

以下是关于软件的安装，包括 ide 安装、环境搭建等，如遇网络问题或意外原因中断，请尝试使用全局 VPN

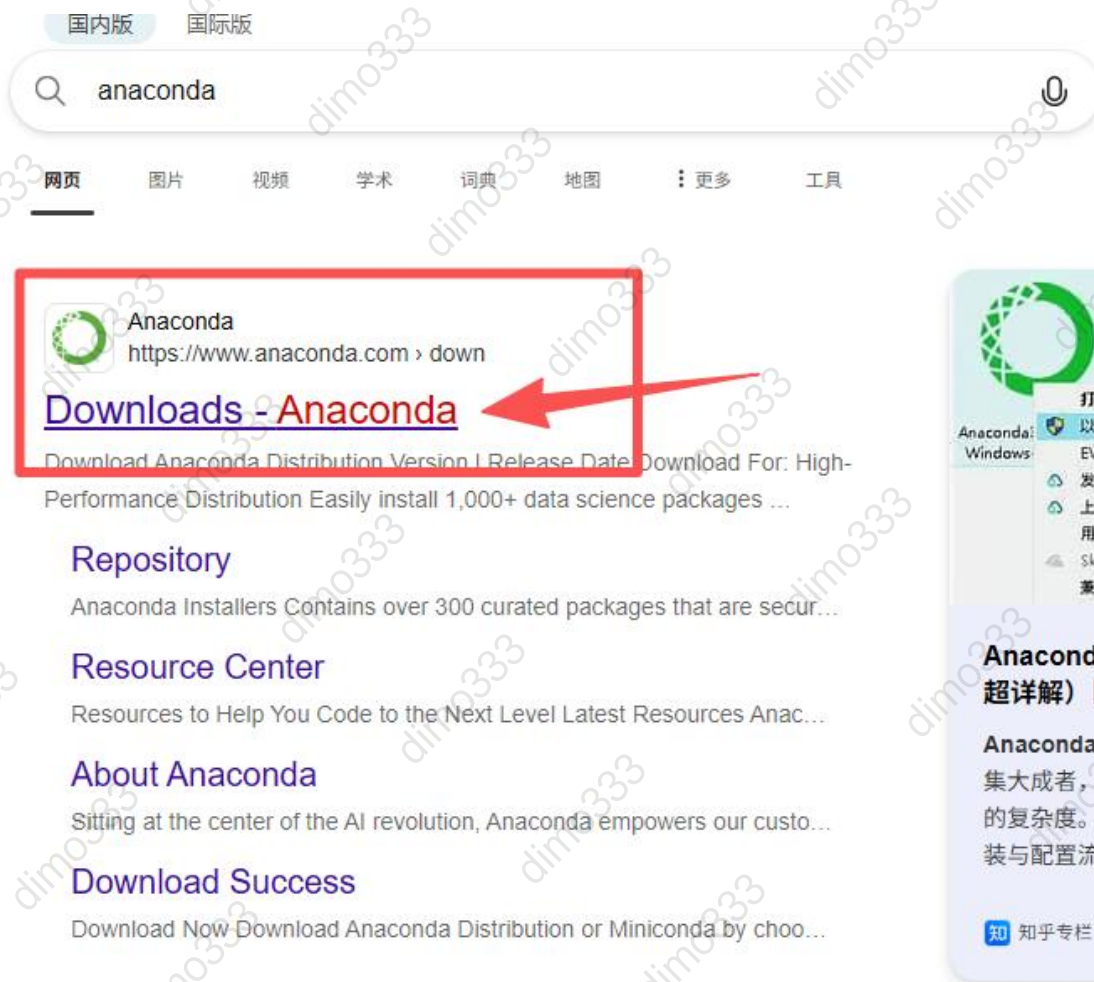
## 9、软件安装：vscode

这个我就不多说了，你都玩电脑了，装个软件都不会？

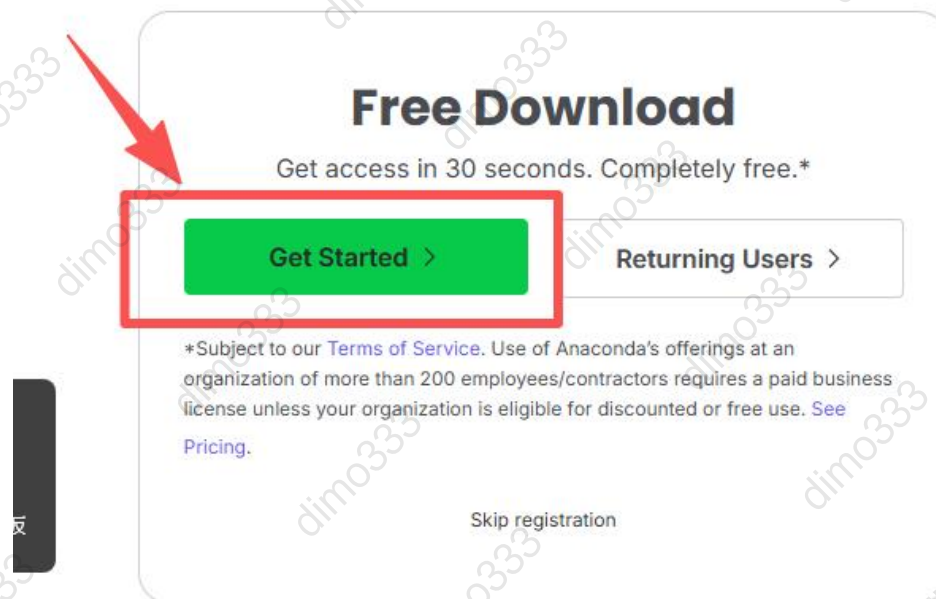
## 10、软件安装：anaconda:

浏览器搜索 anaconda

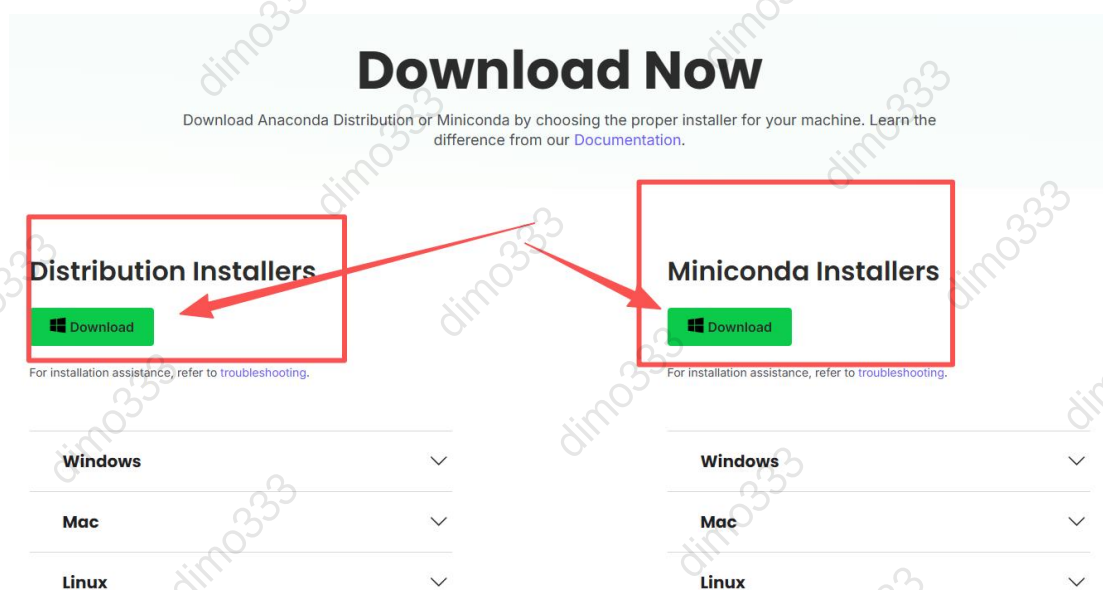
打开官网（<https://docs.anaconda.com>）



点进去之后点这个 **get started**。  
然后会需要你登录一个账户，没有就自己注册一个



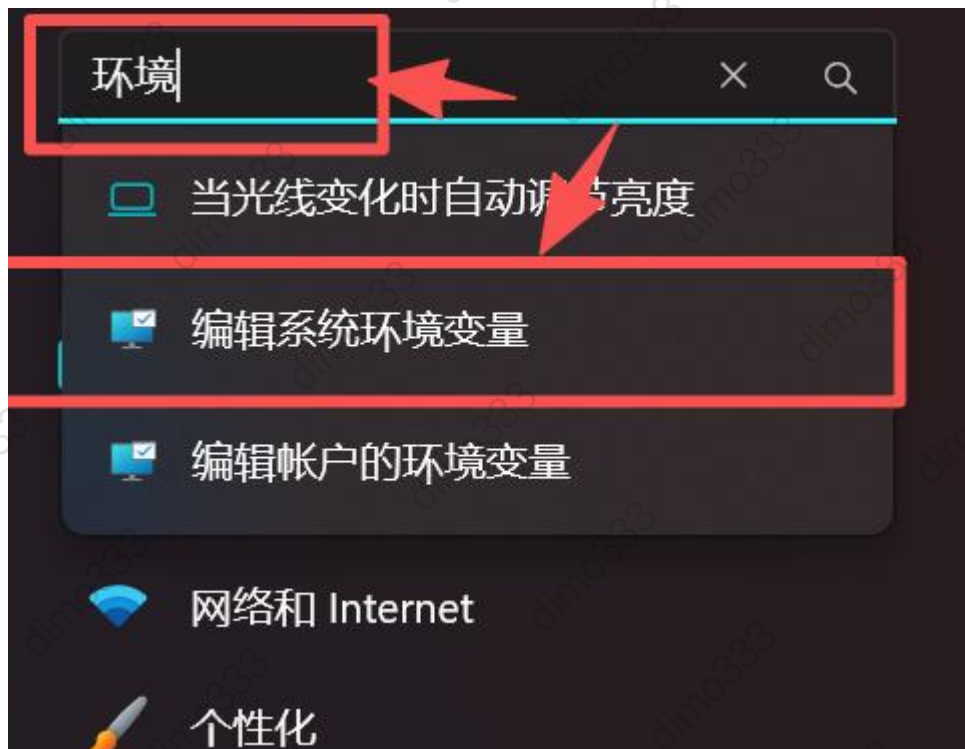
跳转出来的界面，随便下载一个都可以，下载你  
对应电脑系统的版本：



自己找个文件夹安装就行

接下来要把 **anaconda** 添加进电脑的环境变量里，  
否则后续使用 **vscode** 时即便环境成功切换，  
**vscode** 也无法正常执行 **conda** 的指令。

