



链滴

AI(人工智能) 学习笔记

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来源网站: [链滴](#)

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AI(人工智能)学习笔记

开发环境搭建

Windows系统

系统配置

项目	配置	说明
操作系统	Windows 10	
内存	16G	
处理器	i5-4570	4核
位长	64位	

软件安装

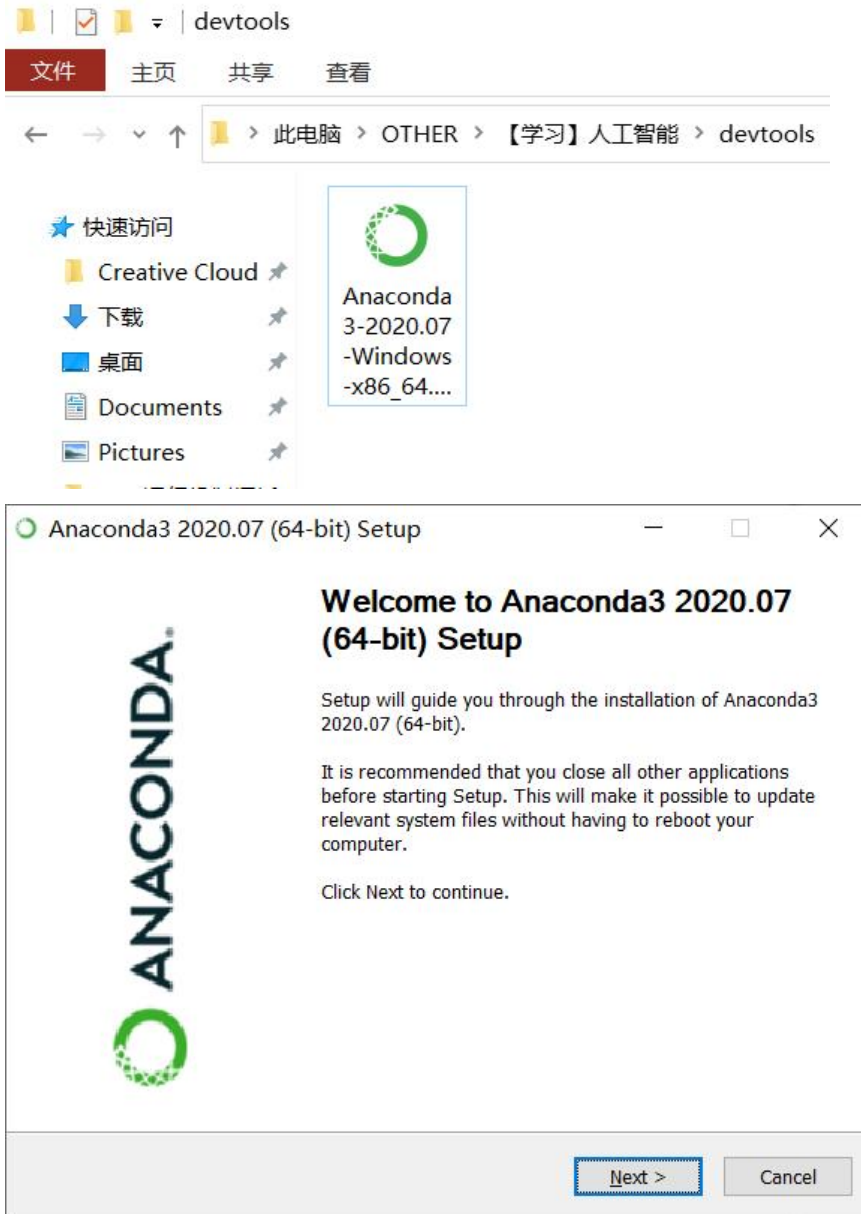
Anaconda

Anaconda 是一个用于科学计算的Python发行版本，支持Linux, Mac, Windows系统，提供了包理与环境管理的功能，可以很方便地解决多版本Python并存的问题，并且包含了Python 和相关的组件，可以减免许多组件复杂的安装与配置。

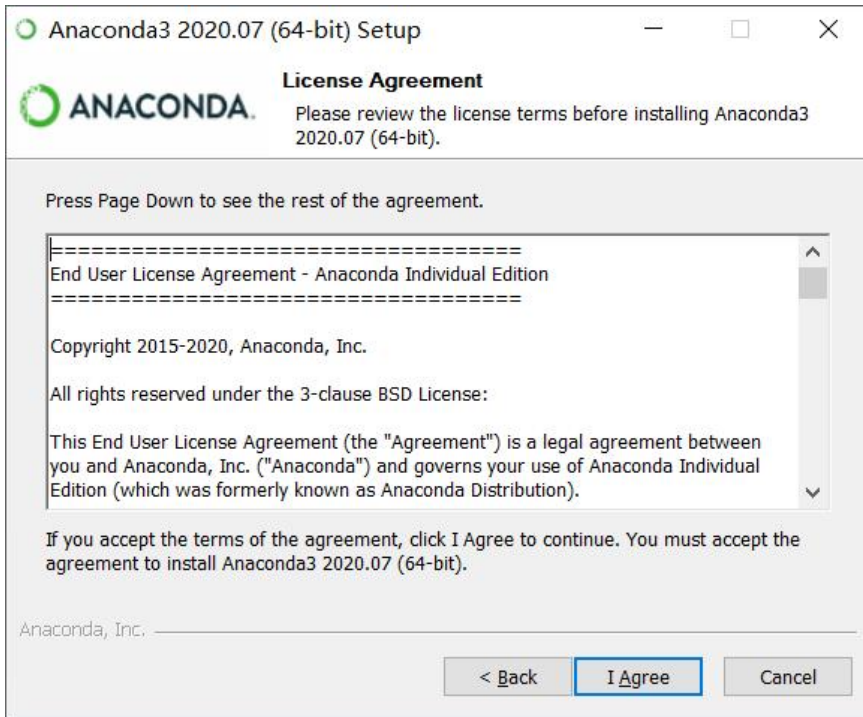
官网: <https://www.anaconda.com/>

下载页面: <https://www.anaconda.com/products/individual>

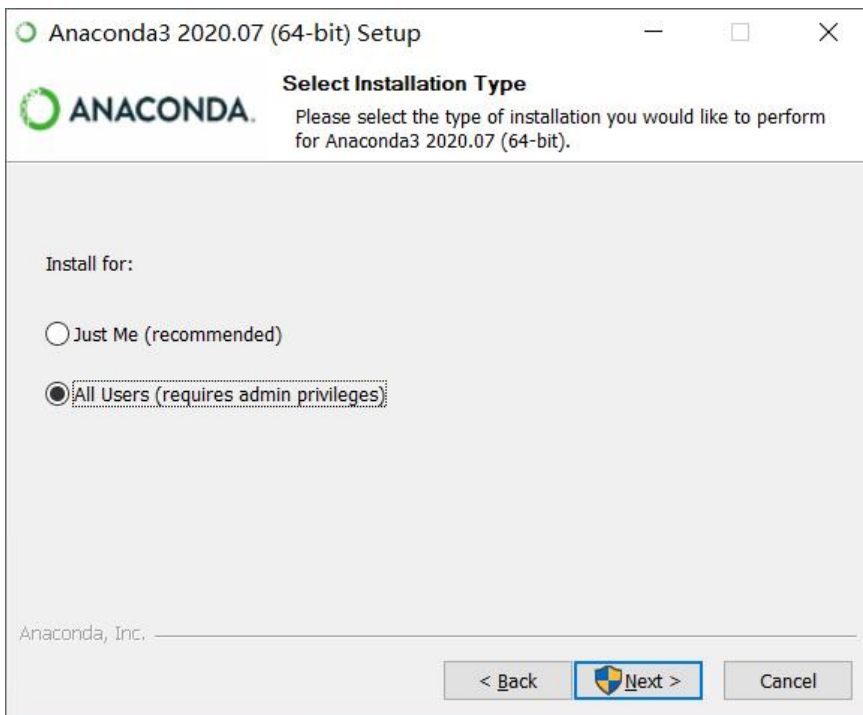
启动安装



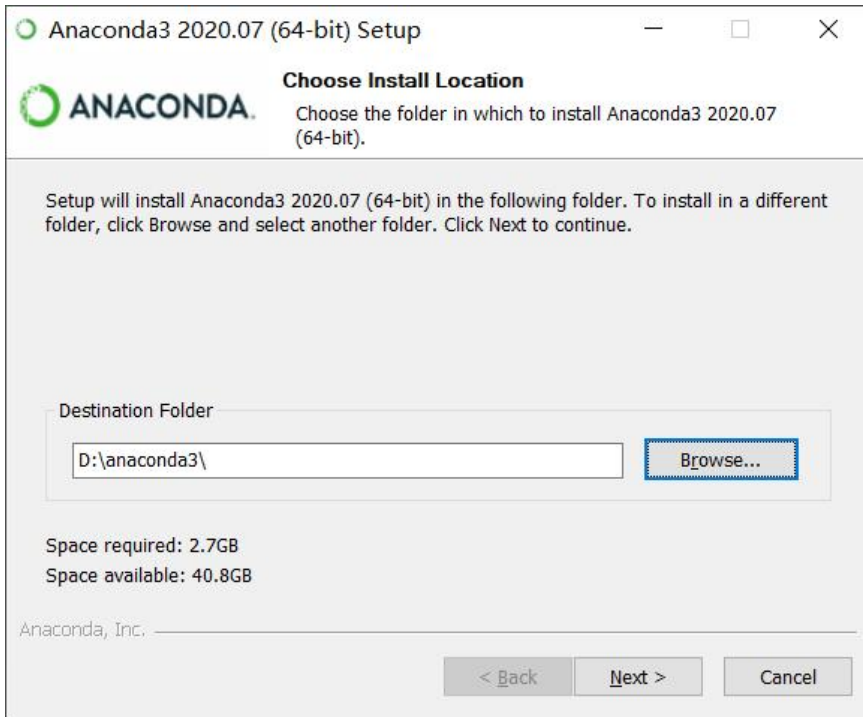
阅读协议，点击同意即可



为当前电脑所有用户安装，使用其他用户登录也能使用

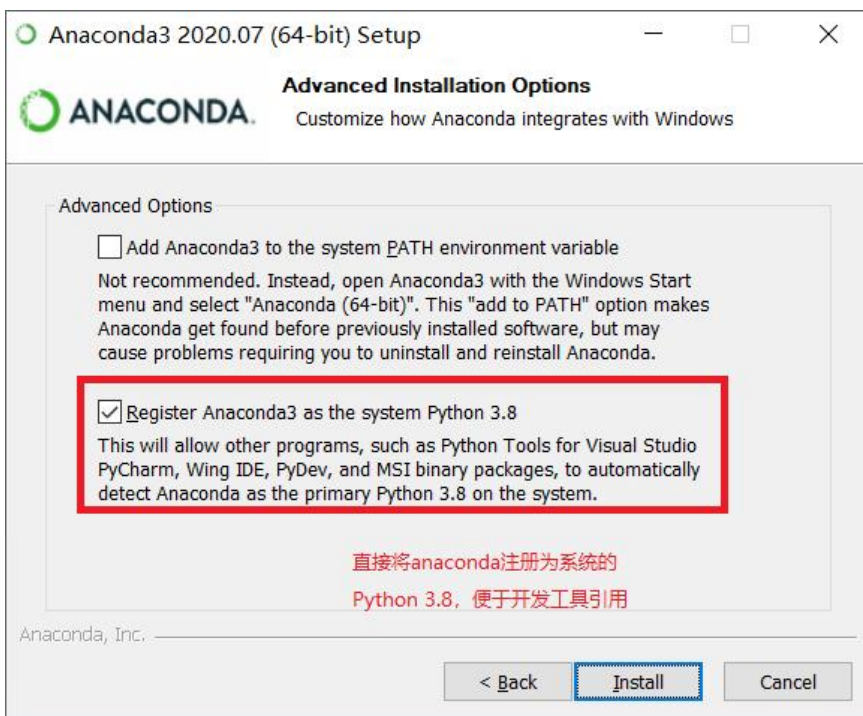


选择自定义安装目录，默认路径为C盘，不建议使用默认路径，路径不能含有中文、特殊字符和空格

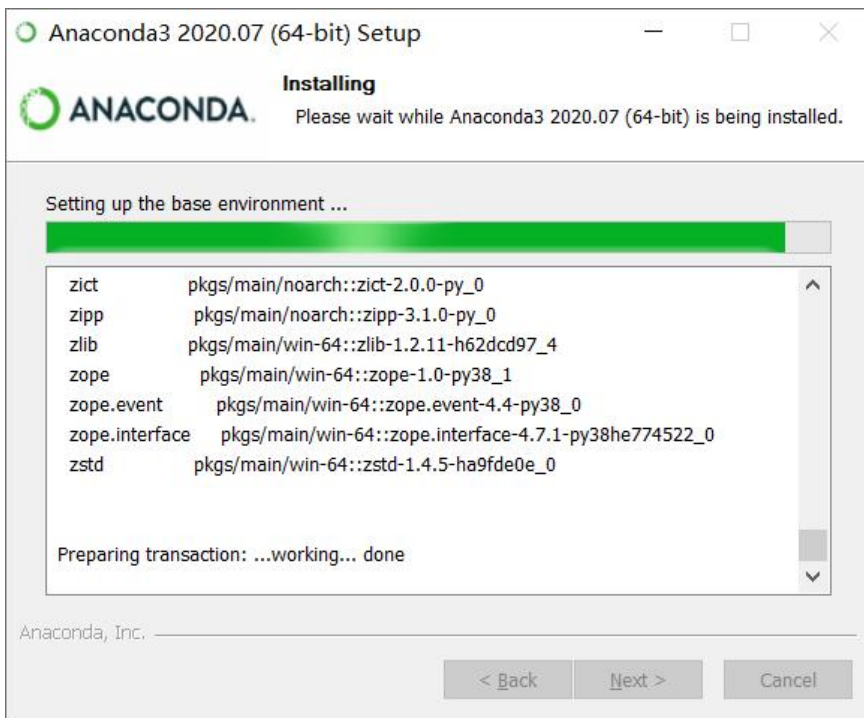


选择将Anaconda作为系统的默认编辑器进行安装，这样便与其他开发软件对Python的引用

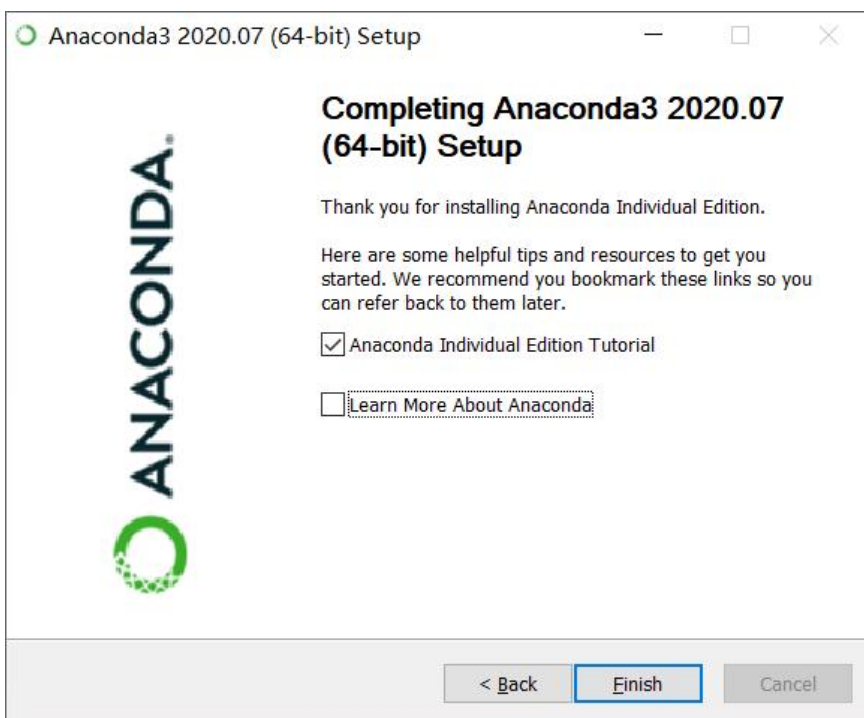
也建议同时勾选Add Anaconda3 to system PATH environment variable，自动将anaconda添加到环境变量中，免去后续手动配置的工作。



点击details可查看安装进度详情



完成安装



测试安装

windows 键 + R ,输入 powershell启动powershell工具

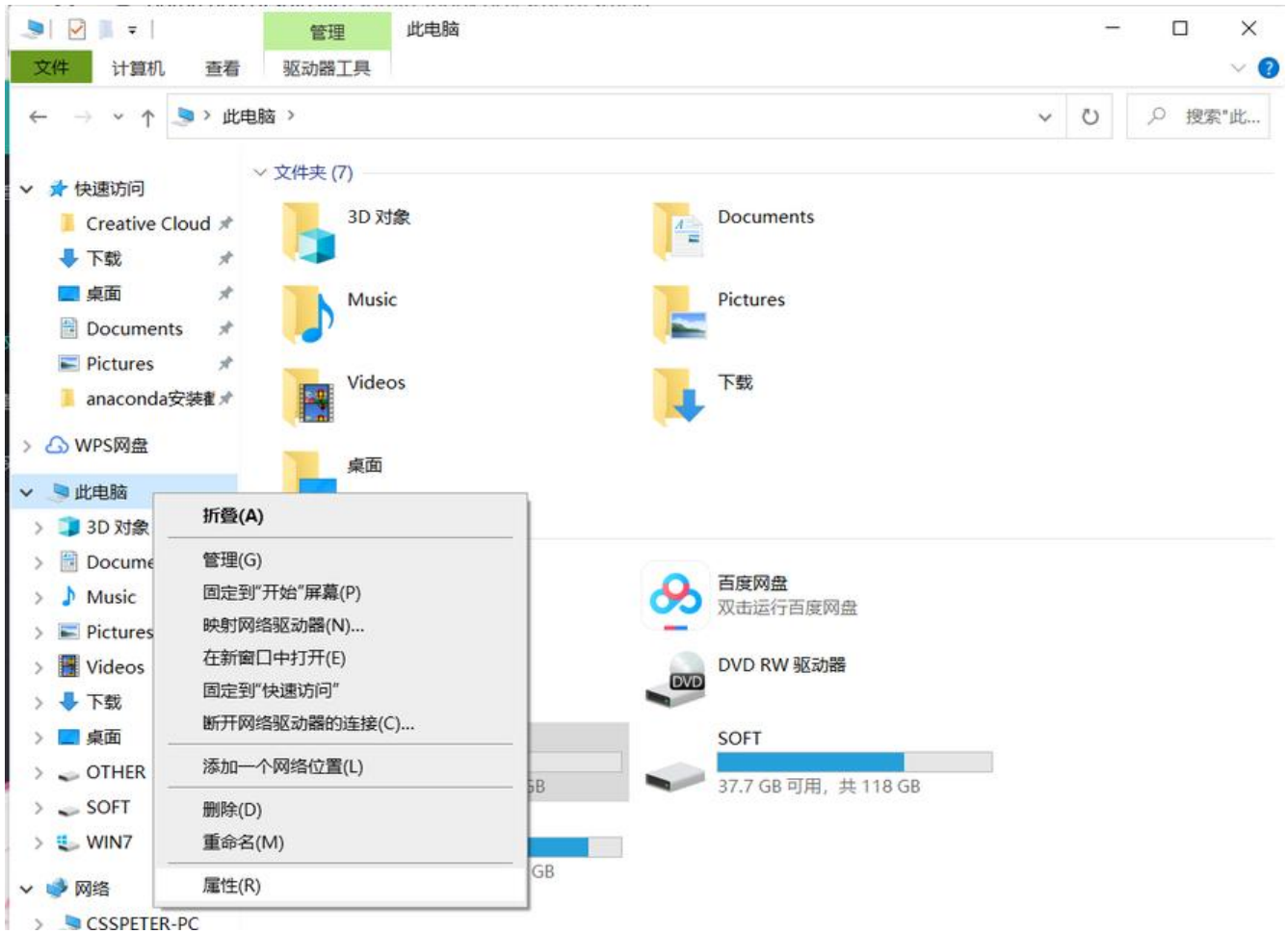
```
Windows PowerShell
版权所有 (C) Microsoft Corporation。保留所有权利。
尝试新的跨平台 PowerShell https://aka.ms/pscore6
PS C:\Users\CSSPeter> _
```

