

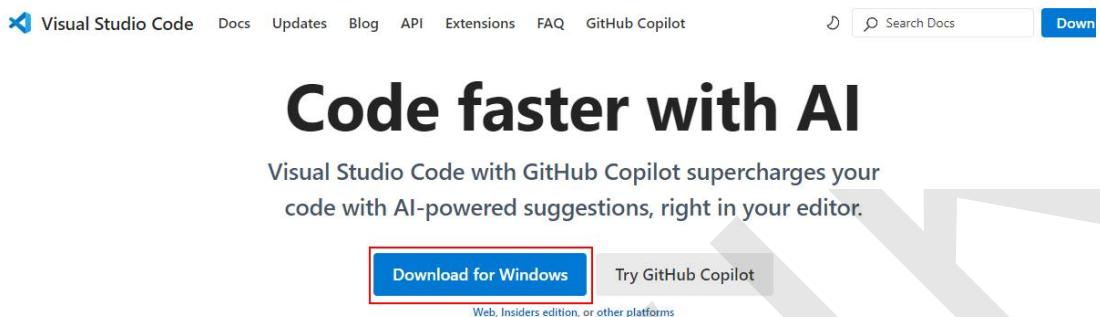
使用 VS Code 搭建 ESP-IDF 环境

1、下载并安装 Visual Studio Code

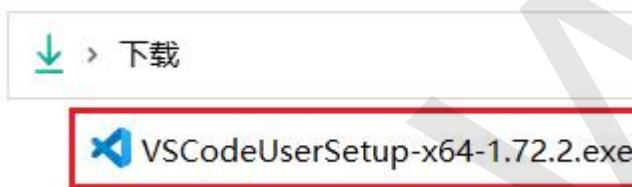
首先进入到 VScode 的官网，选择自己电脑适配的 Win 版本

官网地址：<https://code.visualstudio.com/>

点击 Download for Windows 进行下载



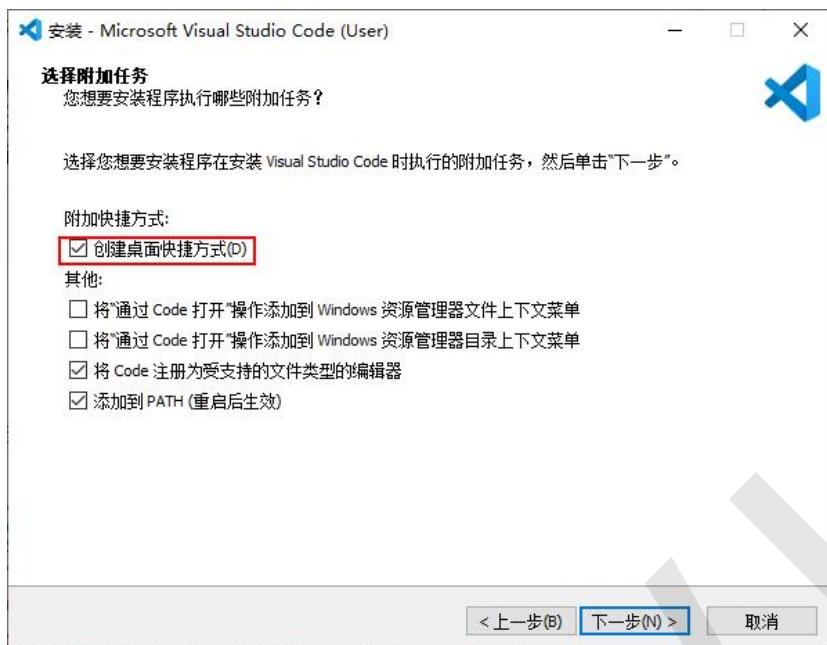
下载完成后双击 exe 文件进行安装



选择同意此协议，点击下一步



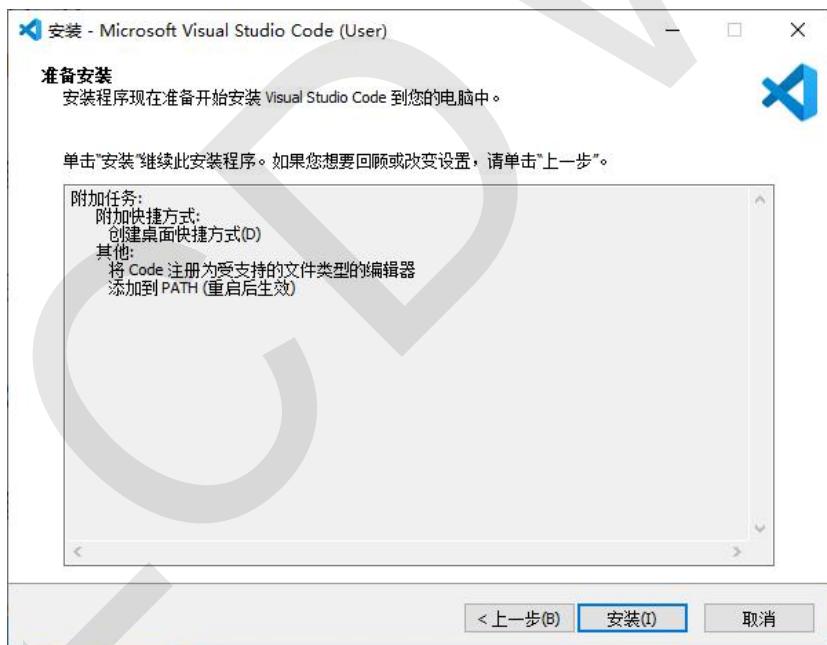
如果不想要创建快捷方式，此处可以不勾选，点击下一步



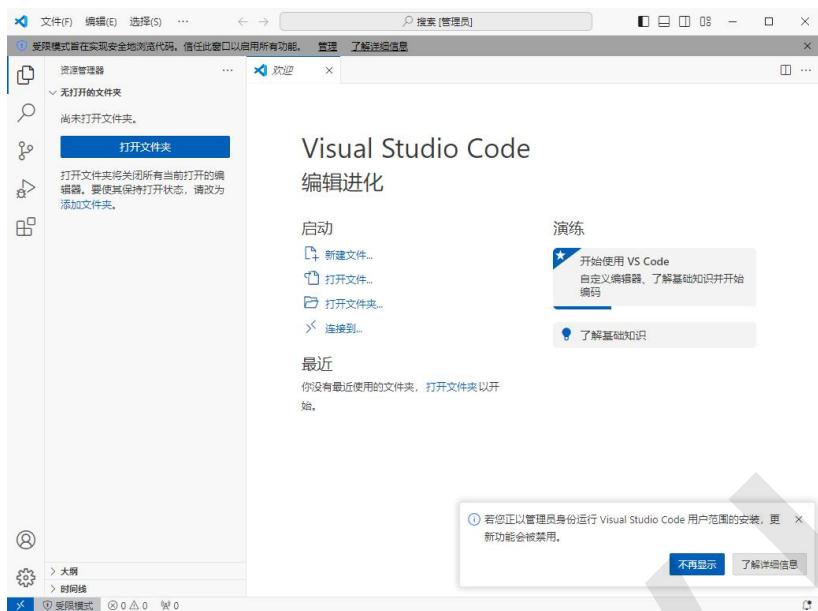
选择目标位置安装



点击安装后开始安装



安装完成后的界面如下



2、下载安装 Python 配置环境变量

进入 Python 官网：