打开电脑的设置搜索环境，选择编辑系统环境变量：

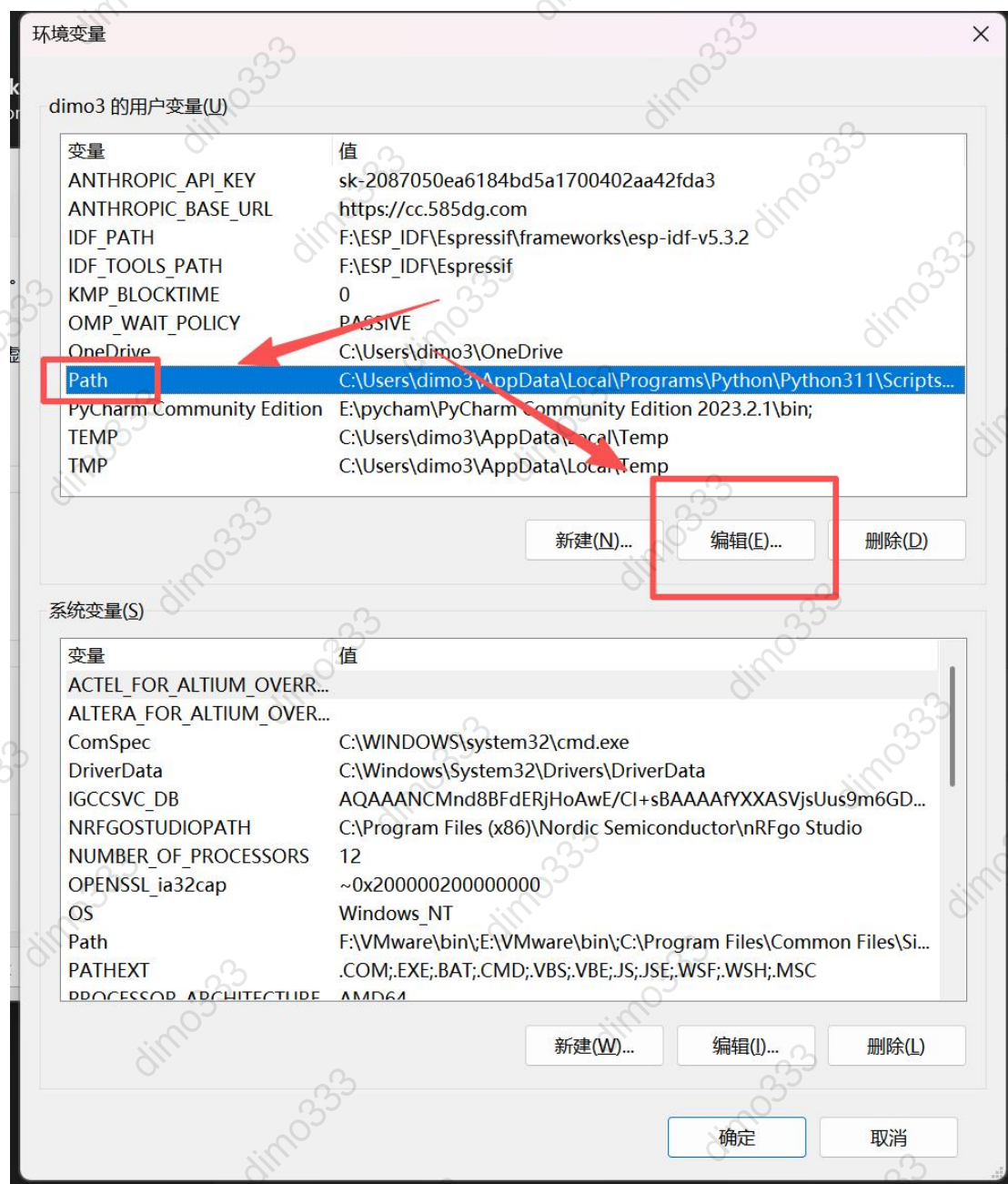


## 点击编辑变量

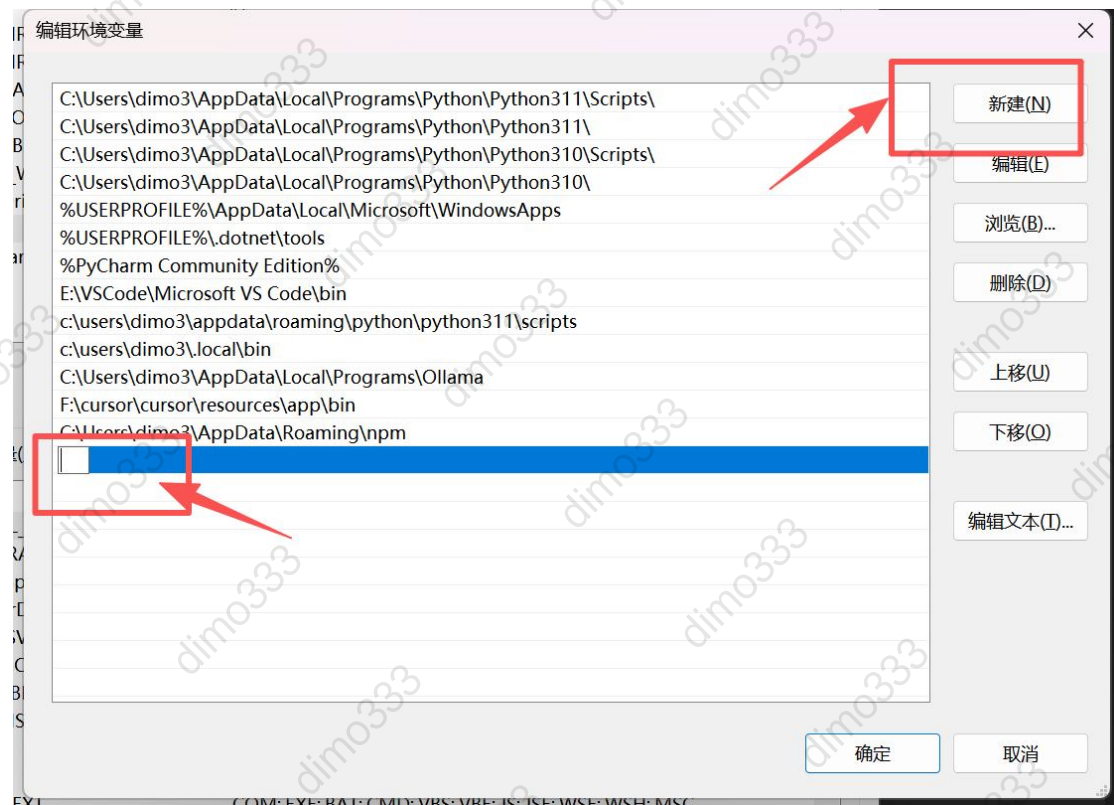




选择 Path，点击编辑

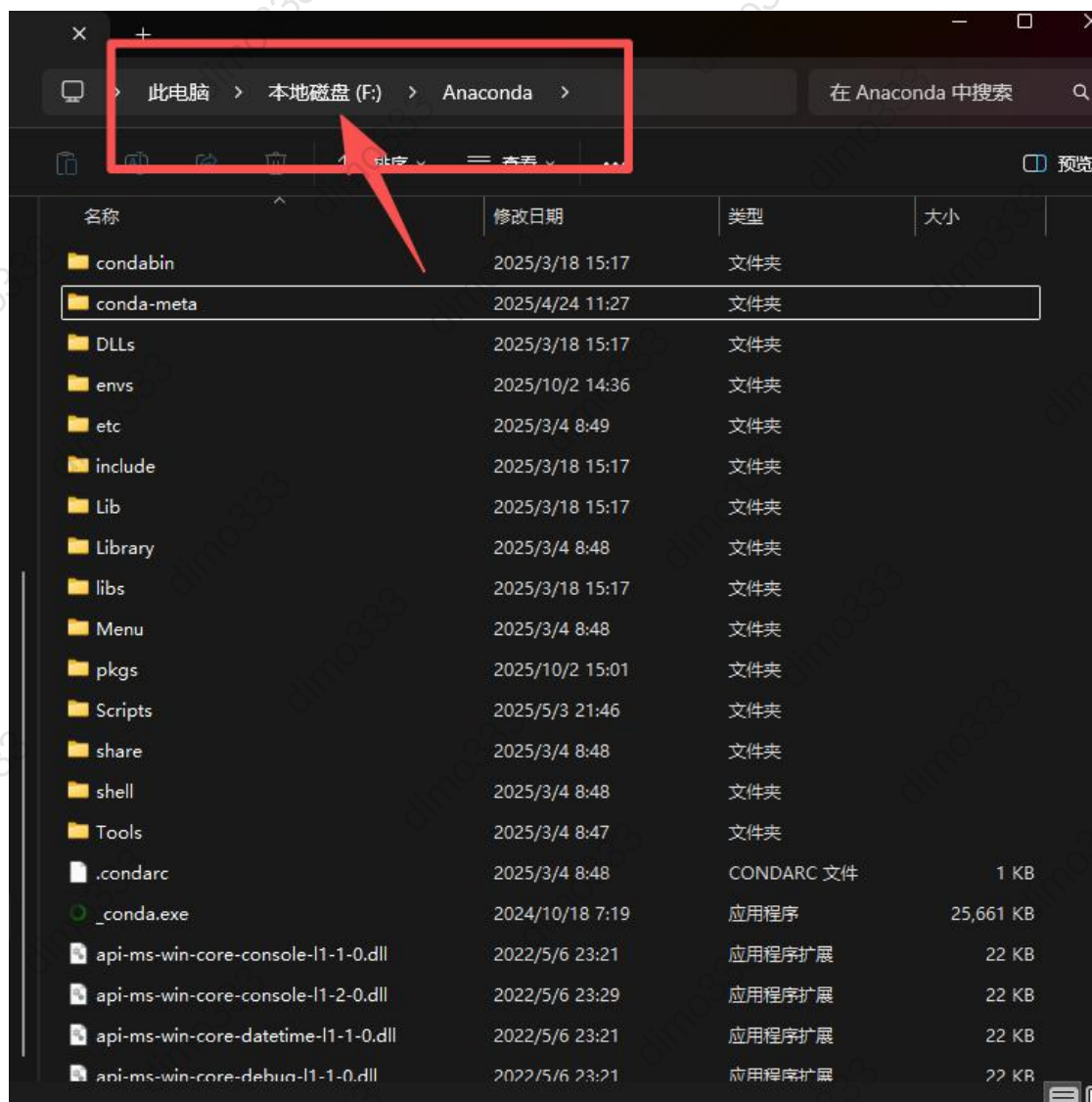


点击右上角新建，下方出现一个需要填充的地方，





这里我们需要填充 anaconda 的一些目录  
先找到你安装 anaconda 的目录



找到以下五个：

F:\Anaconda

