









Archer Reilly



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ALL HOME LINUX DATALAB PROGRAMMING



Writing Mathematic

2015-03-20

Fomulars in Markdown

• Markdown

• latex

• mathematic

• Li nux

• Latex

• Markdown

In this post, I am gonna show you how to write Mathematic symbols in markdown. since I am writing blog post that hosted by [Github](#) with Editor [Atom](#), and use plugin [markdown-preview-plus](#) and [mathjax-wrapper](#), and use [mathjax](#) Javascript display the math symbols on the web page.

I am not gonna to tell you how to make all these things work together, if you want to do what I am do, please take a little time and search around.

Most import, this post is showing you the basics about math symbols in [Latex](#).

This what wikipedia said about Latex:

One of the greatest motivating forces for Donald Knuth when he began developing the original TeX system was to create something that allowed simple construction of mathematical formulas, while looking professional when printed.

Here are some symbols I typed during the learning.

Greek Letters

Symbol	Script
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Fuck me on GayHub

http://csrgxtu.github.io/2015/03/20/Writing-Mathematic-Fomulars-in-Markdown/[2018-08-13 18:04:48]

$\alpha$	<code>\alpha</code>
$A$	<code>A</code>
$\beta$	<code>\beta</code>
$B$	<code>B</code>
$\gamma$	<code>\gamma</code>
$\Gamma$	<code>\Gamma</code>
$\pi$	<code>\pi</code>
$\Pi$	<code>\Pi</code>
$\phi$	<code>\phi</code>
$\Phi$	<code>\Phi</code>
$\varphi$	<code>\varphi</code>
$\theta$	<code>\theta</code>

Operators

Symbol	Script
$\cos$	<code>\cos</code>
$\sin$	<code>\sin</code>
$\lim$	<code>\lim</code>
$\exp$	<code>\exp</code>
$\rightarrow$	<code>\to</code>
$\infty$	<code>\infty</code>
$\equiv$	<code>\equiv</code>
$\bmod$	<code>\bmod</code>
$\times$	<code>\times</code>

Power and Indices

Symbol	Script
$k_{n+1}$	<code>k_{n+1}</code>
$n^2$	<code>n^2</code>
$^2$	<code>k_n^2</code>

$k_n$	
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Fractions and Binomials

Symbol	Script
$\frac{n!}{k!(n-k)!}$	<code>\frac{n!}{k!(n-k)!}</code>
$\binom{n}{k}$	<code>\binom{n}{k}</code>
$\frac{\frac{x}{1}}{x-y}$	<code>\frac{\frac{x}{1}}{x - y}</code>
$^3/_7$	<code>^3/_7</code>

Roots

Symbol	Script
$\sqrt{k}$	<code>\sqrt{k}</code>
$\sqrt[n]{k}$	<code>\sqrt[n]{k}</code>

Sums and Integrals

Symbol	Script
$\sum_{i=1}^{10} t_i$	<code>\sum_{i=1}^{10} t_i</code>
$\int_0^\infty e^{-x} \, dx$	<code>\int_0^\infty \mathrm{e}^{-x}\,,\mathrm{d}x</code>
$\sum$	<code>\sum</code>
$\prod$	<code>\prod</code>
$\coprod$	<code>\coprod</code>
$\oplus$	<code>\bigoplus</code>
$\otimes$	<code>\bigotimes</code>
$\odot$	<code>\bigodot</code>
$\bigcup$	<code>\bigcup</code>
$\bigcap$	<code>\bigcap</code>
$\biguplus$	<code>\biguplus</code>
$\bigsqcup$	<code>\bigsqcup</code>
$\bigvee$	<code>\bigvee</code>
$\bigwedge$	<code>\bigwedge</code>

$\int$	<code>\int</code>
$\oint$	<code>\oint</code>
$\iint$	<code>\iint</code>
$\iiint$	<code>\iiint</code>
$\int \dots \int$	<code>\idotsint</code>
$\sum_{0 < i < m \textcolor{red}{0} < j < n} P(i, j)$	<code>\sum_{\substack{0 &lt; i &lt; m \\ 0 &lt; j &lt; n}} P(i, j)</code>
$\int_a^b$	<code>\int\limits_a^b</code>

Symbol	Script
$a' a'$	<code>a` a^{\prime}</code>
$a''$	<code>a''</code>
$\hat{a}$	<code>hat{a}</code>
$\bar{a}$	<code>\bar{a}</code>
$\grave{a}$	<code>\grave{a}</code>
$\acute{a}$	<code>\acute{a}</code>
$\dot{a}$	<code>\dot{a}</code>
$\ddot{a}$	<code>\ddot{a}</code>
$/a$	<code>\not{a}</code>
$\mathring{a}$	<code>\mathring{a}</code>
$\overrightarrow{AB}$	<code>\overrightarrow{AB}</code>
$\overleftarrow{AB}$	<code>\overleftarrow{AB}</code>
$a'''$	<code>a'''</code>
$\overline{aaa}$	<code>\overline{aaa}</code>
$\check{a}$	<code>\check{a}</code>
$\vec{a}$	<code>\vec{a}</code>
$\underline{a}$	<code>\underline{a}</code>
$\textcolor{red}{x}$	<code>\color{red}x</code>
$\pm$	<code>\pm</code>
$\mp$	<code>\mp</code>

$\int y dx$	<code>\int y \mathrm{d}x</code>
	<code>\,</code>
	<code>\:</code>
	<code>\;</code>
$!$	<code>!</code>
$\int y \, dx$	<code>\int y\,, \mathrm{d}x</code>
$\dots$	<code>\dots</code>
$\ldots$	<code>\ldots</code>
$\cdots$	<code>\cdots</code>
$\vdots$	<code>\vdots</code>
$\ddots$	<code>\ddots</code>

Brackets etc

Symbol	Script
$(a)$	<code>(a)</code>
$[a]$	<code>[a]</code>
$a$	<code>{a}</code>
$\langle f \rangle$	<code>\angle f \rangle</code>
$\lfloor f \rfloor$	<code>\lfloor f \rfloor</code>
$\lceil f \rceil$	<code>\lceil f \rceil</code>
$\ulcorner f \urcorner$	<code>\ulcorner f \urcorner</code>

Reference

- [Atom](#) - Atom editor for hackers
- [markdown-preview-plus](#) - preview your markdown in atom
- [mathjax-wrapper](#) - display math symbols in atom
- [mathjax](#) - Javascript lib for browsers
- [Latex](#) - Latex Homepage
- [Wiki Latex Mathematics](#) - introduction to math symbols in latex

[Github tables](#) - Github Flavored Markdown

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