

Liiv STEM Input Method Cheatsheet





November 28, 2025


Liiv STEM (<https://liivstem.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 Liiv STEM Input Method.


Unlike the shortcut hints inside Liiv STEM. We distinguish the capital and noncapital letters in this cheatsheet; For example, **J** and **j** are different. We also use **⇧** 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 **⇧v tab**.







































































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


























































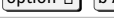
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Windows  GNU/Linux 	Mac 	Equivalent in \LaTeX 
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ctrl+#	ctrl+#	add equation number
alt+arrow	option+arrow	add new row/column in <i>matrix/table/choice/stack</i>
ctrl⇧+f	ctrl⇧+f	add footnote
ctrl+n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





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Windows  GNU/Linux 	Mac 	Equivalent in \LaTeX 
		ϑ (<code>\vartheta</code>)
		ι (<code>\iota</code>)
		κ (<code>\kappa</code>)
 	 	λ (<code>\lambda</code>), Λ (<code>\Lambda</code>)
		μ (<code>\mu</code>)
		ν (<code>\nu</code>)
 	 	ξ (<code>\xi</code>), Ξ (<code>\Xi</code>)
 	 	π (<code>\pi</code>), Π (<code>\Pi</code>)
		ϖ (<code>\varpi</code>)
		ρ (<code>\rho</code>)
		ϱ (<code>\varrho</code>)
 	 	σ (<code>\sigma</code>), Σ (<code>\Sigma</code>)
		ς (<code>\varsigma</code>)
		τ (<code>\tau</code>)
 	 	v (<code>\upsilon</code>), Υ (<code>\Upsilon</code>)
 	 	ϕ (<code>\phi</code>), Φ (<code>\Phi</code>)
		φ (<code>\varphi</code>)
		χ (<code>\chi</code>)
 	 	ψ (<code>\psi</code>), Ψ (<code>\Psi</code>)
 	 	ω (<code>\omega</code>), Ω (<code>\Omega</code>)
Sets and Logic		
		\cup (<code>\cup</code>)
		\cap (<code>\cap</code>)
		\subset (<code>\subset</code>)
		\subseteq (<code>\subseteq</code>)
		\supset (<code>\supset</code>)
		\supseteq (<code>\supseteq</code>)
		\in (<code>\in</code>)

























































Windows  GNU/Linux 	Mac 	Equivalent in \LaTeX 
		\ni (<code>\ni</code>)
		\notin (<code>\notin</code>)
		\mathbb{R} (<code>\mathbb{R}</code>)
		\mathbb{Z} (<code>\mathbb{Z}</code>)
		\mathbb{Q} (<code>\mathbb{Q}</code>)
		\mathbb{N} (<code>\mathbb{N}</code>)
		\mathbb{C} (<code>\mathbb{C}</code>)
		\varnothing (<code>\varnothing</code>)
		\aleph (<code>\aleph</code>)
		\equiv (<code>\equiv</code>)
		\forall (<code>\forall</code>)
		\exists (<code>\exists</code>)
		\neg (<code>\neg</code>)
		\vee (<code>\vee</code>)
		\wedge (<code>\wedge</code>)
		\vdash (<code>\vdash</code>)
		\models (<code>\models</code>)
		\Rightarrow (<code>\Rightarrow</code>)
		\Rightarrow (<code>\Rightarrow</code>)
Decorations		
		\dot{A} (<code>\dot{A}</code>)
		\ddot{A} (<code>\ddot{A}</code>)
		vertical two dots
		horizontal three dots
		horizontal four dots
		\hat{A} (<code>\hat{A}</code>)
		\tilde{A} (<code>\tilde{A}</code>)
		\bar{A} (<code>\bar{A}</code>)