F:\Anaconda\Scripts

F:\Anaconda\Library\bin

F:\Anaconda\Library\usr\bin

F:\Anaconda\Library\mingw-w64

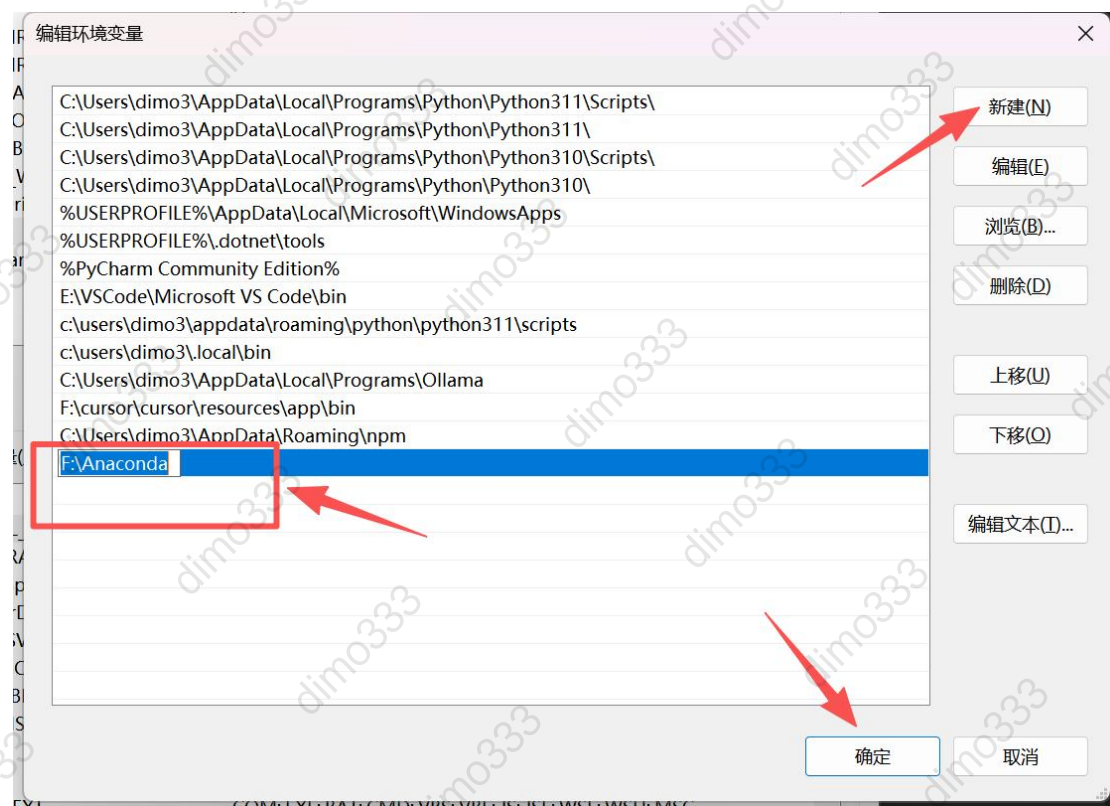
我的印象中是只需要前面三个就好了，但是我在写这部分教程，搜索资料的时候，看到有说还需要添加以下目录的，保险起见，可以顺手添加上。

参考文章：

(<https://blog.csdn.net/lu8000/article/details/148083990>)

