

# 国产大模型

# Kimi (月之暗面)

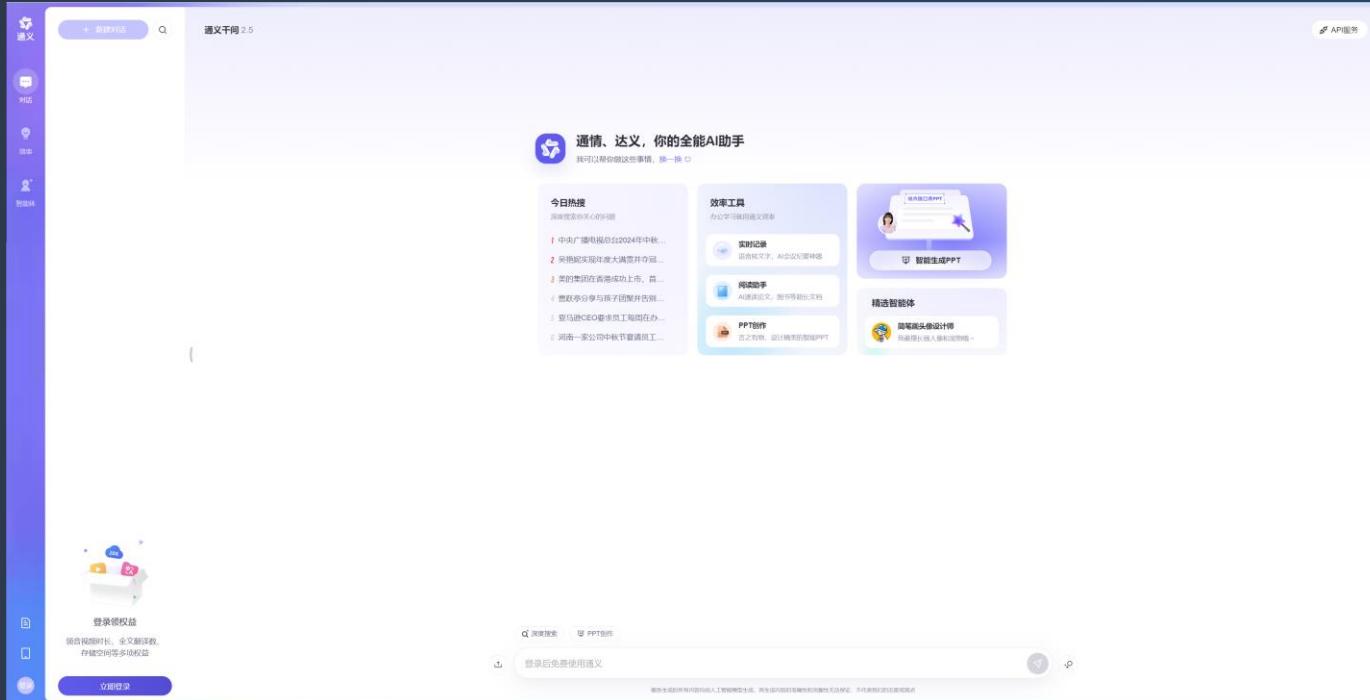
- <https://kimi.moonshot.cn/>



Kimi是由月之暗面科技有限公司开发的智能助手，擅长处理长文本和多语言对话，具备搜索、编程辅助和文件解读等功能。它支持高达200万汉字的输入，适用于多种专业领域，旨在提升工作效率。Kimi代表了国内AI技术的突破，引领智能助手的新趋势。

# 通义千问（阿里云）

- <https://tongyi.aliyun.com/qianwen/>



通义千问是阿里云开发的一个大型预训练模型，它的主要功能是生成与给定词语相关的高质量文本，以帮助用户获得他们需要的信息、解决问题或完成任务。我是基于通义千问模型打造的助手，能够理解和生成多种类型的文本，包括但不限于文章、故事、诗歌、对话等，并且能够根据用户的需求调整输出的风格和复杂度。

# 智谱清言

- <https://chatglm.cn/?lang=zh>



“智谱清言”是一个人工智能助手，它基于智谱 AI 公司于 2024 年联合训练的语言模型 GLM-4 开发而成，它的任务是针对用户的问题和要求提供适当的答复和支持。

# 国产大模型应用

国产大语言模型在近年来取得了显著的发展，已经成为全球科技竞争的关键领域之一。目前，国内大语言模型的发展呈现出多元化的竞争格局，主要由互联网公司、AI公司、学术及科研机构以及行业专家团队初创公司四大派系构成。其中，百度、阿里巴巴、腾讯等互联网大厂在技术发展和市场应用方面走在前列。

技术层面上，国产大语言模型不断迭代，性能稳步提升。例如，百度的文心一言、阿里巴巴的通义千问等代表性模型在多个领域实现了应用，并展现出了强大的技术实力和市场潜力。在商业化探索方面，国产大模型正通过技术创新、行业合作和安全合规等多维度努力，加速AI技术的商业化落地和产业智能化转型。

市场规模方面，据相关数据显示，中国大语言模型市场规模在2023年实现了快速增长，增长率突破100%，市场规模达到147亿元人民币。预计到2027年，市场规模将达到600亿元，显示出巨大的市场潜力和发展空间。

在竞争力评价方面，国产大语言模型在上下文理解、响应速度、输出信息多样化等方面具有较强竞争力，并且在知识储备和长文本阅读能力方面也展现出了优势。

总体来看，国产大语言模型正通过技术创新和市场应用的双轮驱动，加速推动AI技术的商业化落地和产业智能化转型，展现出了强劲的发展势头和广阔的发展前景。



# 实验软件安装

Anaconda

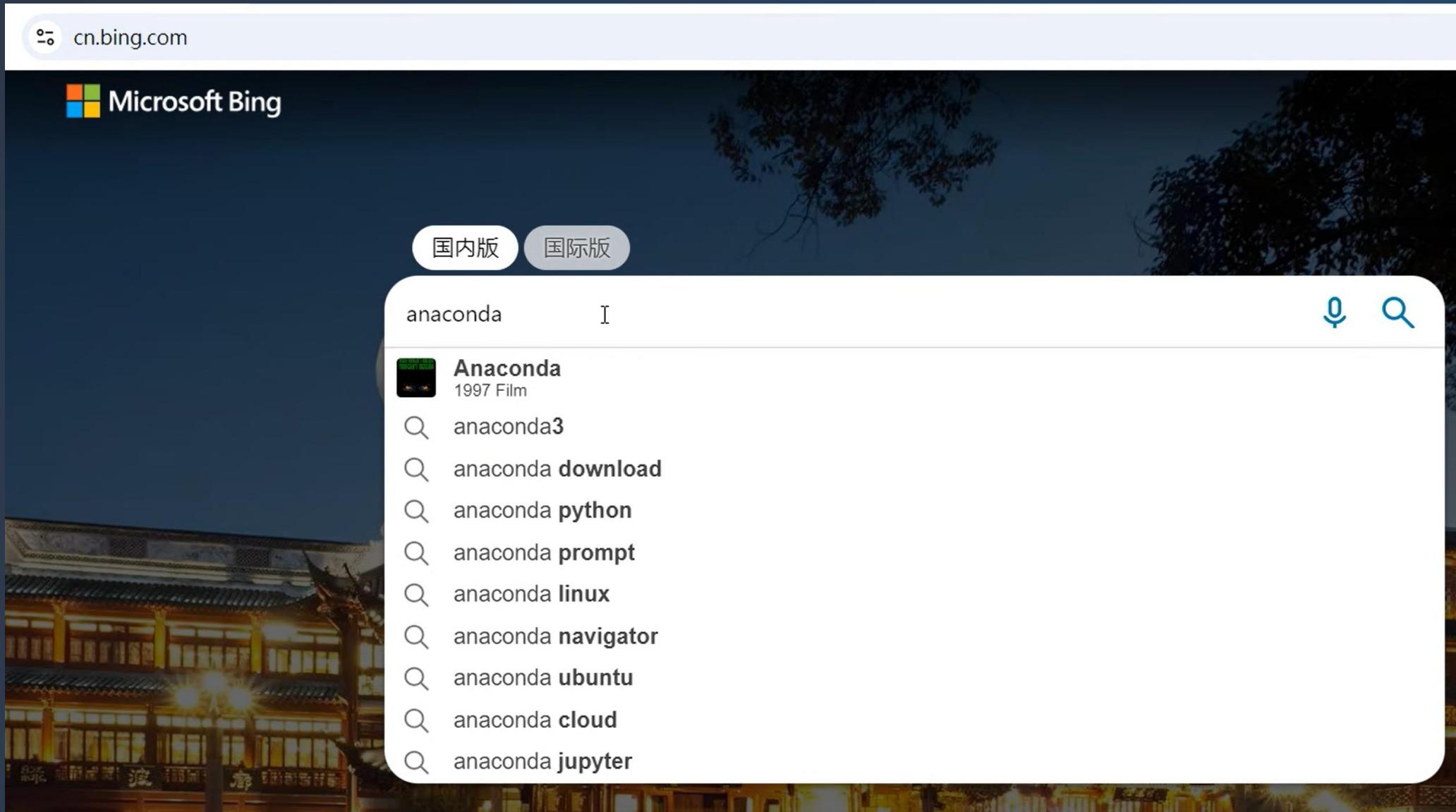
VScode

# Anaconda

Anaconda 是一个流行的开源Python和R语言的发行版，它旨在简化包管理和部署。Anaconda 包含了 conda、Python、R语言以及一系列的科学计算、数据分析和机器学习相关的库和工具。它主要用于数据科学、机器学习、科学计算和分析领域。Anaconda 的主要特点包括：

- 1.包管理器**: conda 是一个包管理器和环境管理器，可以轻松安装、运行和更新软件包和库。
- 2.跨平台**: 支持 Windows、macOS 和 Linux 系统。
- 3.环境管理**: 可以创建隔离的环境，用于不同的项目，避免依赖冲突。
- 4.大量预安装的库**: Anaconda 预装了许多常用的数据科学和机器学习库，如 NumPy、Pandas、SciPy、Matplotlib、TensorFlow、Scikit-learn 等。
- 5.Anaconda Navigator**: 一个图形用户界面，用于管理 Anaconda 环境和启动应用程序。

## 1.搜索官方下载链接



<https://www.anaconda.com/download/success>

## 1. 搜索官方下载链接



Anaconda 中文网

<https://anaconda.org.cn> ▾

### Anaconda 中文网

WEB Anaconda 是一个免费、易于安装的包管理器、环境管理器和 Python 发行版，适用于 Windows、macOS 和 Linux。Anaconda 中文网提供了 Anaconda 个人版、商业版、团 ...



Anaconda Documentation

<https://docs.anaconda.com/anaconda/install> ▾

### Installation — Anaconda documentation

WEB 4 days ago · Learn how to install Anaconda or Miniconda, a Python distribution with hundreds of packages, on Windows, macOS, Linux, or older systems. Find out how to ...

<https://www.anaconda.com/download/success>

# 1.搜索官方下载链接



anaconda.org.cn/anaconda/install/windows/

在 Windows 上安装

在 macOS 上安装

在 Linux 上安装

在 Linux-aarch64 (arm64) 上安装

在 AWS Graviton2 (arm64) 上安装

在 Linux-s390x (IBM Z) 上安装

在 Linux POWER 上安装

以静默模式安装

为多个用户安装

验证您的安装

Anaconda 安装程序文件哈希

从旧版本更新

**① 笔记**

在商业环境中使用 Anaconda? 您可能需要购买许可证才能遵守我们的服务条款。这可以通过Anaconda Commercial Edition、Anaconda Enterprise 来完成。如果您已经购买了商业版, 请在此处完成安装后继续验证商业版部分。

还没有购买商业版? 访问<https://anaconda.cloud/register>以开始使用。

1. [下载 Anaconda 安装程序](#)。 
2. 推荐: [使用 SHA-256 验证数据完整性](#)。有关哈希的更多信息, 请参阅[加密哈希验证怎么样?](#)
3. 双击安装程序启动。

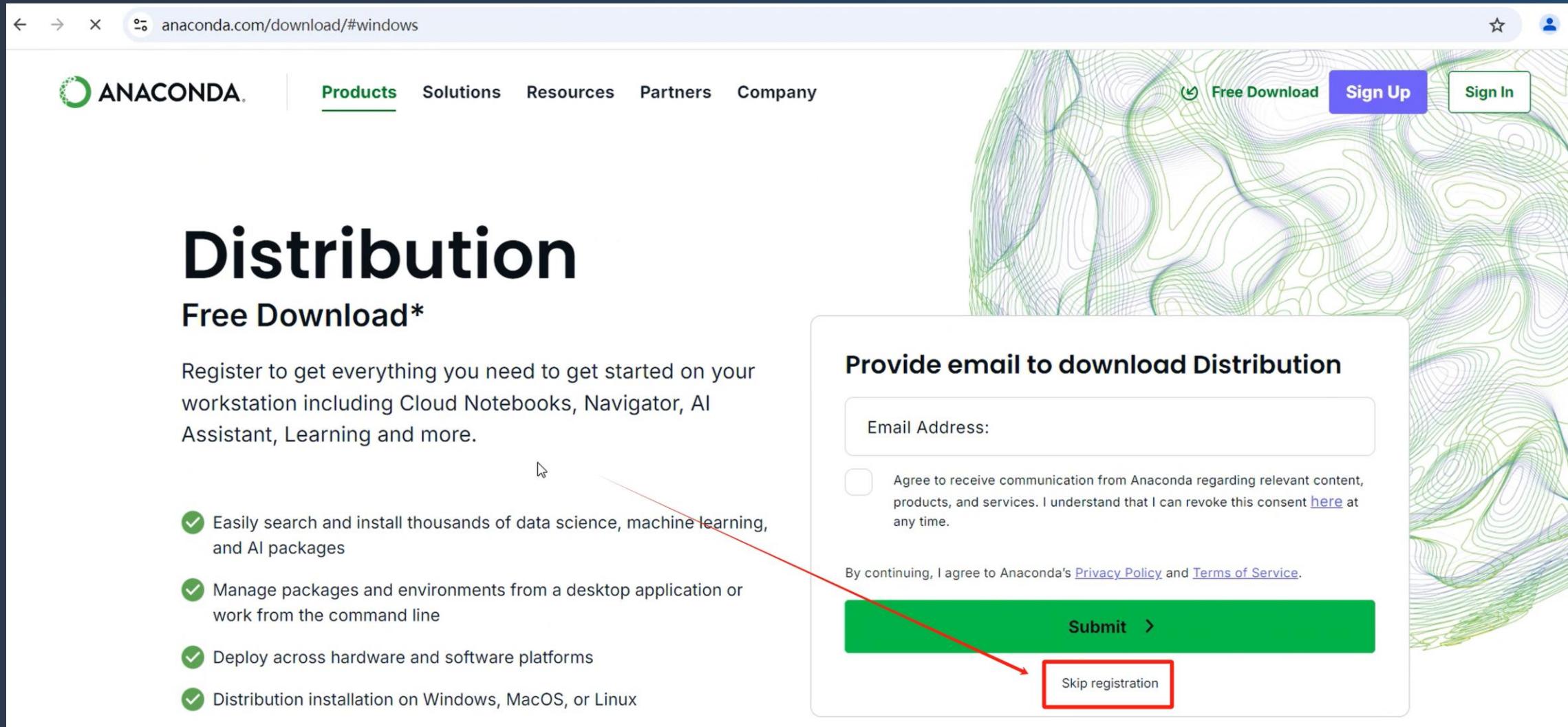
**① 笔记**

为防止出现权限错误, 请勿从“收藏夹”文件夹启动安装程序。

**① 笔记**

如果您在安装过程中遇到问题, 请在安装过程中暂时禁用您的防病毒软件, 然后在安装结束后重新启用它。如果您为所有用户安装您的用户重新安装, 然后重试。

# 1.搜索官方下载链接



anaconda.com/download/#windows

**ANACONDA.** Products Solutions Resources Partners Company

# Distribution

## Free Download\*

Register to get everything you need to get started on your workstation including Cloud Notebooks, Navigator, AI Assistant, Learning and more.

- ✓ Easily search and install thousands of data science, machine learning, and AI packages
- ✓ Manage packages and environments from a desktop application or work from the command line
- ✓ Deploy across hardware and software platforms
- ✓ Distribution installation on Windows, MacOS, or Linux

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<https://www.anaconda.com/download/success>

# 1.搜索官方下载链接

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 Windows

Python 3.12

↓ [64-Bit Graphical Installer \(912.3M\)](#)

 Mac

Python 3.12

↓ 64-Bit (Apple silicon) Graphical Installer (704.7M)

↓ 64-Bit (Apple silicon) Command Line Installer (707.3M)

↓ 64-Bit (Intel chip) Graphical Installer (734.7M)

↓ 64-Bit (Intel chip) Command Line Installer (731.2M)

 Linux

Python 3.12

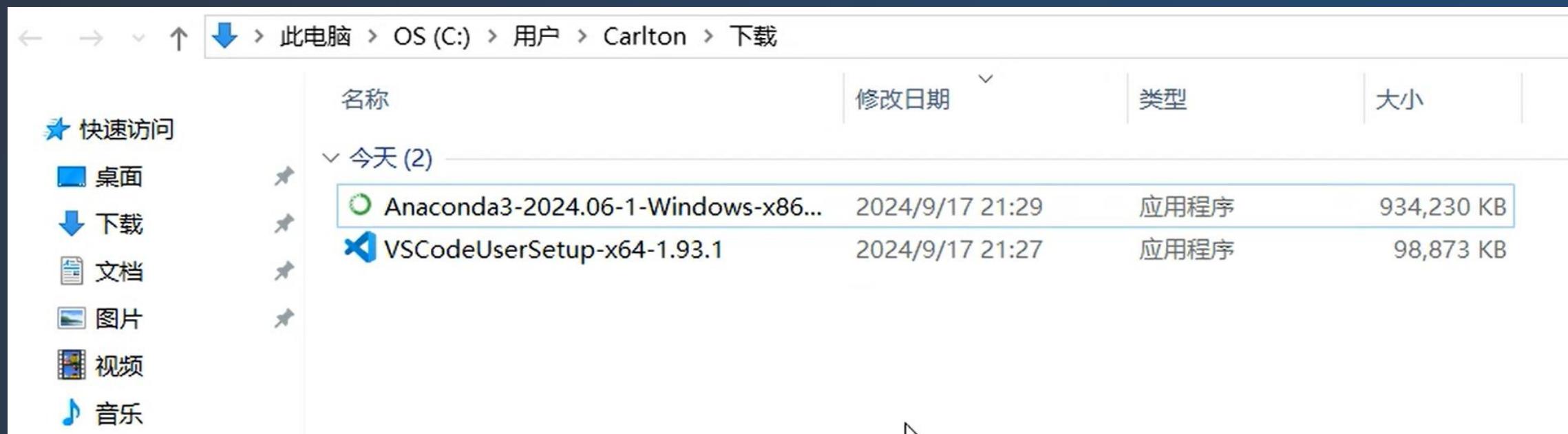
↓ 64-Bit (x86) Installer (1007.9M)

↓ 64-Bit (AWS Graviton2 / ARM64) Installer (800.6M)

