

教程安装包已放在微信公众号：【数模加油站】回复【软件 10】即可免费领取教程和安装包。



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一、LaTeX 的安装

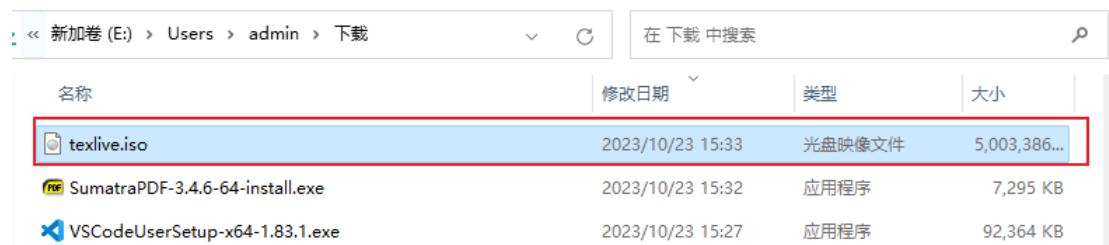
1、首先下载 texlive，它是一个 LaTeX 安装编译包。

推荐下载网址：清华大学开源软件镜像站

<https://mirrors.tuna.tsinghua.edu.cn/CTAN/systems/texlive/Images/>

Index of /CTAN/systems/texlive/Images/		
File Name ↓	File Size ↓	Date ↓
Parent directory/	-	-
README.md	1.2 Kib	2023-03-20 05:21
texlive.iso	4.8 GiB	2023-03-14 06:21
texlive2023-20230313.iso	4.8 GiB	2023-03-14 06:21
texlive2023-20230313.iso.md5	59 B	2023-03-14 06:22
texlive2023-20230313.iso.sha512	155 B	2023-03-14 06:23
texlive2023-20230313.iso.sha512.asc	455 B	2023-03-14 06:23
texlive2023.iso	4.8 GiB	2023-03-14 06:21
texlive2023.iso.md5	50 B	2023-03-14 06:23
texlive2023.iso.sha512	146 B	2023-03-14 06:23
texlive2023.iso.sha512.asc	455 B	2023-03-14 06:23

