

A L^AT_EX Template, 一个 L^AT_EX 模板

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2023 年 4 月 12 日

1 Test Example

这是一个中文-英语-法语混排的多语言模板。

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

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

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3 Mathematic Tools:LCS27symbols

3.1 Regrouping powerful mathematic packages!

Many mathematical symbols are defined by multiple L^AT_EX 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.

3.2 Autodefined symbols

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

$\begin{aligned} &\backslash\mathrm{deri}\{a\}\{b\} \\ &\backslash\mathrm{deriN}\{a\}\{b\}\{n\} \\ &\backslash\mathrm{ParDeri}\{a\}\{b\} \\ &\backslash\mathrm{ParDeriN}\{a\}\{b\}\{n\} \\ &\backslash\mathrm{Deri}\{a\}\{b\} \\ &\backslash\mathrm{DeriN}\{a\}\{b\}\{n\} \\ &a\backslash\mathrm{laplace}\ b \\ &\backslash\mathrm{abs}\ \backslash\mathrm{scalaire}\ \backslash\mathrm{bbs} \\ &a\backslash\mathrm{nabla}\ b,\ \backslash\mathrm{cbs}\ \backslash\mathrm{nablab}\ \backslash\mathrm{dbs} \\ &\backslash\mathrm{ssi},\backslash\mathrm{iff} \\ &\backslash\mathrm{Abb}\ \backslash\mathrm{gbb}\ \backslash\mathrm{Onebb} \\ &\backslash\mathrm{Abf}\ \backslash\mathrm{bbf}\ \backslash\mathrm{Onebf} \\ &\backslash\mathrm{Abs},\backslash\mathrm{bbs},\backslash\mathrm{Gammabs},\backslash\mathrm{deltabs},\backslash\mathrm{varphibs},\ \backslash\mathrm{nablab}\ \\ &\backslash\mathrm{Ao},\backslash\mathrm{bo},\backslash\mathrm{Gammao},\backslash\mathrm{deltao},\backslash\mathrm{arphio},\backslash\mathrm{nablao},\backslash\mathrm{Oneo} \\ &\backslash\mathrm{Aoo},\backslash\mathrm{boo},\backslash\mathrm{Gammaoo},\backslash\mathrm{deltaoo},\backslash\mathrm{varphioo},\backslash\mathrm{nablao},\backslash\mathrm{Oneoo} \\ &\backslash\mathrm{Ad},\backslash\mathrm{bd},\backslash\mathrm{Gammad},\backslash\mathrm{deltad},\backslash\mathrm{varphid},\backslash\mathrm{nabladd},\backslash\mathrm{Oned} \\ &\backslash\mathrm{Add},\backslash\mathrm{bdd},\backslash\mathrm{Gammadd},\backslash\mathrm{deltadd},\backslash\mathrm{varphidd},\backslash\mathrm{nabladd},\backslash\mathrm{Onedd} \\ &\backslash\mathrm{Acal} \\ &\backslash\mathrm{setR},\backslash\mathrm{setC},\backslash\mathrm{setN},\backslash\mathrm{setZ},\backslash\mathrm{setRR} \\ &\backslash\mathrm{rel} \\ &\backslash\mathrm{eg},\backslash\mathrm{Eg} \\ &\backslash\mathrm{ie},\backslash\mathrm{Ie} \\ &\backslash\mathrm{cf},\backslash\mathrm{Cf} \\ &\backslash\mathrm{etc},\backslash\mathrm{vs},\backslash\mathrm{wrt},\backslash\mathrm{dof} \\ &\backslash\mathrm{etal},\backslash\mathrm{resp},\backslash\mathrm{st},\backslash\mathrm{aka},\backslash\mathrm{abr} \\ &\backslash\mathrm{tsum} \\ &\backslash\mathrm{grad}\ \backslash\mathrm{xbs} \\ &\backslash\mathrm{norm}\{a\} \\ &\backslash\mathrm{Intv}\{a\}\{b\} \\ &\backslash\mathrm{IntIntv}\{a\}\{b\} \\ &\backslash\mathrm{UpperInt}\{a\} \\ &\backslash\mathrm{LowerInt}\{a\} \end{aligned}$	$\begin{aligned} &\frac{da}{db} \\ &\frac{d^na}{db^n} \\ &\frac{\partial a}{\partial b^n} \\ &\frac{\partial^na}{\partial b^n} \\ &\frac{Da}{Db^n} \\ &\frac{D^na}{Db^n} \\ &a\triangle b \\ &\mathbf{a} \cdot \mathbf{b} \\ &a\nabla b, c\nabla d \\ &\Longleftrightarrow, \Longleftarrow \\ &\mathbb{A}g\mathbb{I} \\ &\mathbf{Ab1} \\ &\mathbf{A}, \mathbf{b}, \mathbf{\Gamma}, \mathbf{\delta}, \mathbf{\varphi}, \mathbf{\nabla} \\ &\overline{A}, \overline{b}, \overline{\Gamma}, \overline{\delta}, \overline{\varphi}, \overline{\nabla}, \overline{1} \\ &\underline{\overline{A}}, \underline{\overline{b}}, \underline{\overline{\Gamma}}, \underline{\overline{\delta}}, \underline{\overline{\varphi}}, \underline{\overline{\nabla}}, \underline{\overline{1}} \\ &\underline{A}, \underline{b}, \underline{\Gamma}, \underline{\delta}, \underline{\varphi}, \underline{\nabla}, \underline{1} \\ &\underline{\underline{A}}, \underline{\underline{b}}, \underline{\underline{\Gamma}}, \underline{\underline{\delta}}, \underline{\underline{\varphi}}, \underline{\underline{\nabla}}, \underline{\underline{1}} \\ &\mathcal{A} \\ &\mathbb{R}, \mathbb{C}, \mathbb{N}, \mathbb{Z}, \mathbb{R} \times \mathbb{R} \\ &\mathcal{R} \\ &e.g., E.g. \\ &i.e., I.e. \\ &c.f., C.f. \\ &etc., vs., w.r.t., d.o.f. \\ &et al., resp., s.t., a.k.a., abr. \\ &\sum \\ &\nabla \mathbf{x} \\ &\ a\ \\ &[a, b] \\ &\llbracket a, b \rrbracket \\ &\lceil a \rceil \\ &\lfloor a \rfloor \end{aligned}$
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