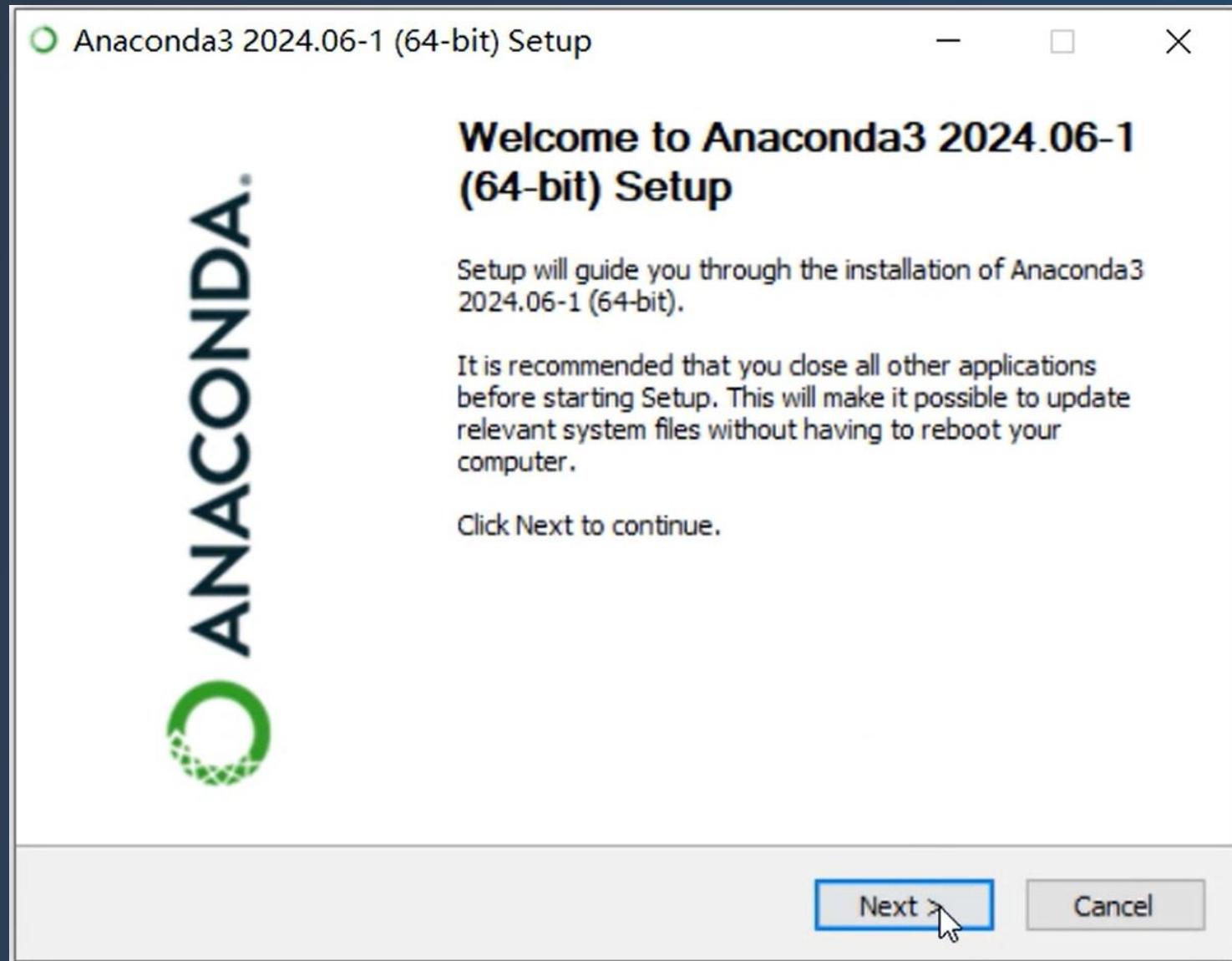
↓ 64-bit (Linux on IBM Z & LinuxONE) Installer (425.8M)

<https://www.anaconda.com/download/success>

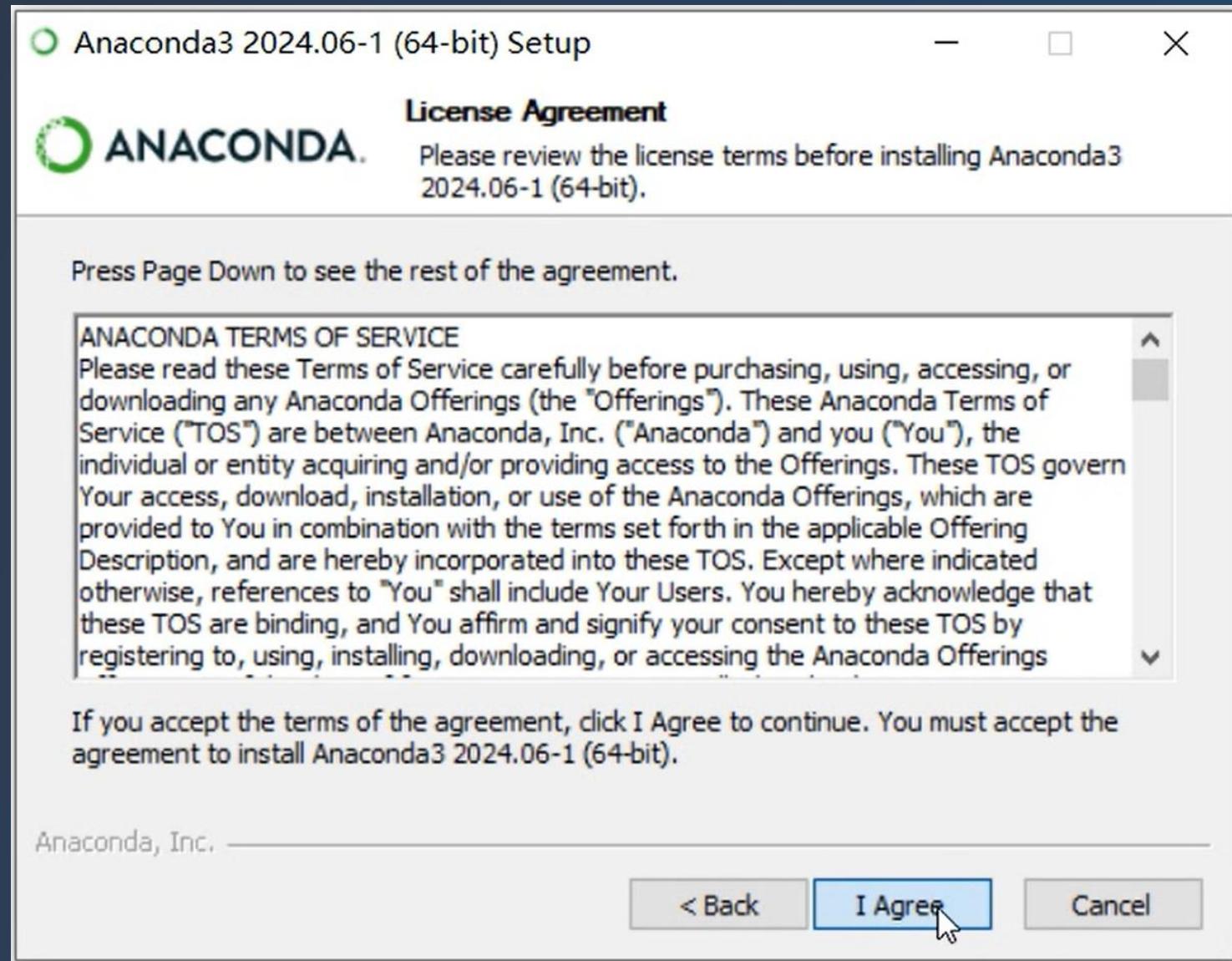
## 2. 下载安装



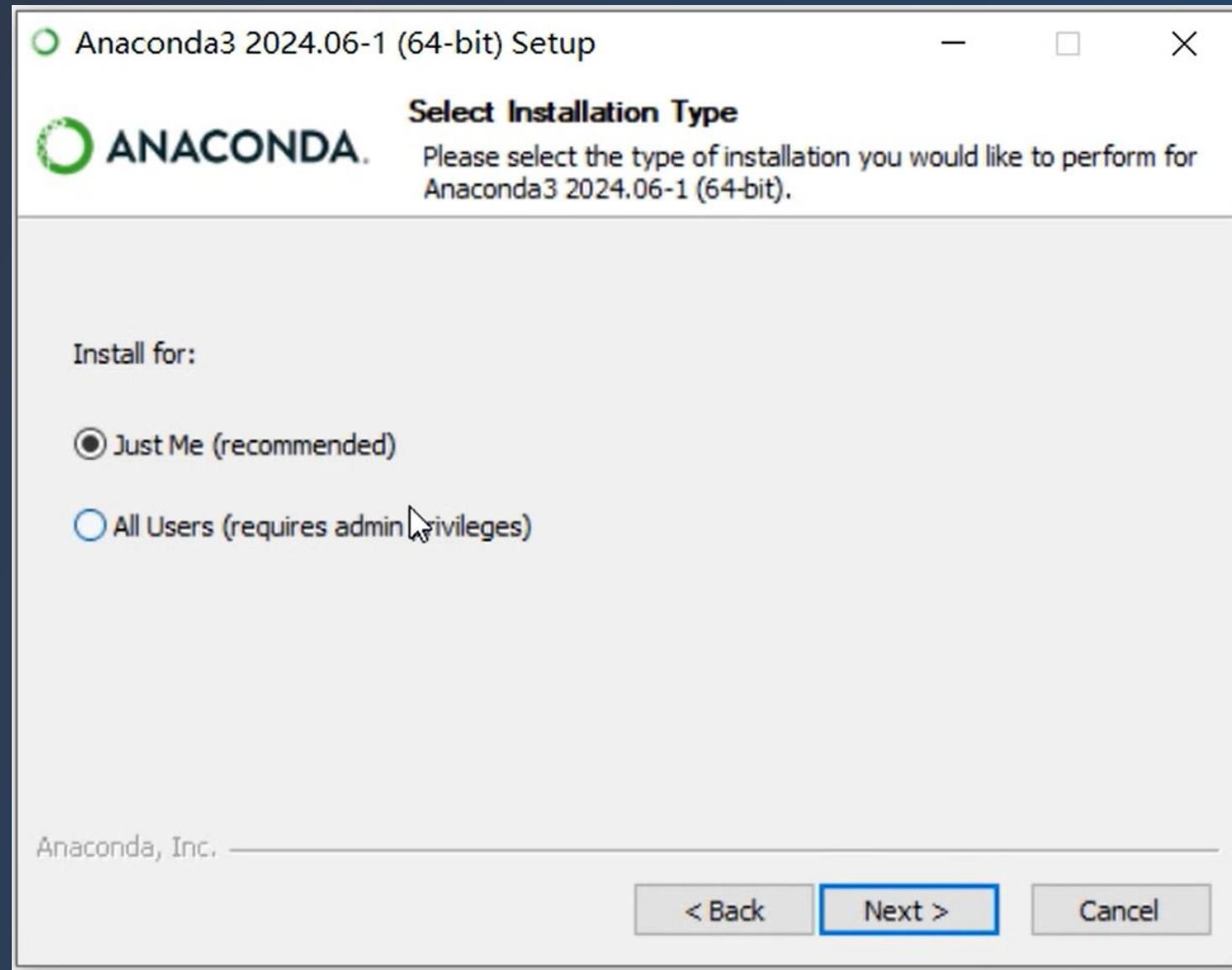
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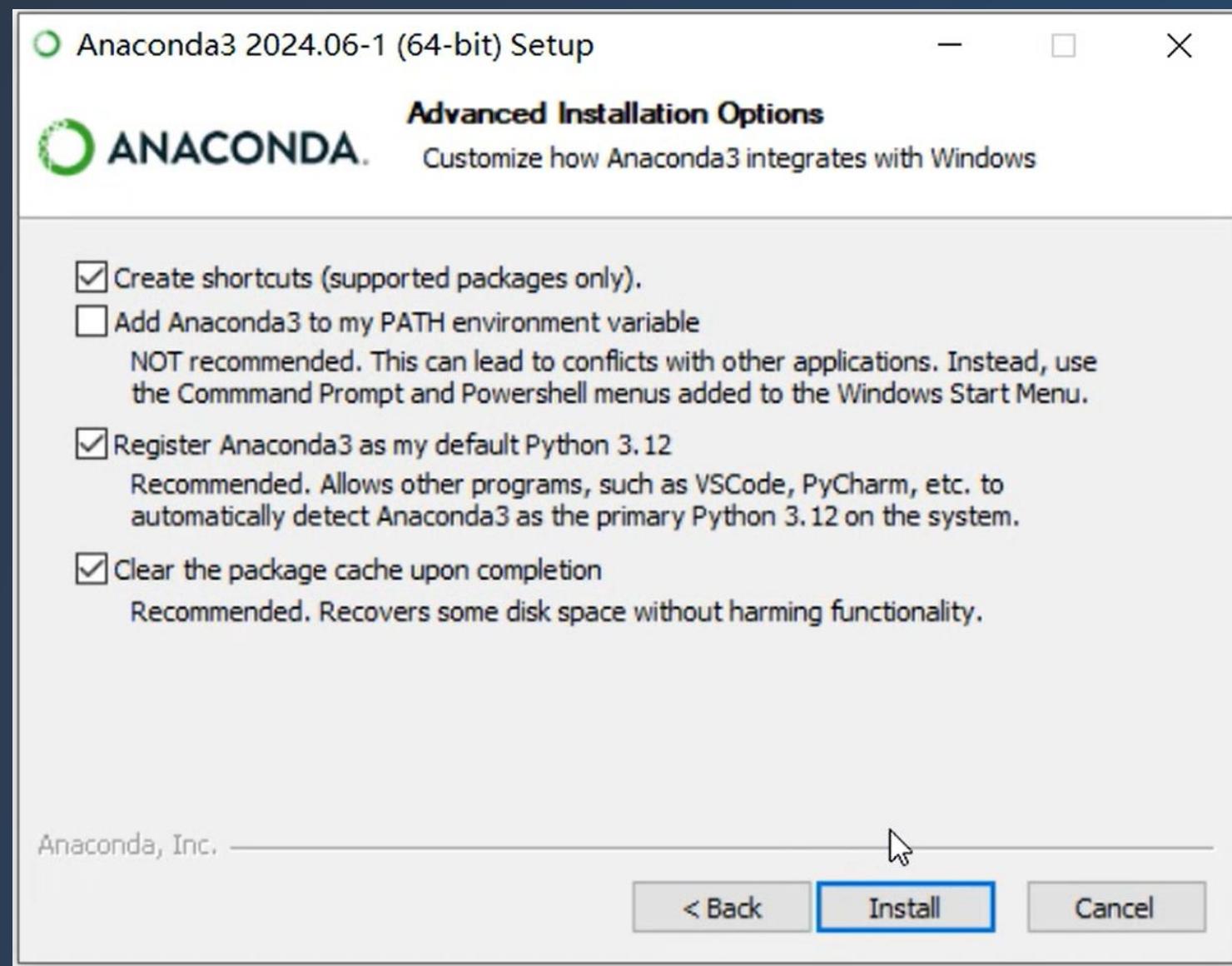
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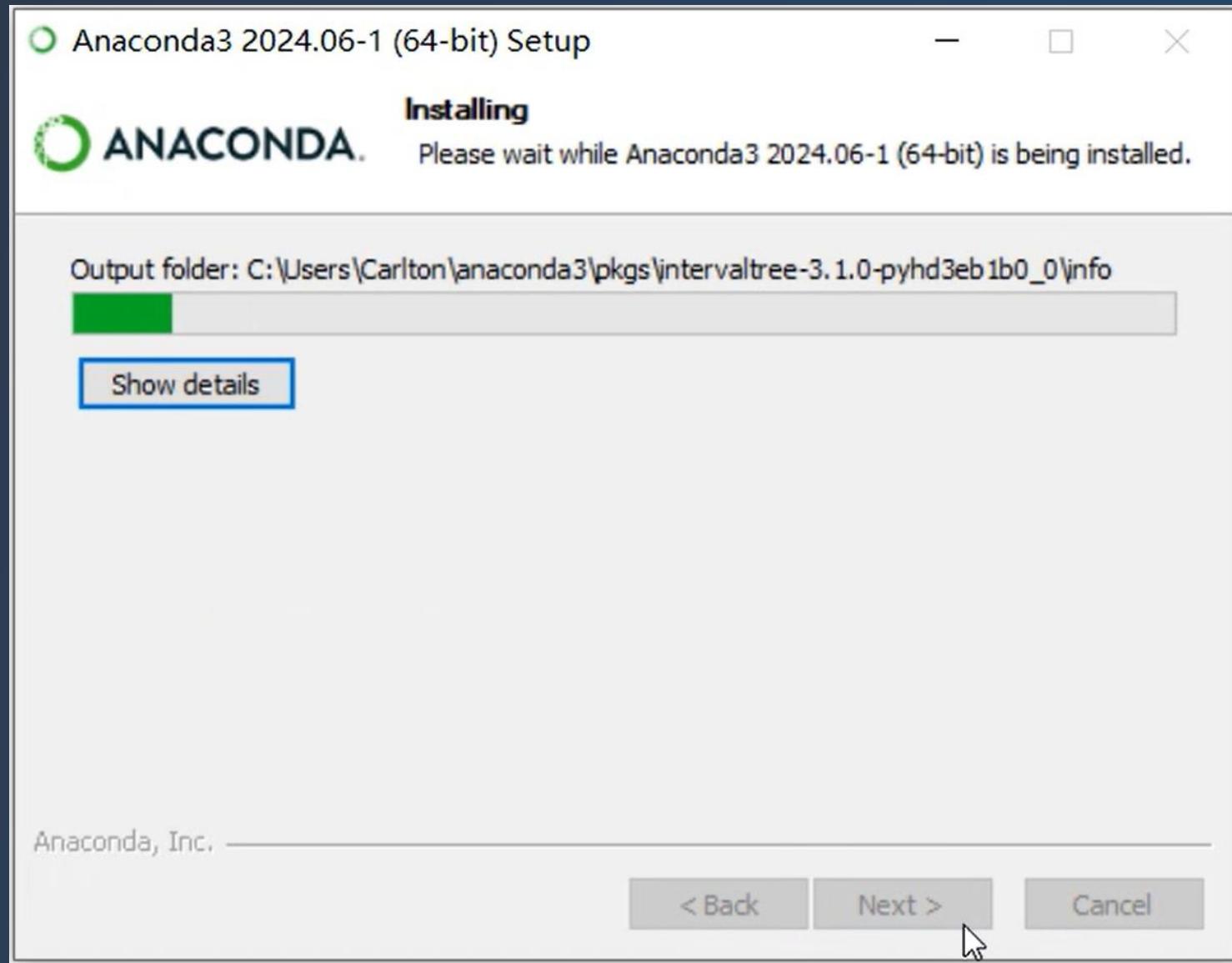
## 2.下载安装