这里简单的添加了一个作为参考。

添加完点击确定

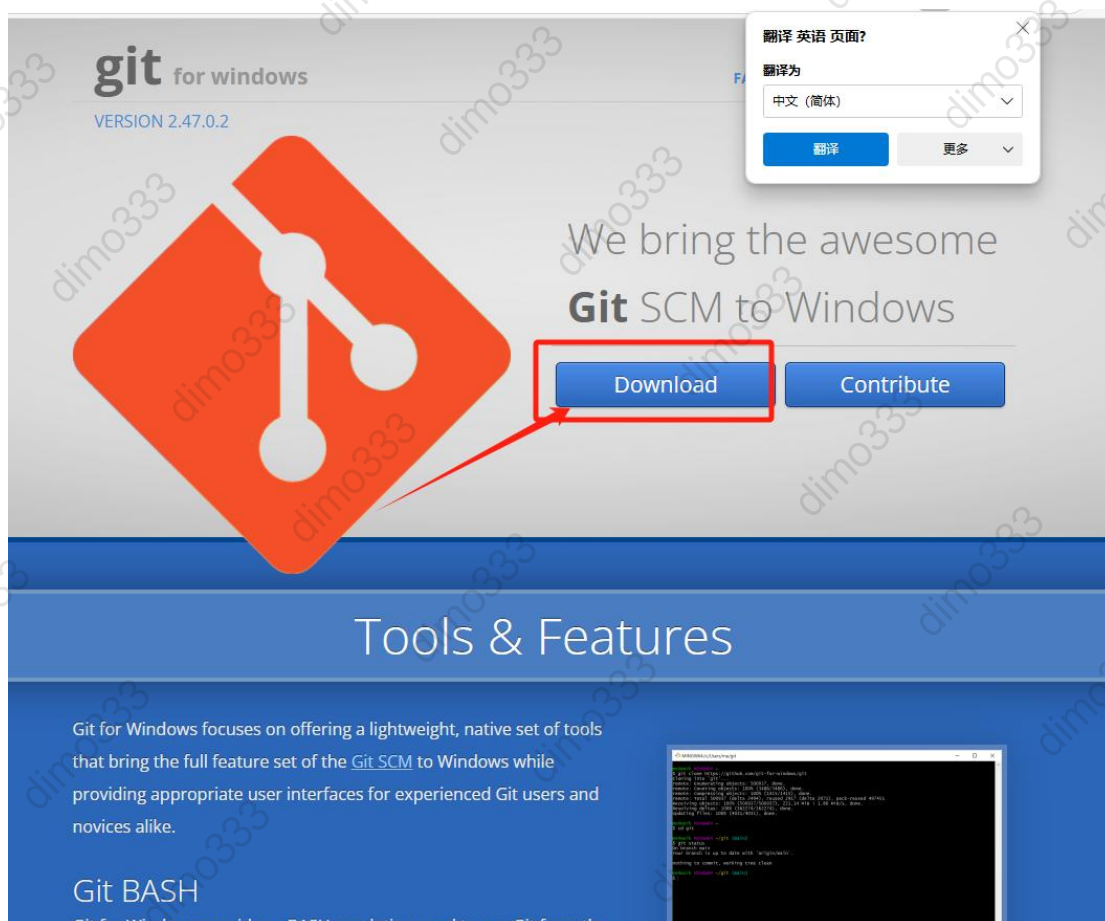


## 11、软件安装：git bash

这个是拿来做模型转换的，浏览器搜索打开

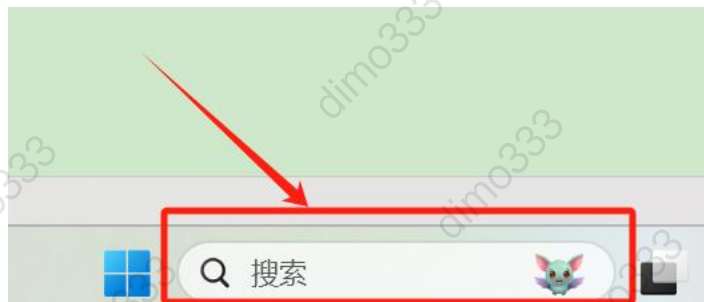


有一个选项是添加路径到 `vscode` 里，还是添加到系统环境里的，我忘记了，记得勾选上，等会能省很多事



## 12、环境搭建：anaconda

打开搜索框：



搜索 Anaconda Prompt 并以管理员身份打开  
输入命令：

```
conda create -n dimo python=3.8
```

这一步是在创建环境，**dimo** 是这个环境的名字，  
可以改成你喜欢的（如果你讨厌我的话..）



按 y，按回车：



```
管理员: Anaconda Prompt - conda create -n dimo python=3.8

(base) C:\Windows\System32>conda create -n dimo python=3.8
Retrieving notices: done
Channels:
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: F:\Anaconda\envs\dimo

  added / updated specs:
    - python=3.8

The following packages will be downloaded:



| package                    | build       | size    |
|----------------------------|-------------|---------|
| ca-certificates-2025.9.9   | haa95532_0  | 127 KB  |
| openssl-3.0.17             | h35632f6_0  | 7.8 MB  |
| sqlite-3.50.2              | hda9a48d_1  | 1017 KB |
| ucrt-10.0.22621.0          | haa95532_0  | 620 KB  |
| vc-14.3                    | h2df5915_10 | 19 KB   |
| vc14_runtime-14.44.35208   | h4927774_10 | 825 KB  |
| vs2015_runtime-14.44.35208 | ha6b5a95_10 | 19 KB   |
| Total:                     |             | 10.4 MB |



The following NEW packages will be INSTALLED:

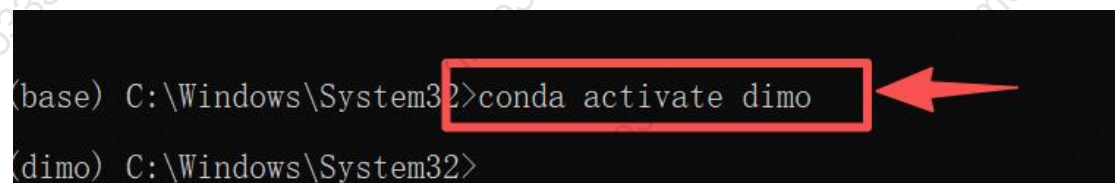
ca-certificates      pkgs/main/win-64::ca-certificates-2025.9.9-haa95532_0
libffi               pkgs/main/win-64::libffi-3.4.4-hd77b12b_1
openssl              pkgs/main/win-64::openssl-3.0.17-h35632f6_0
pip                  pkgs/main/win-64::pip-24.2-py38haa95532_0
