

# A L<sup>A</sup>T<sub>E</sub>X Template, 一个 L<sup>A</sup>T<sub>E</sub>X 模板

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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，子大标蠹主盯写族般本。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，地手蠹持查受立询。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。

她已道接收面学上全始，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，者往构文明系状委起查，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 L<sup>A</sup>T<sub>E</sub>X 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 [https://oeis.org/wiki/List\\_of\\_LaTeX\\_mathematical\\_symbols](https://oeis.org/wiki/List_of_LaTeX_mathematical_symbols).

### 3.2 Autodefined symbols

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



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