下载后为 ISO 镜像文件，如下图所示：



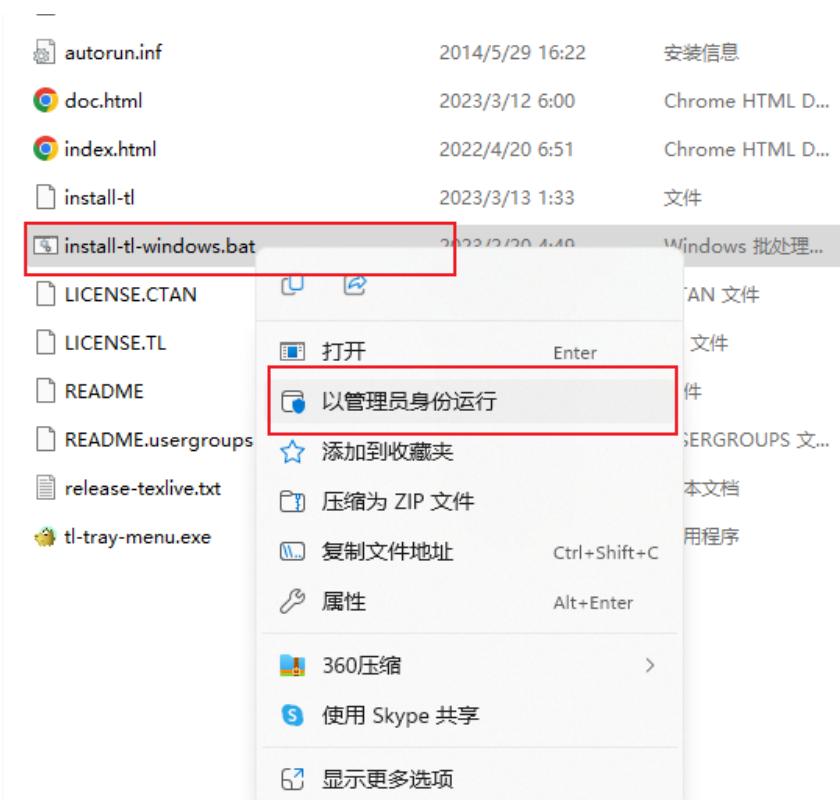
2、安装 texlive

(1) 双击打开 texlive.iso，打开后可以看到 install-tl-windows.bat。

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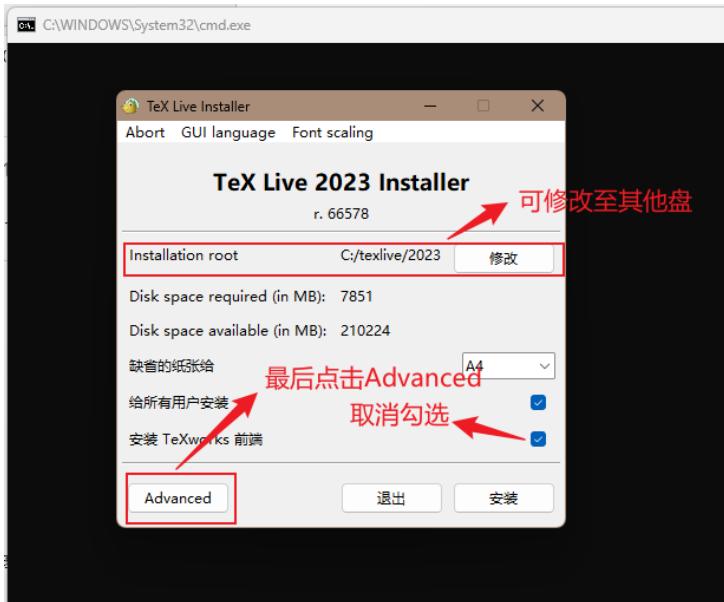
texlive-doc	2023/3/14 6:20	文件夹
tlpkg	2023/3/14 6:21	文件夹
.mkisofsrc	2023/2/19 2:37	MKISOFSRC 文件 1 KB
autorun.inf	2014/5/29 16:22	安装信息 1 KB
doc.html	2023/3/12 6:00	Chrome HTML D... 1,549 KB
index.html	2022/4/20 6:51	Chrome HTML D... 2 KB
install-tl	2023/3/13 1:33	文件 123 KB
install-tl-windows.bat	2023/2/20 4:49	Windows 批处理... 5 KB
LICENSE.CTAN	2006/9/29 0:31	CTAN 文件 3 KB
LICENSE.TL	2019/11/20 10:36	TL 文件 6 KB
README	2016/5/8 22:35	文件 1 KB
README.usergroups	2008/8/9 21:39	USERGROUPS 文... 1 KB
release-texlive.txt	2023/3/14 6:20	文本文档 1 KB
tl-tray-menu.exe	2023/3/20 4:43	应用程序 10 KB

(2) 右键以管理员身份运行该程序：

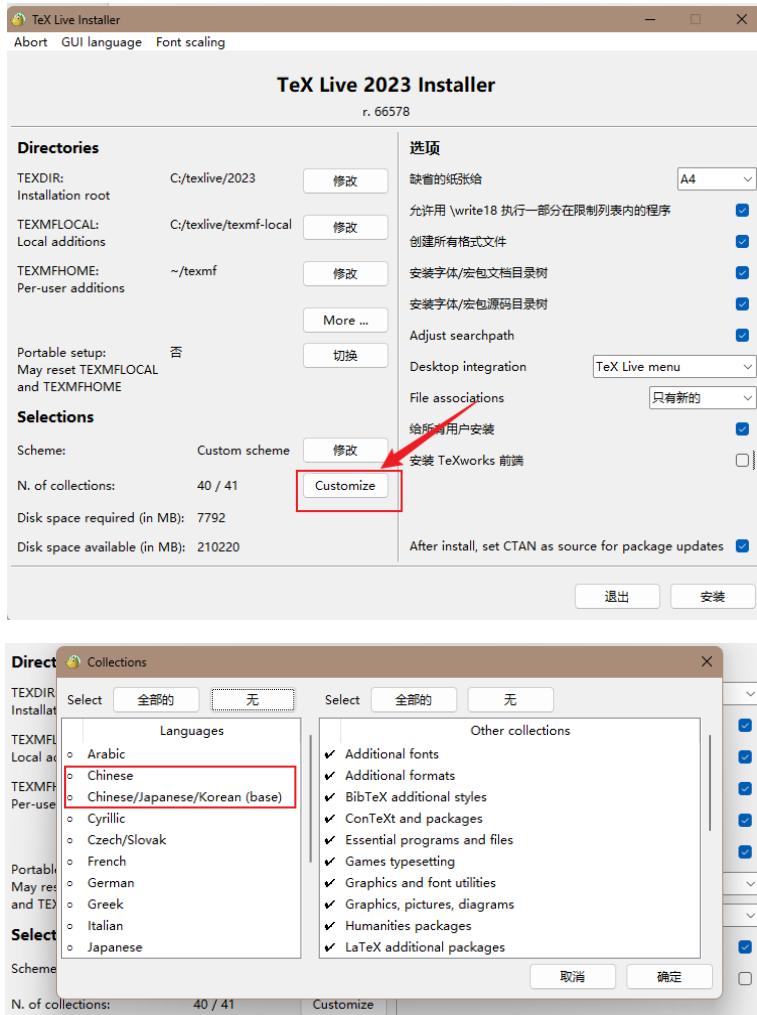


(3) 一个命令行小黑框后会出现 GUI 界面，这里的 Installation root 就是你的安装路径，可以修改到其他存储盘，这里的安装 TeXworks 前端可以不勾选，因为我们之后的操作都会在 VSCode 中编译，所以可以取消掉勾选，然后选择 Advanced。