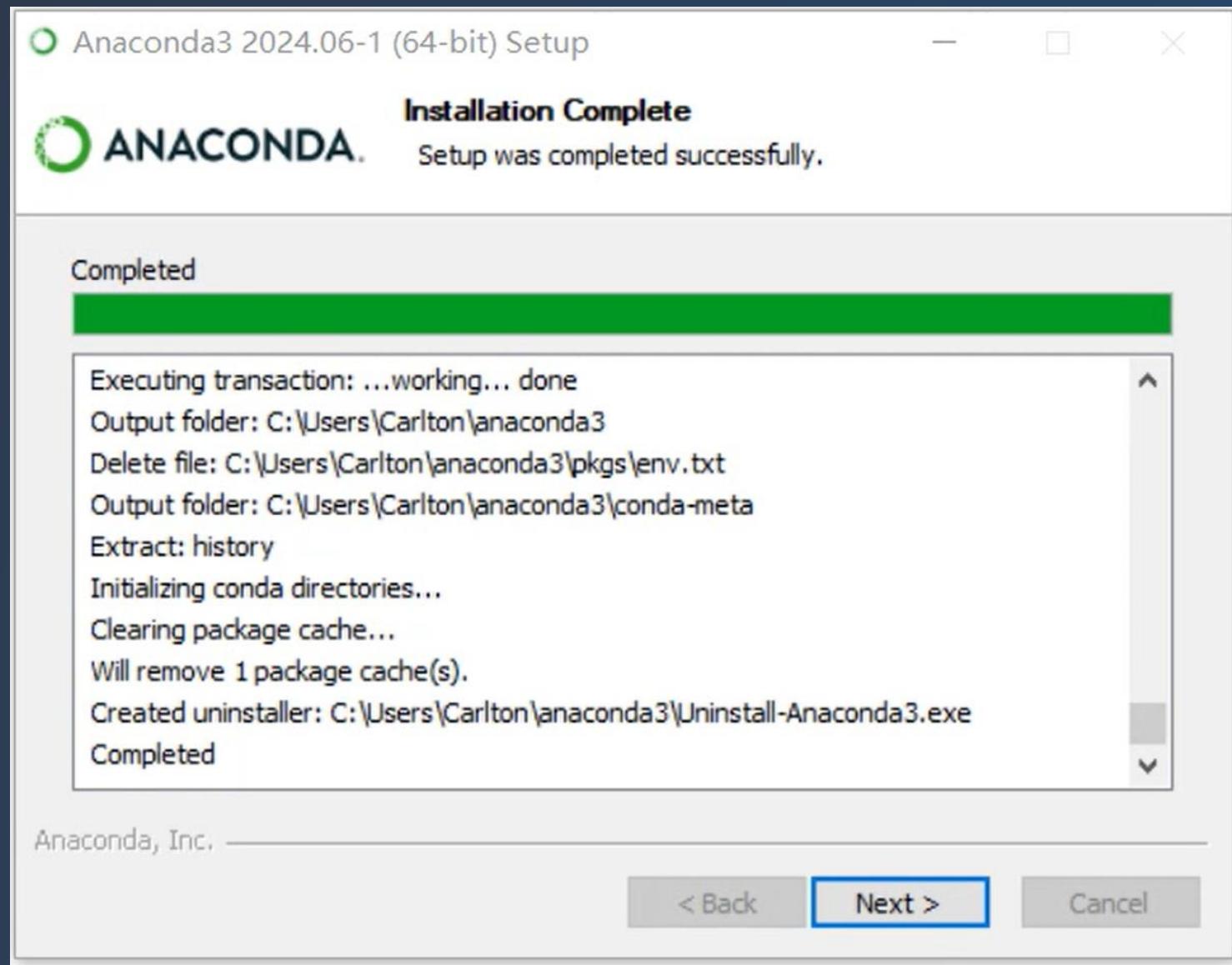
## 2. 下载安装



## 2.下载安装



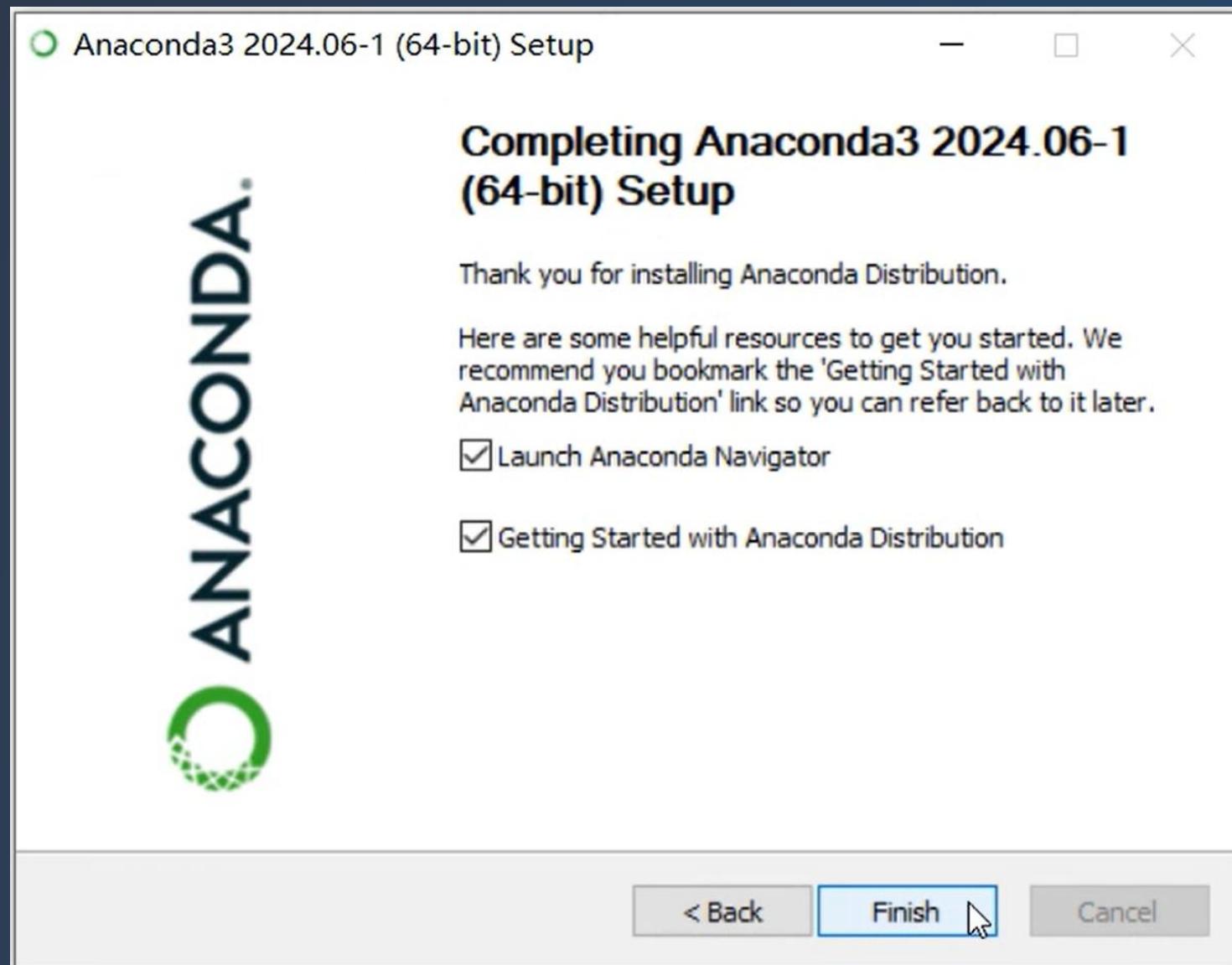
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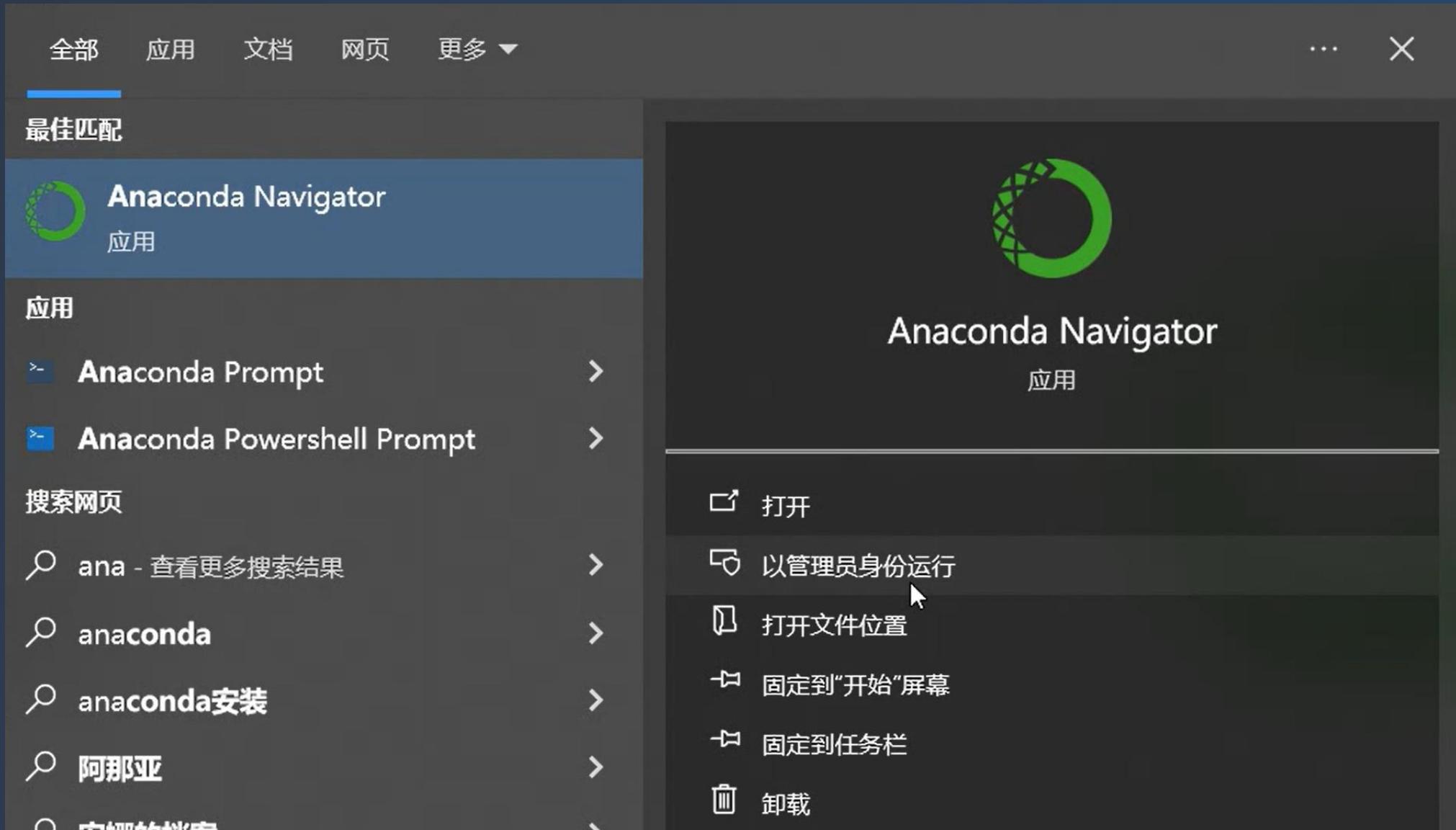
## 2. 下载安装



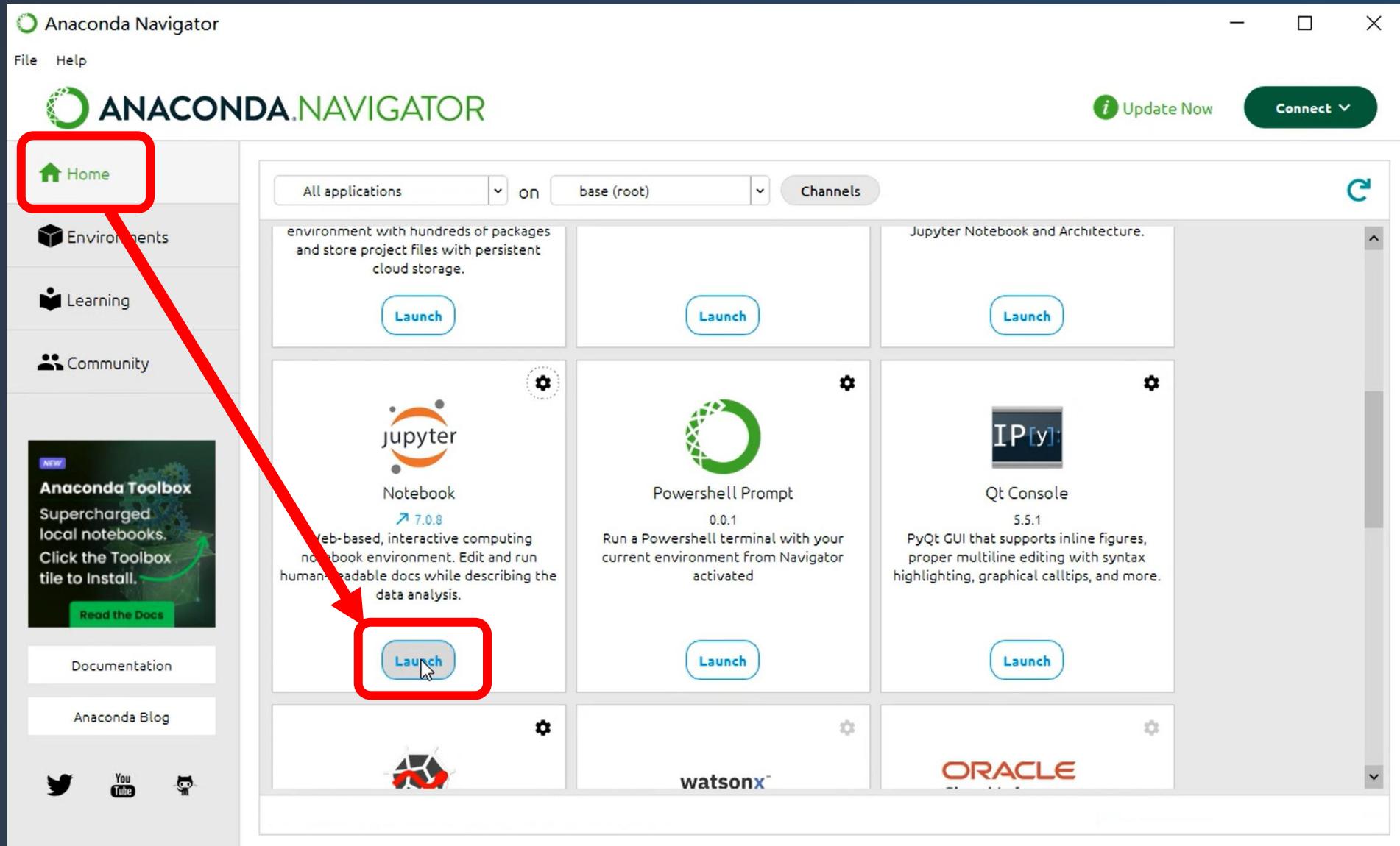
## 2.下载安装



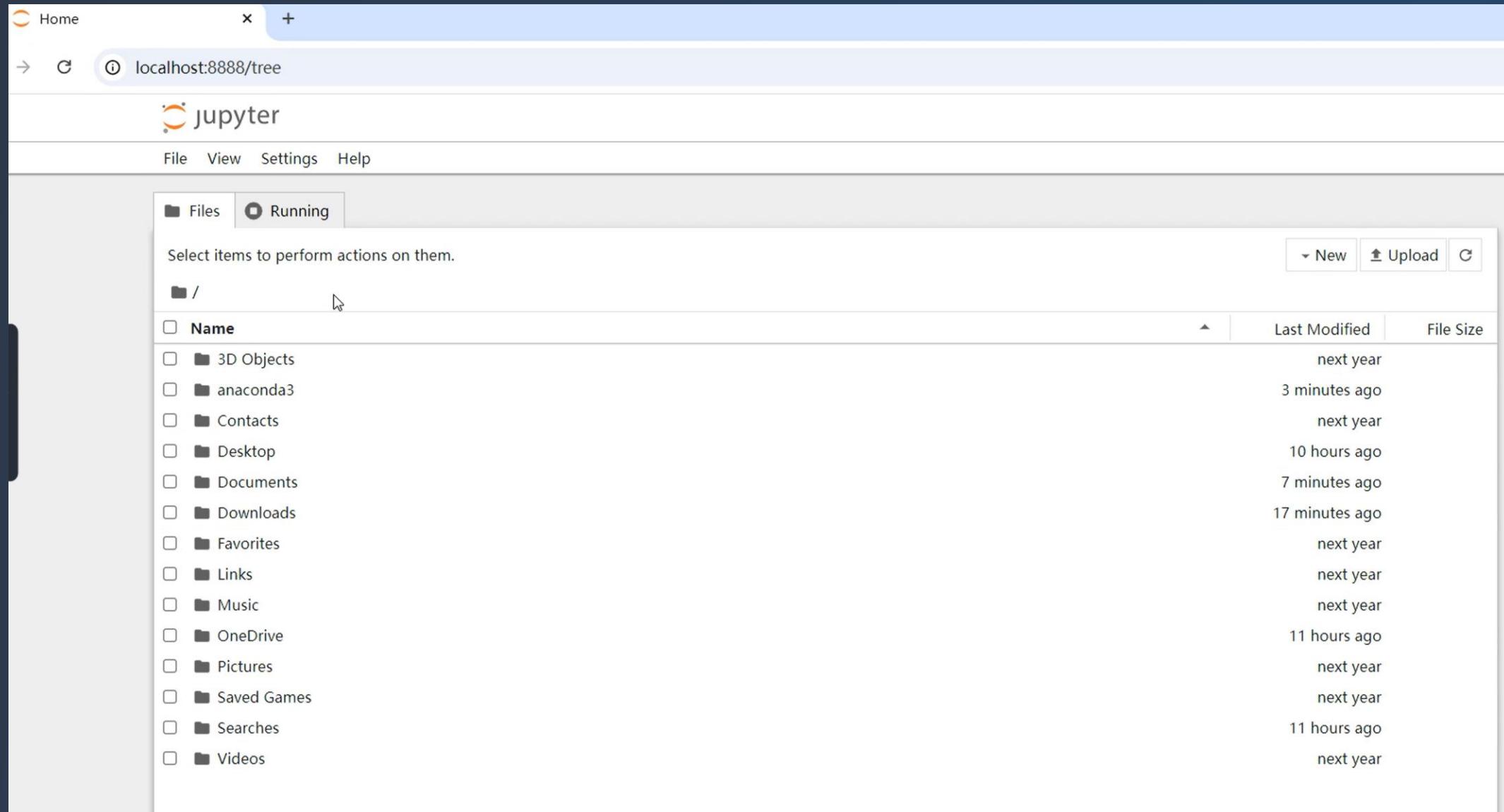
### 3.启动Anaconda Navigator



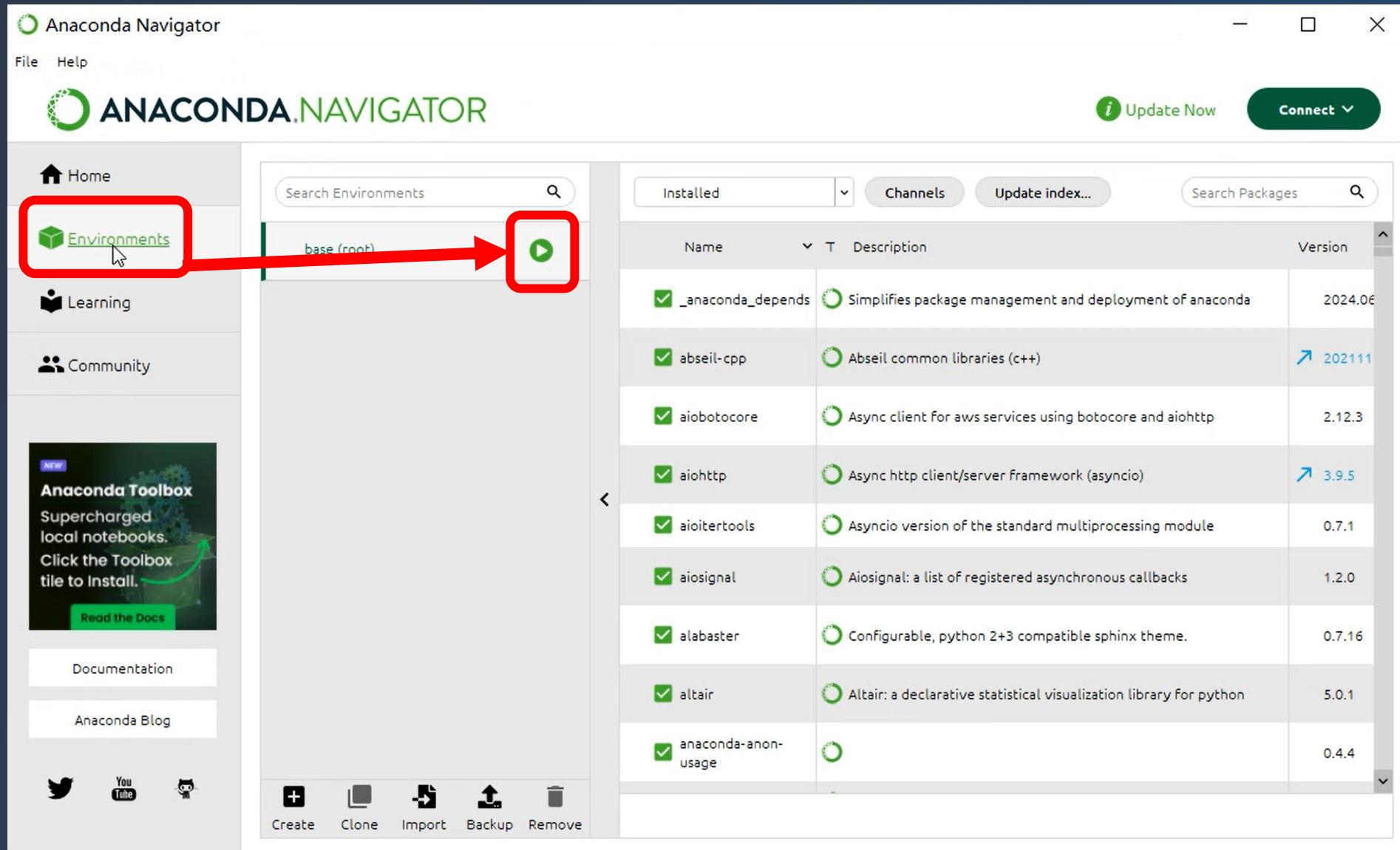
### 3.启动Jupyter Notebook (Home)