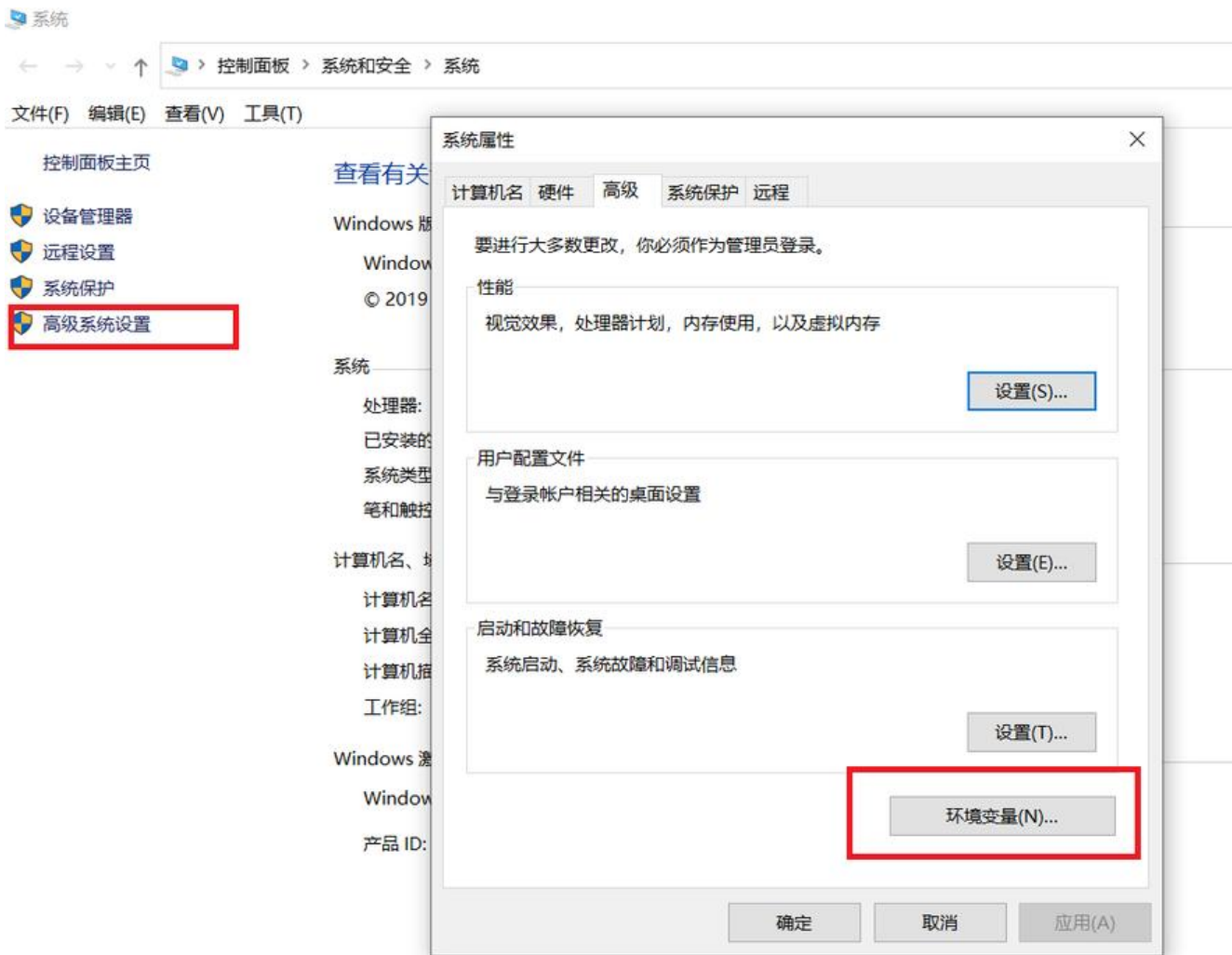
输入python，此时会报找不到命令的错误，这就是上面没有勾选Add Anaconda3 to system PATH environment variable导致，需要手动添加anaconda的目录到环境变量path中：

```
Windows PowerShell
PS C:\Users\CSSPeter> python
python : 无法将“python”项识别为 cmdlet、函数、脚本文件或可运行程序的名称。请检查名称的拼写，如果包括路径，请确保路径正确，然后再试一次。
所在位置 行:1 字符: 1
+ ~~~~~
+ python
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (python:String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException
PS C:\Users\CSSPeter> _
```

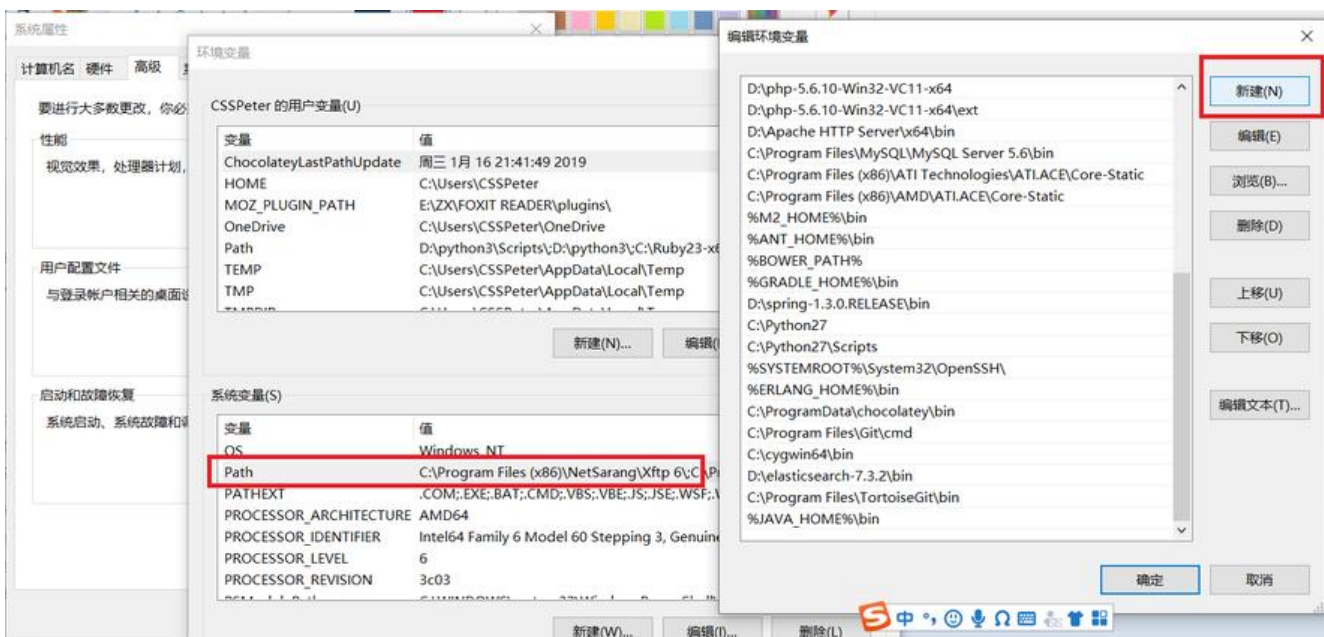
配置环境变量

选择“此电脑”右击，点击“属性”

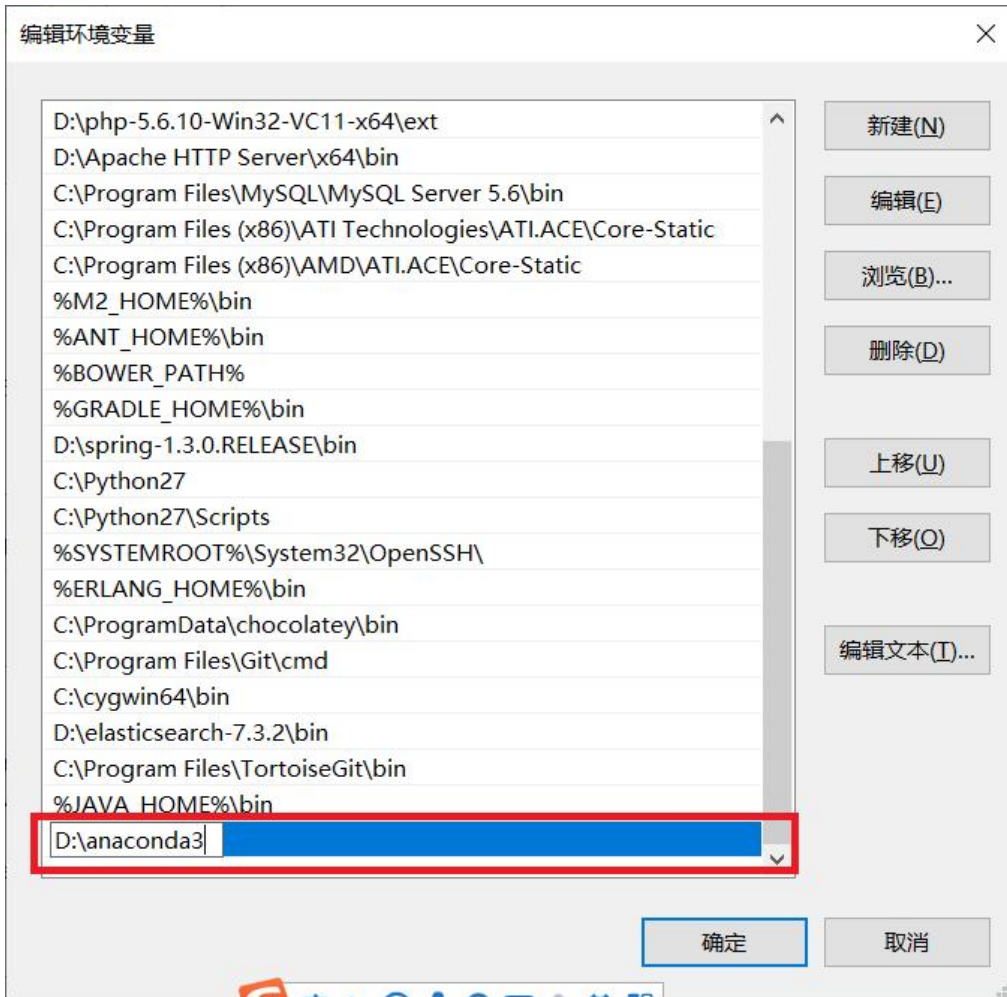




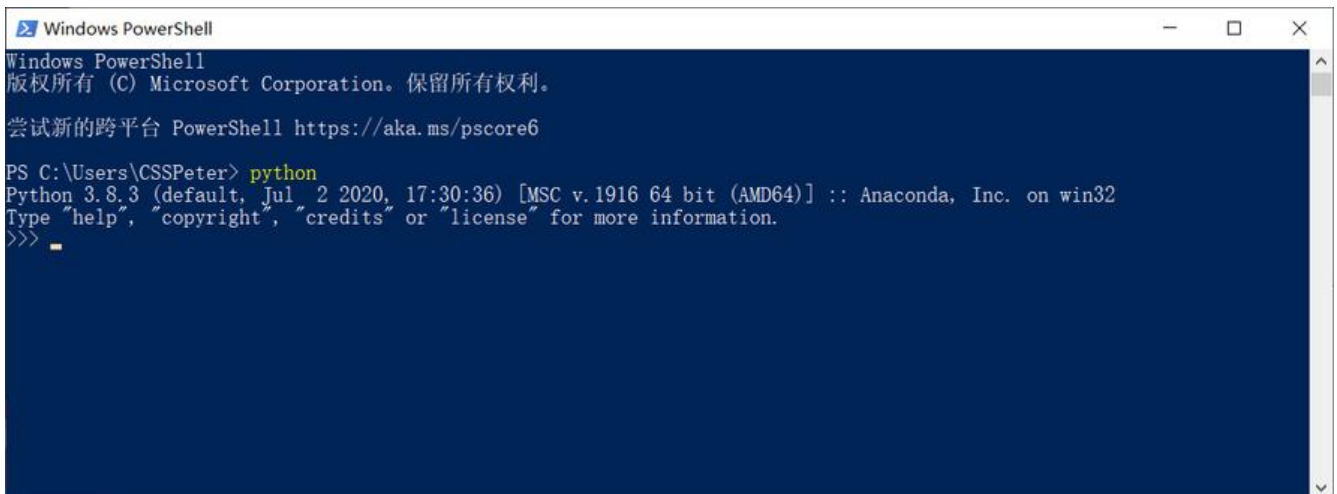
选择Path 编辑，然后新建一行



将anaconda的安装目录添加到新增记录中



重新打开powershell，再次输入python



Visual Studio Code

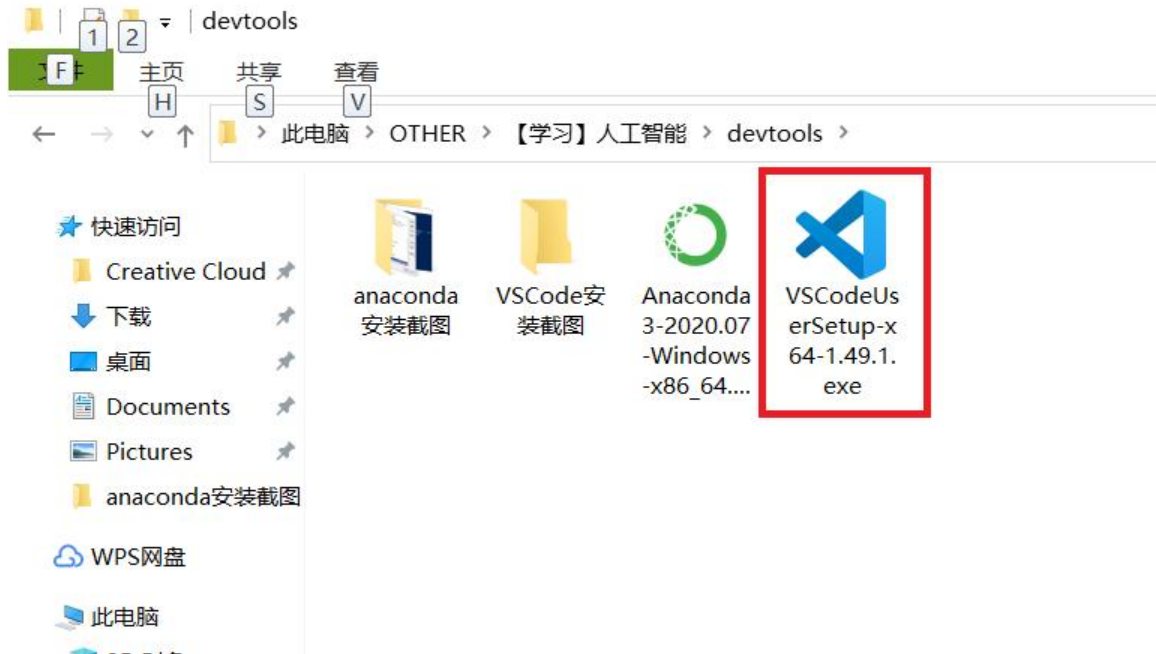
下载地址: <https://code.visualstudio.com/>

简单介绍

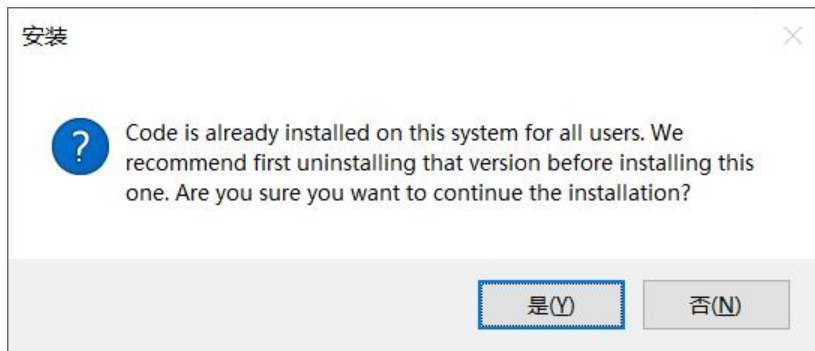
Visual Studio Code, 简称VSCode, 是微软在2015年4月30日Build 开发者大会上正式发布的项目。它是一个能够运行于 Mac OS X、Windows和 Linux 之上的, 针对于编写现代 Web 和云应用的