python               pkgs/main/win-64::python-3.8.20-h8205438_0
setuptools           pkgs/main/win-64::setuptools-75.1.0-py38haa95532_0
sqlite               pkgs/main/win-64::sqlite-3.50.2-hda9a48d_1
ucrt                  pkgs/main/win-64::ucrt-10.0.22621.0-haa95532_0
vc                   pkgs/main/win-64::vc-14.3-h2df5915_10
vc14_runtime         pkgs/main/win-64::vc14_runtime-14.44.35208-h4927774_10
vs2015_runtime       pkgs/main/win-64::vs2015_runtime-14.44.35208-ha6b5a95_10
wheel                 pkgs/main/win-64::wheel-0.44.0-py38haa95532_0

Proceed ([y]/n)?
```

这样子环境就算是起好名字了，接下来要往里面装一些包

需要进入这个环境，才能装包  
输入命令：

`conda activate dimo`



```
(base) C:\Windows\System32>conda activate dimo
(dim) C:\Windows\System32>
```

注意看路径前面（**base**）变成了（**dim**），这样就说明我们从基础环境进入到了我们刚刚创建的 **dim** 环境里

接下来需要安装三个东西：

**tensorflow:**

输入指令：

`conda install tensorflow==2.10.0`

A screenshot of a Windows command prompt window with a black background and white text. The first line shows the prompt '(base) C:\Windows\System32>' followed by the command 'conda activate dimo'. The second line shows the prompt '(dim0) C:\Windows\System32>' followed by the command 'conda install tensorflow==2.10.0'. Two red rectangular boxes are drawn around the prompts: one around '(base) C:\Windows\System32>' and another around '(dim0) C:\Windows\System32>'. Two red arrows point from the first box to the second box, indicating the transition between environments. A white cursor is visible at the end of the second command line.

```
(base) C:\Windows\System32>conda activate dimo
(dim0) C:\Windows\System32>conda install tensorflow==2.10.0
```