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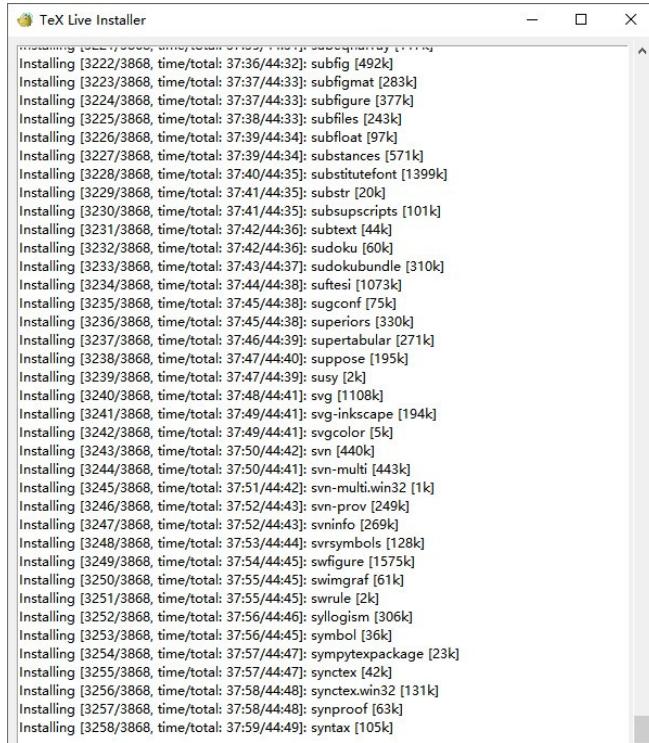


(4) 然后可以打开左下角的 Customize, 这里是让你选择语言的, 只要勾选 Chinese 和 UK/US 就可以了, 其他语言可以不选择, 这样能节约很多存储空间。



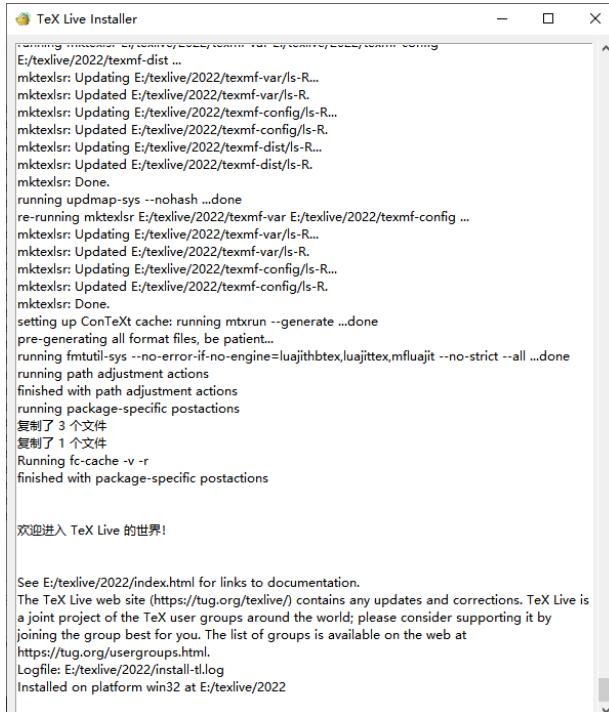
(5) 然后点击安装, 就会进入漫长的安装过程, 全程大概需要半个小时, 只要挂在那边就行了。