<https://www.python.org/downloads/>

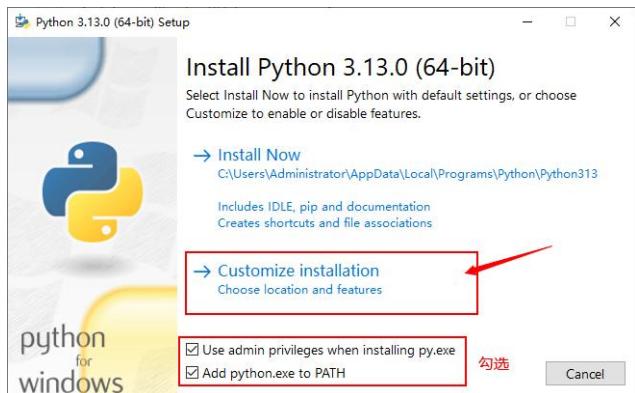
选择 3 以上的版本下载，我这里下载的是 3.13

Release version	Release date	Click for more
Python 3.13.0	Oct. 7, 2024	Download Release Notes
Python 3.12.7	Oct. 1, 2024	Download Release Notes
Python 3.11.10	Sept. 7, 2024	Download Release Notes
Python 3.10.15	Sept. 7, 2024	Download Release Notes
Python 3.12.6	Sept. 6, 2024	Download Release Notes
Python 3.9.20	Sept. 6, 2024	Download Release Notes
Python 3.8.20	Sept. 6, 2024	Download Release Notes