这里我是开了全局 VPN，所以下载很顺利，如果你下载失败了并且没有 VPN 的话，请使用清华源或其它源。使用方法可以参考这篇文章：

<https://blog.csdn.net/ytusdc/article/details/89469161>

按 y, 按回车:

```
管理员: Anaconda Prompt - conda install tensorflow==2.10.0

markdown pkgs/main/win-64::markdown-3.4.1-py38haa95532_0
markupsafe pkgs/main/win-64::markupsafe-2.1.3-py38h2bbff1b_0
mkl pkgs/main/win-64::mkl-2023.1.0-h6b88ed4_46358
mkl-service pkgs/main/win-64::mkl-service-2.4.0-py38h2bbff1b_1
mkl_fft pkgs/main/win-64::mkl_fft-1.3.8-py38h2bbff1b_0
mkl_random pkgs/main/win-64::mkl_random-1.2.4-py38h59b6b97_0
multidict pkgs/main/win-64::multidict-6.0.4-py38h2bbff1b_0
numpy pkgs/main/win-64::numpy-1.24.3-py38h79a8e48_1
numpy-base pkgs/main/win-64::numpy-base-1.24.3-py38h8a87ada_1
oauthlib pkgs/main/win-64::oauthlib-3.2.2-py38haa95532_0
opt_einsum pkgs/main/noarch::opt_einsum-3.3.0-pyhd3eb1b0_1
packaging pkgs/main/win-64::packaging-24.1-py38haa95532_0
platformdirs pkgs/main/win-64::platformdirs-3.10.0-py38haa95532_0
pooch pkgs/main/win-64::pooch-1.7.0-py38haa95532_0
protobuf pkgs/main/win-64::protobuf-3.20.3-py38hd77b12b_0
pyasn1 pkgs/main/noarch::pyasn1-0.4.8-pyhd3eb1b0_0
pyasn1-modules pkgs/main/noarch::pyasn1-modules-0.2.8-py_0
pyparser pkgs/main/noarch::pyparser-2.21-pyhd3eb1b0_0
pyjwt pkgs/main/win-64::pyjwt-2.8.0-py38haa95532_0
pyopenssl pkgs/main/win-64::pyopenssl-23.2.0-py38haa95532_0
pysocks pkgs/main/win-64::pysocks-1.7.1-py38haa95532_0
python-flatbuffers pkgs/main/win-64::python-flatbuffers-24.3.25-py38haa95532_0
re2 pkgs/main/win-64::re2-2022.04.01-hd77b12b_0
requests pkgs/main/win-64::requests-2.32.3-py38haa95532_0
requests-oauthlib pkgs/main/win-64::requests-oauthlib-2.0.0-py38haa95532_0
rsa pkgs/main/noarch::rsa-4.7.2-pyhd3eb1b0_1
scipy pkgs/main/win-64::scipy-1.10.1-py38hdcfc7df_1
six pkgs/main/noarch::six-1.16.0-pyhd3eb1b0_1
snappy pkgs/main/win-64::snappy-1.2.1-hcdeb6601_0
tbb pkgs/main/win-64::tbb-2021.8.0-h59b6b97_0
tensorboard pkgs/main/win-64::tensorboard-2.10.0-py38haa95532_0
tensorboard-data-server pkgs/main/win-64::tensorboard-data-server-0.6.1-py38haa95532_0
tensorboard-plugin-pytorch pkgs/main/win-64::tensorboard-plugin-pytorch-1.8.1-py38haa95532_0
tensorflow pkgs/main/win-64::tensorflow-2.10.0-mkl_py38ha5c4042_0
tensorflow-base pkgs/main/win-64::tensorflow-base-2.10.0-mkl_py38ha6a7f48e_0
tensorflow-estimator pkgs/main/win-64::tensorflow-estimator-2.10.0-py38haa95532_0
termcolor pkgs/main/win-64::termcolor-2.1.0-py38haa95532_0
typing_extensions pkgs/main/win-64::typing_extensions-4.11.0-py38haa95532_0
urllib3 pkgs/main/win-64::urllib3-2.2.3-py38haa95532_0
werkzeug pkgs/main/win-64::werkzeug-3.0.3-py38haa95532_0
win_inet_pton pkgs/main/win-64::win_inet_pton-1.1.0-py38haa95532_0
wrapit pkgs/main/win-64::wrapit-1.14.1-py38h2bbff1b_0
xz pkgs/main/win-64::xz-5.6.4-h4754444_1
yarl pkgs/main/win-64::yarl-1.11.0-py38h827c3e9_0
zipp pkgs/main/win-64::zipp-3.20.2-py38haa95532_0
zlib pkgs/main/win-64::zlib-1.3.1-h02ab6af_0
zstd pkgs/main/win-64::zstd-1.5.7-h56299aa_0

The following packages will be DOWNGRADED:
  openssl 3.0.17-h35632f6_0 --> 1.1.1w-h2bbff1b_0
  python 3.8.20-h8205438_0 --> 3.8.18-h6244533_0

Proceed ([y]/n)?
```

等待安装，完成后会显示 done 并清屏:

```
管理员: Anaconda Prompt - conda install tensorflow==2.10.0

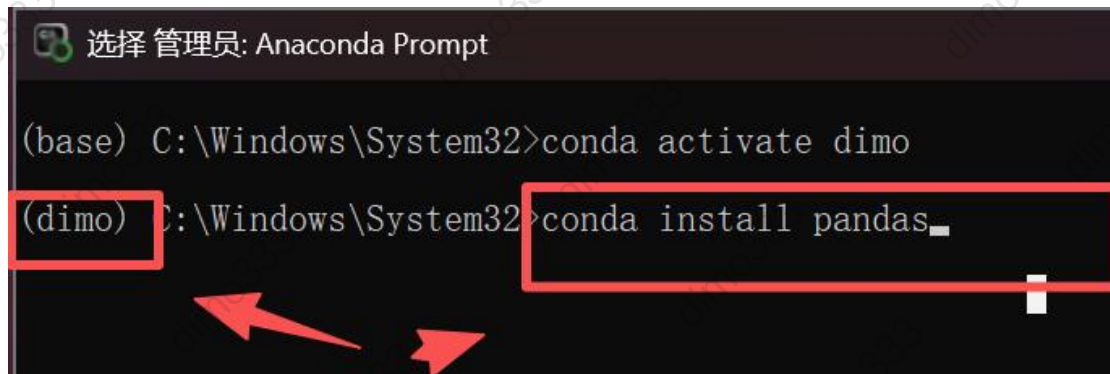
done

(dimo) C:\Windows\System32>
```

