

# 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 **Shift** to replace **J** where **Shift** 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+Shift**) **Shift**, **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  $\nabla$ , press **Shift** and press **tab** twice. To insert  $\Phi$ , press **Shift** 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  $\nabla$  and  $\Phi$  is **shift v tab**.

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

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Windows GNU/Linux	Mac	Equivalent in $\text{\LaTeX}$
<b>ctrl+\$</b>	<b>ctrl+\$</b>	multi-line math: align
<b>ctrl+#+</b>	<b>ctrl+#+</b>	add equation number
<b>alt+arrow</b>	<b>option+arrow</b>	add new row/column in <code>matrix</code> / <code>table</code> / <code>choice</code> / <code>stack</code>
<b>ctrl+Shift+f</b>	<b>ctrl+Shift+f</b>	add footnote
<b>ctrl+n</b>	<b>cmd+n</b>	add new script
<b>ctrl+p</b>	<b>cmd+p</b>	export to PDF
<b>Common Constructs</b>		
<b>x^2</b>	<b>x^2</b>	$x^2$ ( $x^2$ )
<b>x_i,j</b>	<b>x_i,j</b>	$x_{i,j}$ ( $x_{i,j}$ )
<b>alt+s2</b>	<b>option+s2</b>	$\sqrt{2}$ ( $\sqrt{2}$ )
<b>alt+s tab 3 ← ← n</b>	<b>option+s tab 3 ← ← n</b>	$\sqrt[3]{\sqrt[n]{3}}$ ( $\sqrt[3]{\sqrt[n]{3}}$ )
<b>alt+f</b>	<b>option+f</b>	$\frac{2}{3}$ ( $\frac{2}{3}$ )
<b>Font</b>		
<b>A A</b>	<b>A A</b>	Background A ( <code>\mathbb{A}</code> )
<b>F7 A</b> or <b>A A tab</b>	<b>F7 A</b> or <b>A A tab</b>	Calligraphic A ( <code>\mathcal{A}</code> )
<b>F8 A</b> or <b>A A tab</b>	<b>F8 A</b> or <b>A A tab</b>	Gothic A ( <code>\mathfrak{A}</code> )
<b>ctrl+b A</b> or <b>A A tab</b>	<b>cmd+b A</b> or <b>A A tab</b>	Bold A ( <code>\mathbf{A}</code> )
<b>ctrl+i A</b>	<b>cmd+i A</b>	Italic A ( <code>\mathit{A}</code> )
<b>Greek Letters</b>		
<b>a tab</b>	<b>atab</b>	$\alpha$ ( <code>\alpha</code> )
<b>b tab</b>	<b>b tab</b>	$\beta$ ( <code>\beta</code> )
<b>g tab</b> , <b>G tab</b>	<b>g tab</b> , <b>G tab</b>	$\gamma$ ( <code>\gamma</code> ), $\Gamma$ ( <code>\Gamma</code> )
<b>d tab</b> , <b>D tab</b>	<b>d tab</b> , <b>D tab</b>	$\delta$ ( <code>\delta</code> ), $\Delta$ ( <code>\Delta</code> )
<b>e tab</b>	<b>e tab</b>	$\epsilon$ ( <code>\epsilon</code> )
<b>e tab</b>	<b>e tab</b>	$\varepsilon$ ( <code>\varepsilon</code> )
<b>z tab</b>	<b>z tab</b>	$\zeta$ ( <code>\zeta</code> )
<b>h tab</b>	<b>h tab</b>	$\eta$ ( <code>\eta</code> )
<b>j tab</b> , <b>J tab</b>	<b>j tab</b> , <b>J tab</b>	$\theta$ ( <code>\theta</code> ), $\Theta$ ( <code>\Theta</code> )