平台源代码编辑器，截止2019年9月，已经支持了如下37种语言或文件：F#、HandleBars、Markdown、Python、Java、PHP、Haxe、Ruby、Sass、Rust、PowerShell、Groovy、R、Makefile、HTML、JSON、TypeScript、Batch、Visual Basic、Swift、Less、SQL、XML、Lua、Go、C++、Ini、Razor、Clojure、C#、Objective-C、CSS、JavaScript、Perl、Coffee Script、Dockerfile。是一款非棒的代码编辑器。

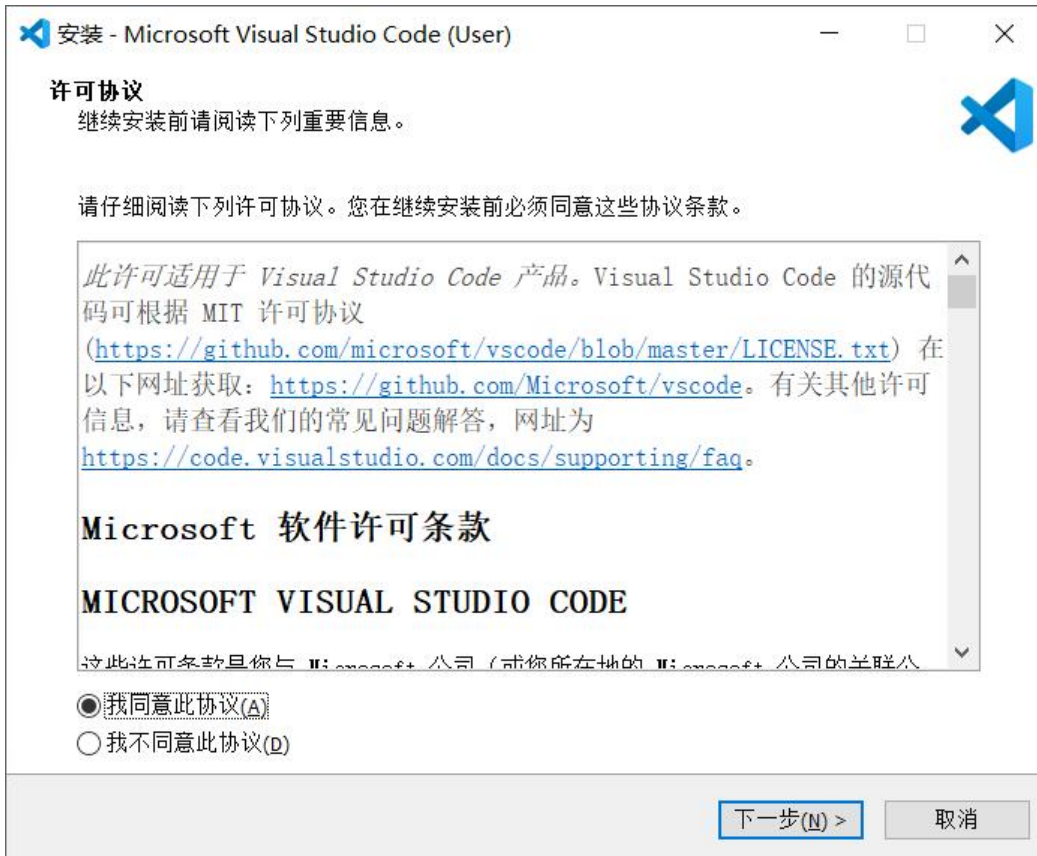
启动安装



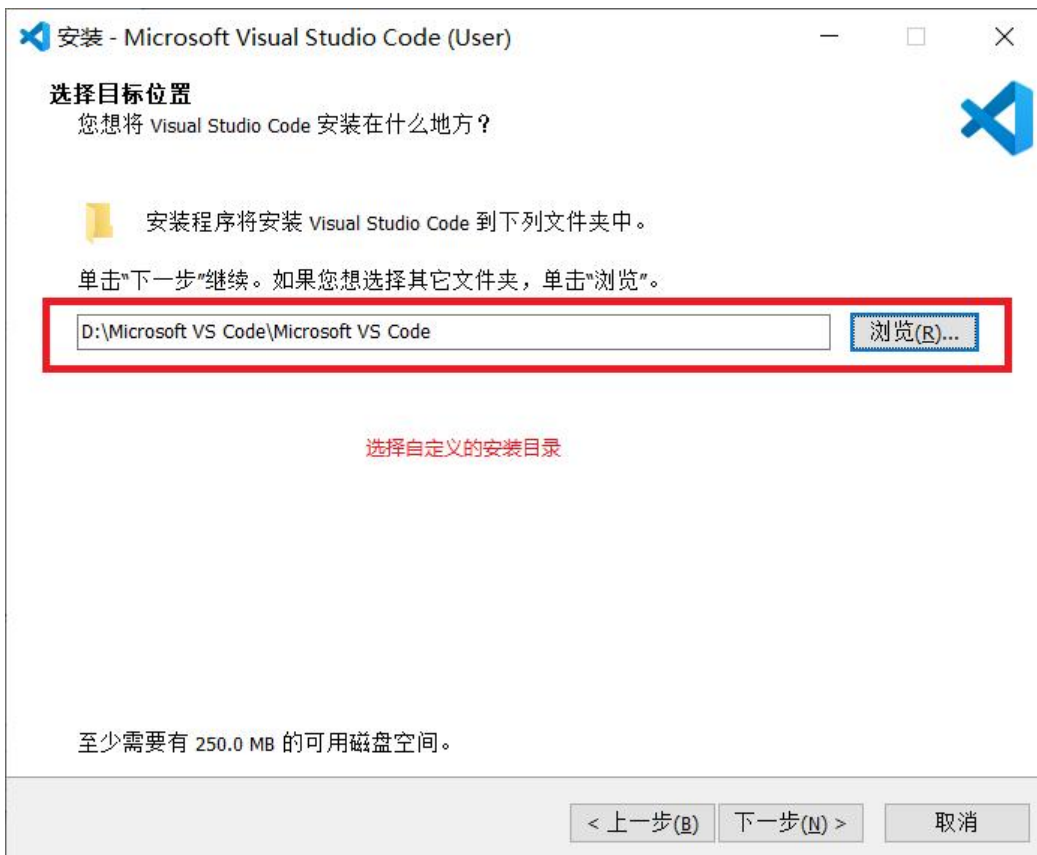
默认为所有用户进行安装



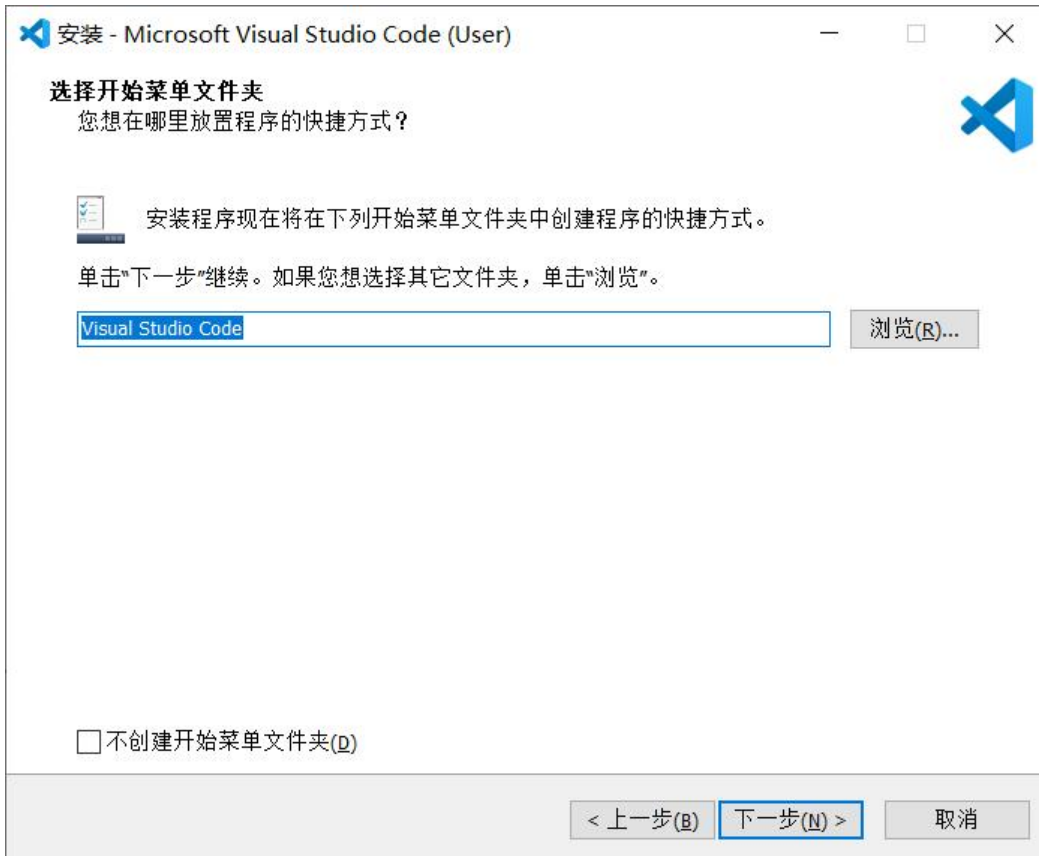
阅读协议并选择同意，然后点击下一步



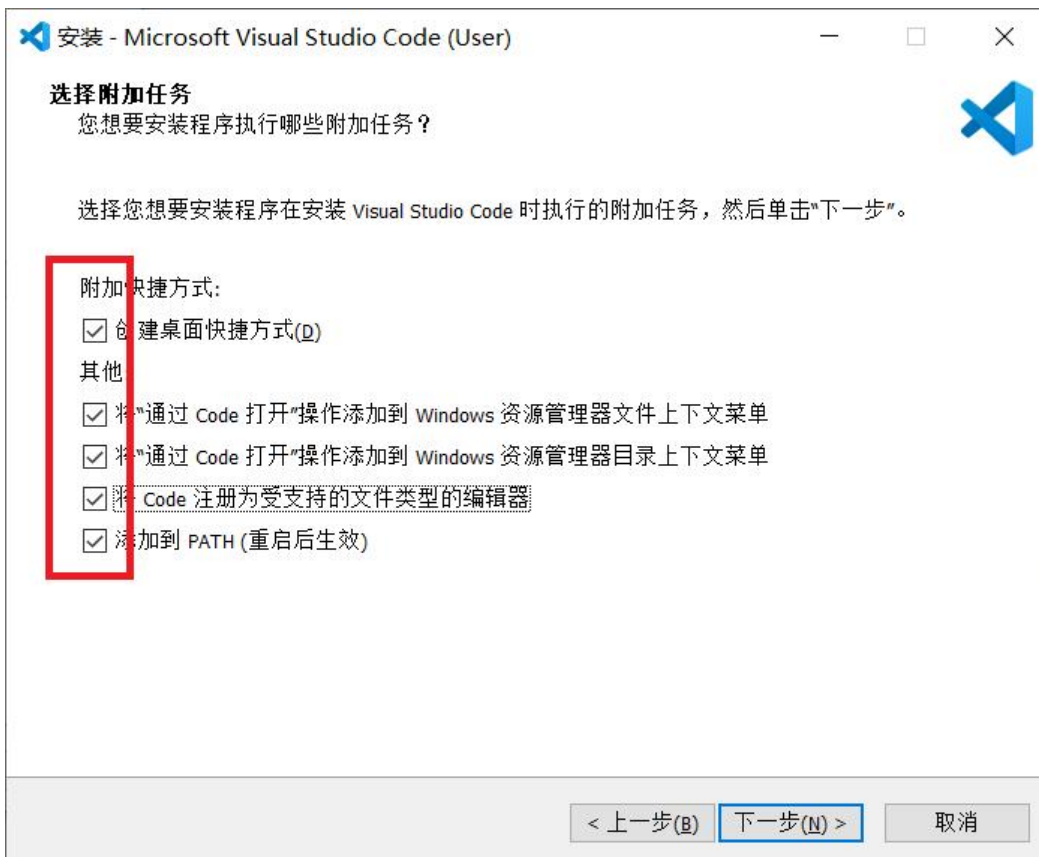
默认安装目录为C盘，不建议使用默认目录，选择自定义的安装目录进行安装



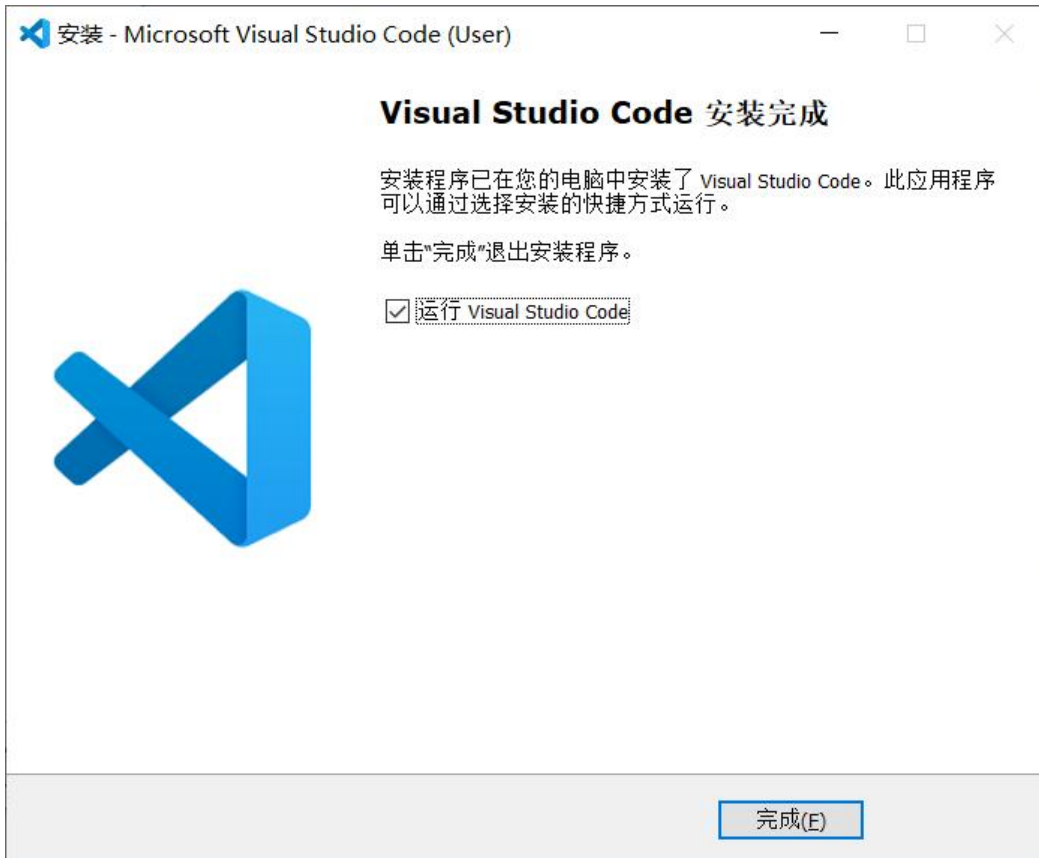
使用默认的开始菜单中的文件夹



勾选附加任务，虽然牺牲了桌面的简洁性，但是方便使用



选择下一步直到完成



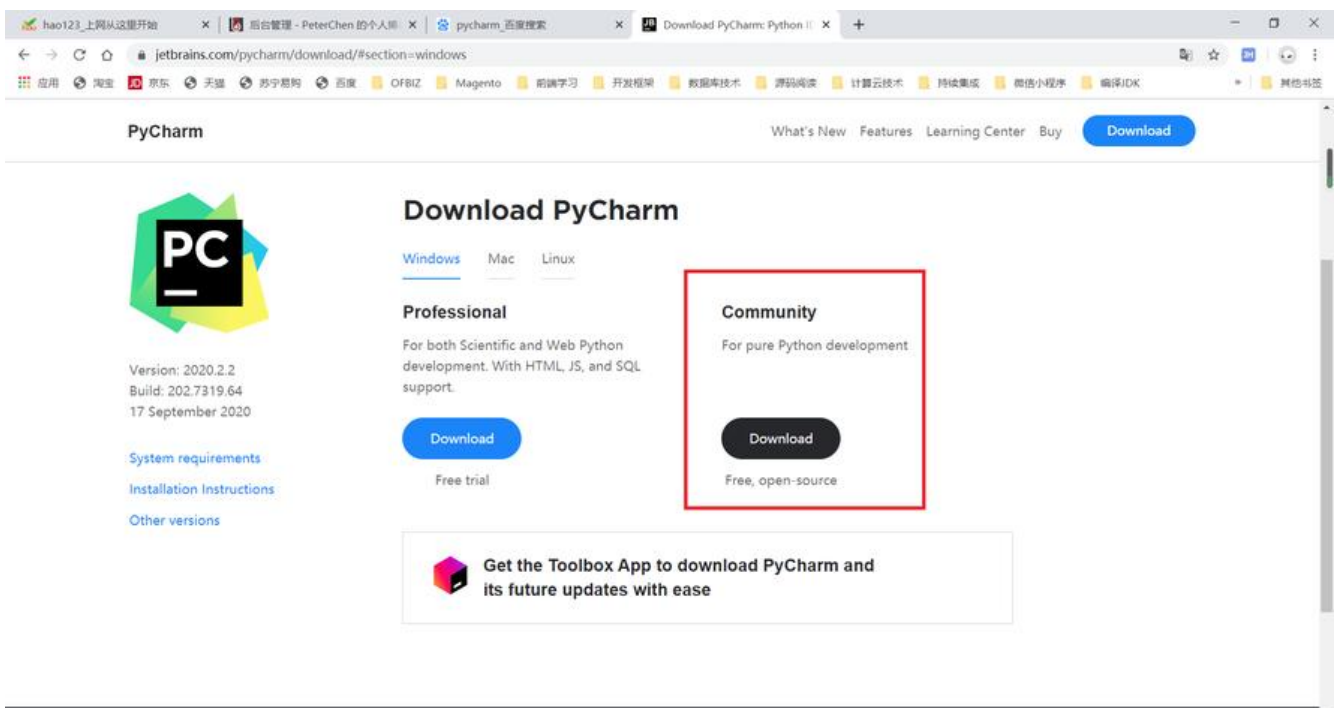
PyCharm

编辑器除了VSCode以外的另一个选择就是PyCharm，PyCharm是JetBrains的另一杰作，做过Java发的应该都使用过IDEAL，也同样是JetBrains的优秀产品之一。

下载软件

官网地址：<https://www.jetbrains.com/pycharm/download/#section=windows>

选择开源版本下载即可满足学习需求：

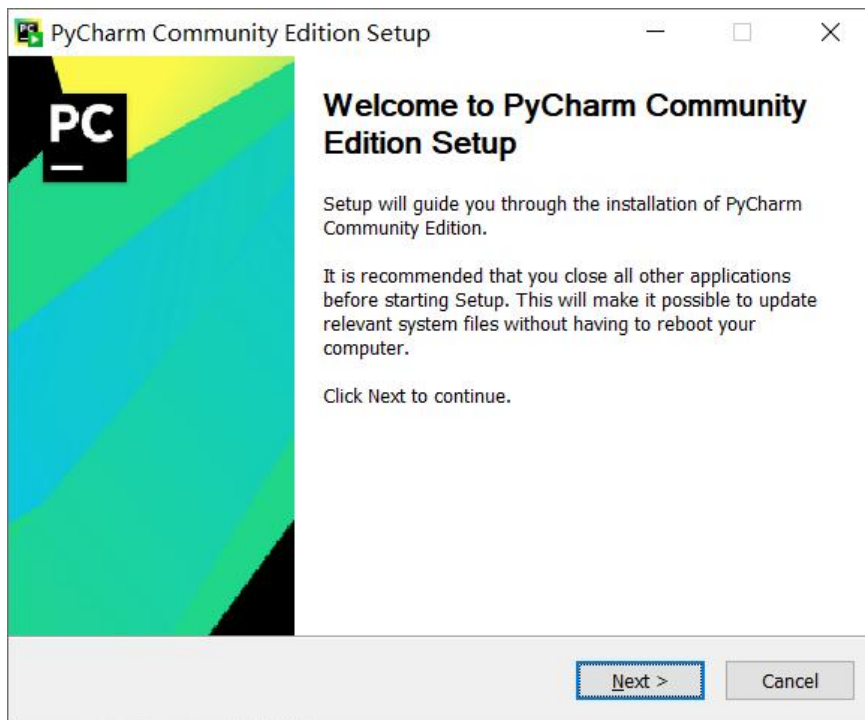


启动安装

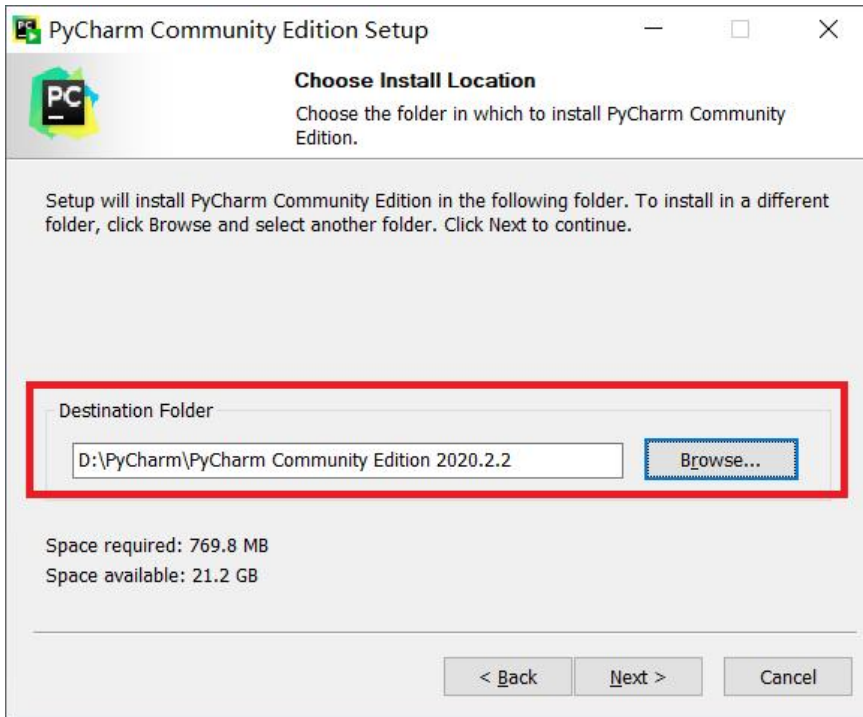
双击安装包，启动安装：



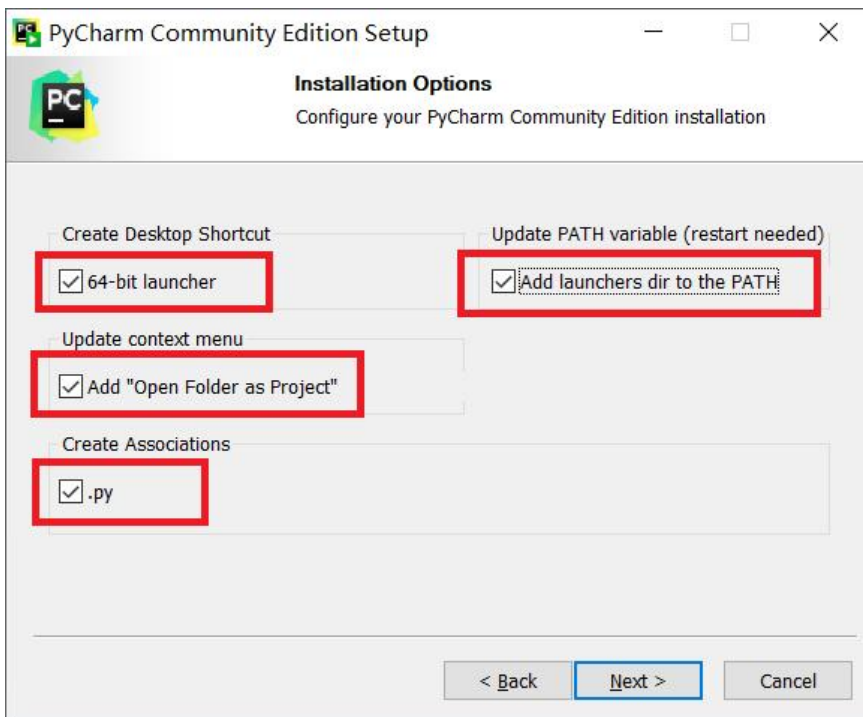
点击“NEXT”继续



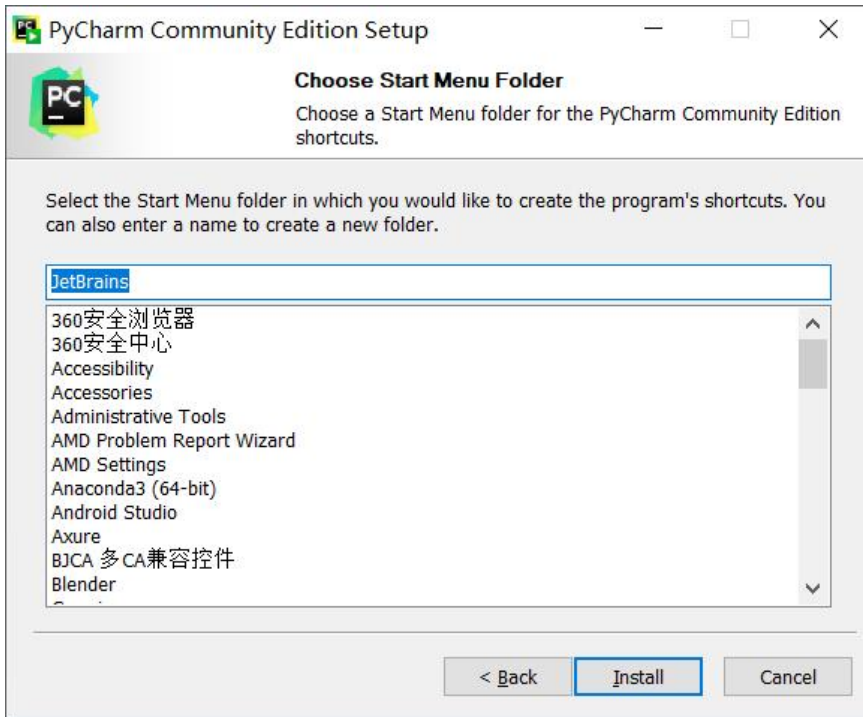