Windows  GNU/Linux 	Mac 	Equivalent in \LaTeX 
		\overline{A} (<code>\overline{A}</code>)
		\underline{A} (<code>\underline{A}</code>)
		\vec{A} (<code>\vec{A}</code>)
		\check{A} (<code>\check{A}</code>)
		\breve{A} (<code>\breve{A}</code>)
		inverted breve
		\acute{A} (<code>\acute{A}</code>)
		\mathring{A} (<code>\mathring{A}</code>)
Dots		
		\dots (<code>\ldots</code>)
		\cdots (<code>\cdots</code>)
		high dots
		\vdots (<code>\vdots</code>)
		\ddots (<code>\ddots</code>)
		back-diagonal dots
Other Symbols		
		\leq (<code>\leq</code>)
		\geq (<code>\geq</code>)
		\neq (<code>\neq</code>)
		\ll (<code>\ll</code>)
		\gg (<code>\gg</code>)
		\approx (<code>\approx</code>)
		\asymp (<code>\asymp</code>)
		\prec (<code>\prec</code>)
		\preceq (<code>\preceq</code>)
		\succ (<code>\succ</code>)
		\succeq (<code>\succeq</code>)
		\propto (<code>\propto</code>)





































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Windows  GNU/Linux 	Mac 	Equivalent in \LaTeX 
		\doteq (<code>\doteq</code>)
		\angle (<code>\angle</code>)
		ℓ (<code>\ell</code>)
		\parallel (<code>\parallel</code>)
		\cong (<code>\cong</code>)
		\ncong (<code>\ncong</code>)
		\sim (<code>\sim</code>)
		\simeq (<code>\simeq</code>)
		\nsim (<code>\nsim</code>)
		\oplus (<code>\oplus</code>)
		\ominus (<code>\ominus</code>)
		\odot (<code>\odot</code>)
		\otimes (<code>\otimes</code>)
		\oslash (<code>\oslash</code>)
		\upharpoonright (<code>\upharpoonright</code>)
		\cdot (<code>\cdot</code>)
		\pm (<code>\pm</code>)
		\mp (<code>\mp</code>)
		\times (<code>\times</code>)
		\div (<code>\div</code>)
		\ast (<code>\ast</code>)
		∂ (<code>\partial</code>)
		∇ (<code>\nabla</code>)
		\circ (<code>\circ</code>)
		\star (<code>\star</code>)
		\imath (<code>\imath</code>)
		\jmath (<code>\jmath</code>)
		\hbar (<code>\hbar</code>)

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Windows  GNU/Linux 	Mac 	Equivalent in \LaTeX 
		\beth (<code>\beth</code>)
		\gimel (<code>\gimel</code>)
		\daleth (<code>\daleth</code>)
		\Re (<code>\Re</code>)
		\mho (<code>\mho</code>)
		\wp (<code>\wp</code>)
		∞ (<code>\infty</code> in \LaTeX)
		\top (<code>\top</code>)
		\bot (<code>\bot</code>)
		\clubsuit (<code>\clubsuit</code>)
		\diamondsuit (<code>\diamondsuit</code>)
		\heartsuit (<code>\heartsuit</code>)
		\spadesuit (<code>\spadesuit</code>)
		\flat (<code>\flat</code>)
		\natural (<code>\natural</code>)
		\sharp (<code>\sharp</code>)
		\triangleq (<code>\triangleq</code>)
		\dagger (<code>\dagger</code>)
Variable sized operators		
		\int (<code>\int</code>)
		\iint (<code>\iint</code>)
		\iiint (<code>\iiint</code>)
		\oint (<code>\oint</code>)
		\bigcup (<code>\bigcup</code>)
		\bigcap (<code>\bigcap</code>)
Arrow		
		\rightarrow (<code>\rightarrow</code>)
		\rightarrowtail (<code>\rightarrowtail</code>)

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Windows  GNU/Linux 	Mac 	Equivalent in \LaTeX 
		\longrightarrow (<code>\longrightarrow</code>)
		\Rightarrow (<code>\Rightarrow</code>)
		\Rrightarrow (<code>\Rrightarrow</code>)
		\Longrightarrow (<code>\Longrightarrow</code>)
		\leadsto (<code>\leadsto</code>)
		\mapsto (<code>\mapsto</code>)
		\longmapsto (<code>\longmapsto</code>)
		\leftarrow (<code>\leftarrow</code>)
		\leftrightarrow (<code>\leftrightarrow</code>)
		\uparrow (<code>\uparrow</code>)
		\downarrow (<code>\downarrow</code>)
		\updownarrow (<code>\updownarrow</code>)
Fences		
		$\langle \rangle$ (<code>\langle \rangle</code>)
		$\lfloor \rfloor$ (<code>\lfloor \rfloor</code>)
		$\lceil \rceil$ (<code>\lceil \rceil</code>)
		$\ $ (<code>\ </code>)