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```
Running ...  
Installing [3222/3868, time/total: 37:36/44:32]: subfig [492k]  
Installing [3223/3868, time/total: 37:37/44:33]: subfigmat [283k]  
Installing [3224/3868, time/total: 37:37/44:33]: subfigure [377k]  
Installing [3225/3868, time/total: 37:38/44:33]: subfiles [243k]  
Installing [3226/3868, time/total: 37:39/44:34]: subfloat [97k]  
Installing [3227/3868, time/total: 37:39/44:34]: substances [571k]  
Installing [3228/3868, time/total: 37:40/44:35]: substitutefont [1399k]  
Installing [3229/3868, time/total: 37:41/44:35]: substr [20k]  
Installing [3230/3868, time/total: 37:41/44:35]: subsubscripts [101k]  
Installing [3231/3868, time/total: 37:42/44:36]: subtext [44k]  
Installing [3232/3868, time/total: 37:42/44:36]: sudoku [60k]  
Installing [3233/3868, time/total: 37:43/44:37]: sudokubundle [310k]  
Installing [3234/3868, time/total: 37:44/44:38]: suitesi [1073k]  
Installing [3235/3868, time/total: 37:45/44:38]: svgconf [75k]  
Installing [3236/3868, time/total: 37:45/44:38]: superiors [330k]  
Installing [3237/3868, time/total: 37:46/44:39]: supertabular [271k]  
Installing [3238/3868, time/total: 37:47/44:40]: suppose [195k]  
Installing [3239/3868, time/total: 37:47/44:40]: susy [2k]  
Installing [3240/3868, time/total: 37:48/44:41]: svg [1108k]  
Installing [3241/3868, time/total: 37:49/44:41]: svg-inkscape [194k]  
Installing [3242/3868, time/total: 37:49/44:41]: svgcolor [5k]  
Installing [3243/3868, time/total: 37:50/44:42]: svn [440k]  
Installing [3244/3868, time/total: 37:50/44:41]: svn-multi [443k]  
Installing [3245/3868, time/total: 37:51/44:42]: svn-multi.win32 [1k]  
Installing [3246/3868, time/total: 37:52/44:43]: svn-prov [249k]  
Installing [3247/3868, time/total: 37:52/44:43]: svninfo [269k]  
Installing [3248/3868, time/total: 37:53/44:44]: svrsymbols [128k]  
Installing [3249/3868, time/total: 37:54/44:45]: swffigure [1575k]  
Installing [3250/3868, time/total: 37:55/44:45]: swingraf [61k]  
Installing [3251/3868, time/total: 37:55/44:45]: swrule [2k]  
Installing [3252/3868, time/total: 37:56/44:46]: syllogism [306k]  
Installing [3253/3868, time/total: 37:56/44:45]: symbol [36k]  
Installing [3254/3868, time/total: 37:57/44:47]: sympytexpackage [23k]  
Installing [3255/3868, time/total: 37:57/44:47]: syncTeX [42k]  
Installing [3256/3868, time/total: 37:58/44:48]: syncTeX.win32 [131k]  
Installing [3257/3868, time/total: 37:58/44:48]: synproof [63k]  
Installing [3258/3868, time/total: 37:59/44:49]: syntax [105k]
```

(6) 安装好后就会提示你，“欢迎进入 TeX Live 的世界！”



```
Running ...  
E:/texlive/2022/texmf-dist ...  
mktxlsr: Updating E:/texlive/2022/texmf-var/ls-R...  
mktxlsr: Updated E:/texlive/2022/texmf-var/ls-R...  
mktxlsr: Updating E:/texlive/2022/texmf-config/ls-R...  
mktxlsr: Updated E:/texlive/2022/texmf-config/ls-R...  
mktxlsr: Updating E:/texlive/2022/texmf-dist/ls-R...  
mktxlsr: Updated E:/texlive/2022/texmf-dist/ls-R...  
mktxlsr: Done.  
running updmap-sys --nohash ...done  
re-running mktxlsr E:/texlive/2022/texmf-var E:/texlive/2022/texmf-config ...  
mktxlsr: Updating E:/texlive/2022/texmf-var/ls-R...  
mktxlsr: Updated E:/texlive/2022/texmf-var/ls-R...  
mktxlsr: Updating E:/texlive/2022/texmf-config/ls-R...  
mktxlsr: Updated E:/texlive/2022/texmf-config/ls-R...  
mktxlsr: Done.  
setting up ConTeXt cache: running mtxrun --generate ...done  
pre-generating all format files, be patient...  
running fmsutil-sys --no-error-if-no-engine=luajithbtex,luajittex,mlflajit --no-strict --all ...done  
running path adjustment actions  
finished with path adjustment actions  
running package-specific postactions  
复制了 3 个文件  
复制了 1 个文件  
Running fc-cache -v -r  
finished with package-specific postactions  
  
欢迎进入 TeX Live 的世界!  
  