默认安装路径为C盘，不建议使用默认路径，自定义目录不要有中文、特殊字符和空格



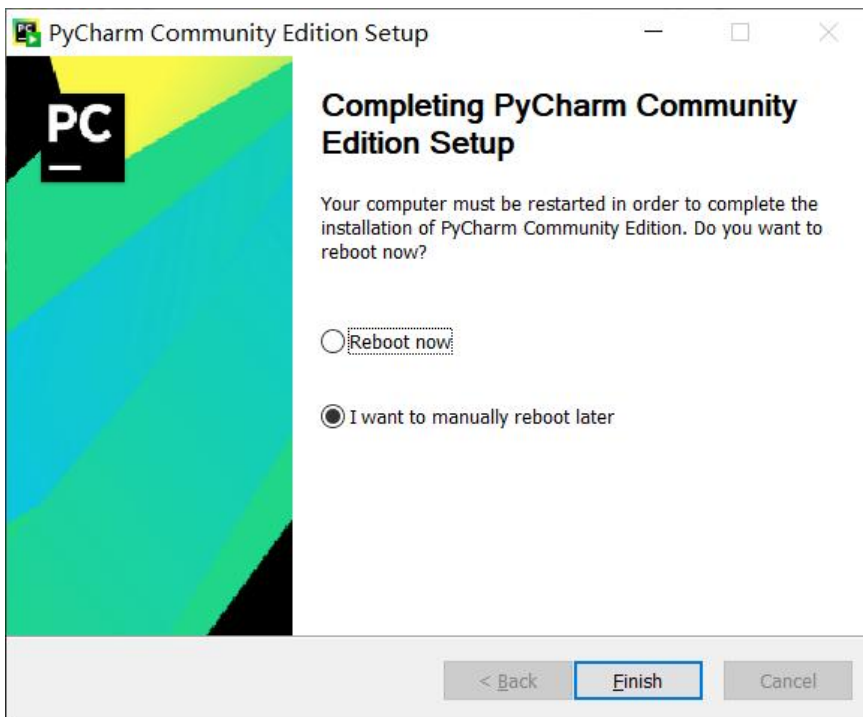
勾选所有选项，方便快捷使用PyCharm



选择默认菜单名

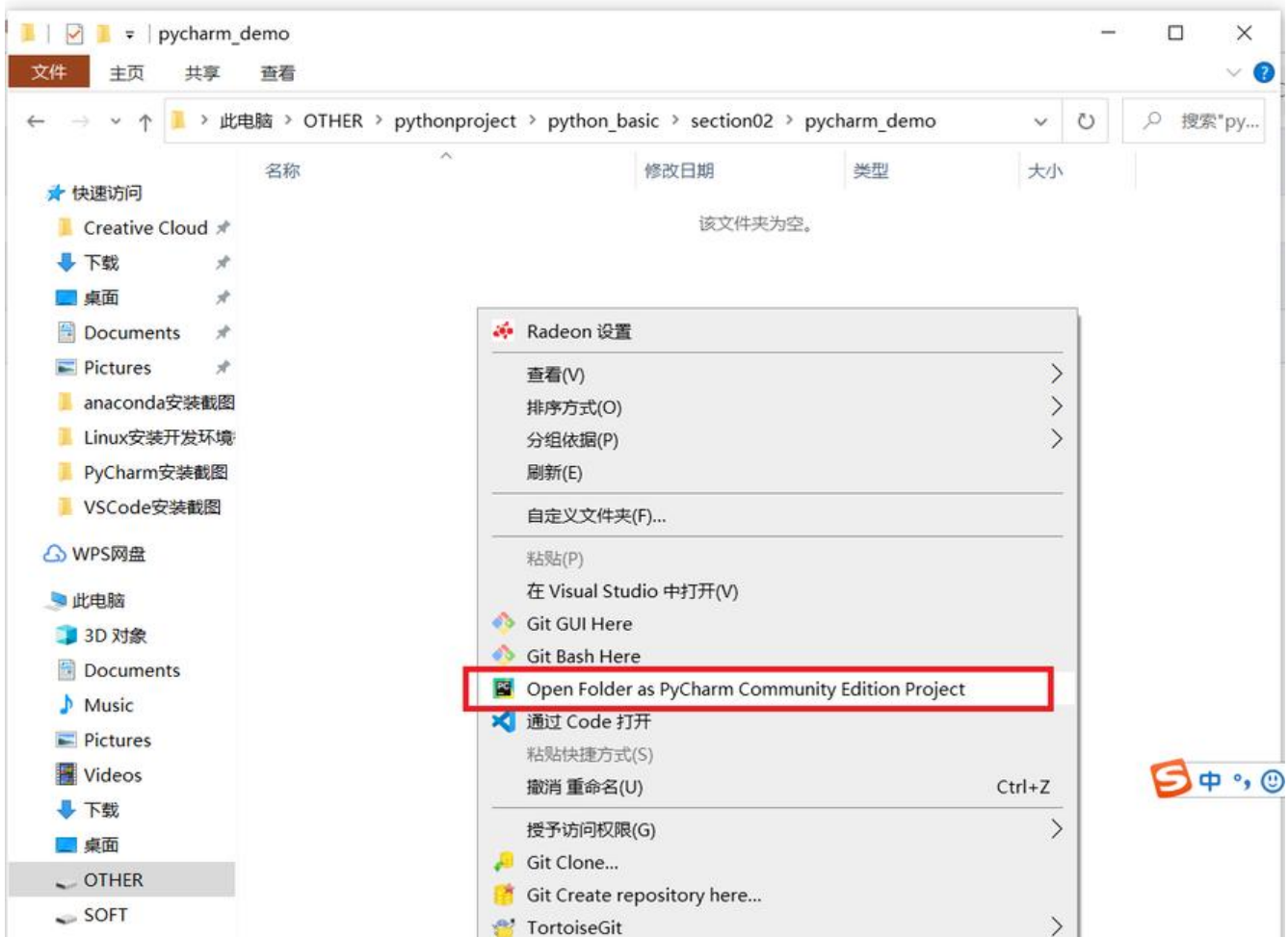


直到完成安装

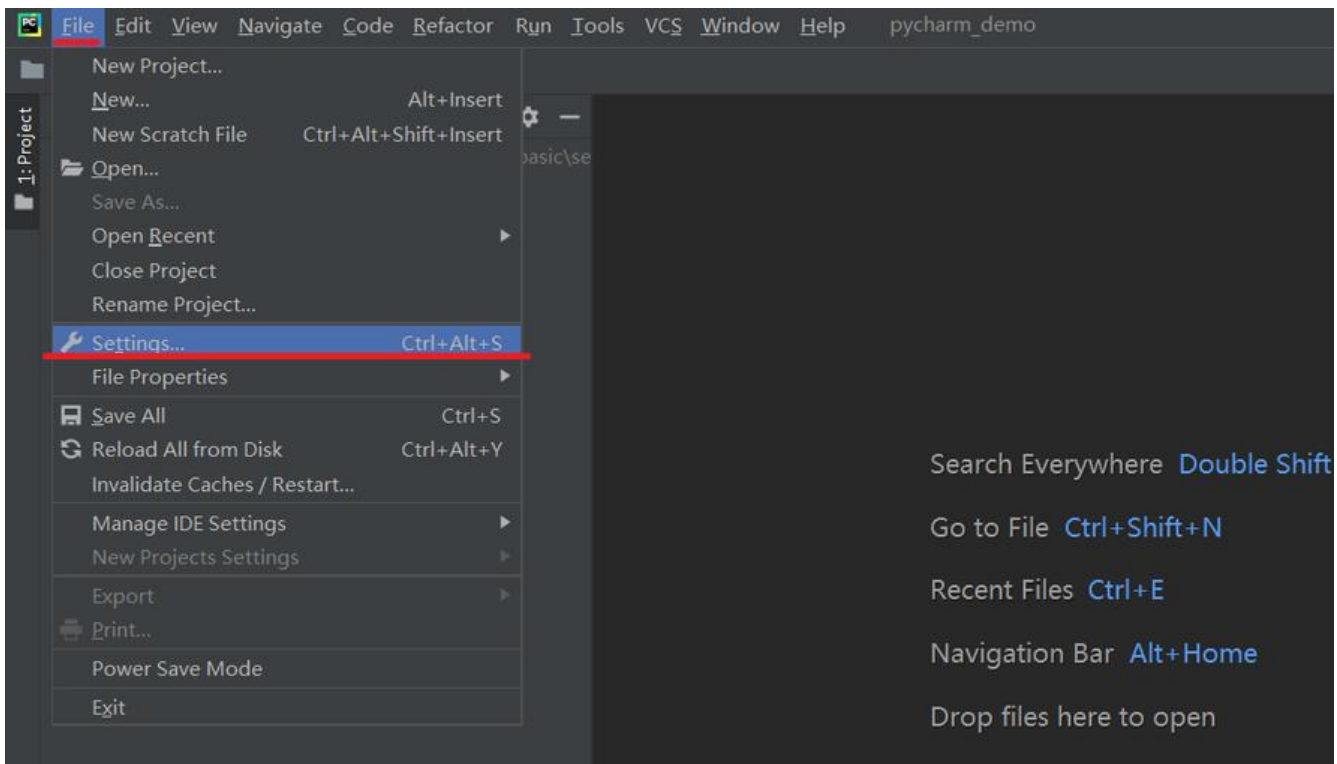


基本配置

新建一个空文件夹，右击（在上面Installation options时勾选了Open Folder ad project才能使用）：

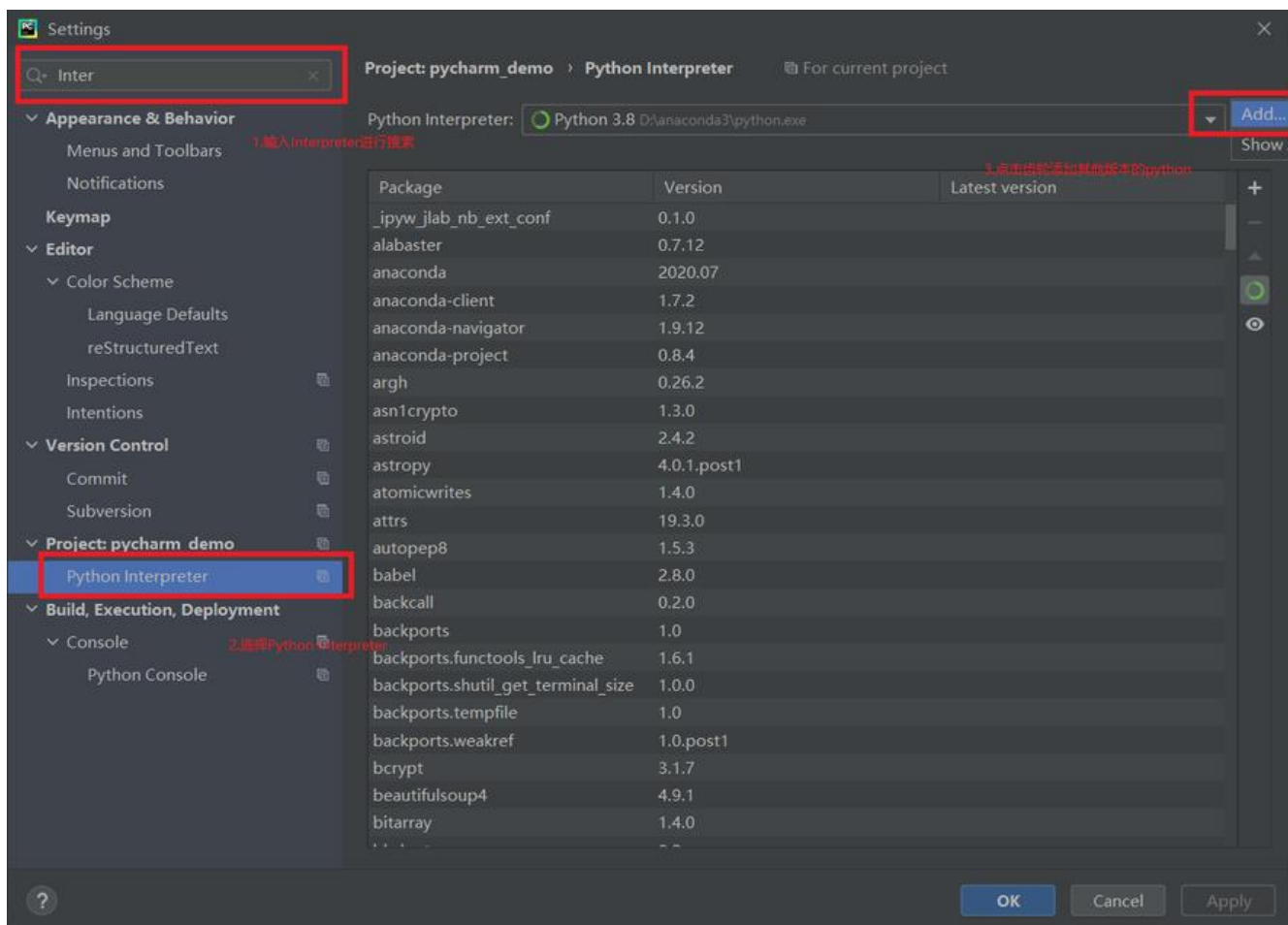


File --> Settings

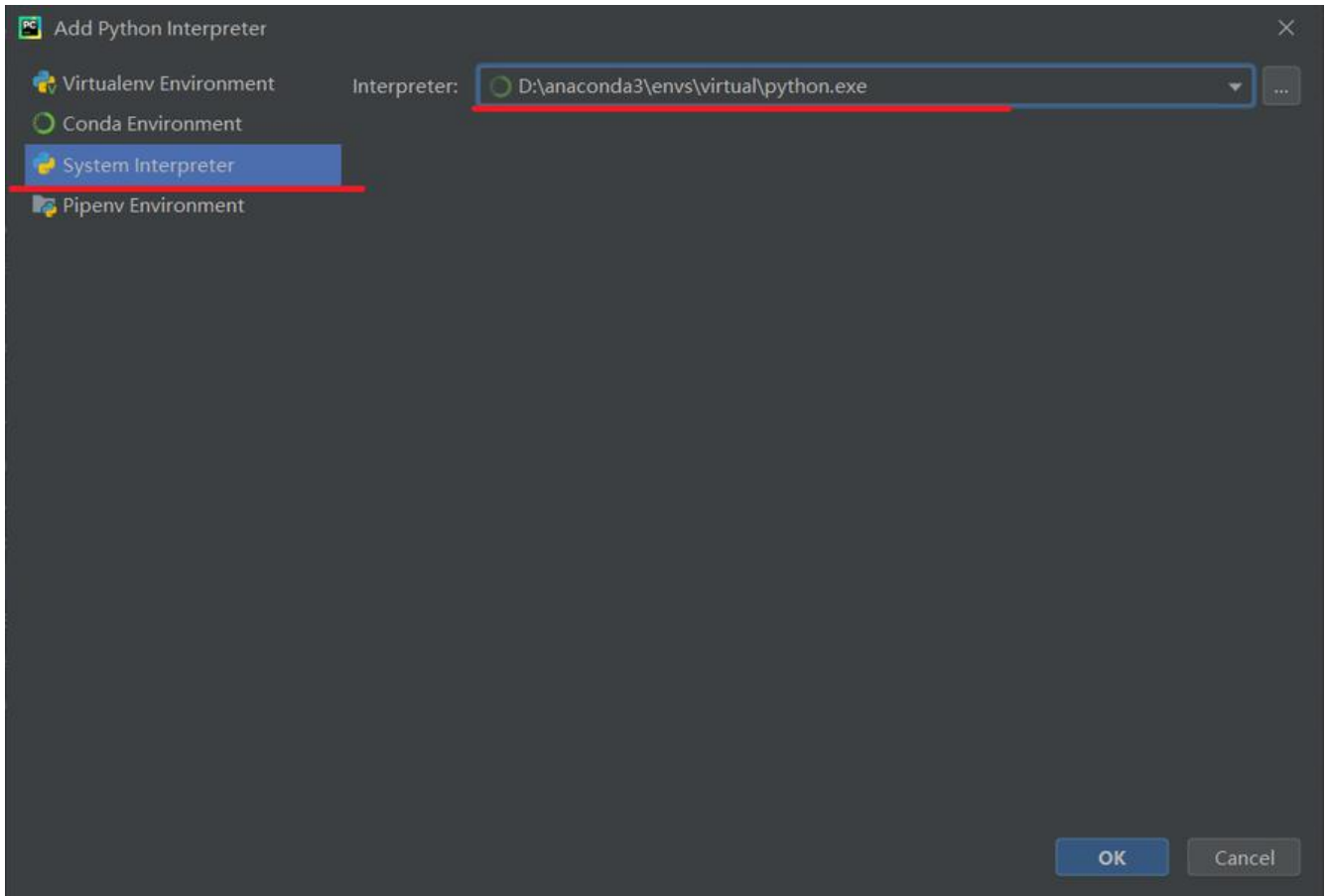


找到项目的Python Interpreter 添加一个3.7版本的python，文档编写时尚未有支持python 3.8版本

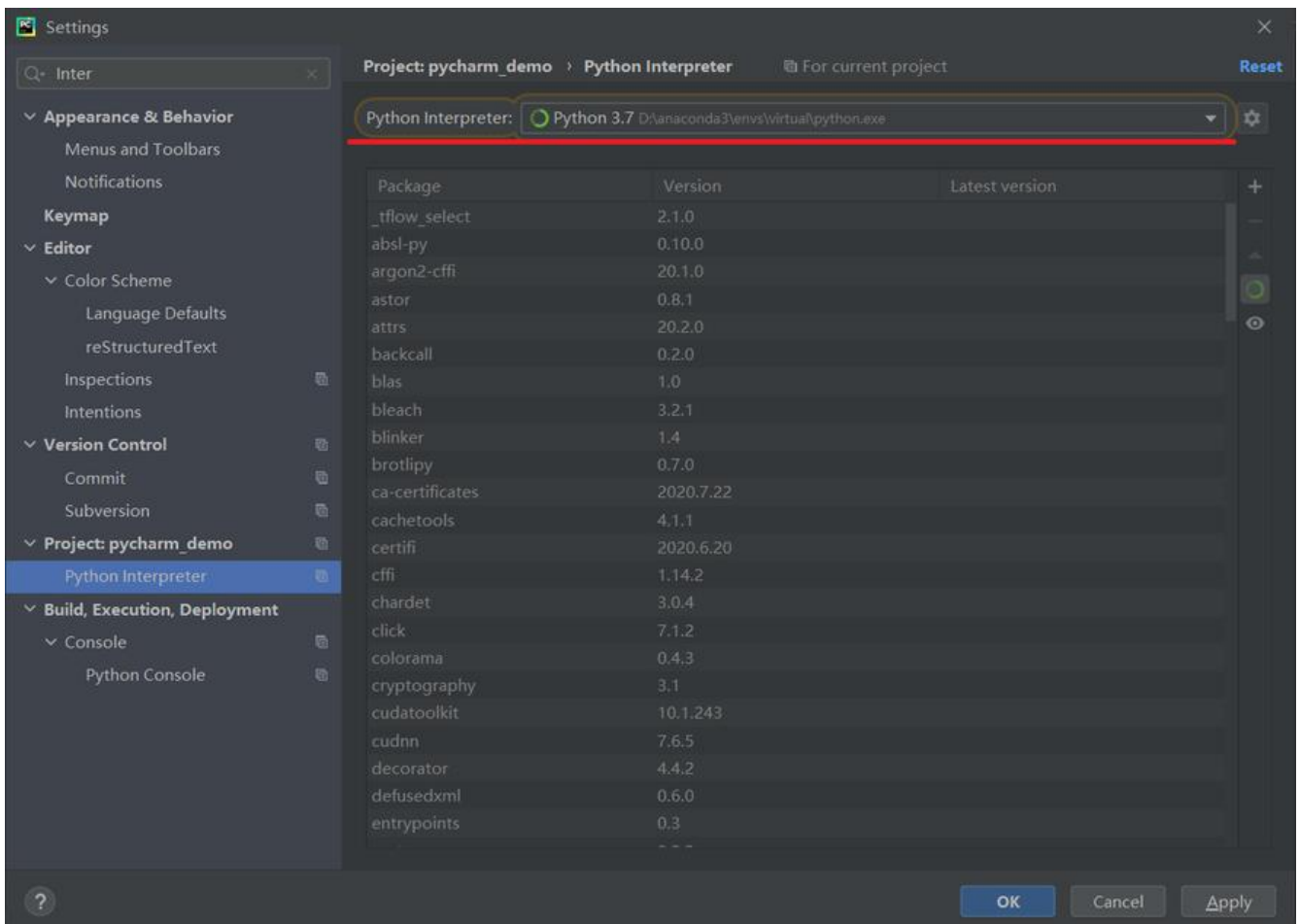
tensorflow, 所以先添加一个python 3.7的环境:



选择System Interpreter 然后找到您安装的python 3.7版本的执行程序, 点击“OK”即可



返回上一层页面，将新添加的python 3.7应用到当前项目



在项目开发过程中可以通过以下方式快速切换python 版本：

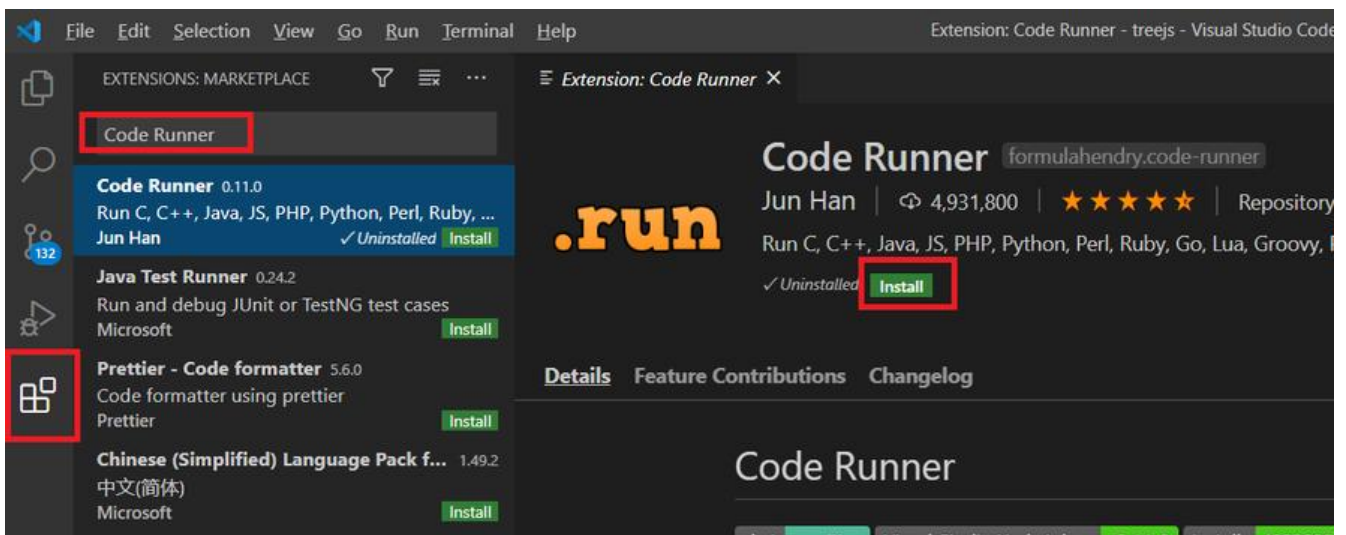
在项目的右下角点击当前python版本：



VSCode插件

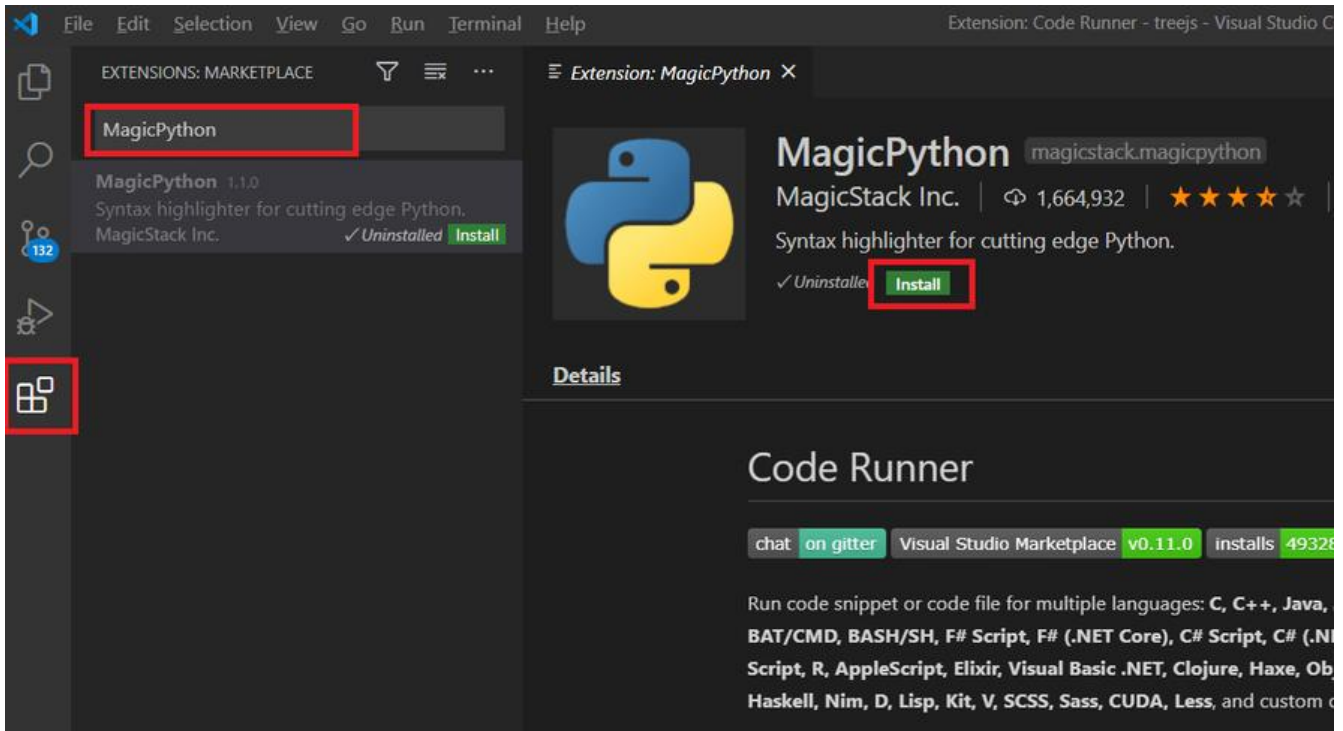
Code Runner

在插件面板的搜索栏输入，Code Runner，然后选中它进行安装



安装MagicPython

使用与Code Runner一样的方法，找到MagicPython并进行安装



安装机器学习相关python库

tensorflow

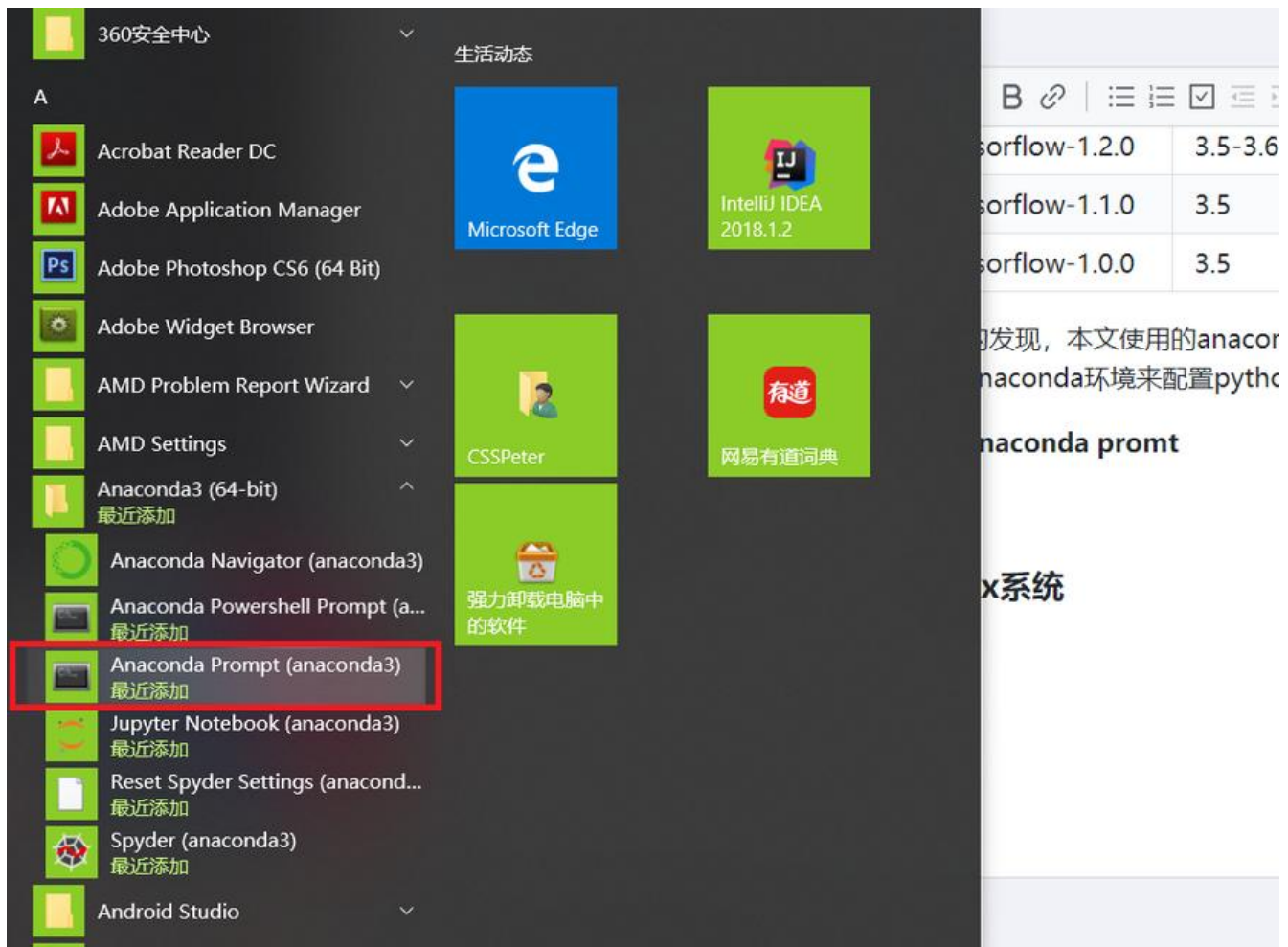
不同的python版本对应的tensorflow版本不一样，对照表如下：

版本 建工具	Python 版本	编译器
