup_{i=1}^n A_i$
<code>intersect(A[i], i == 1, n)</code>	$\bigcap_{i=1}^n A_i$
<code>lim(f(x), x %-->% 0)</code>	$\lim_{x \rightarrow 0} f(x)$
<code>min(g(x), x >= 0)</code>	$\min_{x \geq 0} g(x)$
<code>inf(S)</code>	$\inf S$
<code>sup(S)</code>	$\sup S$

Grouping	
$(x + y) * z$	$(x + y)z$
$x^y + z$	$x^y + z$
$x^{(y + z)}$	$x^{(y+z)}$
$x^{\{y + z\}}$	x^{y+z}
<code>group("(", list(a, b), ""])</code>	$(a, b]$
<code>bgroup("(", atop(x, y), ")")</code>	$\begin{pmatrix} x \\ y \end{pmatrix}$
<code>group(lceil, x, rceil)</code>	$\lceil x \rceil$
<code>group(lfloor, x, rfloor)</code>	$\lfloor x \rfloor$
<code>group(" ", x, " ")</code>	$ x $