See E:/texlive/2022/index.html for links to documentation.  
The TeX Live web site (https://tug.org/texlive/) contains many updates and corrections. TeX Live is a joint project of the TeX user groups around the world; please consider supporting it by joining the group best for you. The list of groups is available on the web at https://tug.org/usergroups.html.  
LogFile: E:/texlive/2022/install-tl.log  
Installed on platform win32 at E:/texlive/2022
```

到这一步，我们的 LaTeX 就安装完成了，接下来是 VSCode 的环境配置了，不过要记一下自己的安装路径。

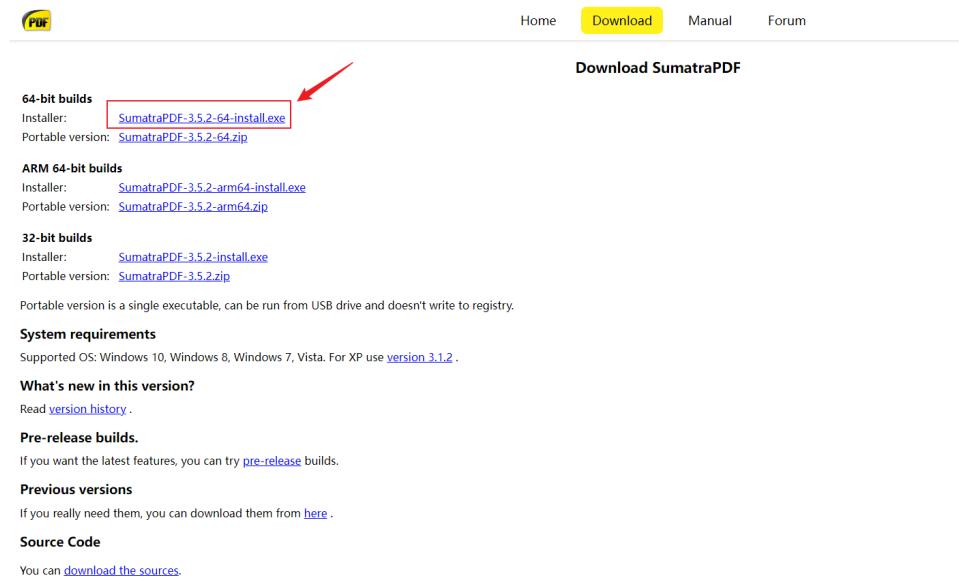
二、sumatraPDF 安装

1、sumatraPDF 下载

sumatraPDF 地址：

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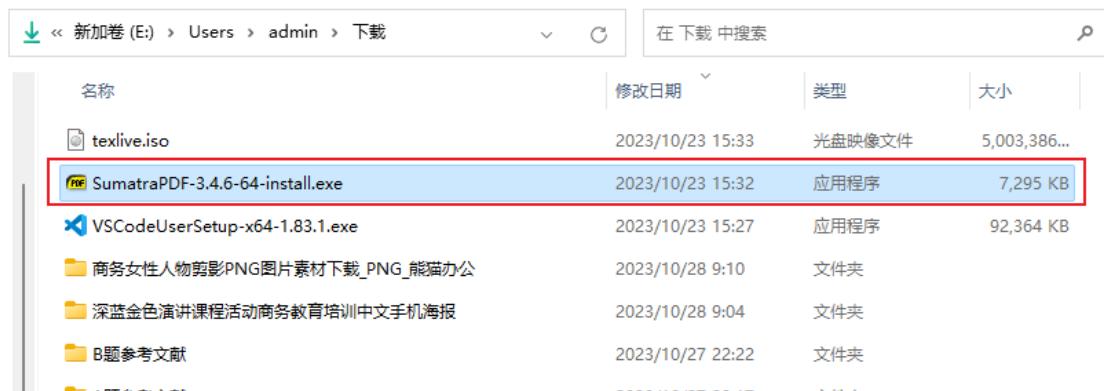
<https://www.sumatrapdfreader.org/download-free-pdf-viewer.html>



The screenshot shows the official download page for SumatraPDF. At the top, there are tabs for Home, Download (which is highlighted in yellow), Manual, and Forum. Below the tabs, there are sections for '64-bit builds' and 'ARM 64-bit builds'. Under '64-bit builds', there is a link to 'SumatraPDF-3.5.2-64-install.exe' which is highlighted with a red box and a red arrow