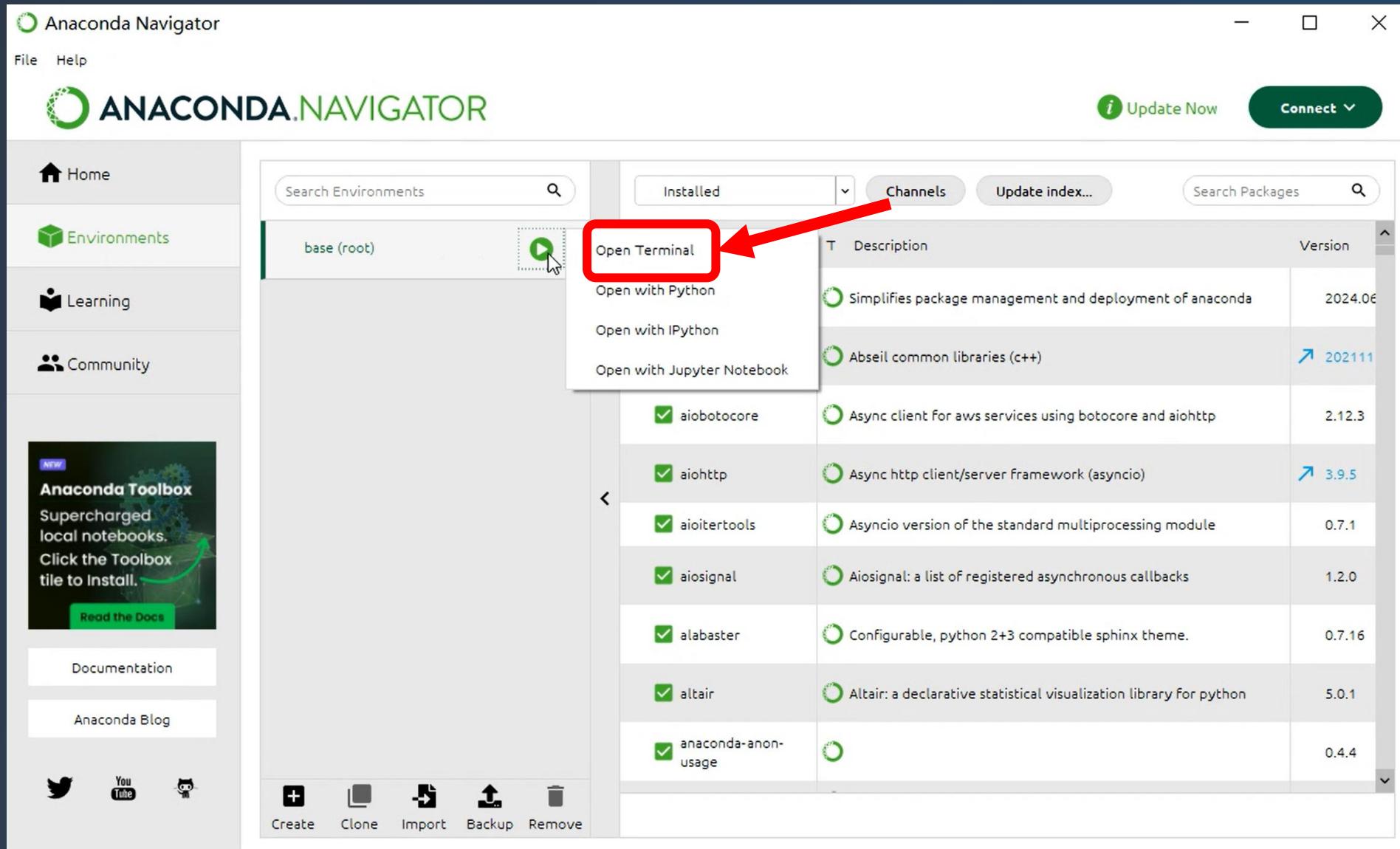
### 3.启动Jupyter Notebook (Home)



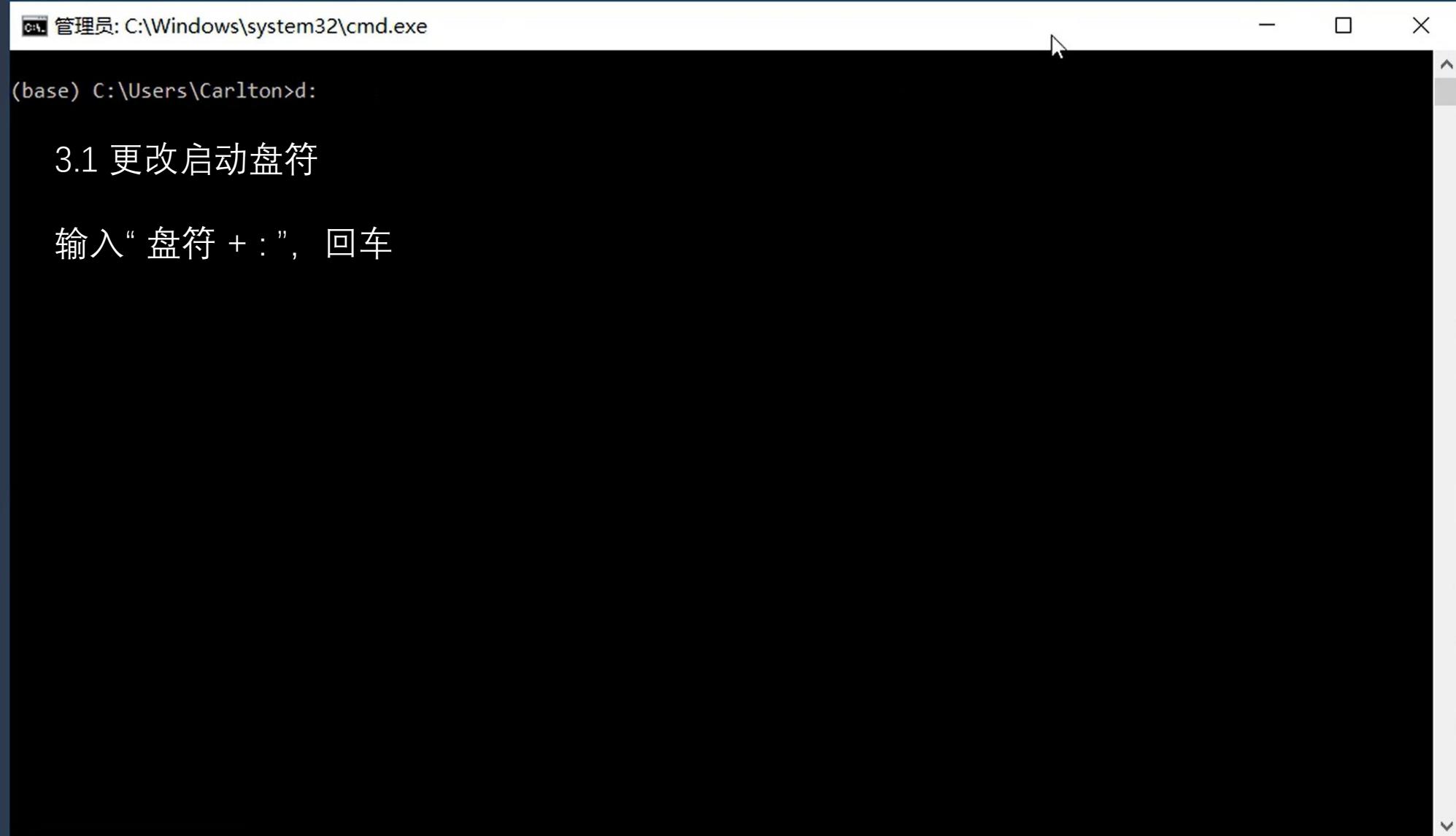
### 3. 启动Jupyter Notebook (Terminal)



### 3. 启动Jupyter Notebook (Terminal)

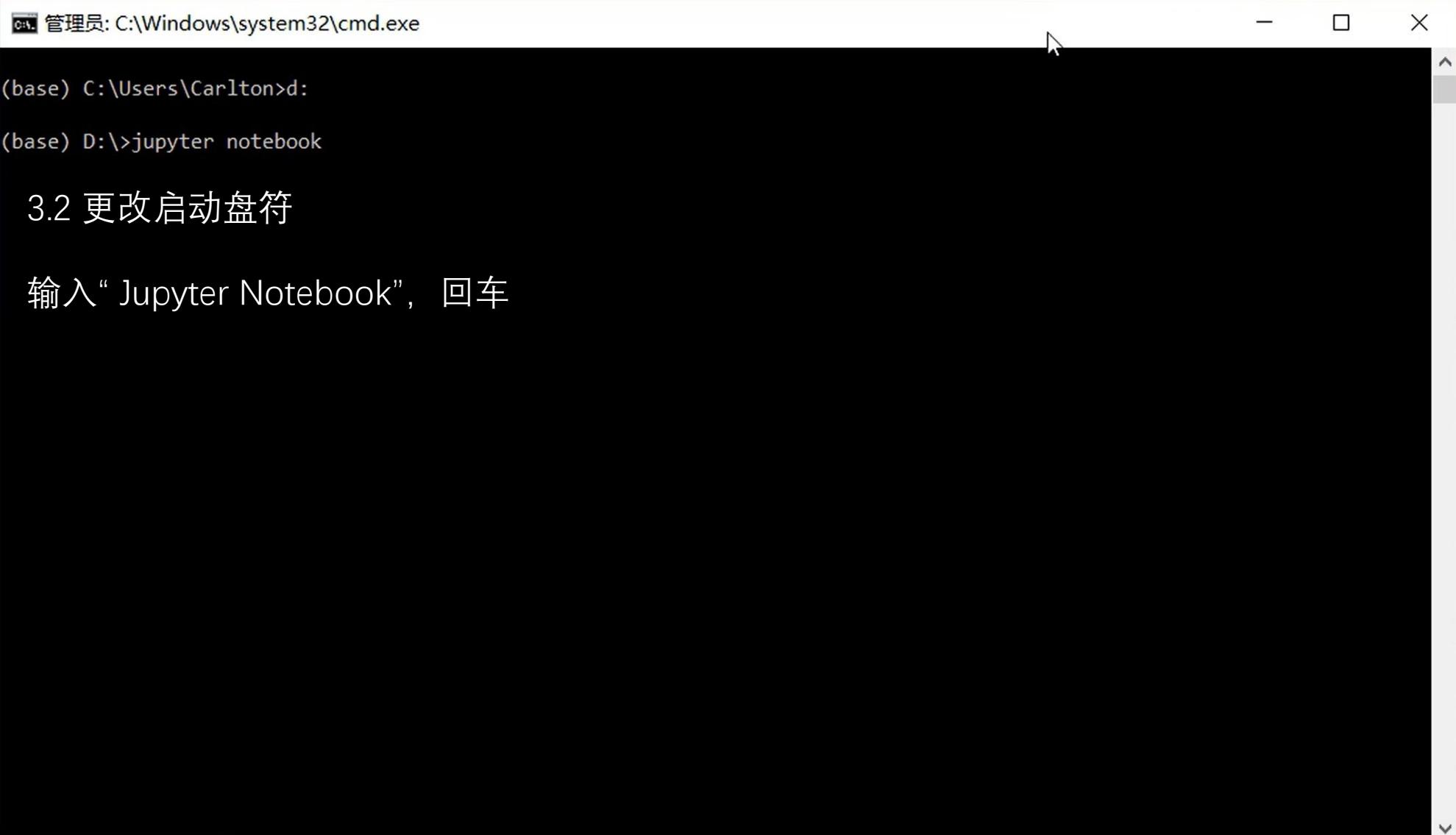


### 3.启动Jupyter Notebook (Terminal)



3.1 更改启动盘符

输入“ 盘符 + : ”, 回车



管理员: C:\Windows\system32\cmd.exe

```
(base) C:\Users\Carlton>d:  
(base) D:\>jupyter notebook
```

3.2 更改启动盘符

输入“Jupyter Notebook”，回车

### 3. 启动Jupyter Notebook (Terminal)



```
C:\Windows\system32\cmd.exe + - X

[I 2024-09-18 09:15:25.838 ServerApp] notebook | extension was successfully loaded.
[I 2024-09-18 09:15:25.839 ServerApp] Serving notebooks from local directory: D:\\
[I 2024-09-18 09:15:25.839 ServerApp] Jupyter Server 2.14.1 is running at:
[I 2024-09-18 09:15:25.839 ServerApp] http://localhost:8888/tree?token=2b61b32978e88cd8ca01cd644e9da1899ada93d10150b4fb
[I 2024-09-18 09:15:25.839 ServerApp] http://127.0.0.1:8888/tree?token=2b61b32978e88cd8ca01cd644e9da1899ada93d10150b4fb
[I 2024-09-18 09:15:25.839 ServerApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[E 2024-09-18 09:15:25.840 ServerApp] Failed to write server-info to C:\Users\dmiby\AppData\Roaming\jupyter\runtime\jpserver-24872.json: PermissionError(13, 'Permission denied')
Traceback (most recent call last):
  File "C:\Users\dmiby\anaconda3\Scripts\jupyter-notebook-script.py", line 10, in <module>
    sys.exit(main())
          ^^^^^^
  File "C:\Users\dmiby\anaconda3\Lib\site-packages\jupyter_server\extension\application.py", line 623, in launch_instance
    serverapp.start()
  File "C:\Users\dmiby\anaconda3\Lib\site-packages\jupyter_server\serverapp.py", line 3119, in start
    self.start_app()
  File "C:\Users\dmiby\anaconda3\Lib\site-packages\jupyter_server\serverapp.py", line 3023, in start_app
    self.write_browser_open_files()
  File "C:\Users\dmiby\anaconda3\Lib\site-packages\jupyter_server\serverapp.py", line 2890, in write_browser_open_files
    self.write_browser_open_file()
  File "C:\Users\dmiby\anaconda3\Lib\site-packages\jupyter_server\serverapp.py", line 2913, in write_browser_open_file
    with open(self.browser_open_file, "w", encoding="utf-8") as f:
          ^^^^^^^^^^^^^^^^^^
PermissionError: [Errno 13] Permission denied: 'C:\\\\Users\\\\dmiby\\\\AppData\\\\Roaming\\\\jupyter\\\\runtime\\\\jpserver-24872-open.html'
(base) D:\>
```

如果出现“Permission denied”报错信息，请关闭Anaconda，并重新以“管理员身份运行”