tensorflow-2.0.0 azel 0.26.1	3.5-3.7	MSVC 2017
tensorflow-1.14.0 azel 0.24.1-0.25.2	3.5-3.7	MSVC 2017
tensorflow-1.13.0 azel 0.19.0-0.21.0	3.5-3.7	MSVC 2015 update 3
tensorflow-1.12.0 azel 0.15.0	3.5-3.6	MSVC 2015 update 3
tensorflow-1.11.0 azel 0.15.0	3.5-3.6	MSVC 2015 update 3
tensorflow-1.10.0 make v3.6.3	3.5-3.6	MSVC 2015 update 3
tensorflow-1.9.0 make v3.6.3	3.5-3.6	MSVC 2015 update 3
tensorflow-1.8.0 make v3.6.3	3.5-3.6	MSVC 2015 update 3
tensorflow-1.7.0 make v3.6.3	3.5-3.6	MSVC 2015 update 3
tensorflow-1.6.0	3.5-3.6	MSVC 2015 update 3

make v3.6.3		
tensorflow-1.5.0	3.5-3.6	MSVC 2015 update 3
make v3.6.3		
tensorflow-1.4.0	3.5-3.6	MSVC 2015 update 3
make v3.6.3		
tensorflow-1.3.0	3.5-3.6	MSVC 2015 update 3
make v3.6.3		
tensorflow-1.2.0	3.5-3.6	MSVC 2015 update 3
make v3.6.3		
tensorflow-1.1.0	3.5	MSVC 2015 update 3
make v3.6.3		
tensorflow-1.0.0	3.5	MSVC 2015 update 3
make v3.6.3		

尴尬的发现，本文使用的anaconda 默认安装的是python 3.8.3 找不到对应的tensorflow版本，只好建一个新的anaconda环境来配置python 3.7

打开anaconda prompt



输入以下命令