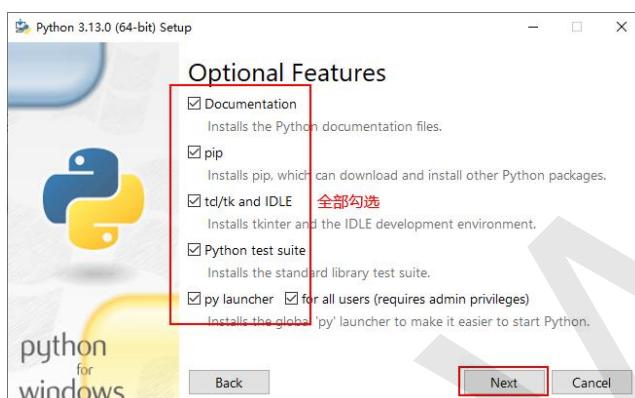
打开安装包



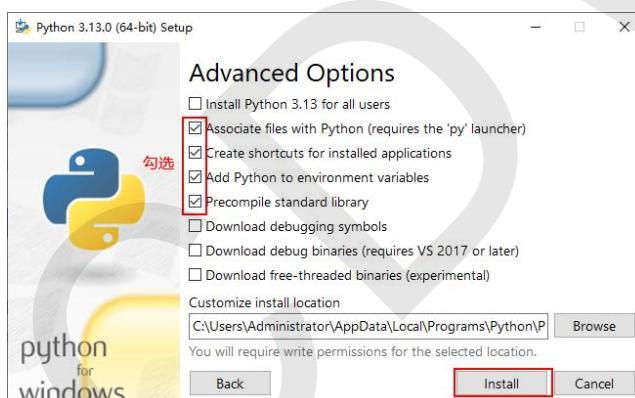
下面两个一定要勾选，不然后面得自己去配置环境变量



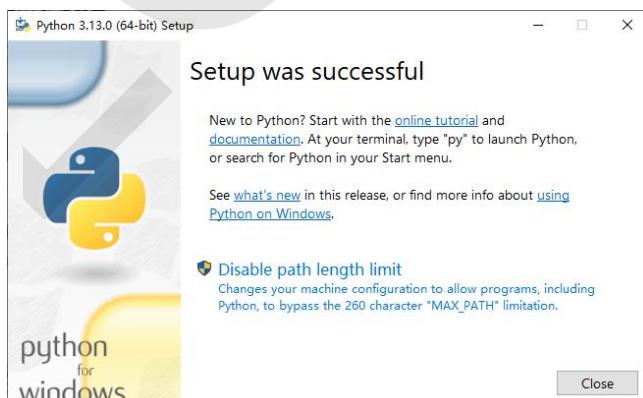
全部勾选即可



使用默认路径即可

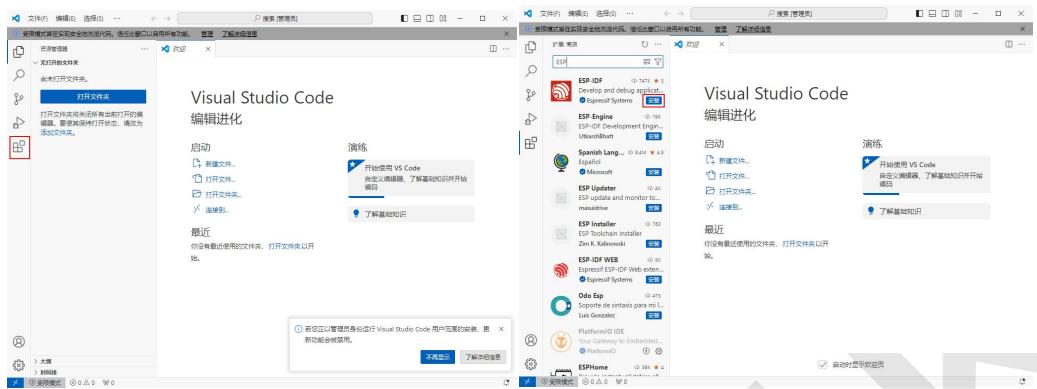


