

Lii STEM Input Method Cheatsheet

November 28, 2025

Lii STEM (<https://liistem.cn/>) is a WYSIWYG editor that can speed up your mathematical writing by 10x. See Quick formula editing for more details. This is a pdf version cheatsheet of the keys available in Lii STEM Input Method.

*Unlike the shortcut hints inside Lii STEM. We distinguish the capital and noncapital letters in this cheatsheet; For example, **J** and **j** are different. We also use **↑j** to replace **J** where **↑** represents the Shift key.*

*When no plus sign is shown between different keyboard keys, it means they should be pressed in sequence. Alternatively, a plus sign between them means they should be pressed at the same time. For modifier keys (and their combination such as **ctrl↑**, **↑**, **ctrl**, **alt** (Windows) or **option** (Mac), and **cmd** (Mac)), the plus sign after them means to hold down the modifier key while pressing the next key. For example **ctrl+f1** means to hold down the **ctrl** key and press the **f** key and then press **1** in sequence.*

*All **tab** keys represents tab variant. For example, to insert ∇ , press **↑v** and press **tab** twice. To insert Φ , press **↑v** and press **tab** once. In the rest of this tutorial, we do specify the exact number of **tab** we used, i.e., the keyboard expression for both ∇ and Φ is **shift v tab**.*

Windows	Mac	Equivalent in \LaTeX
Environmental Shortcuts		
space tab	space tab	Non-breaking space (<code>\nbsp</code> or <code>\sim</code>)
ctrl+t	\	\indent
ctrl+l	\	\raggedleft
ctrl+e	\	\centering
ctrl+r	\	\raggedright
alt+1	option+1	\section
alt+2	option+2	\subsection
alt+3	option+3	\subsubsection
alt+4	option+4	\paragraph
alt+5	option+5	\ subparagraph
alt+6	option+6	\ appendix
+ tab	+ tab	\ itemize
1.tab	1.tab	\ enumerate
\$	\$	inline math mode
alt+\$	option+\$	single-line math mode
alt+&	option+&	multi-line math: eqnarray
ctrl+\$	ctrl+\$	multi-line math: align

(continued next page)

⌚ (from previous page)

Windows	Mac	Equivalent in \LaTeX
ctrl+ #	ctrl+ #	add equation number
alt+ arrow	option+ arrow	add new row/column in matrix/table/choice/stack
ctrl↑+ f	ctrl↑+ f	add footnote
ctrl+ n	cmd+ n	add new script
ctrl+ p	cmd+ p	export to PDF
Common Constructs		
x^2	x^2	x^2 (x^2)
x_i,j	x_i,j	$x_{i,j}$ ($x_{i,j}$)
alt+ s 2	option+ s 2	$\sqrt{2}$ ($\sqrt{2}$)
alt+ s tab 3 ← ← n	option+ s tab 3 ← ← n	$\sqrt[3]{n}$ ($\sqrt[3]{n}$)
alt+ f	option+ f	$\frac{2}{3}$ ($\frac{2}{3}$)
Font		
A A	A A	Background \mathbb{A} (\mathbb{A})
F7 A or A A tab	F7 A or A A tab	Calligraphic \mathcal{A} (\mathcal{A})
F8 A or A A tab	F8 A or A A tab	Gothic \mathfrak{A} (\mathfrak{A})
ctrl+ b A or A A tab	cmd+ b A or A A tab	Bold \mathbf{A} (\mathbf{A})
ctrl+ i A	cmd+ i A	Italic A (A)
Greek Letters		
a tab	atab	α (α)
b tab	b tab	β (β)
g tab , G tab	g tab , G tab	γ (γ), Γ (Γ)
d tab , D tab	d tab , D tab	δ (δ), Δ (Δ)
e tab	e tab	ϵ (ϵ)
e tab	e tab	ε (ε)
z tab	z tab	ζ (ζ)
h tab	h tab	η (η)
j tab , J tab	j tab , J tab	θ (θ), Θ (Θ)
j tab	j tab	ϑ (ϑ)

(continued next page)

⌚ (from previous page)