### 3. 启动Jupyter Notebook (Terminal)

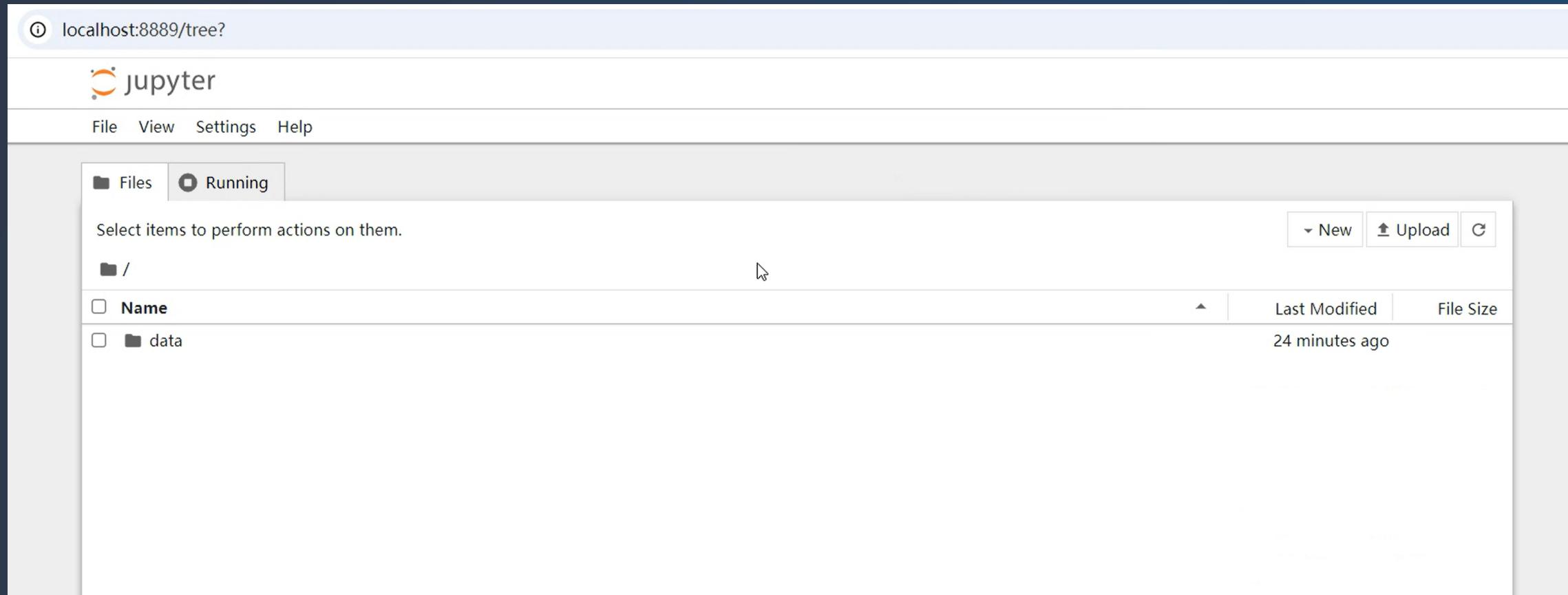
```
选择管理员: C:\Windows\system32\cmd.exe - Jupyter Notebook

[I 2024-09-18 09:21:55.704 ServerApp] notebook | extension was successfully linked.
[I 2024-09-18 09:21:56.045 ServerApp] notebook_shim | extension was successfully linked.
[I 2024-09-18 09:21:56.089 ServerApp] notebook_shim | extension was successfully loaded.
[I 2024-09-18 09:21:56.091 ServerApp] jupyter_lsp | extension was successfully loaded.
[I 2024-09-18 09:21:56.092 ServerApp] jupyter_server_terminals | extension was successfully loaded.
[I 2024-09-18 09:21:56.094 LabApp] JupyterLab extension loaded from C:\Users\dmiby\anaconda3\Lib\site-packages\jupyterla
b
[I 2024-09-18 09:21:56.094 LabApp] JupyterLab application directory is C:\Users\dmiby\anaconda3\share\jupyter\lab
[I 2024-09-18 09:21:56.095 LabApp] Extension Manager is 'pypi'.
[I 2024-09-18 09:21:56.096 ServerApp] jupyterlab | extension was successfully loaded.
[I 2024-09-18 09:21:56.100 ServerApp] notebook | extension was successfully loaded.
[I 2024-09-18 09:21:56.101 ServerApp] Serving notebooks from local directory: C:\Users\dmiby
[I 2024-09-18 09:21:56.101 ServerApp] Jupyter Server 2.14.1 is running at:
[I 2024-09-18 09:21:56.101 ServerApp] http://localhost:8888/tree?token=ffbf3290a996b400cd592afbf3f876878b97e3ef2417b134
[I 2024-09-18 09:21:56.101 ServerApp] http://127.0.0.1:8888/tree?token=ffbf3290a996b400cd592afbf3f876878b97e3ef2417b
134
[I 2024-09-18 09:21:56.101 ServerApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 2024-09-18 09:21:56.166 ServerApp]

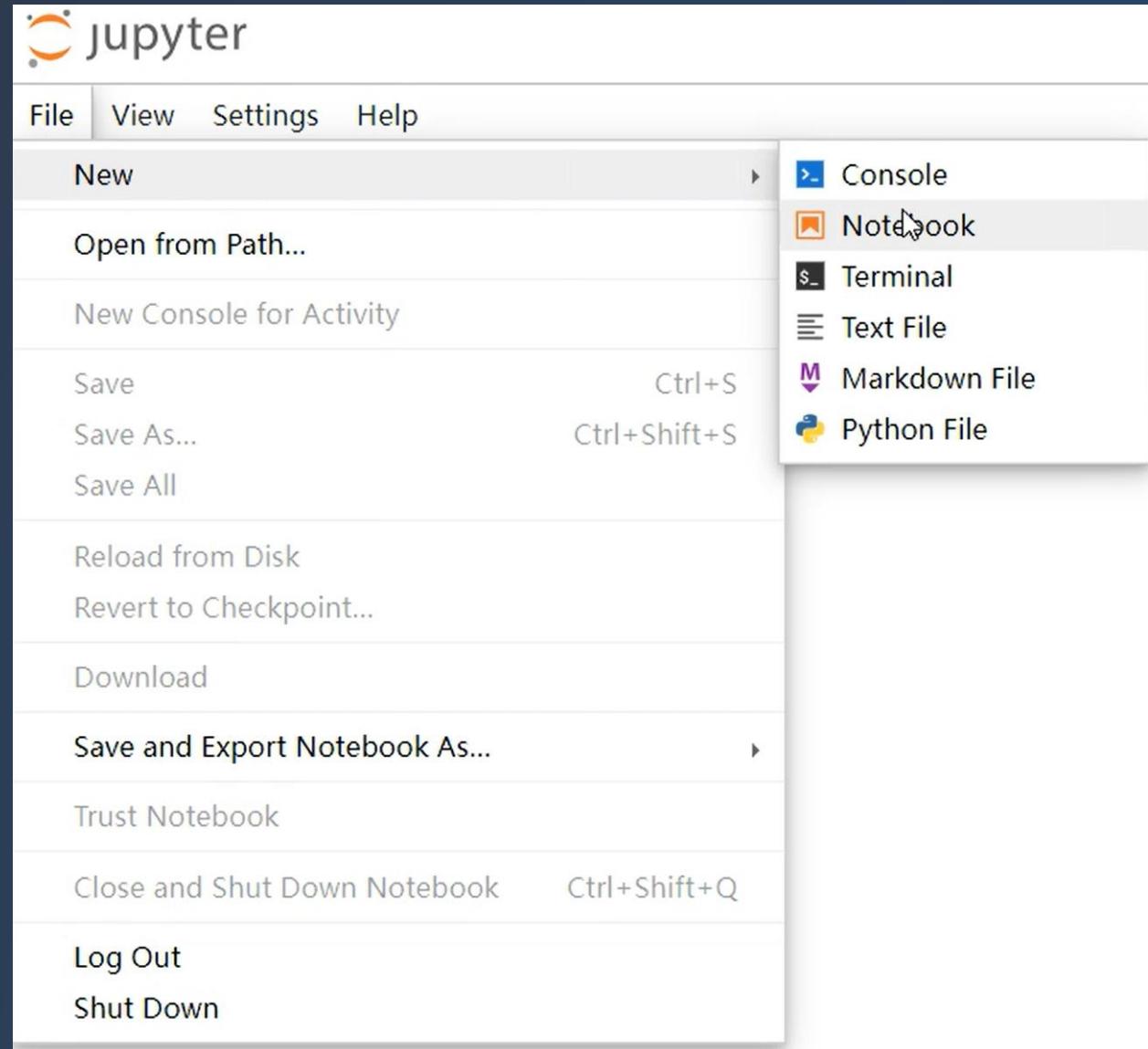
To access the server, open this file in a browser:
file:///C:/Users/dmiby/AppData/Roaming/jupyter/runtime/jpserver-23632-open.html
Or copy and paste one of these URLs:
http://localhost:8888/tree?token=ffbf3290a996b400cd592afbf3f876878b97e3ef2417b134
http://127.0.0.1:8888/tree?token=ffbf3290a996b400cd592afbf3f876878b97e3ef2417b134
[I 2024-09-18 09:21:56.436 ServerApp] Skipped non-installed server(s): bash-language-server, dockerfile-language-server-
nodejs, javascript-typescript-langserver, jedi-language-server, julia-language-server, pyright, python-language-server,
python-lsp-server, r-languageserver, sql-language-server, texlab, typescript-language-server, unified-language-server, v
scode-css-languageserver-bin, vscode-html-languageserver-bin, vscode-json-languageserver-bin, yaml-language-server
```

如果出现无法自动弹出Jupyter Notebook, 请复制URLs至浏览器中

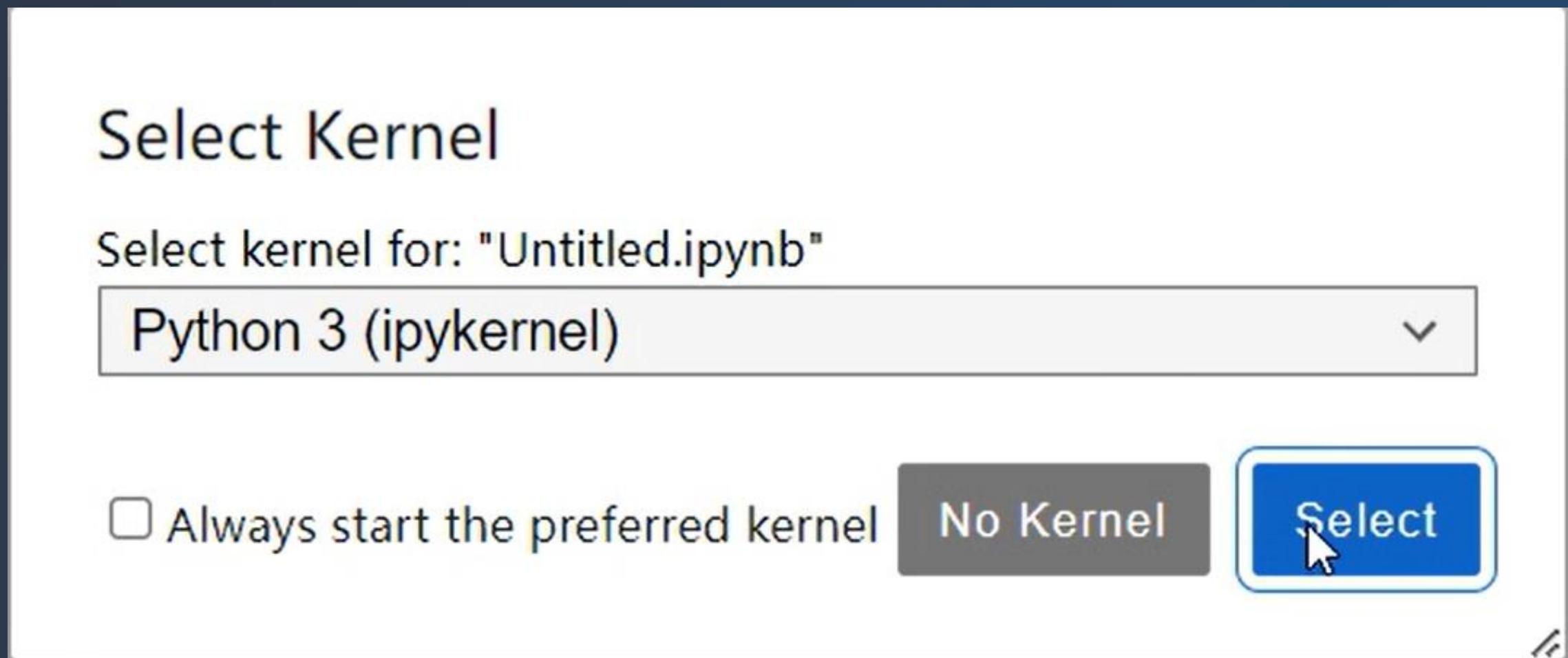
## 4.运行Jupyter Notebook



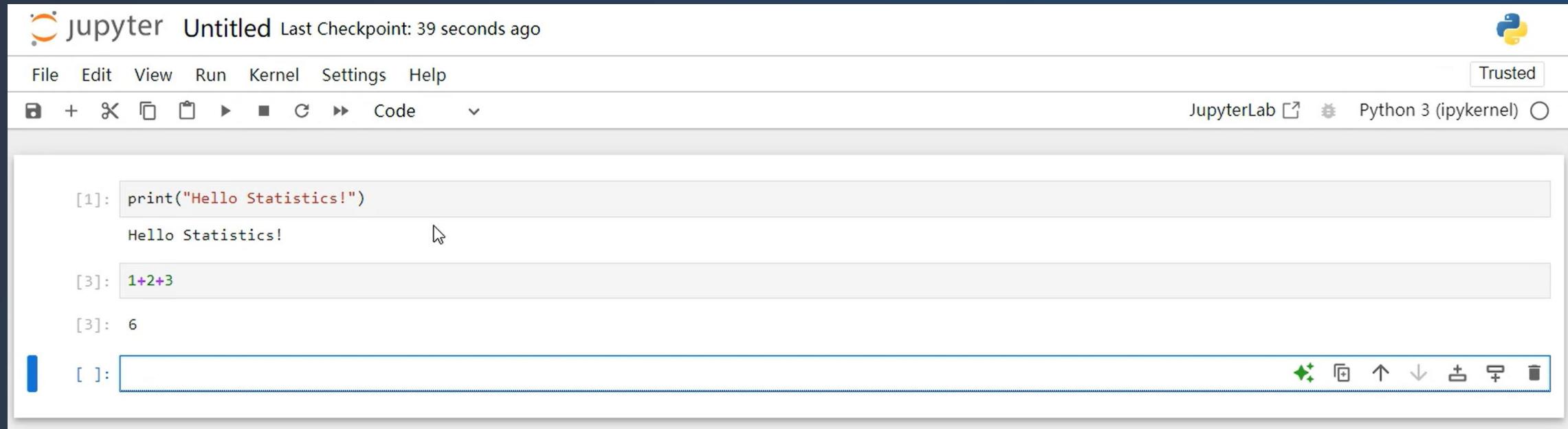
## 4.运行Jupyter Notebook



#### 4.运行Jupyter Notebook



## 4.运行Jupyter Notebook



The screenshot shows a Jupyter Notebook interface with the following details:

- Header:** jupyter Untitled Last Checkpoint: 39 seconds ago, Trusted, Python 3 (ipykernel).
- Toolbar:** File, Edit, View, Run, Kernel, Settings, Help, and a Code dropdown.
- Cells:**
  - [1]: `print("Hello Statistics!")` (Output: Hello Statistics!)
  - [3]: `1+2+3` (Output: 6)
  - [ ]: An empty cell with a blue vertical bar on the left.
- Bottom Bar:** Includes icons for cell navigation (left, right, up, down, first, last, search), a refresh button, and a trash bin.

编写代码: `print("Hello Statistics")`  
Shift+回车

编写代码: `1+2+3`  
Shift+回车

Jupyter Notebook常用快捷键

A、B、DD、.....

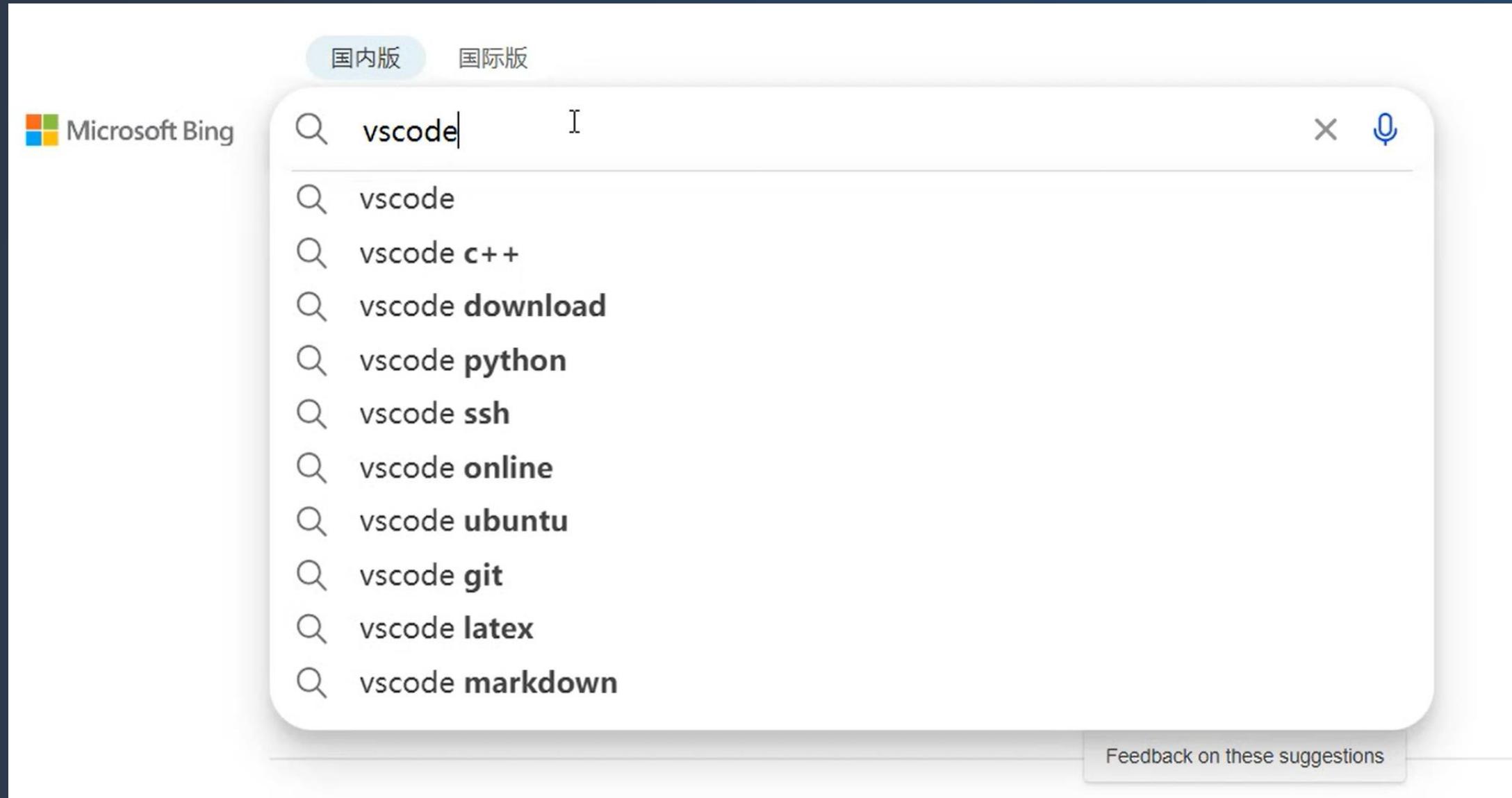


# VScode

Visual Studio Code（简称 VS Code）是一个由微软开发的免费、开源的代码编辑器。它支持多种编程语言，包括但不限于 JavaScript、TypeScript、Python、PHP、C++、C#、Go、Java、Ruby、Markdown 等，并且通过安装扩展可以支持更多的语言和功能。VS Code 的主要特点包括：

1. **轻量级**：虽然功能强大，但相对于其他一些集成开发环境（IDE），占用的资源较少，启动速度快。
2. **跨平台**：它支持 Windows、macOS 和 Linux 操作系统。
3. **智能代码补全**：提供基于语言的智能代码补全功能，提高编程效率。
4. **代码高亮和格式化**：支持代码高亮和自动格式化，使代码更易于阅读。
5. **自定义主题和快捷键**：允许用户自定义编辑器的主题、快捷键和其他设置，以适应个人的工作习惯。
6. **调试功能**：内置调试工具，支持多种语言和运行环境的调试。
7. **版本控制集成**：内置 Git 版本控制支持，方便代码的版本管理。
8. **远程开发**：支持远程开发功能，可以连接到远程服务器进行开发。

## 1.搜索官方下载链接



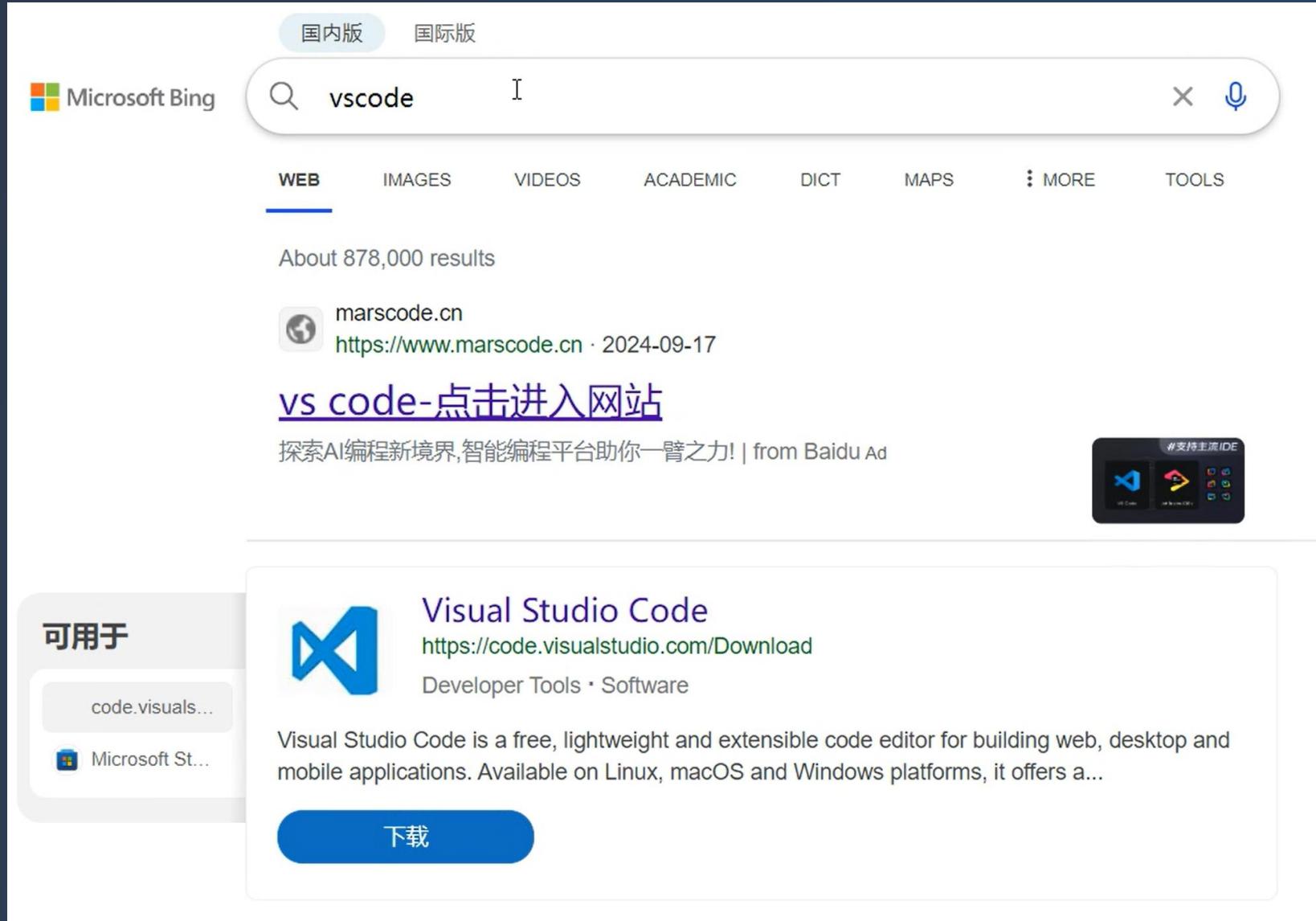
The screenshot shows the Microsoft Bing search interface. At the top, there are two tabs: '国内版' (Domestic Edition) and '国际版' (International Edition). The search bar contains the text 'vscode'. Below the search bar, a list of search suggestions is displayed, each with a magnifying glass icon. The suggestions are:

- vscode
- vscode c++
- vscode download
- vscode python
- vscode ssh
- vscode online
- vscode ubuntu
- vscode git
- vscode latex
- vscode markdown

At the bottom right of the search interface, there is a link 'Feedback on these suggestions'.

