Symbols & Logical Syntax in LaTeX

Lewis Britton

Greek & Hebrew Alphabetical Letters

A, α	`\Alpha, \alpha`	I, ι	`\Iota, \iota`	P, ρ, ϱ	`\Rho, \rho, \varrho`	$\digamma$	`\digamma`
B, β	`\Beta, \beta`	K, κ, $\varkappa$	`\Kappa, \kappa, \varkappa`	Σ, σ, ς	`\Sigma, \sigma, \varsigma`	$\aleph$	`\aleph`
Γ, γ	`\Gamma, \gamma`	Λ, λ	`\Lambda, \lambda`	T, τ	`\Tau, \tau`	$\beth$	`\beth`
Δ, δ	`\Delta, \delta`	M, μ	`\Mu, \mu`	Υ, υ	`\Upsilon, \upsilon`	$\daleth$	`\daleth`
E, ϵ, ε	`\Epsilon, \epsilon, \varepsilon`	N, ν	`\Nu, \nu`	Φ, ϕ, φ	`\Phi, \phi, \varphi`	$\gimel$	`\gimel`
Z, ζ	`\Zeta, \zeta`	Ξ, ξ	`\Xi, \xi`	X, χ,	`\Chi, \chi`		
H, η	`\Eta, \eta`	O, o	`\Omicron, \omicron`	Ψ, ψ	`\Psi, \psi`		
Θ, θ, ϑ	`\Theta, \theta, \vartheta`	Π, π, ϖ	`\Pi, \pi, \varpi`	Ω, ω	`\Omega, \omega`		

Basic Math Mode Syntax

XYZ xyz	`$XYZ\ xyz$`	XYZ xyz	`$\mathrm{XYZ\ xyz}$`	XYZ xyz	`$\mathit{XYZ\ xyz}$`	**XYZ xyz**	`$\mathbf{XYZ\ xyz}$`
$\mathbb{XYZ}$	`\mathbb{XYZ}`	$\mathcal{XYZ}$	`$\mathcal{XYZ}$`	$\mathfrak{XYZ}$ $\mathfrak{xyz}$	`$\mathfrak{XYZ\ xyz}$`	XYZ xyz	`$\mathtt{XYZ\ xyz}$`

xyz	`$xyz$`	Math spacing	$\sin x \cos y$	`$\sin x\cos y$`	Operator spacing
$x\ y\ z$	`$x\ y\ z$`	Extended spacing	$a\,b\,c\,d$	`$a\,b\mspace{3mu}c\thinspace d$`	3mu (‘thin’) space
$a\:b\:c\:d$	`$a\:b\mspace{4mu}c\medspace d$`	4mu (‘medium’) space	$a\;b\;c\;d$	`$a\;b\mspace{5mu}c\thickspace d$`	5mu (‘thick’) space
$a\quad b\quad c\quad d$	`$a\quad b\mspace{18mu}c\quad d$`	18mu (‘quad’) space	$a\!b\!c\!d$	`$a\!b\mspace{-3mu}c\negthinspace d$`	Neg. 3mu (‘thin’) space
ab	`$a\phantom{xxx}b$`	Width of ‘xxx’			

Math Accents & Constructs

$\hat{x}$	`\hat{x}`	$\check{x}$	`$\check{x}$`	$\tilde{x}$	`$\tilde{x}$`	$\acute{x}$	`$\acute{x}$`	$\grave{x}$	`$\grave{x}$`
$\dot{x}$	`$\dot{x}$`	$\ddot{x}$	`$\ddot{x}$`	$\breve{x}$	`$\breve{x}$`	$\bar{x}$	`$\bar{x}$`	$\vec{x}$	`$\vec{x}$`
$\widehat{xyz}$	`$\widehat{xyz}$`	$\widetilde{xyz}$	`$\widetilde{xyz}$`	$\frac{abc}{xyz}$	`\frac{abc}{xyz}`	$f,\ f'$	`$f,\ f'$`	$\sqrt{x}$	`$\sqrt{x}$`
$\sqrt[n]{x}$	`$\sqrt[n]{x}$`	$\overline{xyz}$	`$\overline{xyz}$`	$\underline{xyz}$	`$\underline{xyz}$`	$\overbrace{xyz}$	`$\overbrace{xyz}$`	$\underbrace{xyz}$	`$\underbrace{xyz}$`
$\overrightarrow{xyz}$	`$\overrightarrow{xyz}$`	$\overleftarrow{xyz}$	`$\overleftarrow{xyz}$`						