



A \LaTeX Template, 一个 \LaTeX 模板

LCS27

Overleaf 模板作者

2022 年 10 月 2 日



Table of content-目录-Table des matières

1 中英法三语支持

2 Mathematic Tools:LCS27symbols

3 Tables:LCS27table

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.

This work is written in 2021-2022 by LCS27. It is released under the CC0 1.0

Universal license. See the

<https://creativecommons.org/share-your-work/public-domain/cc0/> for details.



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 files!

<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

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

$\backslash\text{Abb}$	Ag1
$\backslash\text{gbb}$	Ab1
$\backslash\text{Onebb}$	$A, b, \Gamma, \delta, \varphi, \nabla$
$\backslash\text{Abf}$	$\overline{A}, \overline{b}, \overline{\Gamma}, \overline{\delta}, \overline{\varphi}, \overline{\nabla}, \overline{1}$
$\backslash\text{bbf}$	$\overline{\overline{A}}, \overline{\overline{b}}, \overline{\overline{\Gamma}}, \overline{\overline{\delta}}, \overline{\overline{\varphi}}, \overline{\overline{\nabla}}, \overline{\overline{1}}$
$\backslash\text{Onebf}$	$\underline{A}, \underline{b}, \underline{\Gamma}, \underline{\delta}, \underline{\varphi}, \underline{\nabla}, \underline{1}$
$\backslash\text{Abs}, \backslash\text{bbs}, \backslash\text{Gammabs}, \backslash\text{deltabs}, \backslash\text{varphibs}, \backslash\text{nablab}$	$\underline{\underline{A}}, \underline{\underline{b}}, \underline{\underline{\Gamma}}, \underline{\underline{\delta}}, \underline{\underline{\varphi}}, \underline{\underline{\nabla}}, \underline{\underline{1}}$
$\backslash\text{Ao}, \backslash\text{bo}, \backslash\text{Gammaao}, \backslash\text{deltao}, \backslash\text{arphio}, \backslash\text{nablao}, \backslash\text{Oneo}$	\mathcal{A}
$\backslash\text{Aoo}, \backslash\text{boo}, \backslash\text{Gammaoo}, \backslash\text{deltaoo}, \backslash\text{varphioo}, \backslash\text{nablaoo}, \backslash\text{Oneoo}$	$\mathbb{R}, \mathbb{C}, \mathbb{N}, \mathbb{Z}, \mathbb{R} \times \mathbb{R}$
$\backslash\text{Ad}, \backslash\text{bd}, \backslash\text{Gammad}, \backslash\text{deltad}, \backslash\text{varphid}, \backslash\text{nablad}, \backslash\text{Oned}$	\mathcal{R}
$\backslash\text{Add}, \backslash\text{bdd}, \backslash\text{Gammadd}, \backslash\text{deltadd}, \backslash\text{varphidd}, \backslash\text{nabladd}, \backslash\text{Onedd}$	
$\backslash\text{Acal}$	
$\backslash\text{setR}, \backslash\text{setC}, \backslash\text{setN}, \backslash\text{setZ}, \backslash\text{setRR}$	
$\backslash\text{rel}$	



Mathematic Tools:LCS27symbols

Autodefined symbols

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

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



北京航空航天大学
BEIHANG UNIVERSITY



谢谢! Thank you! Merci!

A \LaTeX Template, 一个 \LaTeX 模板

Overleaf 模板作者 LCS27

2022 年 10 月 2 日