Windows GNU/Linux	Mac	Equivalent in L ^E T _X
i tab	i tab	ι (\iotaota)
k tab	k tab	κ (\kappaappa)
l tab, L tab	l tab, L tab	λ (\lambda), Λ (\Lambda)
m tab	m tab	μ (\mu)
n tab	n tab	ν (\nu)
x tab, X tab	x tab, X tab	ξ (\xi), Ξ (\Xi)
p tab, P tab	p tab, P tab	π (\pi), Π (\Pi)
p tab	p tab	ϖ (\varpi)
r tab	r tab	ρ (\rho)
r tab	r tab	ϱ (\varrho)
s tab, S tab	s tab, S tab	σ (\sigma), Σ (\Sigma)
s tab	s tab	ς (\varsigma)
t tab	t tab	τ (\tau)
u tab, U tab	u tab, U tab	υ (\upsilon), Υ (\Upsilon)
f tab, F tab	f tab, F tab	ϕ (\phi), Φ (\Phi)
f tab	f tab	φ (\varphi)
q tab	q tab	χ (\chi)
y tab, Y tab	y tab, Y tab	ψ (\psi), Ψ (\Psi)
w tab, W tab	w tab, W tab	ω (\omega), Ω (\Omega)
Sets and Logic		
% tab	% tab	\cup (\cup)
& tab	& tab	\cap (\cap)
< tab	< tab	\subset (\subset)
< tab =	< tab =	\subseteq (\subseteq)
> tab	> tab	\supset (\supset)
> tab =	> tab =	\supseteq (\supseteq)
< tab	< tab	\in (\in)
> tab	> tab	\ni (\ni)

(continued next page) ↗

⌚ (from previous page)

Windows GNU/Linux	Mac	Equivalent in L ^E T _X
< tab /	< tab /	\notin (\notin)
R R	R R	\mathbb{R} (\mathbb{R})
Z Z	Z Z	\mathbb{Z} (\mathbb{Z})
Q Q	Q Q	\mathbb{Q} (\mathbb{Q})
N N	N N	\mathbb{N} (\mathbb{N})
C C	C C	\mathbb{C} (\mathbb{C})
@ /	@ /	\emptyset (\varnothing)
A tab	A tab	\aleph (\aleph)
= tab	= tab	\equiv (\equiv)
A tab	A tab	\forall (\forall)
F tab	F tab	\exists (\exists)
! tab	! tab	\neg (\neg)
%	%	\vee (\vee)
&	&	\wedge (\wedge)
tab -	tab + -	\vdash (\vdash)
+ tab =	tab =	\models (\models)
= >	= >	\Rightarrow (\Rightarrow)
= > /	= > /	\nRightarrow (\nRightarrow)
Decorations		
alt + ⋅ A	option + ⋅ A	\dot{A} (\dot{A})
alt + " A	option + " A	\ddot{A} (\ddot{A})
alt + ⌂ + ⋅ A	option + ⌂ + ⋅ A	vertical two dots
alt + " tab A	option + " tab A	horizontal three dots
alt + " tab A	option + " tab A	horizontal four dots
alt + ^ A	option + ^ A	\hat{A} (\hat{A})
alt + ~ A	option + ~ A	\tilde{A} (\tilde{A})
alt ⌄ + b A	option ⌄ + b A	\bar{A} (\bar{A})
alt ⌄ - A	option ⌄ - A	\overline{A} (\overline{A})

(continued next page) ↗

⌚ (from previous page)