完成



3、安装 ESP-IDF 扩展

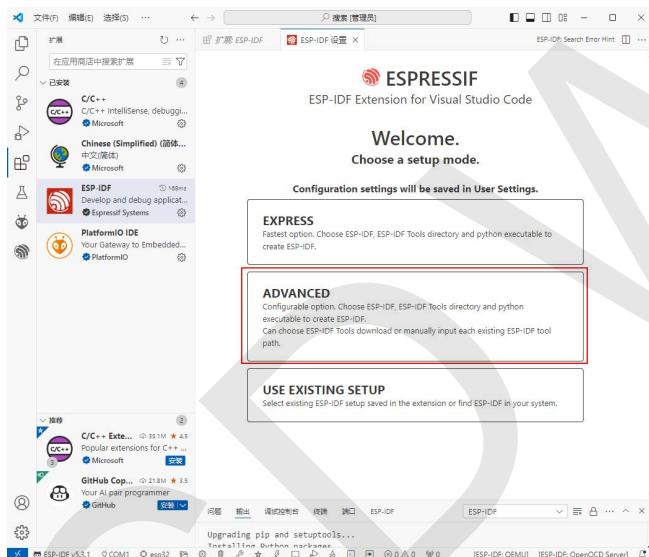
单击 Visual Studio Code 侧面活动栏中的扩展图标，搜索 ESP-IDF 扩展，点击安装



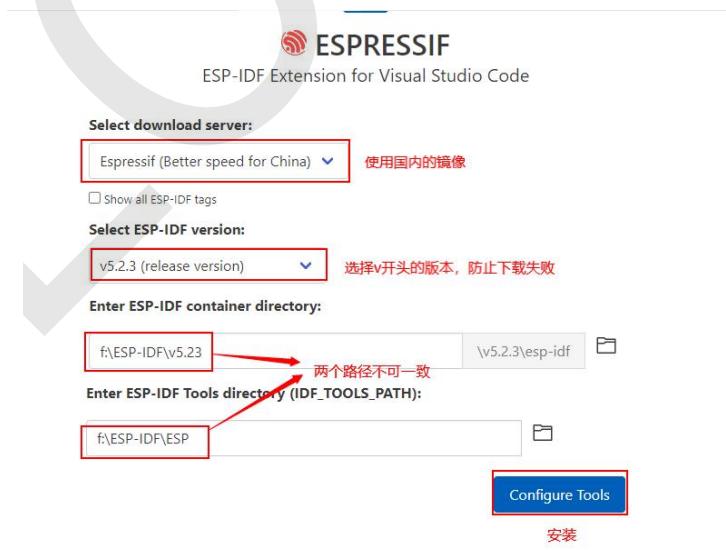
按 F1 或 Ctrl+Shift+P 打开命令行并输入 ESP-IDF extension