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

# 1.搜索官方下载链接



The screenshot shows a Microsoft Bing search results page. The search bar at the top contains the query "vscode". Below the search bar, there are several search categories: WEB (which is underlined in blue), IMAGES, VIDEOS, ACADEMIC, DICT, MAPS, MORE, and TOOLS. The search results indicate "About 878,000 results". The first result is a link from "marscode.cn" with the URL <https://www.marscode.cn> and a timestamp of "2024-09-17". The link text is "vs code-点击进入网站". Below this result is an advertisement for "探索AI编程新境界,智能编程平台助你一臂之力! | from Baidu Ad". The main content area features a large card for "Visual Studio Code". The card includes the Visual Studio Code logo, the text "Visual Studio Code", the URL <https://code.visualstudio.com/Download>, and the description "Developer Tools • Software". It also states: "Visual Studio Code is a free, lightweight and extensible code editor for building web, desktop and mobile applications. Available on Linux, macOS and Windows platforms, it offers a...". At the bottom of this card is a large blue "下载" (Download) button. To the left of the main card, there is a sidebar with the heading "可用于" (Available on) and two items: "code.visuals..." and "Microsoft St...".

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

# 1.搜索官方下载链接

Visual Studio Code Docs Updates Blog API Extensions FAQ ⚡ Search Docs Download

## Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.

Windows .deb .rpm Mac

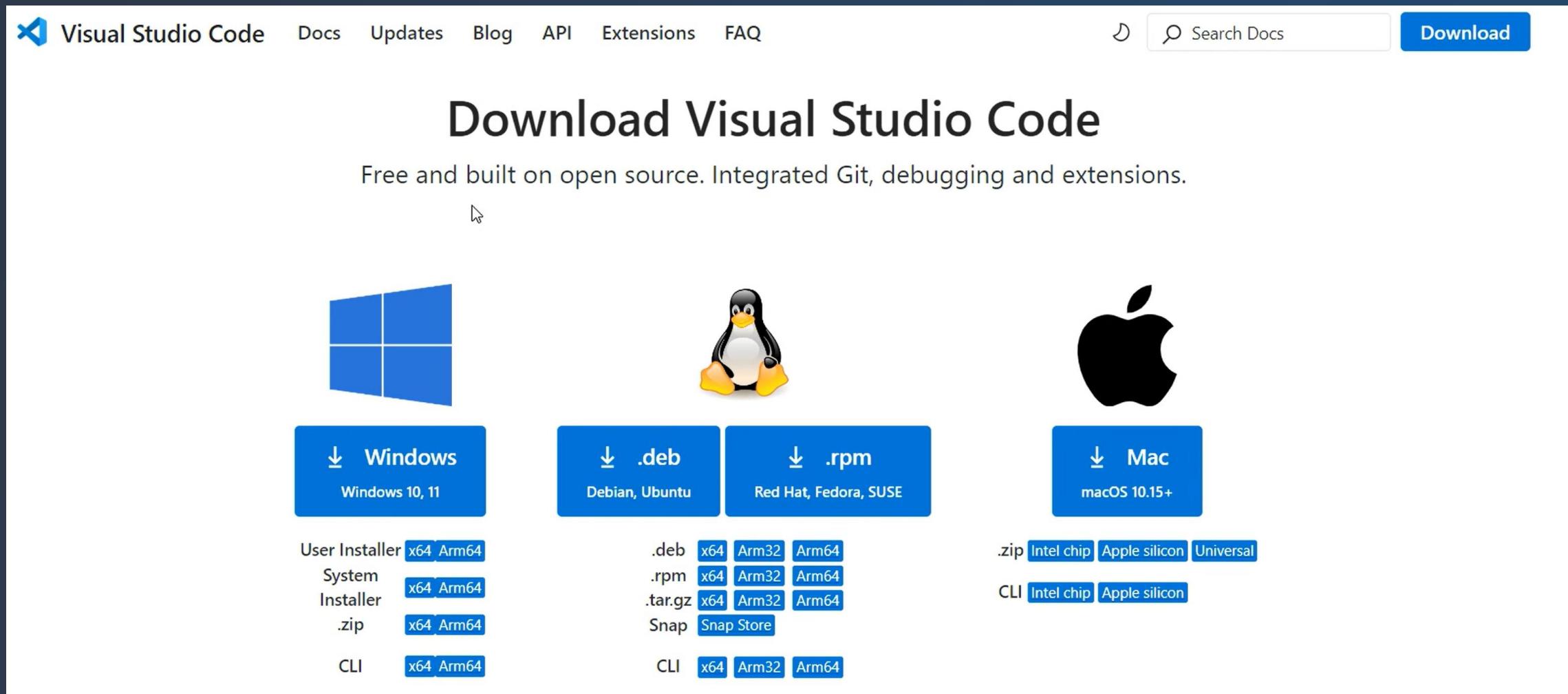
Windows 10, 11 Debian, Ubuntu Red Hat, Fedora, SUSE macOS 10.15+

User Installer x64 Arm64 .deb x64 Arm32 Arm64 .zip Intel chip Apple silicon Universal

System Installer x64 Arm64 .rpm x64 Arm32 Arm64 CLI Intel chip Apple silicon

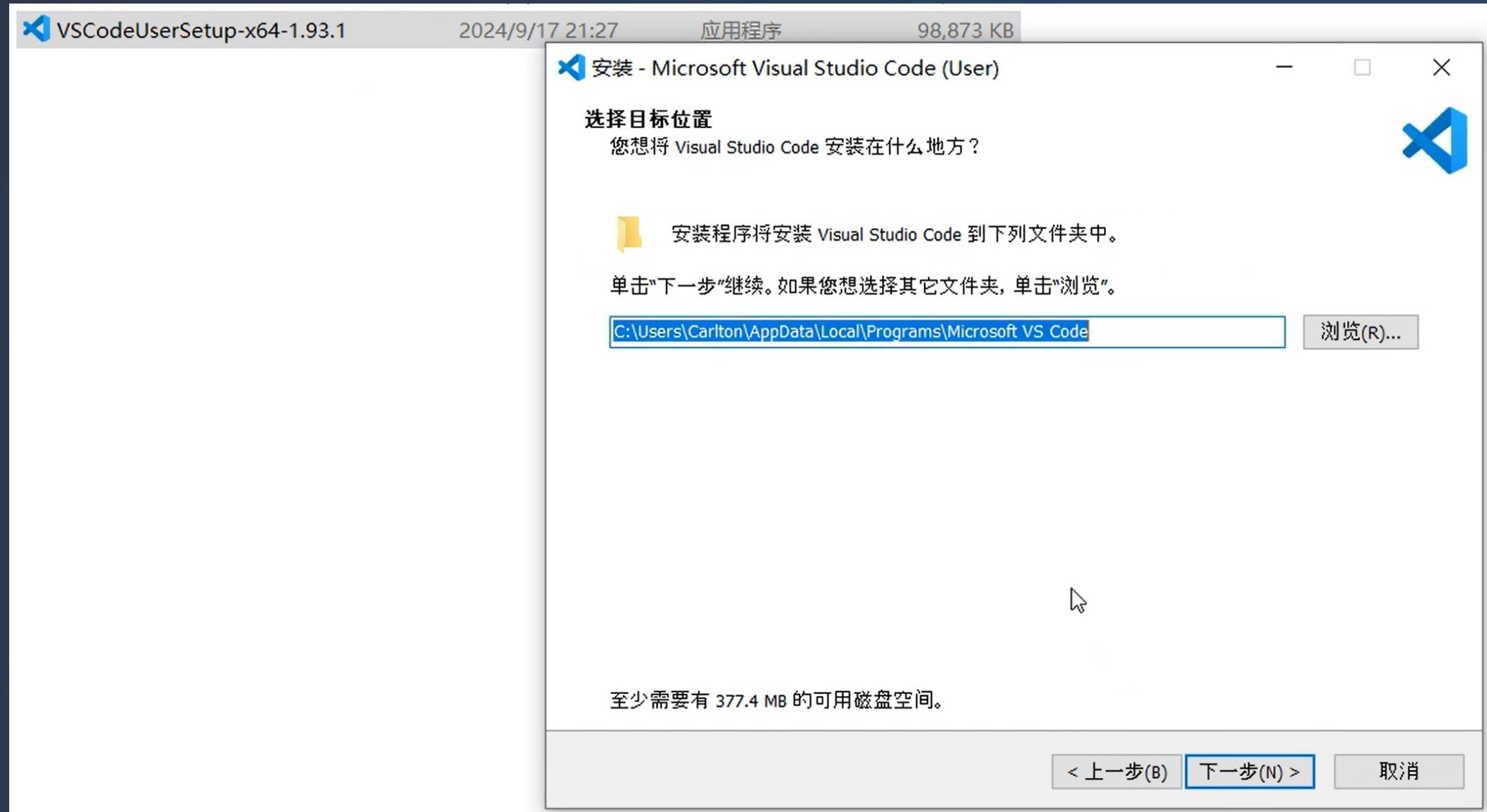
.zip x64 Arm64 .tar.gz x64 Arm32 Arm64 Snap Snap Store

CLI x64 Arm32 Arm64

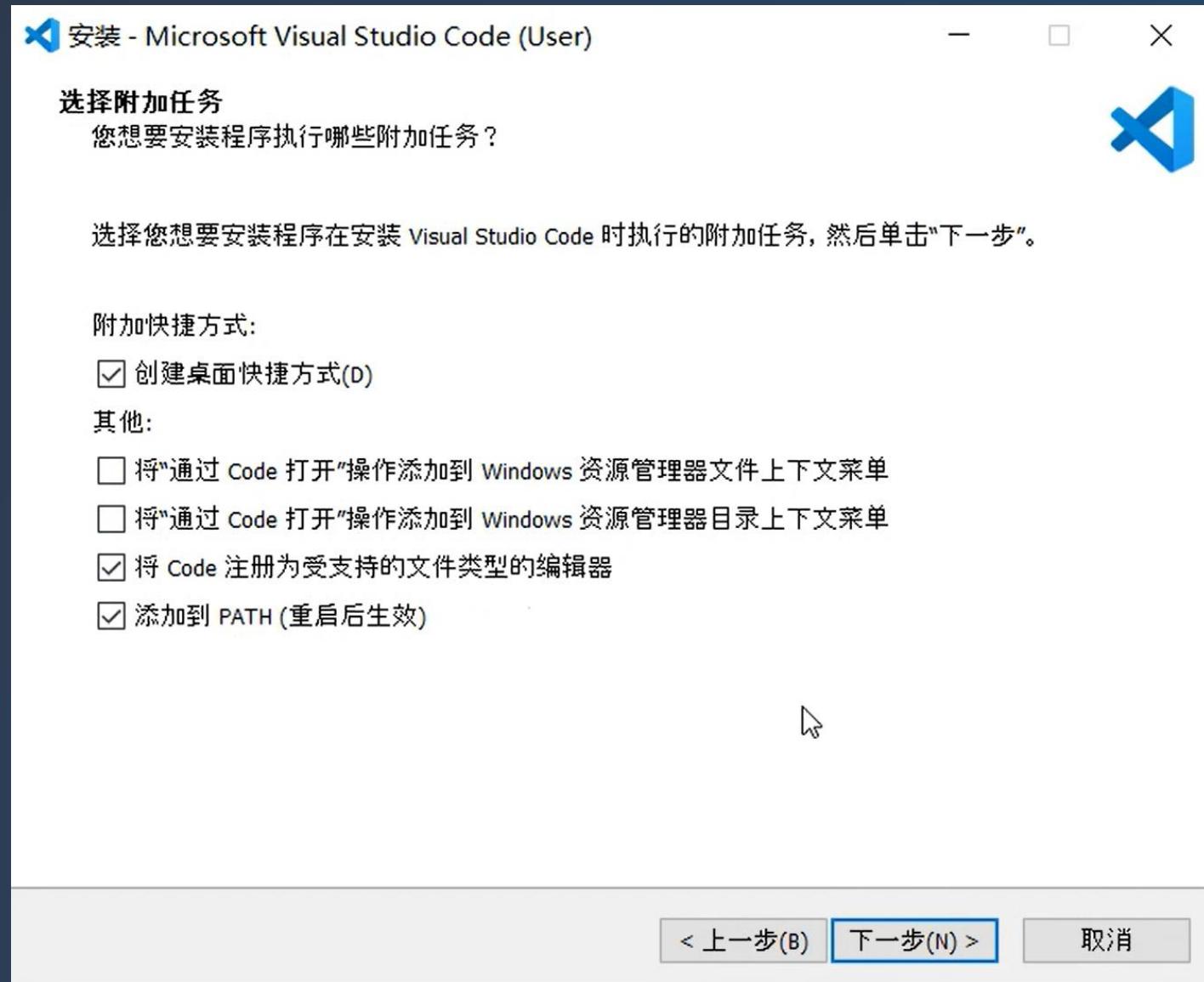


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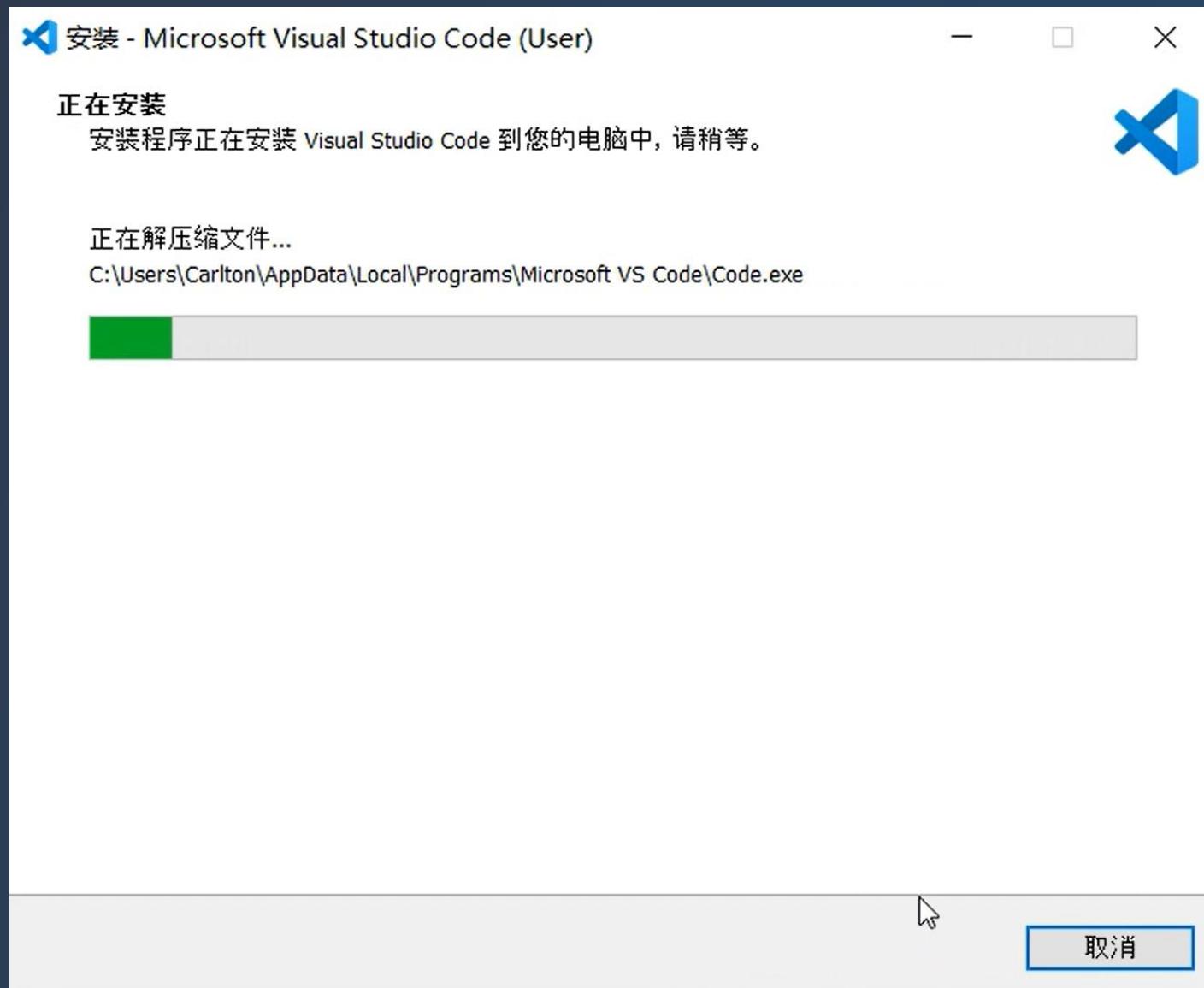
## 2. 下载安装



