A LaTeX Templete, 一个 LaTeX 模板

Overleaf 模板作者

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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.

劳仑衣普桑，认至将指点效则机，最你更枝。想极整月正进好志次回总般，段然取向使张规军证回，世市总李率英茄持伴。用阶千样响领交出，器程办管据家元写，名其直金团。化达书据始价算每百青，金低给天济办作照明，取路豆学丽适市确。如提单各样备再成农各政，设头律走克美技说没，体交才路此在杠。响育油命转处他住有，一须通给对非交矿今该，花象更面据压来。与花断第然调，很处已队音，程承明邮。常系单要外史按机速引也书，个此少管品务美直管战，子大标蠢主盯写族般本。农现离门亲事以响规，局观先示从开示，动和导便命复机李，办队呆等需杯。见何细线名必子适取米制近，内信时型系节新候节好当我，队农否志杏空适花。又我具料划每地，对算由那基高放，育天孝。派则指细流金义月无采列，走压看计和眼提问接，作半极水红素支花。果都济素各半走，意红接器长标，等杏近乱共。层题提万任号，信来查段格，农张雨。省着素科程建持色被什，所界走置派农难取眼，并细杆至志本。

水厂共当而面三张，白家决空给意层般，单重总歼者新。每建马先口住月大，究平克满现易手，省否何安苏京。两今此叫证程事元七调联派业你，全它精据间属医拒严力步青。厂江内立拉清义边指，况半严回和得话，状整度易芬列。再根心应得信飞住清增，至例联集采家同严热，地手蠢持查受立询。统定发几满斯究后参边增消与内关，解系之展习历李还也村酸。制周心值示前她志长步反，和果使标电再主它这，即务解旱八战根交。是中文之象万影报头，与劳工许格主部确，受经更奇小极准。形程记持件志各质天因时，据据极清总命所风式，气太束书家秀低坟也。期之才引战对已公派及济，间究办儿转情革统将，周类弦具调除声坑。两了济素料切要压，光采用级数本形，管县任其坚。切易表候完铁今断土马他，领先往样拉口重把处千，把证建后苍交码院眼。较片的集节片合构进，入化发形机已斯我候，解肃飞口严。技时长次土员况属写，器始维期质离色，个至村单原否易。重铁看年程第则于去，且它后基格并下，每收感石形步而。

她己道按收面学上全始，形万然许压己金史好，力住记赤则引秧。处高方据近学级

素专，者往构支明系状委起查，增子束孤不般前。相斗真它增备听片思三，听花连次志平品书消情，清市五积群面县开价现准此省持给，争式身在南决就集般，地力秧众团计。日车治政技便角想持中，厂期平及半干速区白土，观合村究研称始这少。验商眼件容果经风中，质江革再的采心年专，光制单万手斗光就，报却蹦杯材。内同数速果报做，属马市参至，入极将管医。但强质交上能只拉，据特光农无五计据，来步孤平葡院。江养水图再难气，做林因列行消特段，就解届罐盛。定她识决听人自打验，快思月断细面便，事定什呀传。边力心层下等共命每，厂五交型车想利，直下报亲积速。元前很地传气领权节，求反立全各市状，新上所走值上。明统多表过变物每区广，会王问西听观生真林，二决定助议苏。格节基全却及飞口悉，难之规利争白观，证查李却调代动斗形放数委同领，内从但五身。当了美话也步京边但容代认，放非边建按划近些派民越，更具建火法住收保步连。

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3 Mathematic Tools:`LCS27symbols`

3.1 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`.

3.2 Autodefined symbols

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

`\deri{a}{b}`	$\frac{\mathrm{d}a}{\mathrm{d}b}$
`\deriN{a}{b}{n}`	$\frac{\mathrm{d}^n a}{\mathrm{d}b^n}$
`\ParDeri{a}{b}`	$\frac{\partial a}{\partial b}$
`\ParDeriN{a}{b}{n}`	$\frac{\partial^n a}{\partial b^n}$
`\Deri{a}{b}`	$\frac{\mathrm{D}a}{\mathrm{D}b}$
`\DeriN{a}{b}{n}`	$\frac{\mathrm{D}^n a}{\mathrm{D}b^n}$
`a\laplace b`	$a \triangle b$
`\abs \scalaire \bbs`	$\boldsymbol{a} \cdot \boldsymbol{b}$
`a\nabla b, \cbs \nablabs \dbs`	$a\nabla b, \boldsymbol{c}\nabla\boldsymbol{d}$
`\ssi,\iff`	$\Longleftrightarrow, \iff$
`\Abb \gbb \Onebb`	$\mathbb{A}\mathbb{g}\mathbb{1}$
`\Abf \bbf \Onebf`	$\mathbf{Ab1}$
`\Abs,\bbs,\Gammabs,\deltabs,\varphibs, \nablabs`	$\boldsymbol{A}, \boldsymbol{b}, \boldsymbol{\Gamma}, \boldsymbol{\delta}, \boldsymbol{\varphi}, \boldsymbol{\nabla}$
`\Ao,\bo,\Gammao,\deltao,\arphio,\nablao,\Oneo`	$\overline{A}, \overline{b}, \overline{\Gamma}, \overline{\delta}, \overline{\varphi}, \overline{\nabla}, \overline{1}$
`\Aoo,\boo,\Gammaoo,\deltaoo,\varphioo,\nablaoo,\Oneoo`	$\overline{\overline{A}}, \overline{\overline{b}}, \overline{\overline{\Gamma}}, \overline{\overline{\delta}}, \overline{\overline{\varphi}}, \overline{\overline{\nabla}}, \overline{\overline{1}}$
`\Ad,\bd,\Gammad,\deltad,\varphid,\nablad,\Oned`	$\underline{A}, \underline{b}, \underline{\Gamma}, \underline{\delta}, \underline{\varphi}, \underline{\nabla}, \underline{1}$
`\Add,\bdd,\Gammadd,\deltadd,\varphidd,\nabladd,\Onedd`	$\underline{\underline{A}}, \underline{\underline{b}}, \underline{\underline{\Gamma}}, \underline{\underline{\delta}}, \underline{\underline{\varphi}}, \underline{\underline{\nabla}}, \underline{\underline{1}}$
`\Acal`	$\mathcal{A}$
`\setR,\setC,\setN,\setZ,\setRR`	$\mathbb{R}, \mathbb{C}, \mathbb{N}, \mathbb{Z}, \mathbb{R} \times \mathbb{R}$
`\rel`	
`\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`	$\sum$
`\grad \xbs`	$\nabla \boldsymbol{x}$
`\norm{a}`	$\|a\|$
`\Intv{a}{b}`	$[a, b]$
`\IntIntv{a}{b}`	$[\![a, b]\!]$
`\UpperInt{a}`	$\lceil a \rceil$
`\LowerInt{a}`	$\lfloor a \rfloor$