```
conda create -n virtual python=3.7
```

```
Anaconda Powershell Prompt (anaconda3)
(base) PS C:\Users\CSSPeter> conda create -n virtual python=3.7
Collecting package metadata (current_repodata.json): done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
current version: 4.8.3
latest version: 4.8.4

Please update conda by running

  $ conda update -n base -c defaults conda

## Package Plan ##

environment location: D:\anaconda3\envs\virtual

added / updated specs:
- python=3.7

The following packages will be downloaded:

  package                                     build
-----
ca-certificates-2020.7.22                   0      125 KB  https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/main
certifi-2020.6.20                            py37_0 156 KB  https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/main
```

输入 y 确认安装

```
Anaconda Powershell Prompt (anaconda3)
n
zlib-1.2.11                                  h62ded97_4      113 KB  https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/main
n
-----
Total: 24.2 MB

The following NEW packages will be INSTALLED:

ca-certificates  anaconda/pkgs/main/win-64::ca-certificates-2020.7.22-0
certifi          anaconda/pkgs/main/win-64::certifi-2020.6.20-py37_0
openssl         anaconda/pkgs/main/win-64::openssl-1.1.1g-he774522_1
pip             anaconda/pkgs/main/win-64::pip-20.2.2-py37_0
python         anaconda/pkgs/main/win-64::python-3.7.9-h60c2a47_0
setuptools      anaconda/pkgs/main/win-64::setuptools-49.6.0-py37_0
sqlite         anaconda/pkgs/main/win-64::sqlite-3.33.0-h2a8f88b_0
vc             anaconda/pkgs/main/win-64::vc-14.1-h0510ff6_4
vs2015_runtime anaconda/pkgs/main/win-64::vs2015_runtime-14.16.27012-hf0eaf9b_3
wheel          anaconda/pkgs/main/noarch::wheel-0.35.1-py_0
wincertstore   anaconda/pkgs/main/win-64::wincertstore-0.2-py37_0
zlib           anaconda/pkgs/main/win-64::zlib-1.2.11-h62ded97_4

Proceed ([y]/n)? y

Downloading and Extracting Packages
openssl-1.1.1g | 4.8 MB | 0%
```

安装成功


```
Anaconda Powershell Prompt (anaconda3)
done
##
## To activate this environment, use
##
## $ conda activate virtual
##
## To deactivate an active environment, use
##
## $ conda deactivate
(base) PS C:\Users\CSSPeter>
```

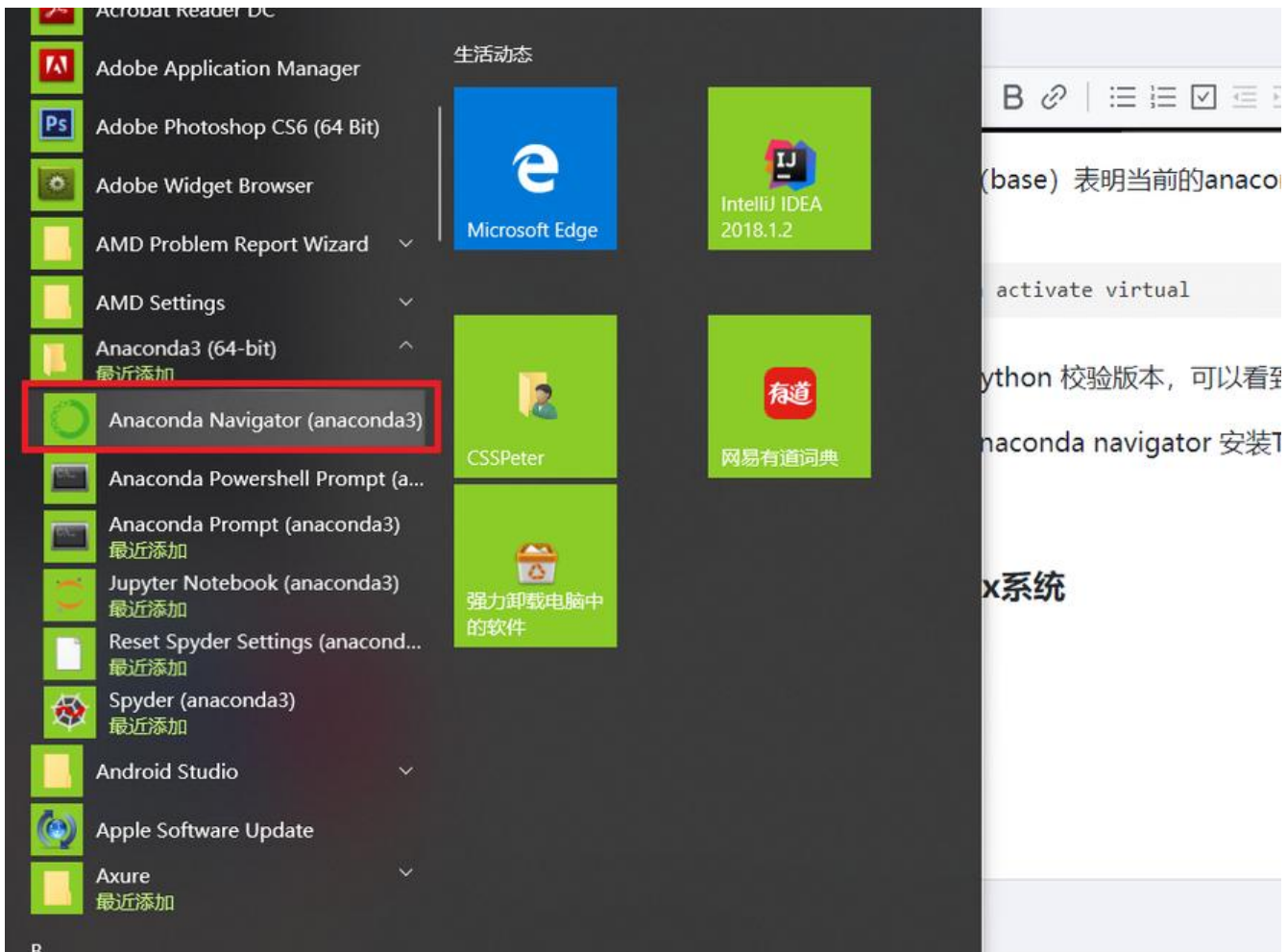
此时 (base) 表明当前的anaconda环境为默认的基础环境，我们需要激活刚刚新建的，使用如下命令
`conda activate virtual`

```
Anaconda Powershell Prompt (anaconda3)
done
##
## To activate this environment, use
##
## $ conda activate virtual
##
## To deactivate an active environment, use
##
## $ conda deactivate
(base) PS C:\Users\CSSPeter> activate virtual
(base) PS C:\Users\CSSPeter> conda activate virtual
(virtual) PS C:\Users\CSSPeter>
```

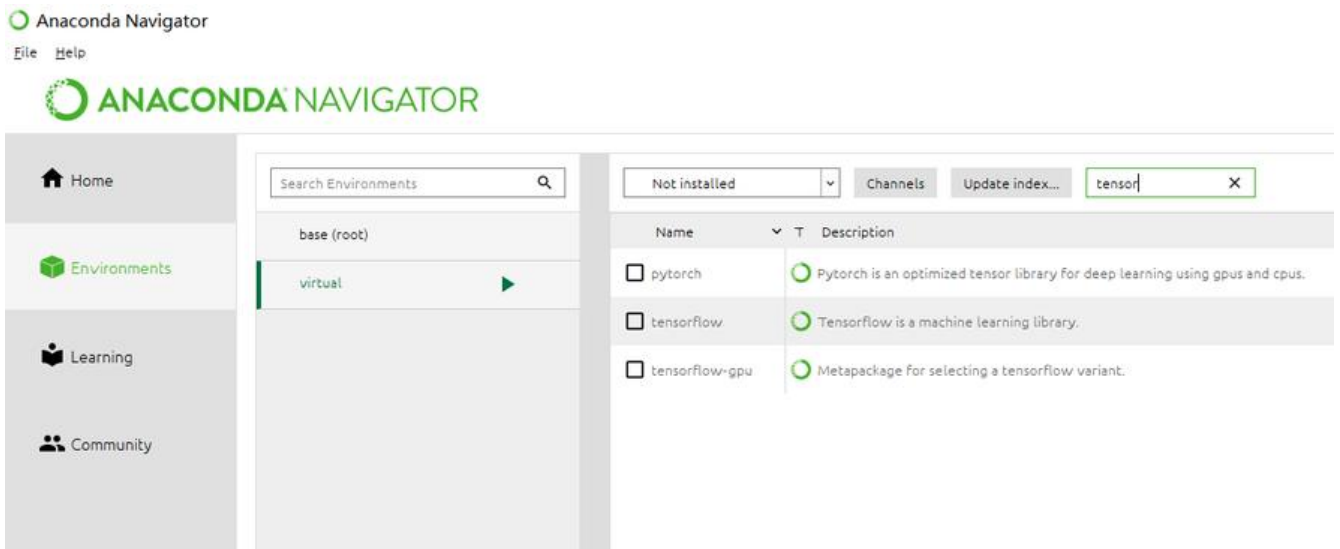
输入python 校验版本，可以看到python版本已变为 python 3.7.9

```
Anaconda Powershell Prompt (anaconda3)
##
## $ conda activate virtual
##
## To deactivate an active environment, use
##
## $ conda deactivate
(base) PS C:\Users\CSSPeter> activate virtual
(base) PS C:\Users\CSSPeter> conda activate virtual
(virtual) PS C:\Users\CSSPeter> python
Python 3.7.9 (default, Aug 31 2020, 17:10:11) [MSC v.1916 64 bit (AMD
64)] :: Anaconda, Inc. on win32
Type "help", "copyright", "credits" or "license" for more information
.>>>
```

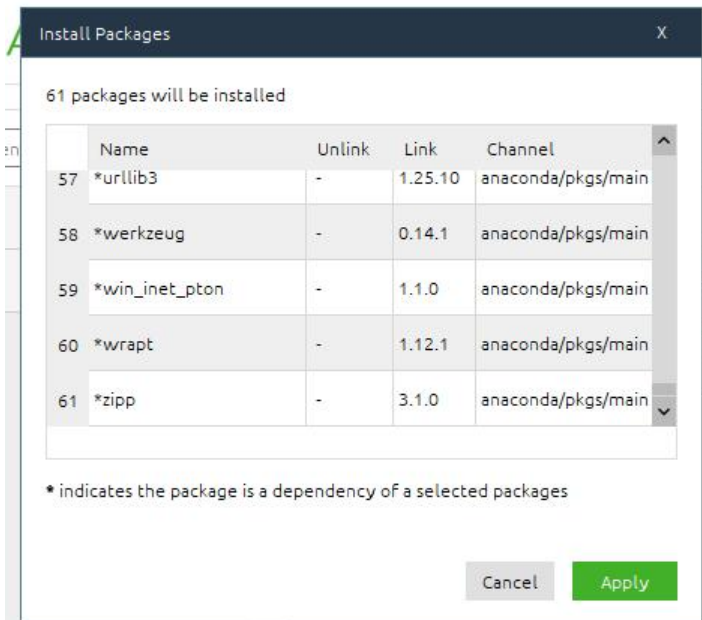
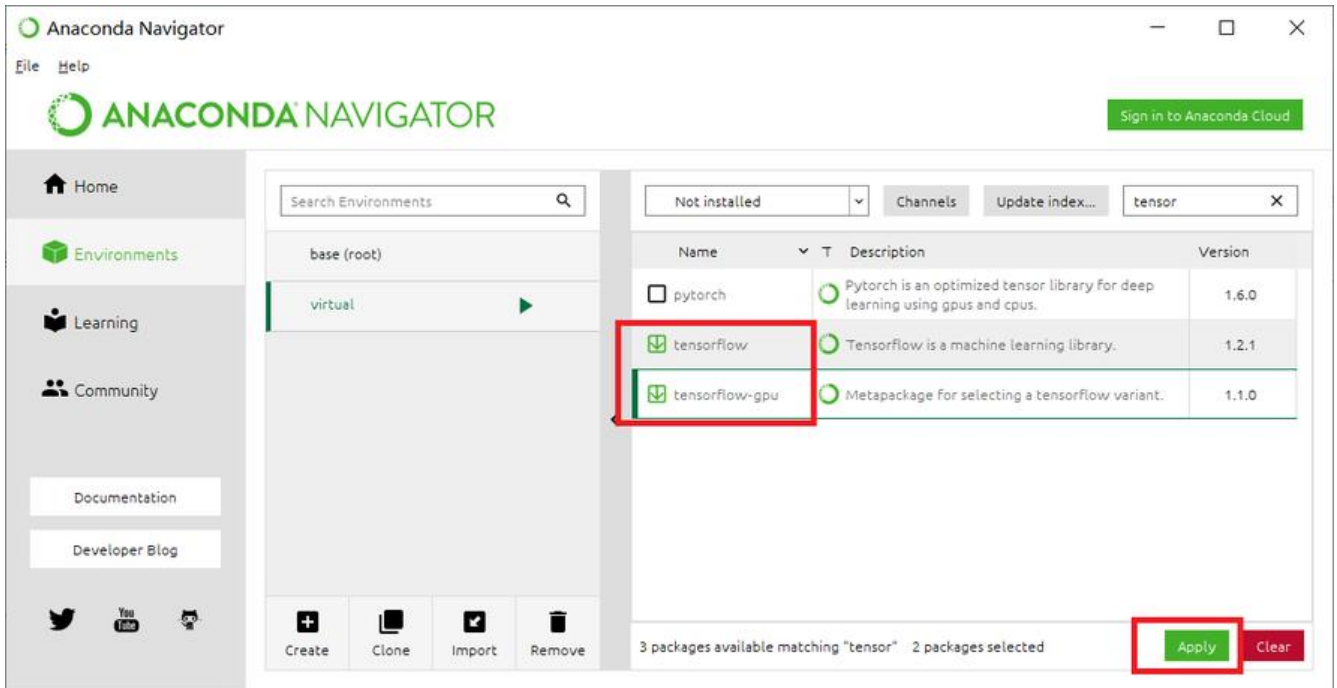
打开anaconda navigator 安装TensorFlow:



选择“Environments”选择刚刚创建的虚拟环境 virtual，搜索tensorflow:



勾选tensorflow和tensorflow-gpu，并点击“apply”进行应用:



Jupyter notebook

命令方式启动Jupyter notebook

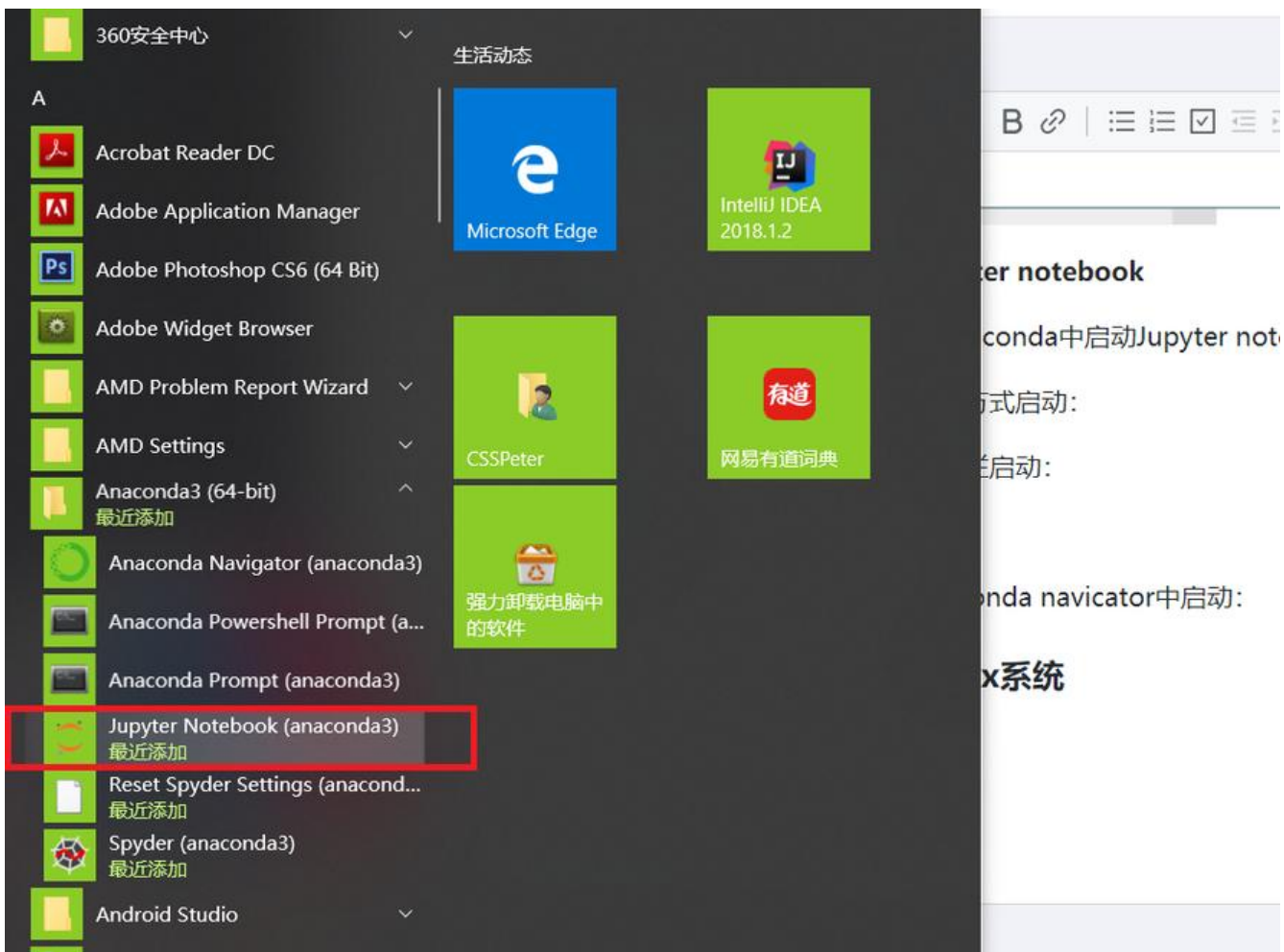
打开anaconda prompt, 输入以下命令:

