

## A 图EX Template, 一个图EX 模板

LCS27

Overleaf 模板作者

14 avril 2023





1 中英法三语支持

2 Mathematic Tools:LCS27symbols

### 中英法三语支持 Table des matières



- 1 中英法三语支持
- 2 Mathematic Tools:LCS27symbols

# 中英法三语支持中英法 多语言混排



这是一个中文-英语-法语混排的多语言模板。

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

This is a multilingual 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

 $https://creative commons.org/share-your-work/public-domain/cc0/\ for\ details.$ 

## Mathematic Tools :LCS27symbols Table des matières



- 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  $2 \times 10^9$  you just need \num{2e+9}).
- stmaryrd: binary operator symbols.

For a quick-check webpage, you can go to

 $\verb|https://oeis.org/wiki/List_of_LaTeX_mathematical_symbols.|$ 

## 100

### Autodefined symbols

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

```
deri{a}{b}

\frac{da}{db}a \frac{d^n a}{db^n} \frac{\partial a}{\partial b} \frac
                                                                                                                                                                                                                        deriN{a}{b}{n}
                                                                                                                                                                                                                            \ParDeri{a}{b}
                                                                                                                                                          \ParDeriN{a}{b}{n}
                                                                                                                                                                                                                                                               \Deri{a}{b}
                                                                                                                                                                                                     \operatorname{DeriN\{a\}\{b\}\{n\}}
                                                                                                                                                                                                                                                                       a\laplace b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a \wedge b
                                                                                                                                                      abs \scalaire \bbs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a \cdot b
a\nabla b, \cbs \nablabs \dbs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a\nabla b, c\nablad
                                                                                                                                                                                                                                                                                                          \ssi,\iff
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \iff, \iff
```

## Autodefined symbols



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

```
Abb \gbb \Onebb
                                                                                                                                        Ag1
                                          \Abf \bbf \Onebf
                                                                                                                                        Ah1
                                                                                                                              A, b, \Gamma, \delta, \varphi, \nabla
       \Abs,\bbs,\Gammabs,\deltabs,\varphibs, \nablabs
          \Ao,\bo,\Gammao,\deltao,\arphio,\nablao,\Oneo
                                                                                                                            \overline{A}, \overline{b}, \overline{\Gamma}, \overline{\delta}, \overline{\varphi}, \overline{\nabla}, \overline{1}
                                                                                                                            \overline{\overline{A}}, \overline{\overline{b}}, \overline{\overline{\Gamma}}, \overline{\overline{\delta}}, \overline{\overline{\varphi}}, \overline{\overline{\nabla}}, \overline{\overline{1}}
\Aoo,\boo,\Gammaoo,\deltaoo,\varphioo,\nablaoo,\Oneoo
        \Ad,\bd,\Gammad,\deltad,\varphid,\nablad,\Oned
                                                                                                                            A, \underline{b}, \Gamma, \underline{\delta}, \varphi, \nabla, \underline{1}
\Add,\bdd,\Gammadd,\deltadd,\varphidd,\nabladd,\Onedd
                                                                                                                            A, b, \Gamma, \delta, \varphi, \nabla, 1
                                                      ackslash \mathtt{Acal}
                          \setR,\setC,\setN,\setZ,\setRR
                                                                                                                           \mathbb{R}, \mathbb{C}, \mathbb{N}, \mathbb{Z}, \mathbb{R} \times \mathbb{R}
                                                        rel
                                                                                                                                          \mathcal{R}
```

## 100

### Autodefined symbols

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

```
eg,\Eg
                                                 e.g.,E.g.
             \ie.\Ie
                                                 i.e..I.e.
             \cf.\Cf
                                                 c.f.,C.f.
     \etc.\vs.\wrt.\dof
                                           etc..vs..w.r.t..d.o.f.
\etal,\resp,\st,\aka,\abr
                                       et al.,resp.,s.t.,a.k.a.,abr.
              \tsum
           grad \xbs
                                                   \nabla x

norm{a}

                                                   ||a||
          \Intv{a}{b}
                                                   [a,b]
        IntIntv{a}{b}
                                                  \llbracket a,b 
rbracket
         UpperInt{a}
                                                    \lceil a \rceil
         LowerInt{a}
                                                    а
```



## **谢谢!** Thank you! Merci!

A 图EX Template, 一个 图EX 模板 Overleaf 模板作者 LCS27 14 avril 2023