## pandas:

输入指令:

conda install pandas



The screenshot shows a Windows command prompt window titled "选择 管理员: Anaconda Prompt". The prompt shows the command `(base) C:\Windows\System32>conda activate dimo` has been executed. The next line shows `(dim0) C:\Windows\System32>conda install pandas_` being entered. The text `(dim0)` and `conda install pandas_` are highlighted with red boxes. Two red arrows point from below towards the prompt line.

```
(base) C:\Windows\System32>conda activate dimo
(dim0) C:\Windows\System32>conda install pandas_
```



按 y，按回车：

```
管理员: Anaconda Prompt - conda install pandas

(base) C:\Windows\System32>conda activate demo
(demo) C:\Windows\System32>conda install pandas
Channels:
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: F:\Anaconda\envs\demo


added / updated specs:
- pandas

The following packages will be downloaded:

package                                     build                                115 KB
bottleneck-1.3.7                           py38h9128911_0
numexpr-2.8.4                               py38h7b80656_1                    128 KB
pandas-2.0.3                                py38h4ed8f06_0                     9.8 MB
python-dateutil-2.9.0post0                  py38haa95532_2                     280 KB
python-tzdata-2025.2                        pyhd3eb1b0_0                      141 KB
pytz-2024.1                                 py38haa95532_0                     216 KB
Total:                                     10.7 MB


The following NEW packages will be INSTALLED:

bottleneck      pkgs/main/win-64::bottleneck-1.3.7-py38h9128911_0
numexpr         pkgs/main/win-64::numexpr-2.8.4-py38h7b80656_1
pandas          pkgs/main/win-64::pandas-2.0.3-py38h4ed8f06_0
python-dateutil pkgs/main/win-64::python-dateutil-2.9.0post0-py38haa95532_2
python-tzdata   pkgs/main/noarch::python-tzdata-2025.2-pyhd3eb1b0_0
pytz            pkgs/main/win-64::pytz-2024.1-py38haa95532_0

Proceed ([y]/n)? 
```

等待安装，完成后会显示 done 并清屏：

```
管理员: Anaconda Prompt - conda install pandas

done 

(demo) C:\Windows\System32>
```



## pyserial:

输入指令:

conda install pyserial

```
管理员: Anaconda Prompt - conda install pandas - conda install pyserial
done
(dimo) C:\Windows\System32>conda install pyserial
```

按 y, 按回车:

```
管理员: Anaconda Prompt - conda install pandas - conda install pyserial
done
(dimo) C:\Windows\System32>conda install pyserial
Channels:
- defaults
Platform: win-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: F:\Anaconda\envs\dim0
  added / updated specs:
    - pyserial

The following packages will be downloaded:



| package      | build          | size   |
|--------------|----------------|--------|
| pyserial-3.5 | py38haa95532_0 | 163 KB |
| Total:       |                | 163 KB |



The following NEW packages will be INSTALLED:

  pyserial      pkgs/main/win-64::pyserial-3.5-py38haa95532_0

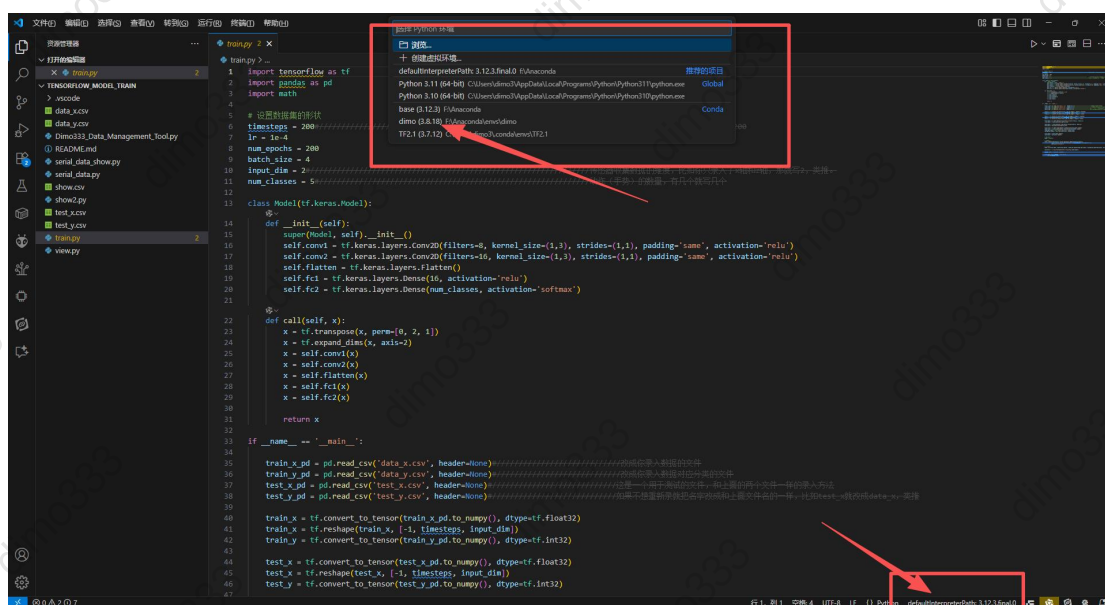
Proceed ([y]/n)?
```

安装完成后显示：

```
Downloading and Extracting Packages:
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(dimo) C:\Windows\System32>
```

执行到这里，关于 **vscode** 使用的环境已经安装好了

点击 **vscode** 右下角再弹出来的界面中选择刚刚创建的环境（如果没有就刷新一下）



当右下角显示的是你刚刚创建的环境就 ok 了



如果你执行到这里，关于进阶部分的软件安装、环境搭建就结束了，你可以前往下一章

[Use\\_Process\\_advanced.docs](#)

开始你的探索了