```
jupyter notebook
```

```
Anaconda Prompt (anaconda3) - jupyter notebook
(base) C:\Users\CSSPeter>jupyter notebook
[I 18:49:57.239 NotebookApp] The port 8888 is already in use, trying another port.
[I 18:49:58.282 NotebookApp] JupyterLab extension loaded from D:\anaconda3\lib\site-packages\jupyterlab
[I 18:49:58.282 NotebookApp] JupyterLab application directory is D:\anaconda3\share\jupyter\lab
[I 18:49:58.285 NotebookApp] Serving notebooks from local directory: C:\Users\CSSPeter
[I 18:49:58.285 NotebookApp] The Jupyter Notebook is running at:
[I 18:49:58.285 NotebookApp] http://localhost:8889/?token=dbdc7e667b481a51d0868f2df6a5163f66069f412ceda103
[I 18:49:58.285 NotebookApp] or http://127.0.0.1:8889/?token=dbdc7e667b481a51d0868f2df6a5163f66069f412ceda103
[I 18:49:58.285 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 18:49:58.830 NotebookApp]

To access the notebook, open this file in a browser:
file:///C:/Users/CSSPeter/AppData/Roaming/jupyter/runtime/nbserver-13492-open.html
Or copy and paste one of these URLs:
http://localhost:8889/?token=dbdc7e667b481a51d0868f2df6a5163f66069f412ceda103
or http://127.0.0.1:8889/?token=dbdc7e667b481a51d0868f2df6a5163f66069f412ceda103
```

菜单栏启动Jupyter notebook

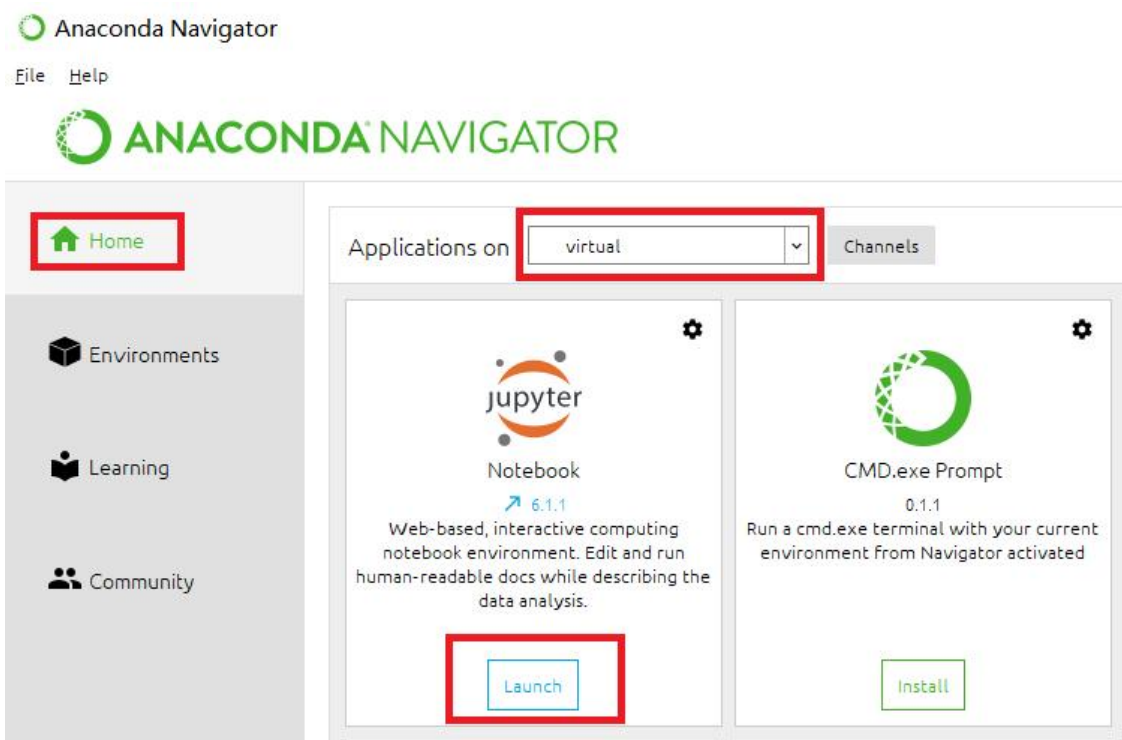


启动成功后

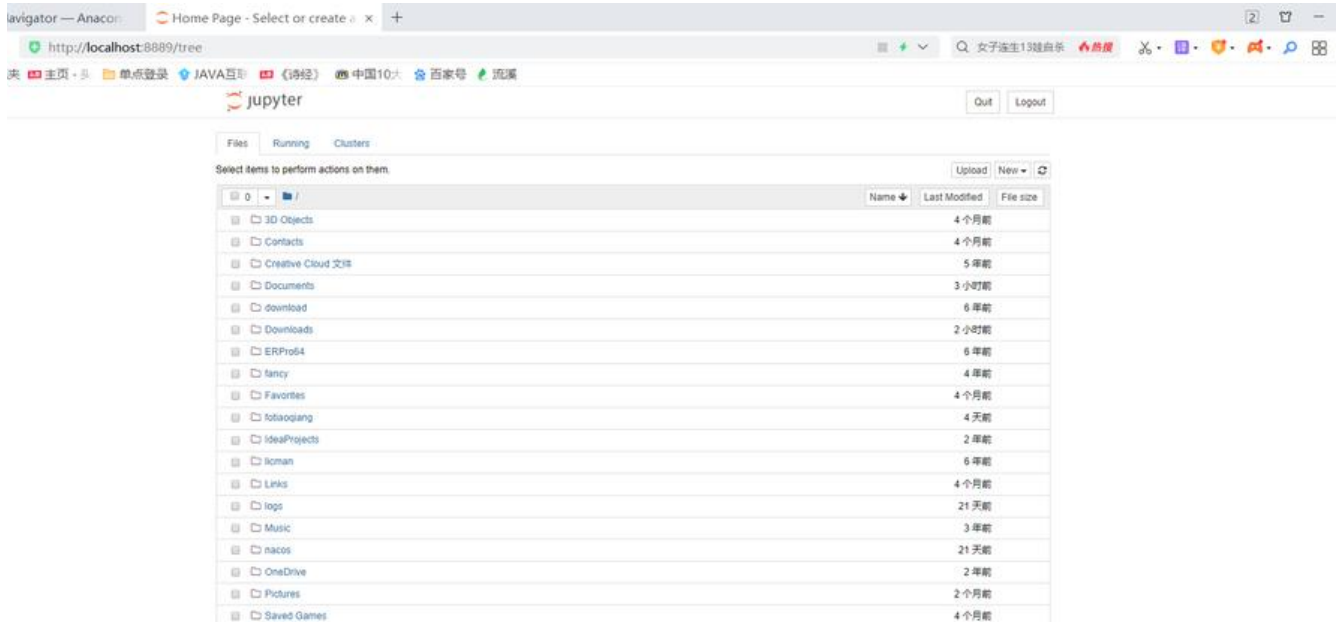
```
Jupyter Notebook (anaconda3)
[I 18:44:07.707 NotebookApp] The port 8888 is already in use, trying another port.
[I 18:44:08.122 NotebookApp] JupyterLab extension loaded from D:\anaconda3\lib\site-packages\jupyterlab
[I 18:44:08.123 NotebookApp] JupyterLab application directory is D:\anaconda3\share\jupyter\lab
[I 18:44:08.126 NotebookApp] Serving notebooks from local directory: C:\Users\CSSPeter
[I 18:44:08.126 NotebookApp] The Jupyter Notebook is running at:
[I 18:44:08.126 NotebookApp] http://localhost:8889/?token=726d3e341d82e35fc8ef58cbe83498267fdbe760c627cc37
[I 18:44:08.126 NotebookApp] or http://127.0.0.1:8889/?token=726d3e341d82e35fc8ef58cbe83498267fdbe760c627cc37
[I 18:44:08.126 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 18:44:08.643 NotebookApp]

To access the notebook, open this file in a browser:
file:///C:/Users/CSSPeter/AppData/Roaming/jupyter/runtime/nbserver-7156-open.html
Or copy and paste one of these URLs:
http://localhost:8889/?token=726d3e341d82e35fc8ef58cbe83498267fdbe760c627cc37
or http://127.0.0.1:8889/?token=726d3e341d82e35fc8ef58cbe83498267fdbe760c627cc37
```

anaconda navigator中启动Jupyter notebook



浏览器访问: <http://localhost:8889/tree>, 不同环境端口可能不一样, 默认是8888, 具体以实际输入为准



Linux系统

系统配置

项目	配置	说明
虚拟机	VMware 15.X	
操作系统	CentOS 8.1	
内存	8G	
处理器	4核	
硬盘	60G	
位长	64位	

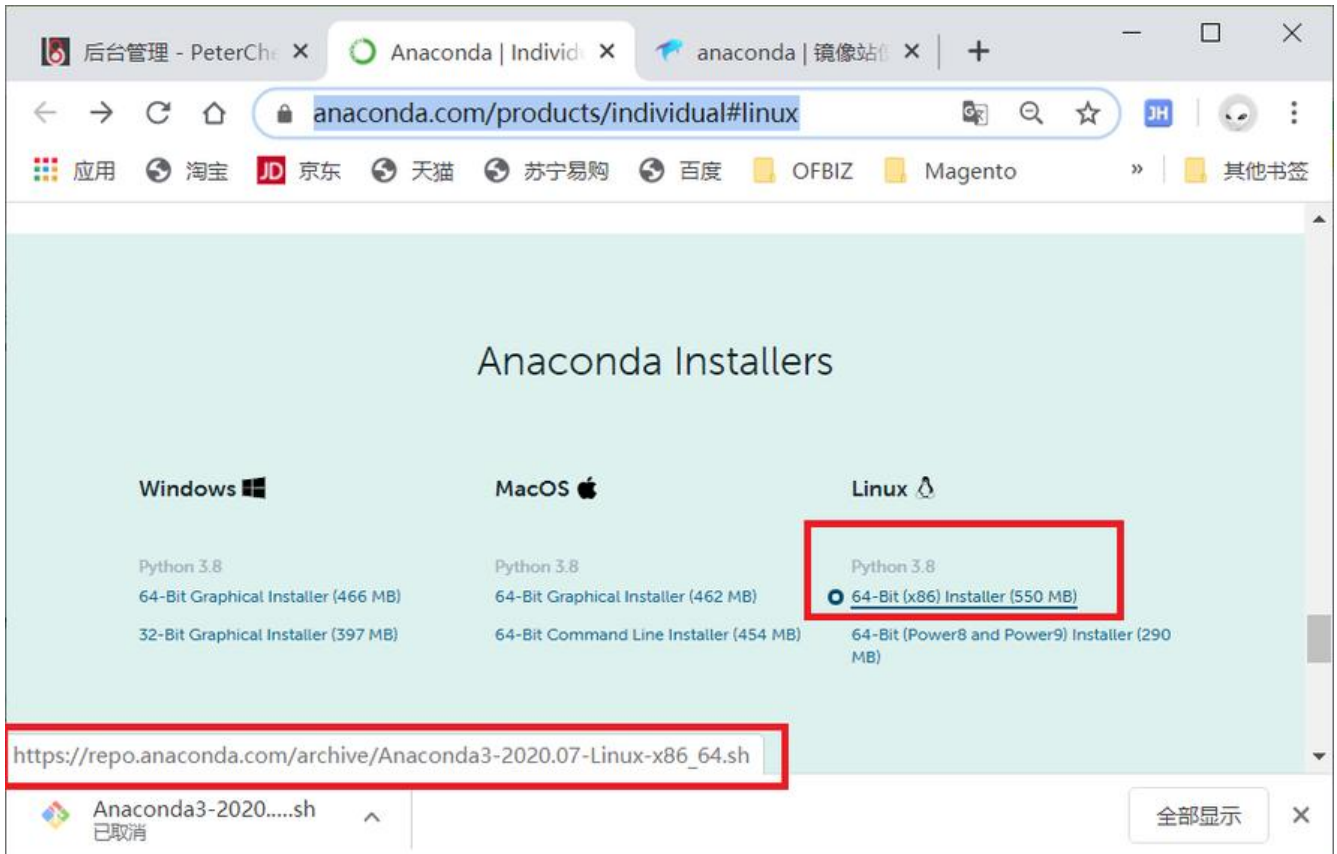
软件安装

Anaconda

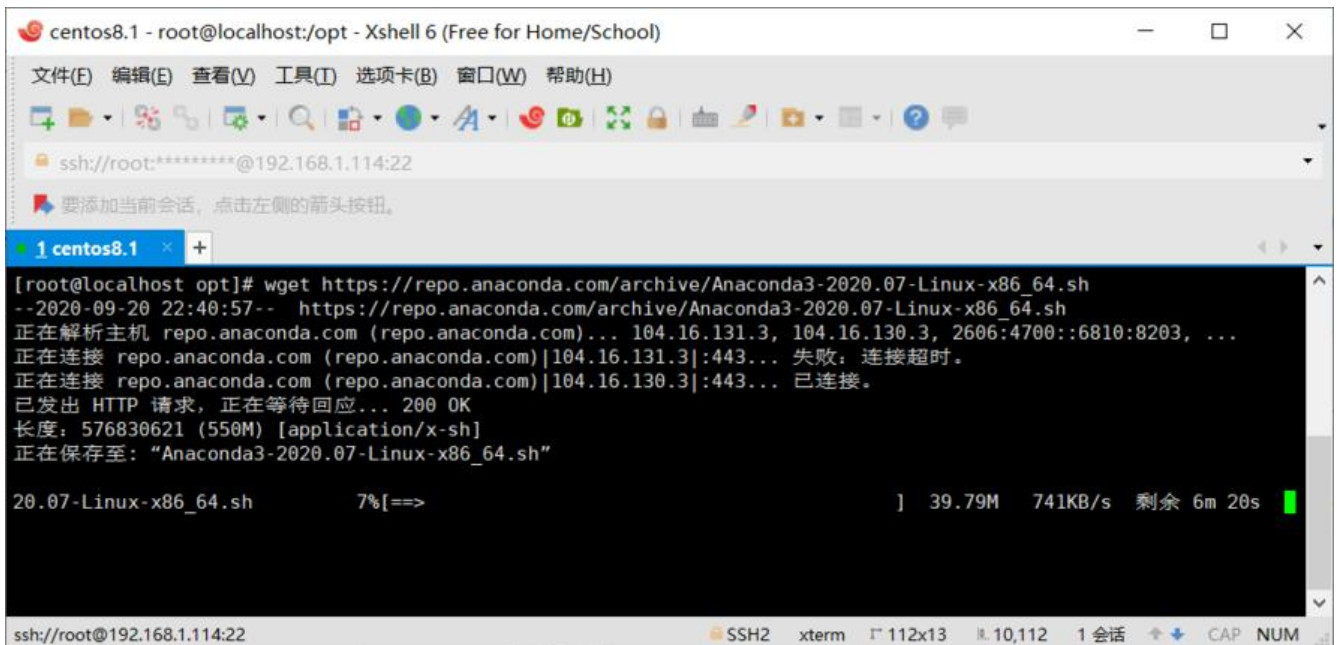
下载anaconda的安装脚本

下载页面: <https://www.anaconda.com/products/individual#linux>

找到Linux安装版本, 复制其连接, 然后在linux系统使用wget进行下载:



wget https://repo.anaconda.com/archive/Anaconda3-2020.07-Linux-x86_64.sh



如果官网下载太慢请转移到清华大学镜像地址进行下载:

<https://mirrors.tuna.tsinghua.edu.cn/anaconda/archive/>

```
centos8.1 - root@localhost:/opt - Xshell 6 (Free for Home/School)
文件(E) 编辑(E) 查看(V) 工具(I) 选项卡(B) 窗口(W) 帮助(H)
ssh://root:*****@192.168.1.114:22
要添加当前会话，点击左侧的箭头按钮。
1 centos8.1 x +
[root@localhost opt]# wget https://mirrors.tuna.tsinghua.edu.cn/anaconda/archive/Anaconda3-2020.07-Linux-x86_64.sh
--2020-09-20 23:13:49-- https://mirrors.tuna.tsinghua.edu.cn/anaconda/archive/Anaconda3-2020.07-Linux-x86_64.sh
正在解析主机 mirrors.tuna.tsinghua.edu.cn (mirrors.tuna.tsinghua.edu.cn)... 101.6.8.193
正在连接 mirrors.tuna.tsinghua.edu.cn (mirrors.tuna.tsinghua.edu.cn)|101.6.8.193|:443... 已连接。
已发出 HTTP 请求，正在等待回应... 200 OK
长度: 576830621 (550M) [application/octet-stream]
正在保存至: "Anaconda3-2020.07-Linux-x86_64.sh"