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Windows GNU/Linux	Mac	Equivalent in $\text{\LaTeX}$
j tab	j tab	$\vartheta (\backslash vartheta)$
i tab	i tab	$\iota (\backslash iota)$
k tab	k tab	$\kappa (\backslash kappa)$
l tab, L tab	l tab, L tab	$\lambda (\backslash lambda), \Lambda (\backslash Lambda)$
m tab	m tab	$\mu (\backslash mu)$
n tab	n tab	$\nu (\backslash nu)$
x tab, X tab	x tab, X tab	$\xi (\backslash xi), \Xi (\backslash Xi)$
p tab, P tab	p tab, P tab	$\pi (\backslash pi), \Pi (\backslash Pi)$
p tab	p tab	$\varpi (\backslash varpi)$
r tab	r tab	$\rho (\backslash rho)$
r tab	r tab	$\varrho (\backslash varrho)$
s tab, S tab	s tab, S tab	$\sigma (\backslash sigma), \Sigma (\backslash Sigma)$
s tab	s tab	$\varsigma (\backslash varsigma)$
t tab	t tab	$\tau (\backslash tau)$
u tab, U tab	u tab, U tab	$v (\backslash upsilon), \Upsilon (\backslash Upsilon)$
f tab, F tab	f tab, F tab	$\phi (\backslash phi), \Phi (\backslash Phi)$
f tab	f tab	$\varphi (\backslash varphi)$
q tab	q tab	$\chi (\$ \backslash chi \$)$
y tab, Y tab	y tab, Y tab	$\psi (\backslash psi), \Psi (\backslash Psi)$
w tab, W tab	w tab, W tab	$\omega (\backslash omega), \Omega (\backslash Omega)$
<b>Sets and Logic</b>		
% tab	% tab	$\cup (\backslash cup)$
& tab	& tab	$\cap (\backslash cap)$
< tab	< tab	$\subset (\backslash subset)$
< tab =	< tab =	$\subseteq (\backslash subseteq)$
> tab	> tab	$\supset (\backslash supset)$
> tab =	> tab =	$\supseteq (\backslash supseteq)$
< tab	< tab	$\in (\backslash in)$

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Windows GNU/Linux	Mac	Equivalent in $\text{\LaTeX}$
> tab	> tab	$\ni (\backslash ni)$
< tab /	< tab /	$\notin (\backslash notin)$
R R	R R	$\mathbb{R} (\backslash mathbb{R})$
Z Z	Z Z	$\mathbb{Z} (\backslash mathbb{Z})$
Q Q	Q Q	$\mathbb{Q} (\backslash mathbb{Q})$
N N	N N	$\mathbb{N} (\backslash mathbb{N})$
C C	C C	$\mathbb{C} (\backslash mathbb{C})$
@ /	@ /	$\emptyset (\backslash varnothing)$
A tab	A tab	$\aleph (\backslash aleph)$
= tab	= tab	$\equiv (\backslash equiv)$
A tab	A tab	$\forall (\backslash forall)$
E tab	E tab	$\exists (\backslash exists)$
! tab	! tab	$\neg (\backslash neg)$
%	%	$\vee (\backslash vee)$
&	&	$\wedge (\backslash wedge)$
I tab -	I tab + -	$\vdash (\backslash vdash)$
I + tab =	I tab =	$\models (\backslash models)$
=>	=>	$\Rightarrow (\backslash Rightarrow)$
=> /	=> /	$\nRightarrow (\backslash nRightarrow)$
<b>Decorations</b>		
alt + A	option + A	$\dot{A} (\backslash dot{A})$
alt + " A	option + " A	$\ddot{A} (\backslash ddot{A})$
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	$\hat{A} (\backslash hat{A})$
alt + ~ A	option + ~ A	$\tilde{A} (\backslash tilde{A})$
alt ↑ + b A	option ↑ + b A	$\bar{A} (\backslash bar{A})$