单击 configure esp-idf extension 等待右下角配置完成

点击 ADVANCED 安装



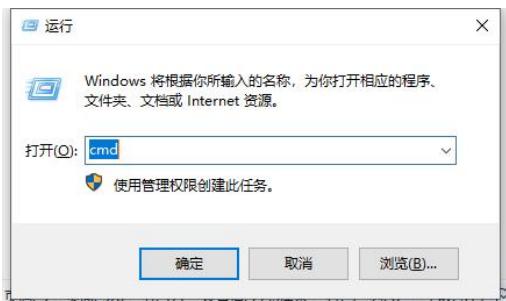
根据以下步骤安装（安装时间较长，约 10~20 分钟）



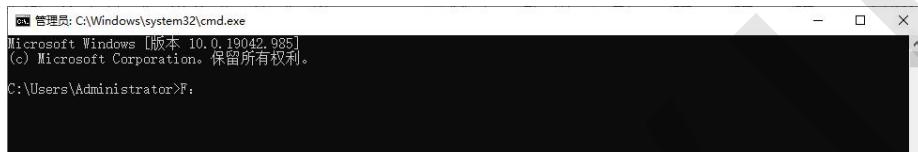
安装时注意关闭杀毒软件

等待下载期间可以更换 Python 的虚拟环境的源为国内源

按下 Win+R，输入 cmd 打开命令行



打开文件存储目录



找到这个文档，复制对应路径



输入 cd+盘符+路径

```
C:\Users\Administrator>F:  
F:\>cd f:\ESP-IDF\ESP\tools\idf-python\3.11.2\Scripts
```

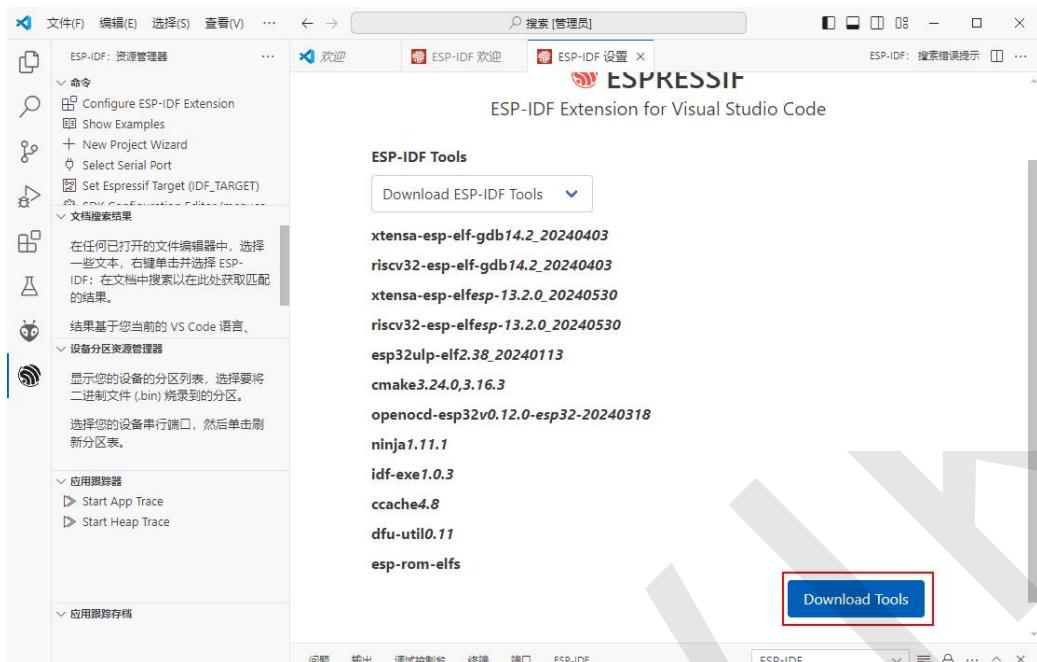
换源输入（此处的镜像可以自行修改）

文件名+config set global.index-url <https://pypi.tuna.tsinghua.edu.cn/simple>

```
f:\ESP-IDF\ESP\tools\idf-python\3.11.2\Scripts>pip3 config set global.index-url https://pypi.tuna.tsinghua.edu.cn/simple  
Writing to C:\Users\Administrator\AppData\Roaming\pip\pip.ini  
f:\ESP-IDF\ESP\tools\idf-python\3.11.2\Scripts>pip3.11 config set global.index-url https://pypi.tuna.tsinghua.edu.cn/simple  
Writing to C:\Users\Administrator\AppData\Roaming\pip\pip.ini  
f:\ESP-IDF\ESP\tools\idf-python\3.11.2\Scripts>
```

等待插件下载

点击 Download Tools



安装完成后的界面如下：