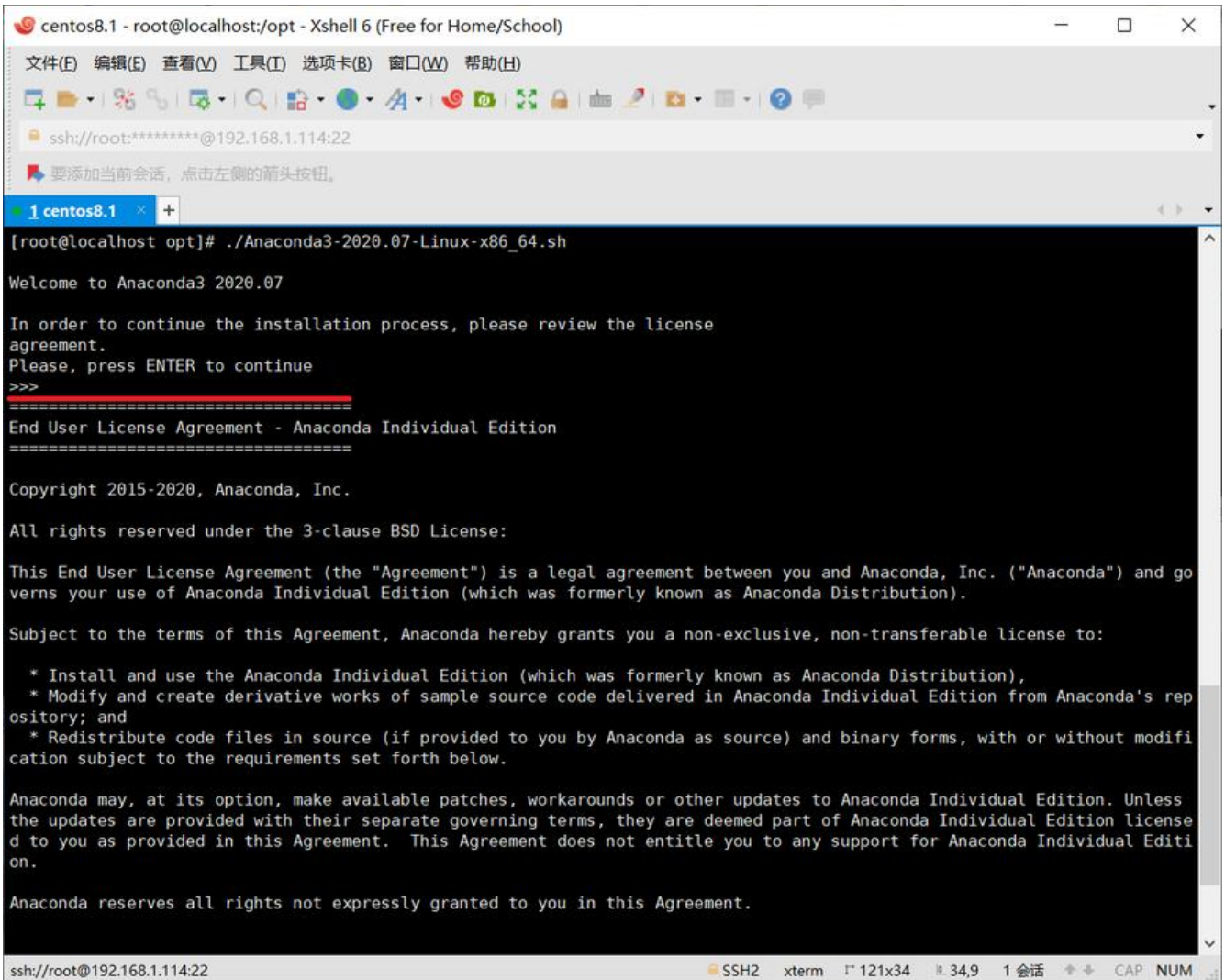
Anaconda3-2020.07-Linux-x86_64 5%[=>] 32.32M 4.20MB/s 剩余 2m 15s
ssh://root@192.168.1.114:22 SSH2 xterm 121x12 9,121 1会话 CAP NUM
```

启动安装

```
## 修改脚本的权限使其能够执行
chmod 755 Anaconda3-2020.07-Linux-x86_64.sh
## 启动安装
./Anaconda3-2020.07-Linux-x86_64.sh
```

```
centos8.1 - root@localhost:/opt - Xshell 6 (Free for Home/School)
文件(E) 编辑(E) 查看(V) 工具(I) 选项卡(B) 窗口(W) 帮助(H)
ssh://root:*****@192.168.1.114:22
要添加当前会话，点击左侧的箭头按钮。
1 centos8.1 x +
[root@localhost opt]# ll
总用量 563312
-rw-r--r--. 1 root root 576830621 7月 24 02:25 Anaconda3-2020.07-Linux-x86_64.sh
drwxr-xr-x. 6 root root 99 4月 11 22:03 apache-maven-3.6.3
drwxr-xr-x. 8 root root 152 4月 6 00:45 clion
drwxr-xr-x. 9 root root 69 3月 29 16:26 cproject
drwxr-xr-x. 10 peterchen peterchen 166 3月 22 21:46 elasticsearch-7.3.2
drwxrwxr-x. 8 peterchen peterchen 191 4月 5 23:29 idea
drwxr-xr-x. 9 root root 107 3月 18 2020 jdk-13.0.2
drwxr-xr-x. 5 root root 139 8月 28 13:51 jeecg-boot-master
drwxr-xr-x. 7 root root 96 8月 30 15:05 nacos
drwxr-xr-x. 9 peterchen peterchen 163 4月 11 21:37 nexus-3.13.0-01
drwxr-xr-x. 6 1001 1001 108 8月 27 21:04 node-v14.9.0-linux-x64
drwxr-xr-x. 8 peterchen peterchen 195 4月 6 22:04 openjdk14
drwxr-xr-x. 3 root root 19 8月 30 14:58 Repositories
drwxr-xr-x. 3 peterchen peterchen 20 4月 11 21:37 sonatype-work
[root@localhost opt]# chmod 755 Anaconda3-2020.07-Linux-x86_64.sh
[root@localhost opt]# ll
总用量 563312
-rwxr-xr-x. 1 root root 576830621 7月 24 02:25 Anaconda3-2020.07-Linux-x86_64.sh
drwxr-xr-x. 6 root root 99 4月 11 22:03 apache-maven-3.6.3
drwxr-xr-x. 8 root root 152 4月 6 00:45 clion
drwxr-xr-x. 9 root root 69 3月 29 16:26 cproject
drwxr-xr-x. 10 peterchen peterchen 166 3月 22 21:46 elasticsearch-7.3.2
drwxrwxr-x. 8 peterchen peterchen 191 4月 5 23:29 idea
drwxr-xr-x. 9 root root 107 3月 18 2020 jdk-13.0.2
drwxr-xr-x. 5 root root 139 8月 28 13:51 jeecg-boot-master
drwxr-xr-x. 7 root root 96 8月 30 15:05 nacos
drwxr-xr-x. 9 peterchen peterchen 163 4月 11 21:37 nexus-3.13.0-01
drwxr-xr-x. 6 1001 1001 108 8月 27 21:04 node-v14.9.0-linux-x64
drwxr-xr-x. 8 peterchen peterchen 195 4月 6 22:04 openjdk14
drwxr-xr-x. 3 root root 19 8月 30 14:58 Repositories
drwxr-xr-x. 3 peterchen peterchen 20 4月 11 21:37 sonatype-work
[root@localhost opt]#
ssh://root@192.168.1.114:22 SSH2 xterm 121x34 34,23 1会话 CAP NUM
```


红线位置需按下回车键确认



```
centos8.1 - root@localhost:/opt - Xshell 6 (Free for Home/School)
文件(E) 编辑(E) 查看(V) 工具(T) 选项卡(B) 窗口(W) 帮助(H)
ssh://root:*****@192.168.1.114:22
要添加当前会话, 点击左侧的箭头按钮。
1 centos8.1 x +
[root@localhost opt]# ./Anaconda3-2020.07-Linux-x86_64.sh
Welcome to Anaconda3 2020.07

In order to continue the installation process, please review the license
agreement.
Please, press ENTER to continue
>>>
=====
End User License Agreement - Anaconda Individual Edition
=====

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This End User License Agreement (the "Agreement") is a legal agreement between you and Anaconda, Inc. ("Anaconda") and go
verns your use of Anaconda Individual Edition (which was formerly known as Anaconda Distribution).

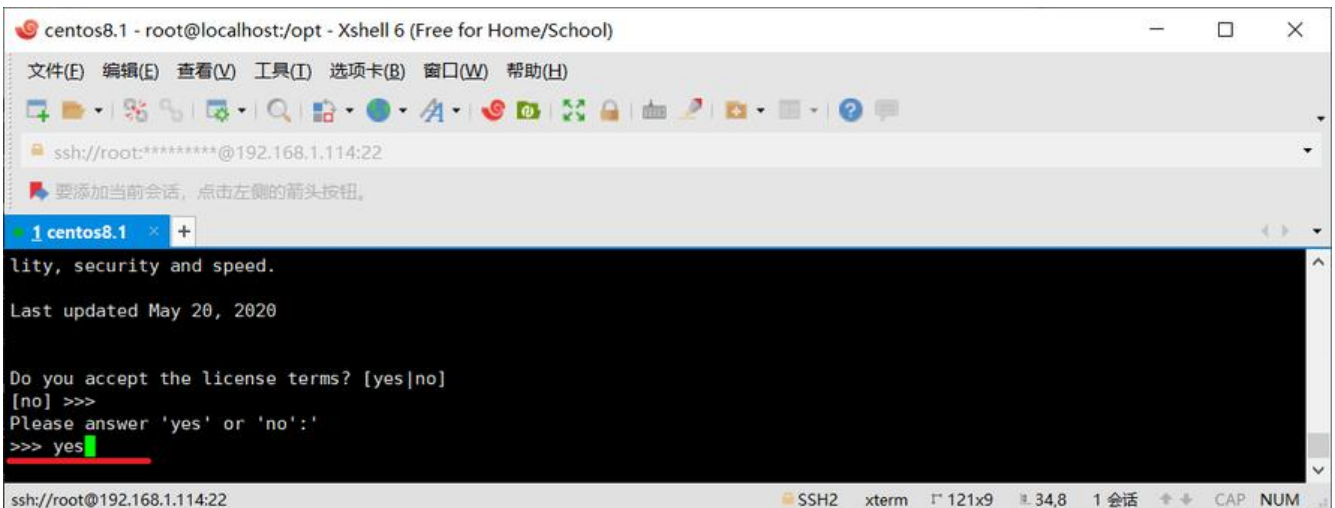
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* Modify and create derivative works of sample source code delivered in Anaconda Individual Edition from Anaconda's rep
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Anaconda reserves all rights not expressly granted to you in this Agreement.
```

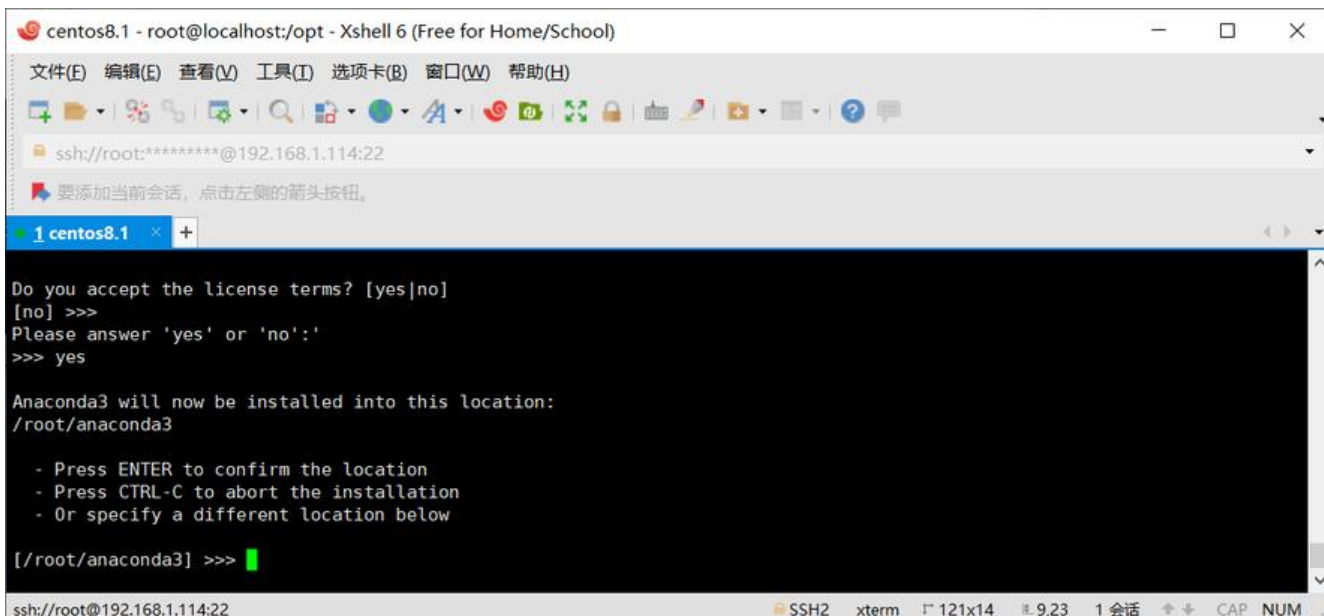
红线位置需要输入 "yes" 然后回车, 确认同意协议内容



```
centos8.1 - root@localhost:/opt - Xshell 6 (Free for Home/School)
文件(E) 编辑(E) 查看(V) 工具(T) 选项卡(B) 窗口(W) 帮助(H)
ssh://root:*****@192.168.1.114:22
要添加当前会话, 点击左侧的箭头按钮。
1 centos8.1 x +
lity, security and speed.
Last updated May 20, 2020

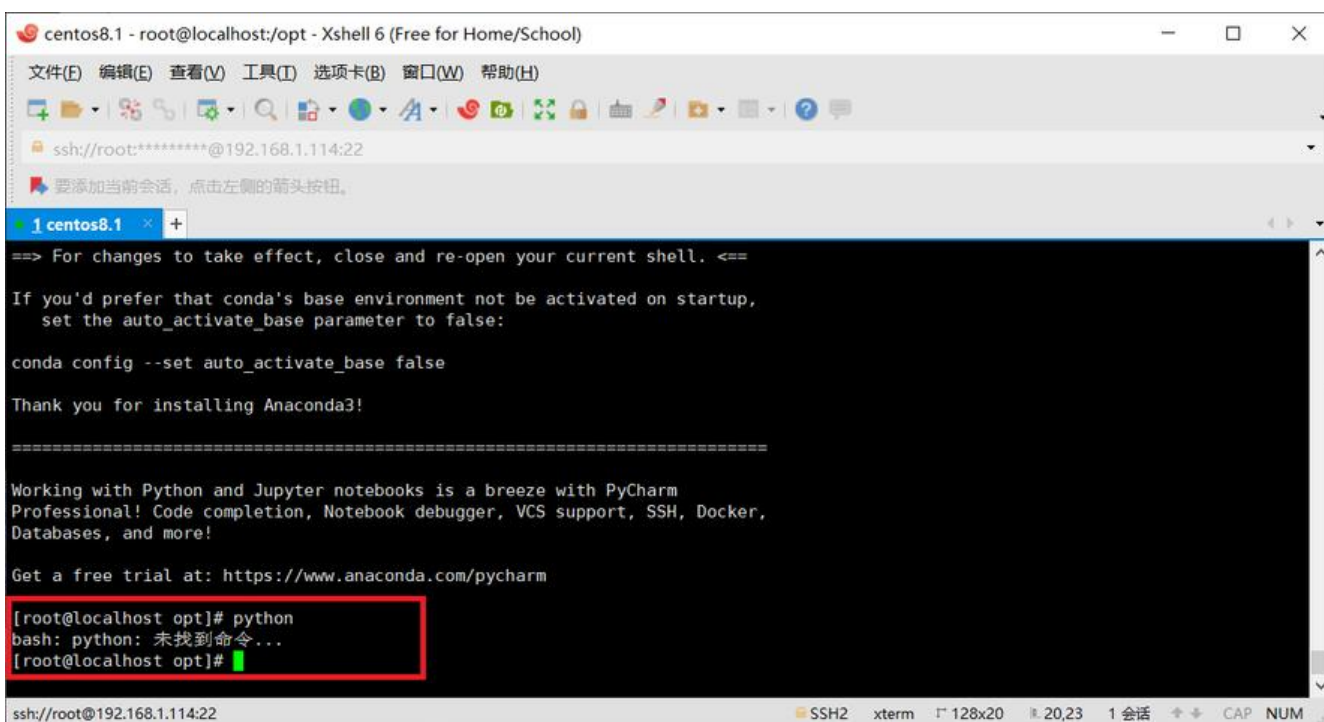
Do you accept the license terms? [yes|no]
[no] >>>
Please answer 'yes' or 'no':
>>> yes
```

设置安装路径, 直接按回车键, 默认安装到/root/anaconda3路径下:



```
centos8.1 - root@localhost:/opt - Xshell 6 (Free for Home/School)
文件(E) 编辑(E) 查看(V) 工具(T) 选项卡(B) 窗口(W) 帮助(H)
ssh://root:*****@192.168.1.114:22
要添加当前会话，点击左侧的箭头按钮。
1 centos8.1 x +
Do you accept the license terms? [yes|no]
[no] >>>
Please answer 'yes' or 'no':
>>> yes
Anaconda3 will now be installed into this location:
/root/anaconda3
- Press ENTER to confirm the location
- Press CTRL-C to abort the installation
- Or specify a different location below
[/root/anaconda3] >>>
```

此时输入python命令会提示命令不存在，需要配置环境变量



```
centos8.1 - root@localhost:/opt - Xshell 6 (Free for Home/School)
文件(E) 编辑(E) 查看(V) 工具(T) 选项卡(B) 窗口(W) 帮助(H)
ssh://root:*****@192.168.1.114:22
要添加当前会话，点击左侧的箭头按钮。
1 centos8.1 x +
==> For changes to take effect, close and re-open your current shell. <==
If you'd prefer that conda's base environment not be activated on startup,
set the auto_activate_base parameter to false:
conda config --set auto_activate_base false
Thank you for installing Anaconda3!
=====
Working with Python and Jupyter notebooks is a breeze with PyCharm
Professional! Code completion, Notebook debugger, VCS support, SSH, Docker,
Databases, and more!
Get a free trial at: https://www.anaconda.com/pycharm
[root@localhost opt]# python
bash: python: 未找到命令...
[root@localhost opt]#
```

Python 基础