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Windows GNU/Linux	Mac	Equivalent in $\text{\LaTeX}$
<code>alt + - A</code>	<code>option + - A</code>	$\overline{A} (\backslash overline{A})$
<code>ctrl + u A</code>	<code>ctrl + u A</code>	$\underline{A} (\backslash underline{A})$
<code>alt ↑ + v A</code>	<code>option ↑ + v A</code>	$\vec{A} (\backslash vec{A})$
<code>alt ↑ + c A</code>	<code>option ↑ + c A</code>	$\check{A} (\backslash check{A})$
<code>alt ↑ + u A</code>	<code>option ↑ + u A</code>	$\breve{A} (\backslash breve{A})$
<code>alt ↑ A A</code>	<code>option ↑ A A</code>	inverted breve
<code>alt + ^ A</code>	<code>option + ^ A</code>	$\acute{A} (\backslash acute{A})$
<code>alt + @ A</code>	<code>option + @ A</code>	$\ddot{A} (\backslash mathring{A})$
<b>Dots</b>		
<code>..</code>	<code>..</code>	$\dots (\backslash ldots)$
<code>.. tab</code>	<code>.. tab</code>	$\cdots (\backslash cdots)$
<code>.. tab</code>	<code>.. tab</code>	high dots
<code>.. tab</code>	<code>.. tab</code>	$\vdots (\backslash vdots)$
<code>.. tab</code>	<code>.. tab</code>	$\ddots (\backslash ddots)$
<code>.. tab</code>	<code>.. tab</code>	back-diagonal dots
<b>Other Symbols</b>		
<code>&lt; = tab</code>	<code>&lt; = tab</code>	$\leq (\backslash leq)$
<code>&gt; = tab</code>	<code>&gt; = tab</code>	$\geq (\backslash geq)$
<code>= \</code>	<code>= \</code>	$\neq (\backslash neq)$
<code>&lt;&lt;</code>	<code>&lt;&lt;</code>	$\ll (\backslash ll)$
<code>&gt;&gt;</code>	<code>&gt;&gt;</code>	$\gg (\backslash gg)$
<code>~~</code>	<code>~~</code>	$\approx (\backslash approx)$
<code>= tab</code>	<code>= tab</code>	$\asymp (\backslash asymp)$
<code>&lt; tab</code>	<code>&lt; tab</code>	$\prec (\backslash prec)$
<code>&lt; tab = tab</code>	<code>&lt; tab = tab</code>	$\preceq (\backslash preceq)$
<code>&gt; tab</code>	<code>&gt; tab</code>	$\succ (\backslash succ)$
<code>&gt; tab = tab</code>	<code>&gt; tab = tab</code>	$\succeq (\backslash succeq)$
<code>@@ tab</code>	<code>@@ tab</code>	$\propto (\backslash propto)$

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Windows GNU/Linux	Mac	Equivalent in $\text{\LaTeX}$
<code>. =</code>	<code>. =</code>	$\doteq (\backslash doteq)$
<code>@ tab</code>	<code>@ tab</code>	$\angle (\backslash angle)$
<code>l tab</code>	<code>l tab</code>	$\ell (\backslash ell)$
<code>↑ F5 B</code>	<code>↑ F5 B</code>	$\parallel (\backslash parallel)$
<code>~ =</code>	<code>~ =</code>	$\cong (\backslash cong)$
<code>~ = /</code>	<code>~ = /</code>	$\not\cong (\backslash ncong)$
<code>-</code>	<code>-</code>	$\sim (\backslash sim)$
<code>~ -</code>	<code>~ -</code>	$\simeq (\backslash simeq)$
<code>~ /</code>	<code>~ /</code>	$\nsim (\backslash nsim)$
<code>@ +</code>	<code>@ +</code>	$\oplus (\backslash oplus)$
<code>@ -</code>	<code>@ -</code>	$\ominus (\backslash ominus)$
<code>@ .</code>	<code>@ .</code>	$\odot (\backslash odot)$
<code>@ *</code>	<code>@ *</code>	$\otimes (\backslash otimes)$
<code>@ /</code>	<code>@ /</code>	$\oslash (\backslash oslash)$
<code>/ - tab</code>	<code>/ - tab</code>	$\upharpoonright (\backslash upharpoonright)$
<code>. tab</code>	<code>* tab</code>	$\cdot (\backslash cdot)$
<code>+ -</code>	<code>+ -</code>	$\pm (\backslash pm)$
<code>- +</code>	<code>- +</code>	$\mp (\backslash mp)$
<code>* tab</code>	<code>* tab</code>	$\times (\backslash times)$
<code>/ tab</code>	<code>/ tab</code>	$\div (\backslash div)$
<code>* tab</code>	<code>* tab</code>	$\ast (\backslash ast)$
<code>d tab</code>	<code>d tab</code>	$\partial (\backslash partial)$
<code>v tab</code>	<code>v tab</code>	$\nabla (\backslash nabla)$
<code>@</code>	<code>@</code>	$\circ (\backslash circ)$
<code>* tab</code>	<code>* tab</code>	$\star (\backslash star)$
<code>i tab</code>	<code>i tab</code>	$\imath (\backslash imath)$
<code>j tab</code>	<code>j tab</code>	$\jmath (\backslash jmath)$
<code>h tab</code>	<code>h tab</code>	$\hbar (\backslash hbar)$