Windows	GNU/Linux	Mac	Equivalent in L ^A T _E X
<code>ctrl + u A</code>	<code>ctrl + u A</code>	<code>ctrl + u A</code>	\underline{A} (<code>\underline{A}</code>)
<code>alt ↑ + v A</code>	<code>option ↑ + v A</code>	<code>option ↑ + v A</code>	\vec{A} (<code>\vec{A}</code>)
<code>alt ↑ + c A</code>	<code>option ↑ + c A</code>	<code>option ↑ + c A</code>	\check{A} (<code>\check{A}</code>)
<code>alt ↑ + u A</code>	<code>option ↑ + u A</code>	<code>option ↑ + u A</code>	\breve{A} (<code>\breve{A}</code>)
<code>alt ↑ A A</code>	<code>option ↑ A A</code>	<code>option ↑ A A</code>	inverted breve
<code>alt + ` A</code>	<code>option + ` A</code>	<code>option + ` A</code>	\acute{A} (<code>\acute{A}</code>)
<code>alt + @ A</code>	<code>option + @ A</code>	<code>option + @ A</code>	\mathring{A} (<code>\mathring{A}</code>)
Dots			
<code>..</code>	<code>..</code>	<code>..</code>	\dots (<code>\ldots</code>)
<code>.. tab</code>	<code>.. tab</code>	<code>.. tab</code>	\cdots (<code>\cdots</code>)
<code>.. tab</code>	<code>.. tab</code>	<code>.. tab</code>	high dots
<code>.. tab</code>	<code>.. tab</code>	<code>.. tab</code>	\vdots (<code>\vdots</code>)
<code>.. tab</code>	<code>.. tab</code>	<code>.. tab</code>	\ddots (<code>\ddots</code>)
<code>.. tab</code>	<code>.. tab</code>	<code>.. tab</code>	back-diagonal dots
Other Symbols			
<code>< = tab</code>	<code>< = tab</code>	<code>< = tab</code>	\leq (<code>\leq</code>)
<code>> = tab</code>	<code>> = tab</code>	<code>> = tab</code>	\geq (<code>\geq</code>)
<code>= \</code>	<code>= \</code>	<code>= \</code>	\neq (<code>\neq</code>)
<code><<</code>	<code><<</code>	<code><<</code>	\ll (<code>\ll</code>)
<code>>></code>	<code>>></code>	<code>>></code>	\gg (<code>\gg</code>)
<code>~~</code>	<code>~~</code>	<code>~~</code>	\approx (<code>\approx</code>)
<code>= tab</code>	<code>= tab</code>	<code>= tab</code>	\asymp (<code>\asymp</code>)
<code>< tab</code>	<code>< tab</code>	<code>< tab</code>	\prec (<code>\prec</code>)
<code>< tab = tab</code>	<code>< tab = tab</code>	<code>< tab = tab</code>	\preceq (<code>\preceq</code>)
<code>> tab</code>	<code>> tab</code>	<code>> tab</code>	\succ (<code>\succ</code>)
<code>> tab = tab</code>	<code>> tab = tab</code>	<code>> tab = tab</code>	\succeq (<code>\succeq</code>)
<code>@@ tab</code>	<code>@@ tab</code>	<code>@@ tab</code>	\propto (<code>\propto</code>)
<code>. =</code>	<code>. =</code>	<code>. =</code>	\doteq (<code>\doteq</code>)

(continued next page)

⌚ (from previous page)