pointing to it. There are also links for 'Portable version: SumatraPDF-3.5.2-64.zip'. Below these, there are sections for '32-bit builds', 'System requirements', 'What's new in this version?', 'Pre-release builds.', 'Previous versions', and 'Source Code'.

2、sumatraPDF 安装

(1) 双击安装程序



(2) 点击选项



(3) 自己调整安装位置，但要记住路径

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(4) 安装成功即可

三、Vscode 安装配置

1、Vscode 下载（官网下载即可）

vscode 下载地址：

<https://code.visualstudio.com/>

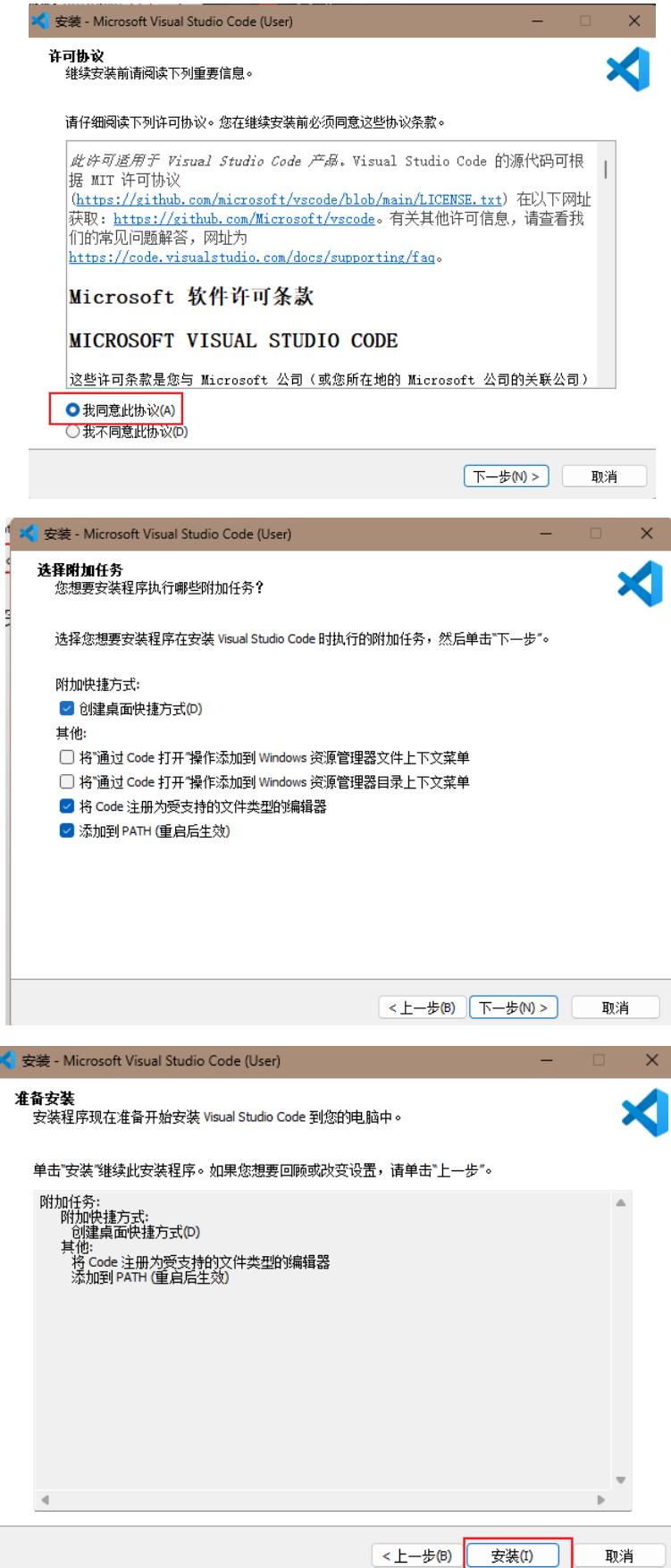
The screenshot shows the official Visual Studio Code website. The top navigation bar includes links for 'Visual Studio Code', 'Docs', 'Updates', 'Blog', 'API', 'Extensions', 'FAQ', and 'Learn'. A 'Download' button is on the right. The main content area features the slogan 'Code editing. Redefined.' and a 'Free. Built on open source. Runs everywhere.' message. Below this is a download section for Windows, macOS, and Linux. The Windows section is highlighted with a red box around the 'Stable Build' button. The Linux section also has a red box around its download buttons. To the right, the VSCode interface is shown with