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Windows GNU/Linux	Mac	Equivalent in $\text{\LaTeX}$
B tab	B tab	$\beth$ (\beth)
G tab	G tab	$\gimel$ (\gimel)
D tab	D tab	$\daleth$ (\daleth)
R E	R E	$\Re$ (\Re)
W tab	W tab	$\Im$ (\Im)
P tab	P tab	$\wp$ (\wp)
@ @	@ @	$\infty$ (\infty in $\text{\LaTeX}$ )
T tab	T tab	$\top$ (\top)
T tab	T tab	$\bot$ (\bot)
< > tab	< > tab	$\clubsuit$ (\clubsuit)
< > tab	< > tab	$\diamondsuit$ (\diamondsuit)
< > tab	< > tab	$\heartsuit$ (\heartsuit)
< > tab	< > tab	$\spadesuit$ (\spadesuit)
b tab	b tab	$\flat$ (\flat)
# tab	# tab	$\natural$ (\natural)
# tab	# tab	$\sharp$ (\sharp)
@ = tab	@ = tab	$\triangleq$ (\triangleq)
+ tab	+ tab	$\dagger$ (\dagger)

#### Variable sized operators

I tab	I tab	$\int$ (\int)
II tab	II tab	$\iint$ (\iint)
III tab	III tab	$\iiint$ (\iiint)
@ I	@ I	$\oint$ (\oint)
U tab	U tab	$\bigcup$ (\bigcup)
N tab	N tab	$\bigcap$ (\bigcap)

#### Arrow

- >	- >	$\rightarrow$ (\rightarrow)
> /	> /	$\rightsquigarrow$ (\rightsquigarrow)

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Windows GNU/Linux	Mac	Equivalent in $\text{\LaTeX}$
-- >	-- >	$\longrightarrow$ (\longrightarrow)
= >	= >	$\Rightarrow$ (\Rightarrow)
= > /	= > /	$\nRightarrow$ (\nRightarrow)
= = >	= = >	$\Longrightarrow$ (\Longrightarrow)
~ >	~ >	$\leadsto$ (\leadsto)
- >	- >	$\mapsto$ (\mapsto)
-- >	-- >	$\longmapsto$ (\longmapsto)
< -	< -	$\leftarrow$ (\leftarrow)
< - >	< - >	$\leftrightarrow$ (\leftrightarrow)
< - tab	< - tab	$\uparrow$ (\uparrow)
< - tab	< - tab	$\downarrow$ (\downarrow)
< - > tab	< - > tab	$\updownarrow$ (\updownarrow)
<b>Fences</b>		
< tab	< tab	$\langle \rangle$ (\langle \rangle)
.	.	$\lfloor \rfloor$ (\lfloor \rfloor)
'	'	$\lceil \rceil$ (\lceil \rceil)
		$\parallel$ (\parallel)