



A \LaTeX Template, 一个 \LaTeX 模板

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Overleaf 模板作者

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1 中英法三语支持

2 Mathematic Tools :LCS27symbols

这是一个中文 - 英语 - 法语混排的多语言模板。

C'est un template multilingue pour l'utilisation chinois-anglais-français.

This is a multilanguage template for chinese-english-french.

This template is based on XeLaTeX interpreter.

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1 中英法三语支持

2 Mathematic Tools :LCS27symbols



Regrouping powerful mathematic packages!

Many mathematical symbols are defined by multiple \LaTeX packages, the package LCS27symbols regroups them!

- `amsmath` : basic mathematic packages, providing format such as mathematic symbols and equations.
- `amsfonts` : mathematic fonts.
- `mathrsfs` : mathematic fonts.
- `bbm` : mathematic fonts.
- `amsthm` : theorem environment.
- `amssymb` : advance mathematic symbols.
- `mathtools` : advance mathematic symbols.
- `siunitx` : scientific notation(E.g.To write 2×10^9 you just need `\num{2e+9}`).
- `stmaryrd` : binary operator symbols.

For a quick-check webpage, you can go to

https://oeis.org/wiki/List_of_LaTeX_mathematical_symbols.



Mathematic Tools :LCS27symbols

Autodefined symbols

The package LCS27symbols also defines several symbols, especially useful for mechanic fields!

| | |
|---|-------------------------------------|
| <code>\deri{a}{b}</code> | $\frac{da}{db}$ |
| <code>\deriN{a}{b}{n}</code> | $\frac{d^n a}{db^n}$ |
| <code>\ParDeri{a}{b}</code> | $\frac{\partial a}{\partial b}$ |
| <code>\ParDeriN{a}{b}{n}</code> | $\frac{\partial^n a}{\partial b^n}$ |
| <code>\Deri{a}{b}</code> | $\frac{Da}{Db}$ |
| <code>\DeriN{a}{b}{n}</code> | $\frac{D^n a}{Db^n}$ |
| <code>a\laplace b</code> | $a \triangle b$ |
| <code>\abs \scalair \bbs</code> | $a \cdot b$ |
| <code>a\nabla b, \cbs \nabla labs \dbs</code> | $a \nabla b, c \nabla d$ |
| <code>\ssi, \iff</code> | $\Longleftrightarrow, \iff$ |



Mathematic Tools :LCS27symbols

Autodefined symbols

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| | | | |
|----------------------|-----------------------|----------------------|--|
| $\backslash Abb$ | $\backslash gbb$ | $\backslash Onebb$ | $\mathbb{A}g1$ |
| $\backslash Abf$ | $\backslash bbf$ | $\backslash Onebf$ | Ab1 |
| $\backslash Abs$ | $\backslash bbs$ | $\backslash Gammabs$ | δ, φ, ∇ |
| $\backslash deltab$ | $\backslash varphi$ | $\backslash nabla$ | $\overline{A}, \overline{b}, \overline{\Gamma}, \overline{\delta}, \overline{\varphi}, \overline{\nabla}, \overline{1}$ |
| $\backslash Ao$ | $\backslash bo$ | $\backslash Gammao$ | $\overline{\overline{A}}, \overline{\overline{b}}, \overline{\overline{\Gamma}}, \overline{\overline{\delta}}, \overline{\overline{\varphi}}, \overline{\overline{\nabla}}, \overline{\overline{1}}$ |
| $\backslash Aoo$ | $\backslash boo$ | $\backslash Gammaoo$ | $\underline{A}, \underline{b}, \underline{\Gamma}, \underline{\delta}, \underline{\varphi}, \underline{\nabla}, \underline{1}$ |
| $\backslash deltao$ | $\backslash arphio$ | $\backslash nablao$ | $\underline{\underline{A}}, \underline{\underline{b}}, \underline{\underline{\Gamma}}, \underline{\underline{\delta}}, \underline{\underline{\varphi}}, \underline{\underline{\nabla}}, \underline{\underline{1}}$ |
| $\backslash Oneo$ | | | \mathcal{A} |
| $\backslash Ad$ | $\backslash bd$ | $\backslash Gammad$ | $\mathbb{R}, \mathbb{C}, \mathbb{N}, \mathbb{Z}, \mathbb{R} \times \mathbb{R}$ |
| $\backslash deltad$ | $\backslash varphid$ | $\backslash nabladd$ | \mathcal{R} |
| $\backslash Oned$ | | | |
| $\backslash Add$ | $\backslash bdd$ | $\backslash Gammadd$ | |
| $\backslash deltadd$ | $\backslash varphidd$ | $\backslash nabladd$ | |
| $\backslash Onedd$ | | | |
| $\backslash Acal$ | | | |
| $\backslash setR$ | $\backslash setC$ | $\backslash setN$ | |
| $\backslash setZ$ | $\backslash setRR$ | | |
| $\backslash rel$ | | | |



Mathematic Tools :LCS27symbols

Autodefined symbols

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| | |
|---|-----------------------------------|
| $\backslash eg, \backslash Eg$ | e.g., E.g. |
| $\backslash ie, \backslash Ie$ | i.e., I.e. |
| $\backslash cf, \backslash Cf$ | c.f., C.f. |
| $\backslash etc, \backslash vs, \backslash wrt, \backslash dof$ | etc., vs., w.r.t., d.o.f. |
| $\backslash etal, \backslash resp, \backslash st, \backslash aka, \backslash abr$ | et al., resp., s.t., a.k.a., abr. |
| $\backslash tsum$ | \sum |
| $\backslash grad \backslash xbs$ | ∇x |
| $\backslash norm\{a\}$ | $\ a\ $ |
| $\backslash Intv\{a\}\{b\}$ | $[a, b]$ |
| $\backslash IntIntv\{a\}\{b\}$ | $\llbracket a, b \rrbracket$ |
| $\backslash UpperInt\{a\}$ | $\lceil a \rceil$ |
| $\backslash LowerInt\{a\}$ | $\lfloor a \rfloor$ |



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谢谢! Thank you! Merci!

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