several extensions installed, such as Python, GitLens, C/C++, ESLint, Debugger for Chrome, Language Support, vscode-icons, and Vetur. The code editor shows some JavaScript code related to service workers.

2、下载完成后双击安装

双击安装程序，后续操作如下：

名称	修改日期	类型	大小
texlive.iso	2023/10/23 15:33	光盘映像文件	5,003,386...
SumatraPDF-3.4.6-64-install.exe	2023/10/23 15:32	应用程序	7,295 KB
VSCodeUserSetup-x64-1.83.1.exe	2023/10/23 15:27	应用程序	92,364 KB

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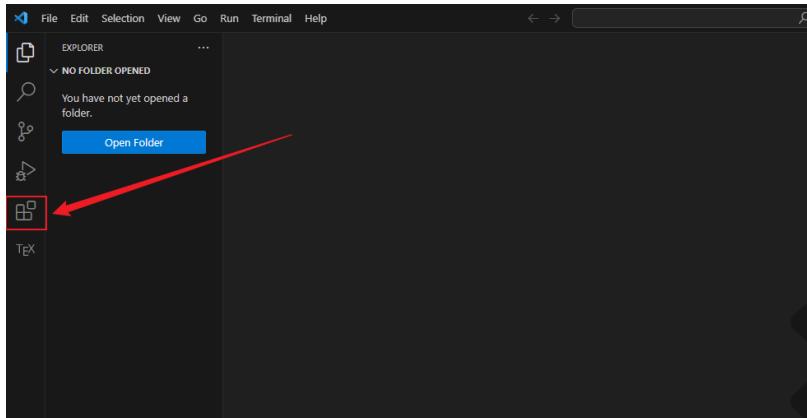


2、Vscode 插件安装

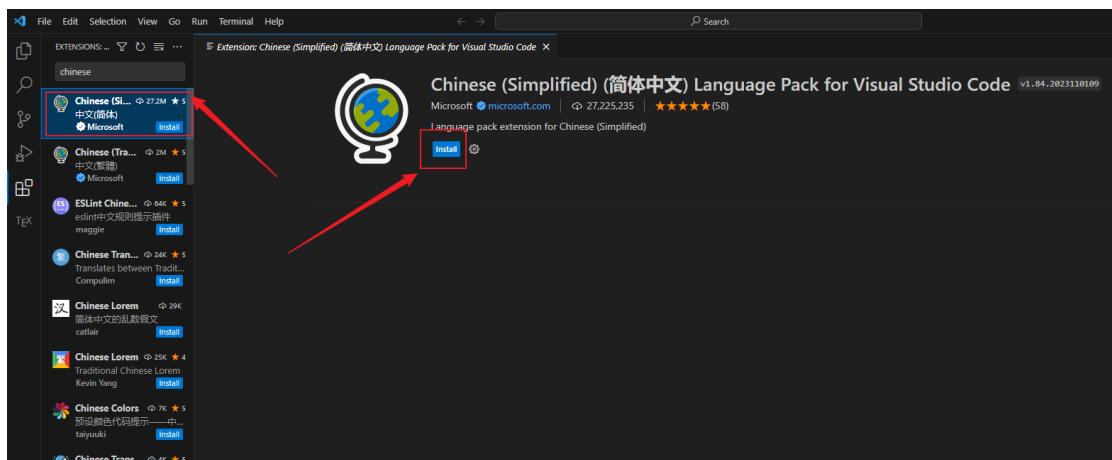
教程安装包已放在微信公众号：【数模加油站】回复【软件 10】即可免费领取教程和安装包。

(1) 中文插件安装

打开扩展程序安装截面（下图位置或按 **ctrl+shift+X**）



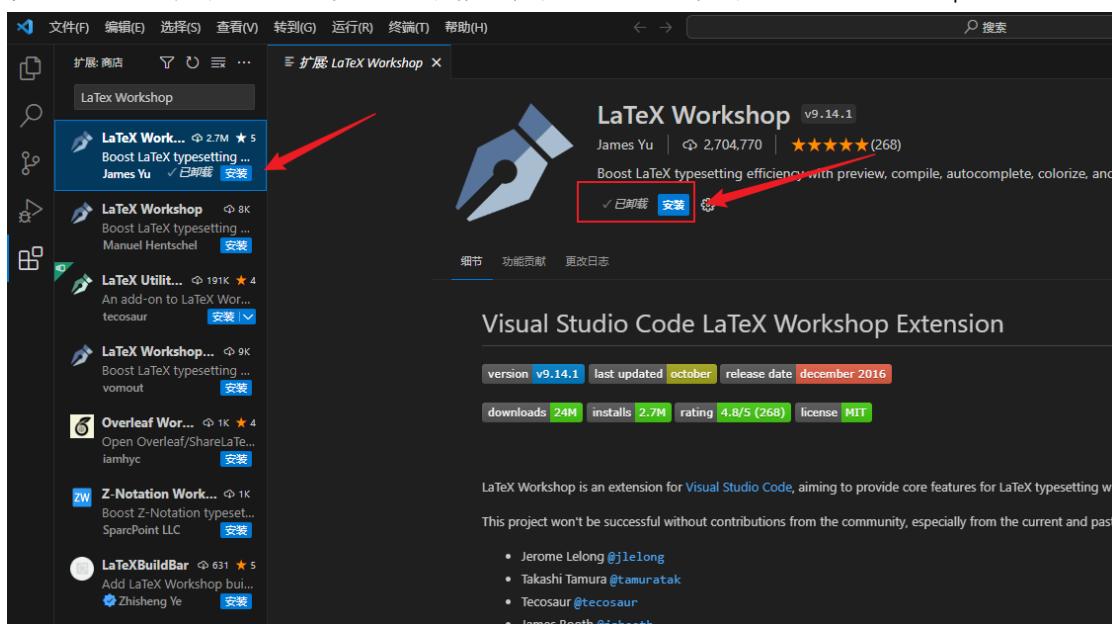
搜索 **chinese**。



安装重启即可变为中文界面。

(2) Vscode 的 Latex 插件安装

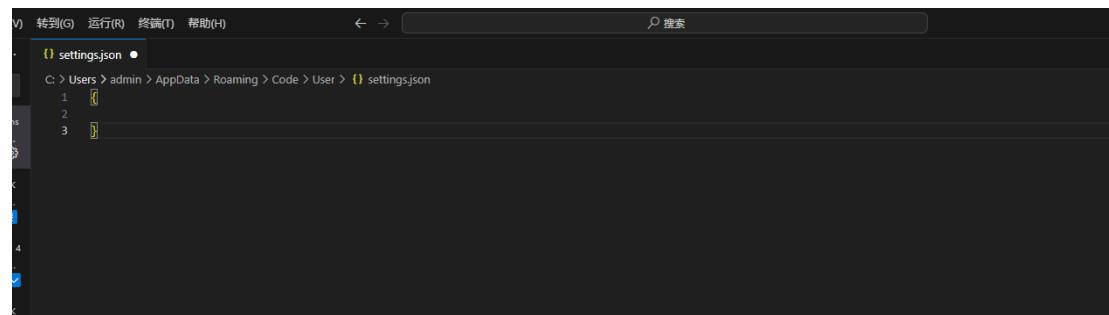
在 VSCode 中安装 LaTeX 的相关拓展插件，其中最重要的就是 LaTeX Workshop。



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(3) 环境配置

在 VSCode 中使用快捷键 Ctrl+Shift+P, 出现一个搜索框, 输入 JSON, 选择 Preferences:Open User Settings(JSON)这个, 从而就能打开 settings.json, 进行环境配置了。



复制粘贴下述代码, 保存, 注意需要修改 Vscode 和 SumatraPDF 对应的路径。怎么改路径可以看 B 站 【数模加油站】Latex 教学安装视频。