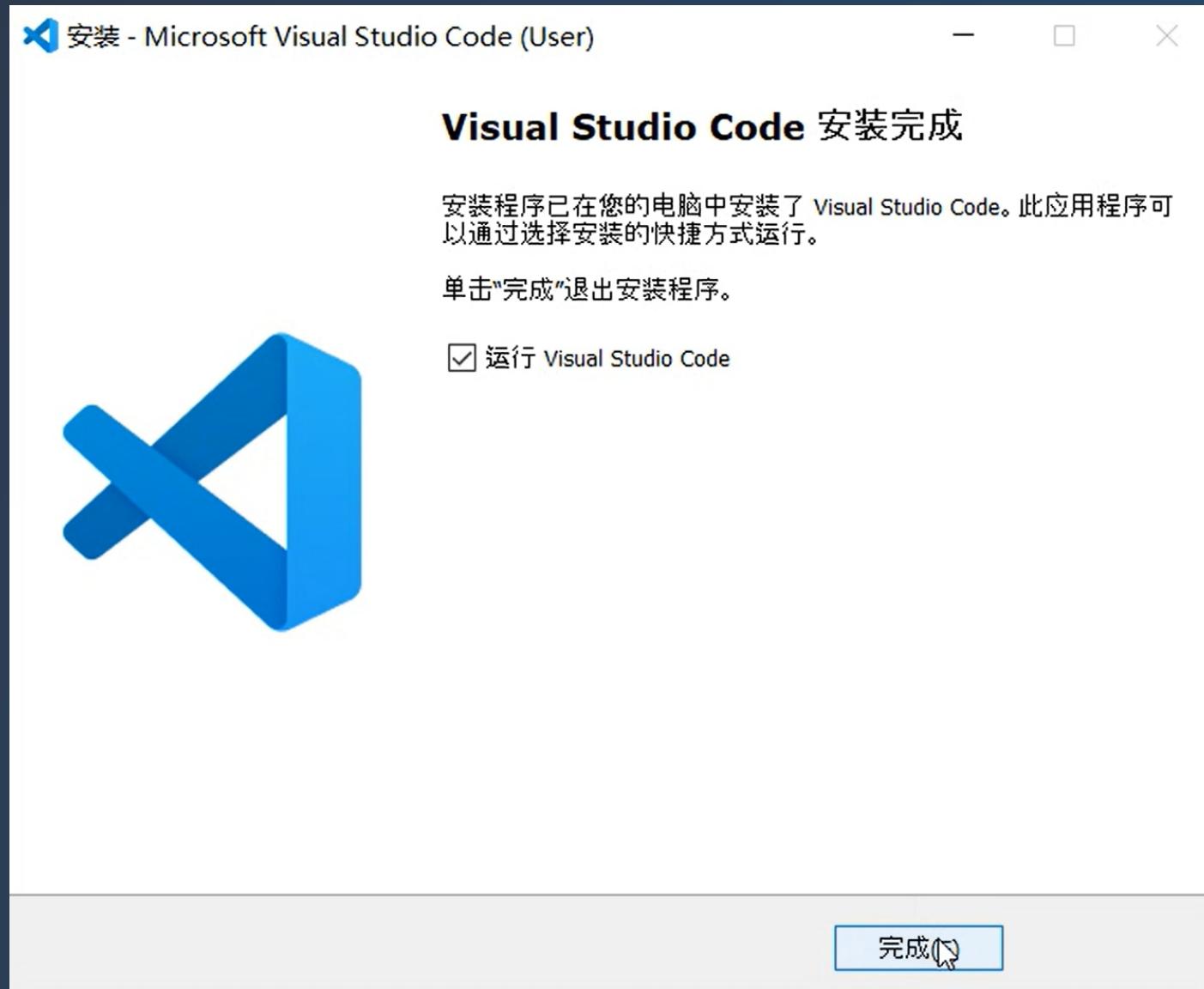
## 2.下载安装



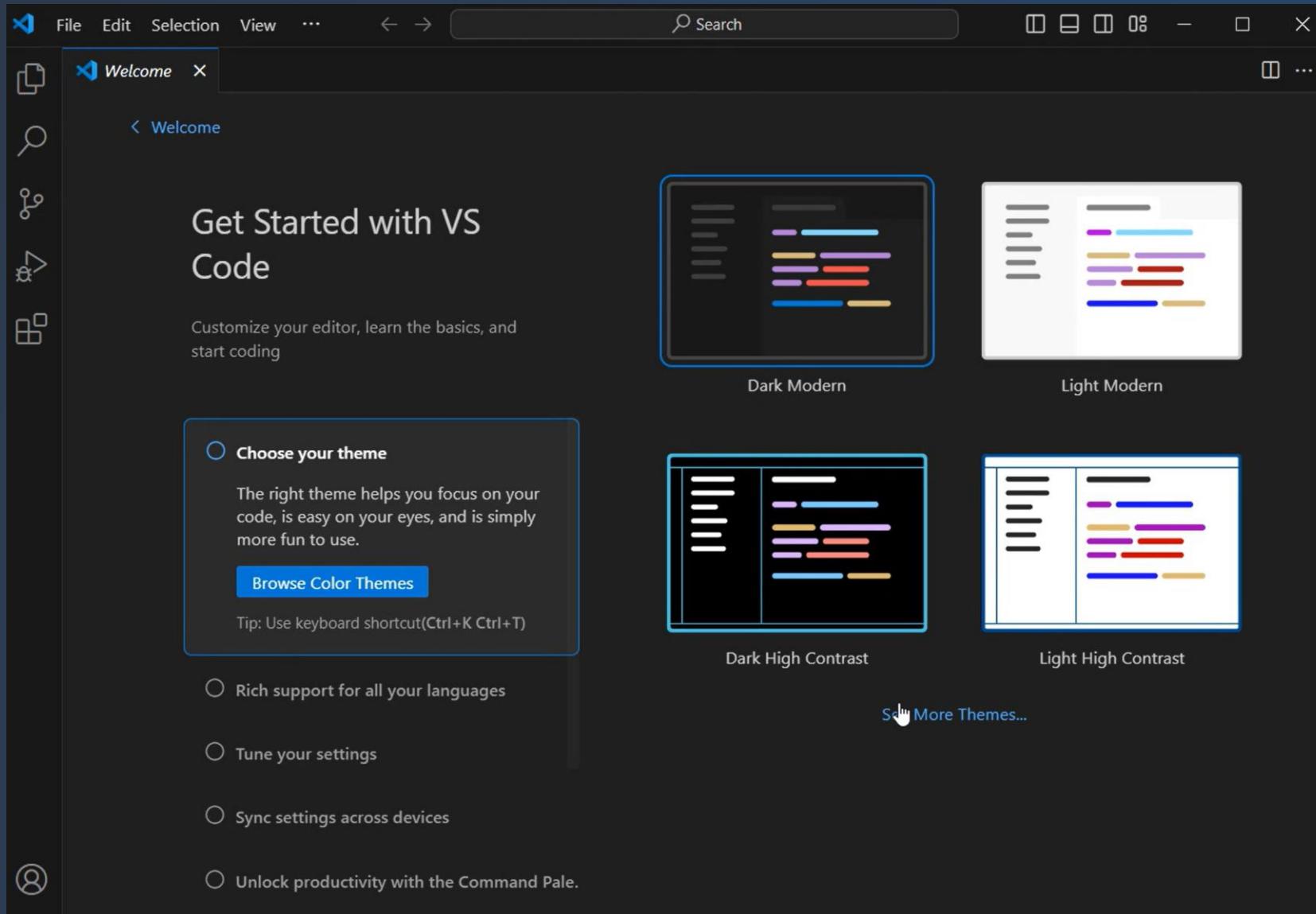
## 2.下载安装



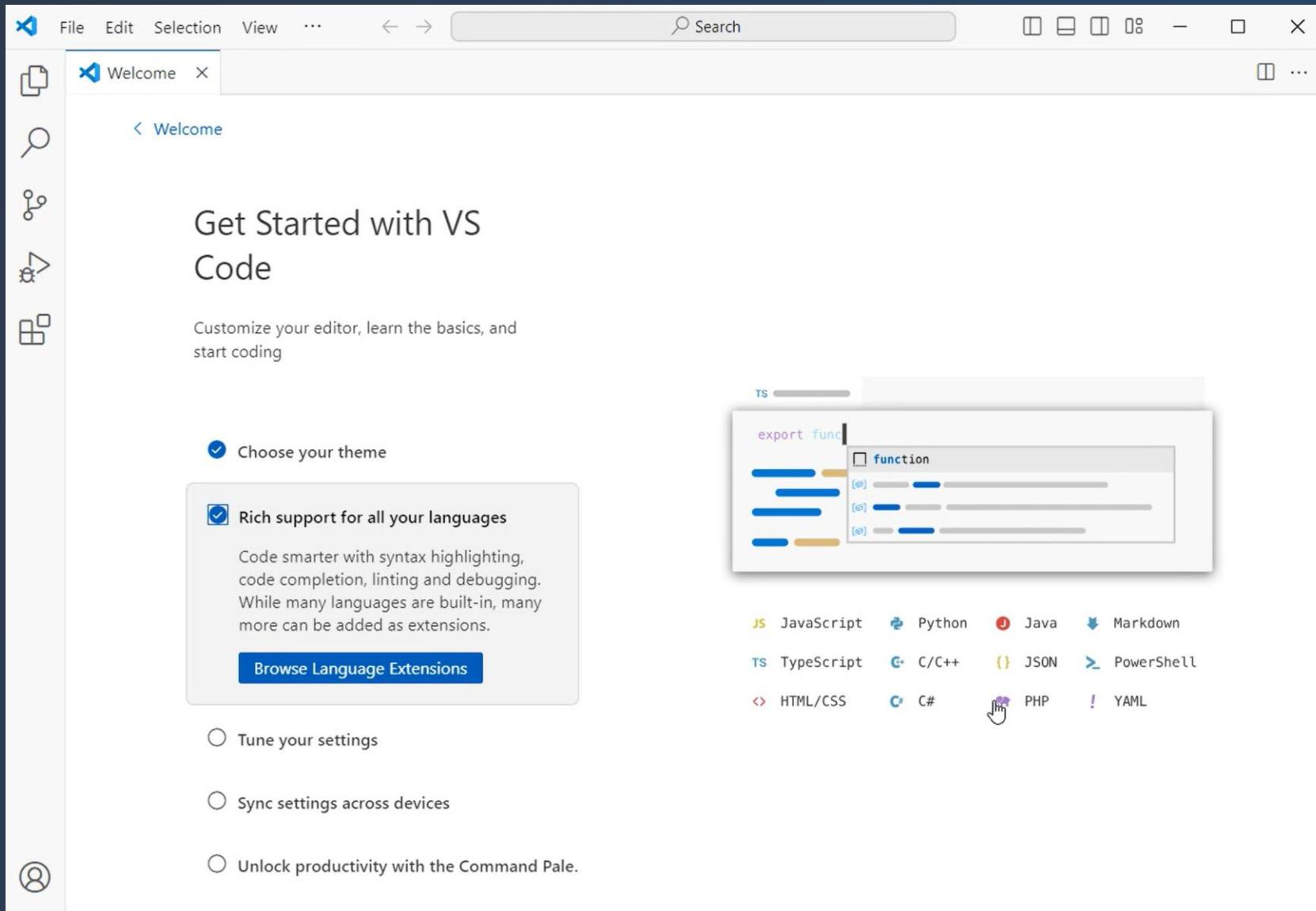
## 2.下载安装



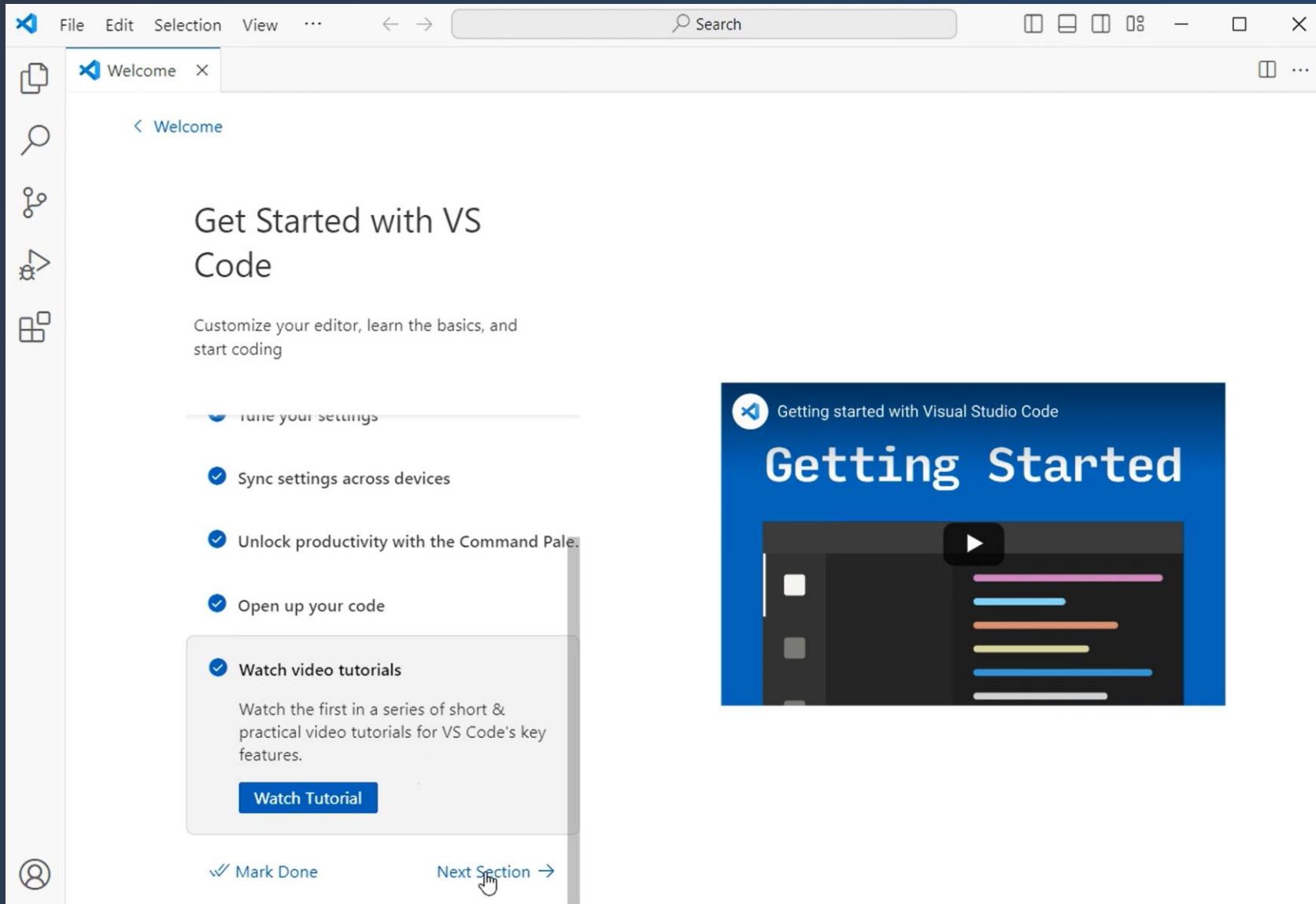
### 3.启动VScode



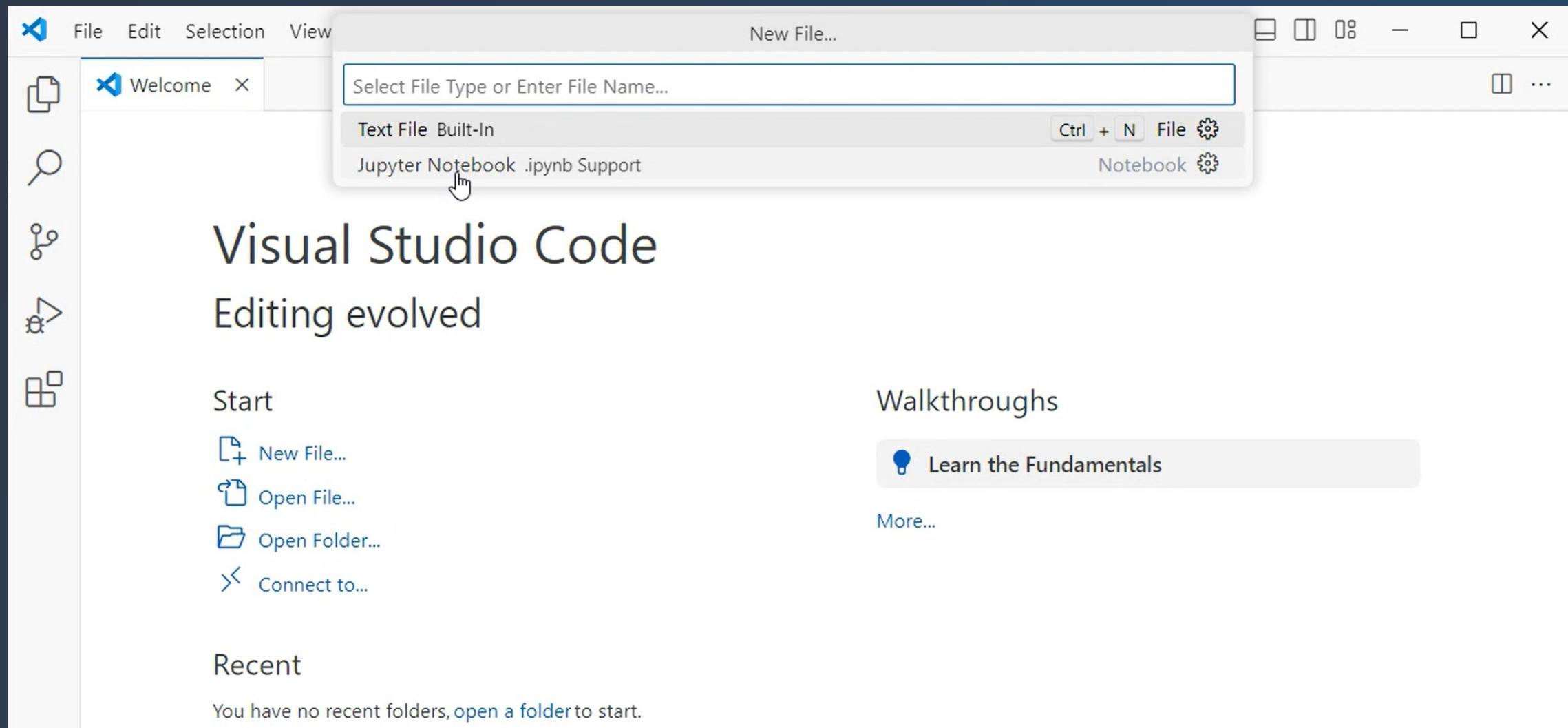
### 3.启动VScode



### 3.启动VScode

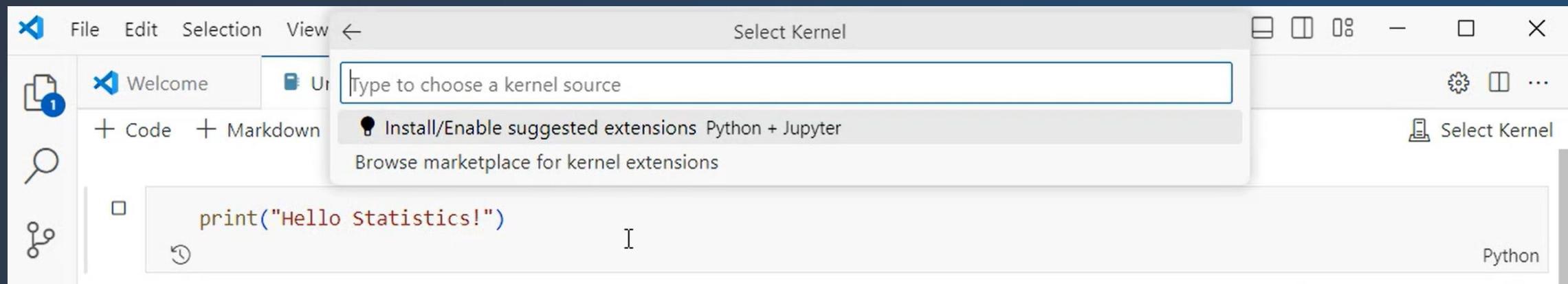


#### 4.运行Jupyter Notebook

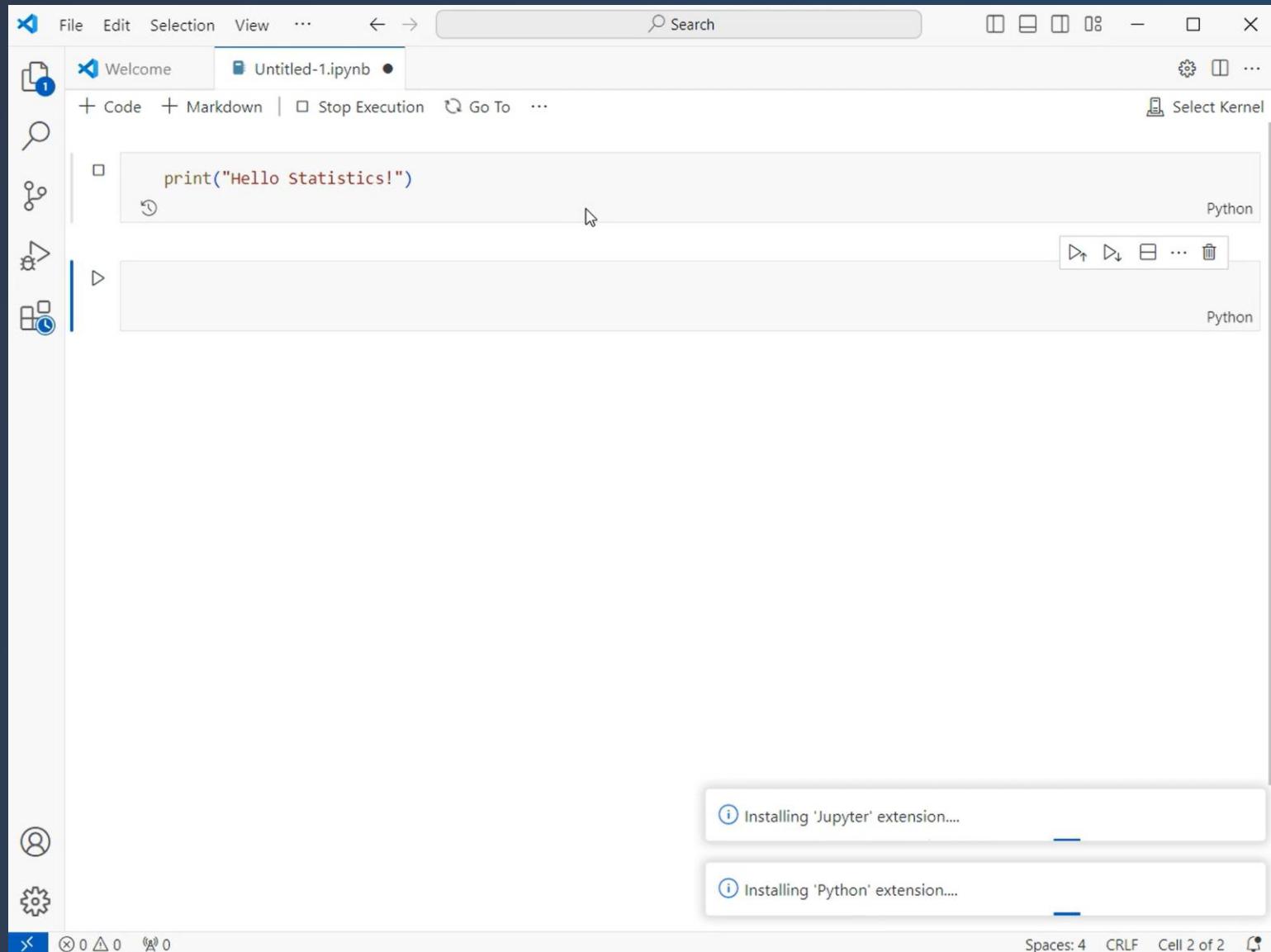


## 4.运行Jupyter Notebook

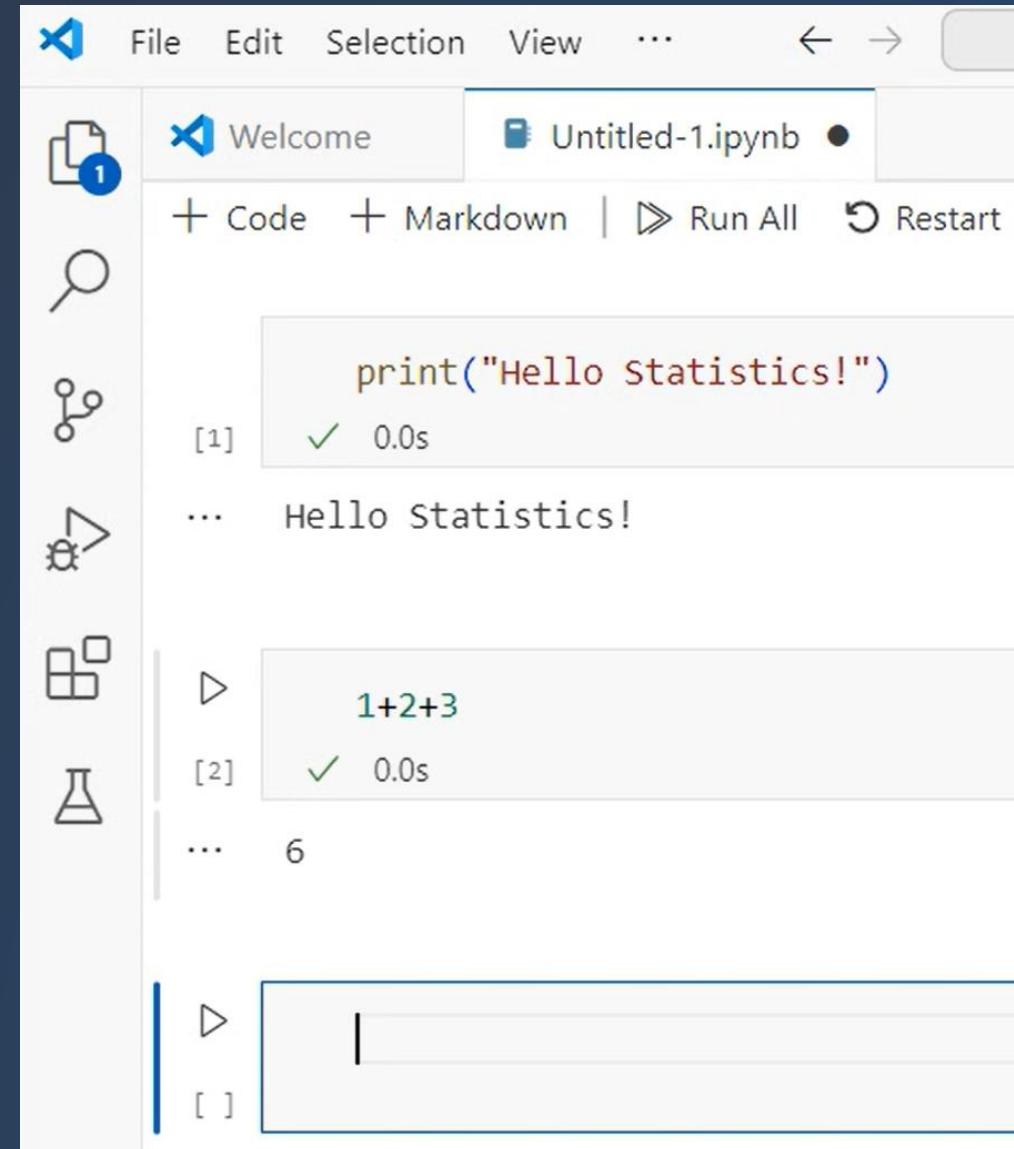
首次运行程序，自动安装Jupyter、Python插件



## 4.运行Jupyter Notebook



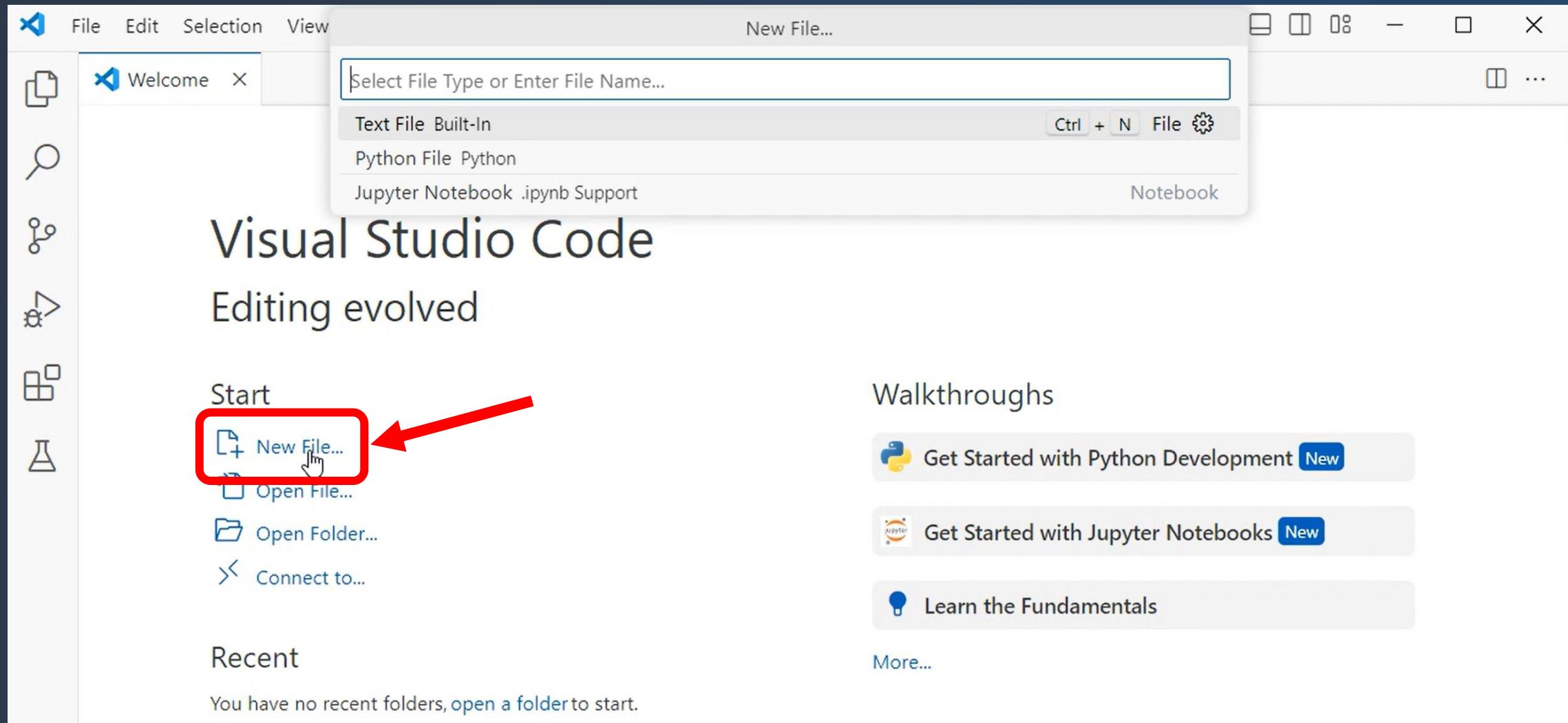
#### 4.运行Jupyter Notebook



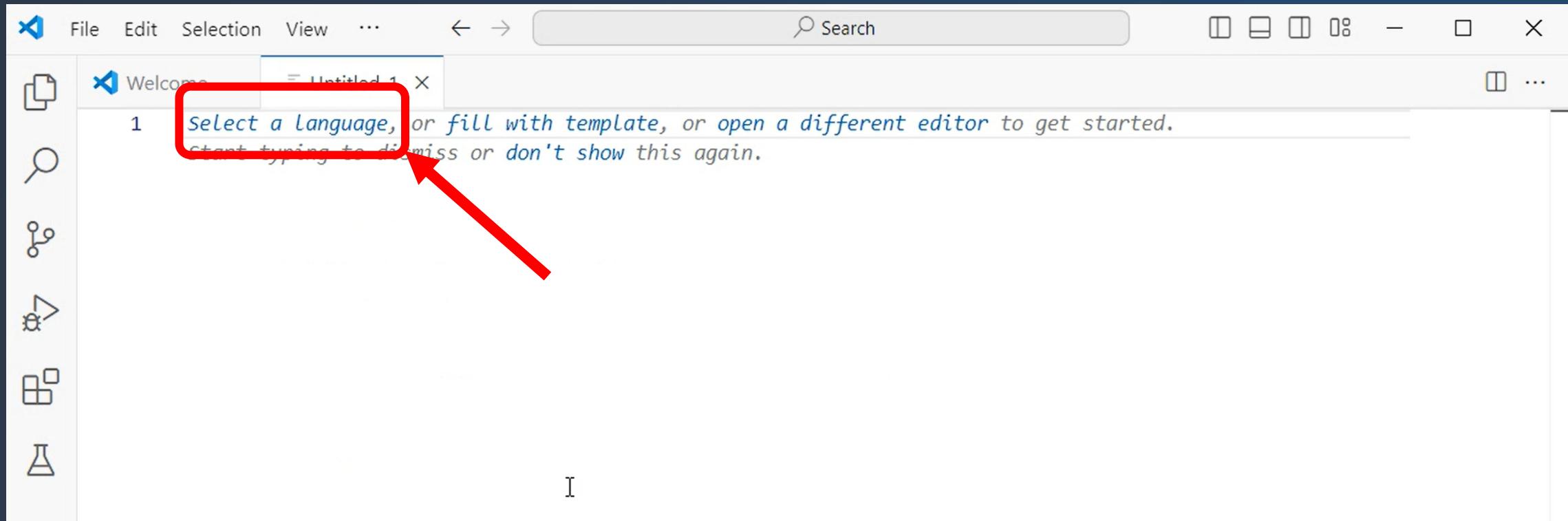
The screenshot shows a Jupyter Notebook interface within a code editor. The notebook has two cells:

- Cell 1:** `print("Hello Statistics!")`  
Output: [1] ✓ 0.0s  
... Hello Statistics!
- Cell 2:** `1+2+3`  
Output: [2] ✓ 0.0s  
... 6

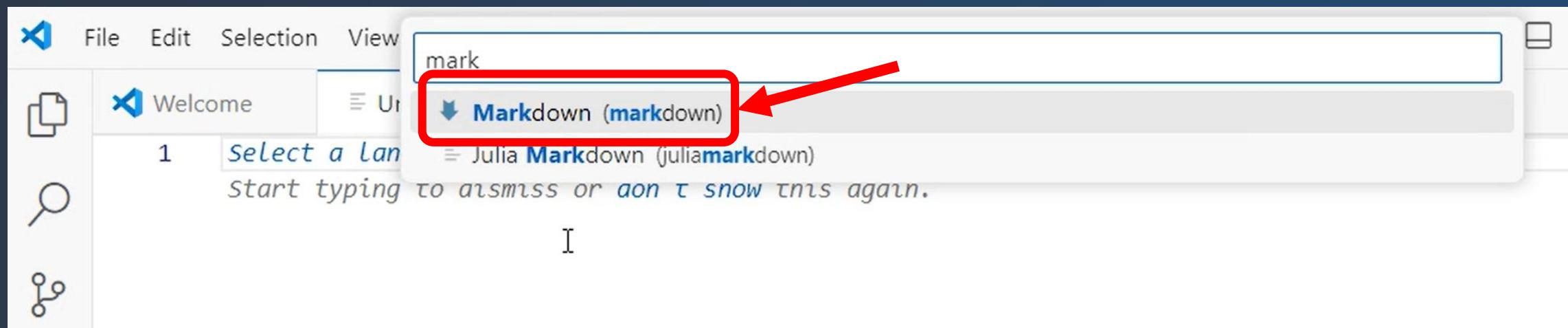
## 5.运行Markdown



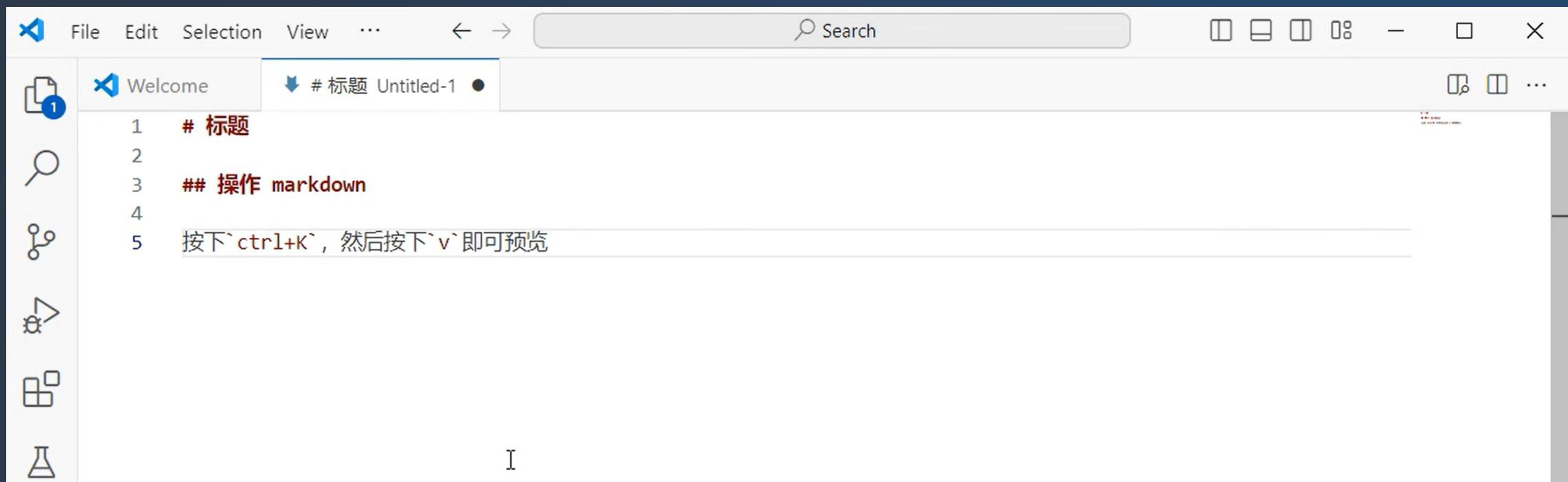
## 5.运行Markdown



## 5.运行Markdown



## 5.运行Markdown



The screenshot shows a Microsoft Word document window with the following content:

```
1 # 标题
2
3 ## 操作 markdown
4
5 按下`ctrl+K`，然后按下`v`即可预览
```

The document has a single page with the following text:

- 1 # 标题
- 2
- 3 ## 操作 markdown
- 4
- 5 按下`ctrl+K`，然后按下`v`即可预览

## 5.运行Markdown



The screenshot shows a Markdown editor interface with a dark blue header bar. The header includes a file icon, 'File', 'Edit', 'Selection', 'View', and a 'Search' bar. Below the header are two tabs: 'Welcome' and '# 标题 Untitled-1'. The preview tab is currently active, showing the rendered content of the Markdown file. The left sidebar contains icons for file, search, and other document-related functions. The main content area displays the following Markdown code:

```
1 # 标题
2
3 ## 操作 markdown
4
5 按下`ctrl+K`，然后按下`v`即可预览
```

The preview area shows the rendered output:

**标题**

---

**操作 markdown**

---

按下`ctrl+K`，然后按下`v`即可预览