Windows	GNU/Linux	Mac	Equivalent in L ^A T _E X
<code>@ tab</code>	<code>@ tab</code>	<code>@ tab</code>	\angle (<code>\angle</code>)
<code>l tab</code>	<code>l tab</code>	<code>l tab</code>	ℓ (<code>\ell</code>)
<code>↑ F5 B</code>	<code>↑ F5 B</code>	<code>↑ F5 B</code>	\parallel (<code>\parallel</code>)
<code>~ =</code>	<code>~ =</code>	<code>~ =</code>	\cong (<code>\cong</code>)
<code>~ = /</code>	<code>~ = /</code>	<code>~ = /</code>	$\not\cong$ (<code>\not\cong</code>)
<code>~</code>	<code>~</code>	<code>~</code>	\sim (<code>\sim</code>)
<code>~ -</code>	<code>~ -</code>	<code>~ -</code>	\simeq (<code>\simeq</code>)
<code>~ /</code>	<code>~ /</code>	<code>~ /</code>	\nsim (<code>\nsim</code>)
<code>@ +</code>	<code>@ +</code>	<code>@ +</code>	\oplus (<code>\oplus</code>)
<code>@ -</code>	<code>@ -</code>	<code>@ -</code>	\ominus (<code>\ominus</code>)
<code>@ .</code>	<code>@ .</code>	<code>@ .</code>	\odot (<code>\odot</code>)
<code>@ *</code>	<code>@ *</code>	<code>@ *</code>	\otimes (<code>\otimes</code>)
<code>@ /</code>	<code>@ /</code>	<code>@ /</code>	\oslash (<code>\oslash</code>)
<code>/ - tab</code>	<code>/ - tab</code>	<code>/ - tab</code>	\upharpoonright (<code>\upharpoonright</code>)
<code>. tab</code>	<code>* tab</code>	<code>* tab</code>	\cdot (<code>\cdot</code>)
<code>+ -</code>	<code>+ -</code>	<code>+ -</code>	\pm (<code>\pm</code>)
<code>- +</code>	<code>- +</code>	<code>- +</code>	\mp (<code>\mp</code>)
<code>* tab</code>	<code>* tab</code>	<code>* tab</code>	\times (<code>\times</code>)
<code>/ tab</code>	<code>/ tab</code>	<code>/ tab</code>	\div (<code>\div</code>)
<code>* tab</code>	<code>* tab</code>	<code>* tab</code>	$*$ (<code>\ast</code>)
<code>d tab</code>	<code>d tab</code>	<code>d tab</code>	∂ (<code>\partial</code>)
<code>v tab</code>	<code>v tab</code>	<code>v tab</code>	∇ (<code>\nabla</code>)
<code>@</code>	<code>@</code>	<code>@</code>	\circ (<code>\circ</code>)
<code>* tab</code>	<code>* tab</code>	<code>* tab</code>	\star (<code>\star</code>)
<code>i tab</code>	<code>i tab</code>	<code>i tab</code>	\imath (<code>\imath</code>)
<code>j tab</code>	<code>j tab</code>	<code>j tab</code>	\jmath (<code>\jmath</code>)
<code>h tab</code>	<code>h tab</code>	<code>h tab</code>	\hbar (<code>\hbar</code>)
<code>B tab</code>	<code>B tab</code>	<code>B tab</code>	\beth (<code>\beth</code>)

(continued next page)

⌚ (from previous page)

Windows 	Mac 	Equivalent in 
[G tab]	[G tab]	\gimel
[D tab]	[D tab]	\daleth
[R E]	[R E]	\Re
[W tab]	[W tab]	\mho
[P tab]	[P tab]	\wp
[@ @]	[@ @]	\infty
[T tab]	[T tab]	\top
[T tab]	[T tab]	\bot
[< > tab]	[< > tab]	\clubsuit
[< > tab]	[< > tab]	\diamondsuit
[< > tab]	[< > tab]	\heartsuit
[< > tab]	[< > tab]	\spadesuit
[b tab]	[b tab]	\flat
[# tab]	[# tab]	\natural
[# tab]	[# tab]	\sharp
[@ = tab]	[@ = tab]	\triangleq
[+ tab]	[+ tab]	\dagger

Variable sized operators

[I tab]	[I tab]	\int
[I I tab]	[I I tab]	\iiint
[I I I tab]	[I I I tab]	\iiiiint
[@ I]	[@ I]	\oint
[U tab]	[U tab]	\bigcup
[N tab]	[N tab]	\bigcap

Arrow

[->]	[->]	\rightarrow
[-> /]	[-> /]	\nrightarrow
[-->]	[-->]	\longrightarrow

⌚ (from previous page)

Windows 	Mac 	Equivalent in 
[= >]	[= >]	\Rightarrow
[= > /]	[= > /]	\nRightarrow
[== >]	[== >]	\Longrightarrow
[~ >]	[~ >]	\rightsquigarrow
[->]	[->]	\mapsto
[-->]	[-->]	\longmapsto
[< -]	[< -]	\leftarrow
[< ->]	[< ->]	\leftrightarrow
[< - tab]	[< - tab]	\uparrow
[< - tab]	[< - tab]	\downarrow
[< -> tab]	[< -> tab]	\updownarrow
Fences		
[< tab]	[< tab]	\langle \rangle
[.]	[.]	\lfloor \rfloor
[']	[']	\lceil \rceil
[]	[]	\parallel

(continued next page) ➔