```
{  
  "latex-workshop.latex.tools": [  
    {  
      "name": "pdflatex",  
      "command": "pdflatex",  
      "args": [  
        "-synctex=1",  
        "-interaction=nonstopmode",  
        "-file-line-error",  
        "%DOC%"  
      ]  
    },  
    {
```

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```
"name": "xelatex",
"command": "xelatex",
"args": [
    "-synctex=1",
    "-interaction=nonstopmode",
    "-file-line-error",
    "%DOC%"
],
},
{
    "name": "bibtex",
    "command": "bibtex",
    "args": [
        "%DOCFILE%"
    ]
},
],
,

"latex-workshop.latex.recipes": [
{
    "name": "pdflatex",
    "tools": [
        "pdflatex"
    ]
},
{
    "name": "xelatex",
    "tools": [
        "xelatex"
    ]
},
{
    "name": "xe->bib->xe->xe",
    "tools": [
        "xelatex",
        "bibtex",
        "xelatex",
        "xelatex"
    ]
},
{
    "name": "pdflatex -> bibtex -> pdflatex*2",
    "tools": [

```

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```
        "pdflatex",
        "bibtex",
        "pdflatex",
        "pdflatex"
    ],
}

],
]

"latex-workshop.latex.autoBuild.run": "never",
"latex-workshop.synctex.afterBuild.enabled": true,

"latex-workshop.view.pdf.viewer": "external",
"latex-workshop.view.pdf.external.viewer.command": "D:/Program
Files/SumatraPDF/SumatraPDF.exe",

"latex-workshop.view.pdf.external.synctex.command": "D:/Program
Files/SumatraPDF/SumatraPDF.exe",
"latex-workshop.view.pdf.external.synctex.args": [
    "-forward-search",
    "%TEX%",
    "%LINE%",
    "-reuse-instance",
    "-inverse-search",
    "\"D:/Users/admin/AppData/Local/Programs/Microsoft VS Code/Code.exe\" -g
\"%f:%l\",
"%PDF%"
],
"latex-workshop.view.pdf.internal.synctex.keybinding": "double-click"
}
```

好的，现在环境就已经配置好了。大家可以利用 Vscode 进行 latex 编写，并实现和 PDF 的双向互动。