

Python安装

① 检查系统是否已安装Python

- 对于Windows系统，Win+R调用系统运行窗口，输出cmd打开命令行；MacOS系统直接打开“终端”
- 输入python，若出现报错，说明未安装python；若出现 >>>，说明已安装python

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [版本 10.0.19045.2604]
(c) Microsoft Corporation. 保留所有权利。

C:\Users\18428>python
'python' 不是内部或外部命令，也不是可运行的程序
或批处理文件。
```

```
C:\WINDOWS\system32\cmd.exe - python
Microsoft Windows [版本 10.0.19045.2604]
(c) Microsoft Corporation. 保留所有权利。

C:\Users\18428>python
Python 3.10.10 (tags/v3.10.10:aad5f6a, Feb  7 2023, 17:20:36) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> _
```

Python安装

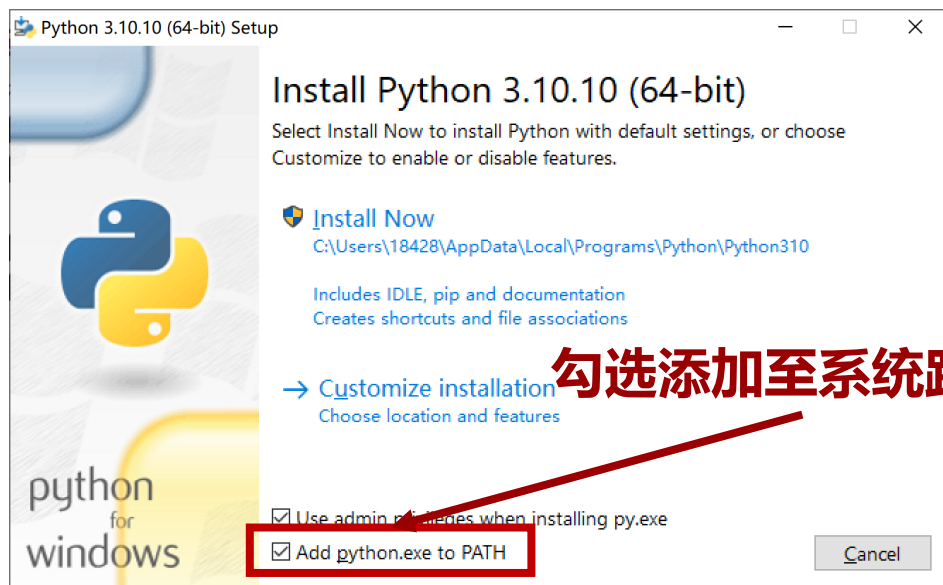
② Python安装包下载

■ Windows:

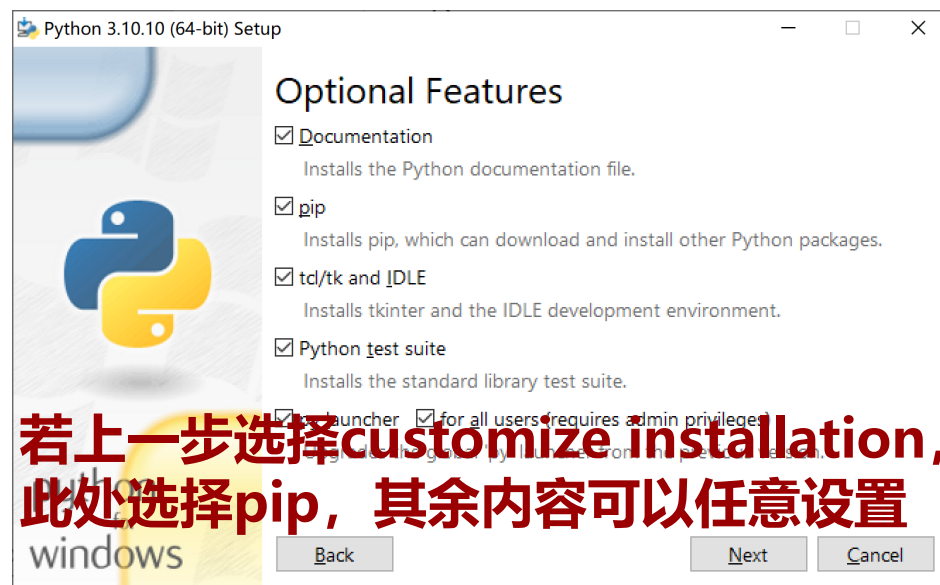
- 64位: <https://www.python.org/ftp/python/3.10.10/python-3.10.10-amd64.exe>
- 32位: <https://www.python.org/ftp/python/3.10.10/python-3.10.10.exe>

■ macOS:

- 64位: <https://www.python.org/ftp/python/3.10.10/python-3.10.10-macos11.pkg>



勾选添加至系统路径



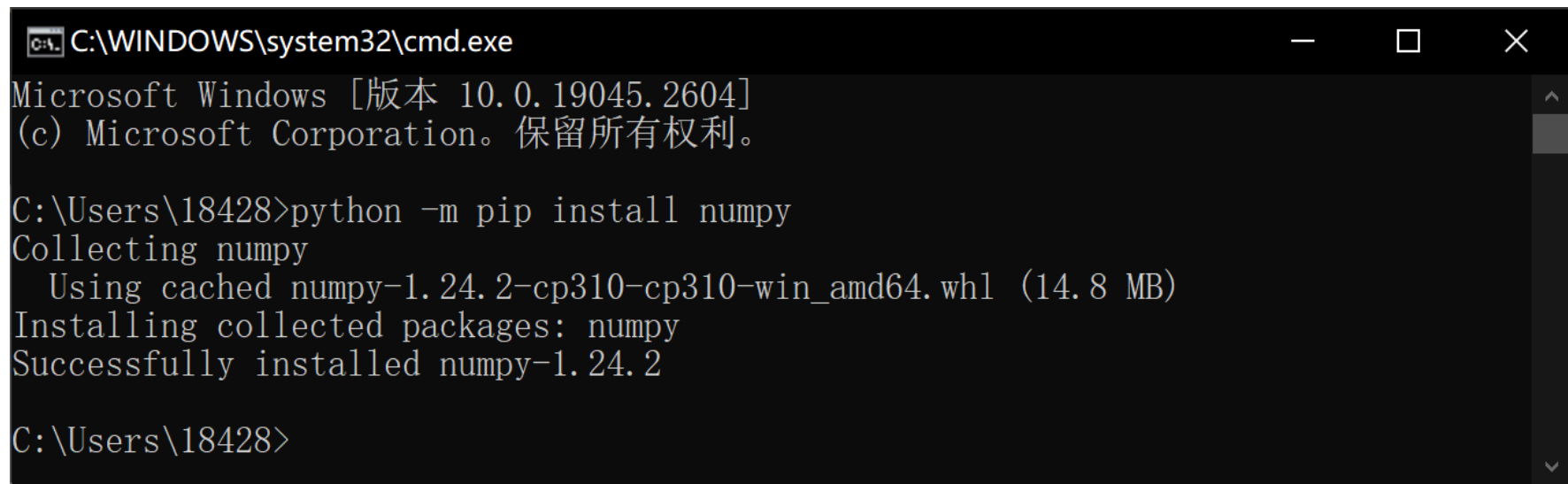
若上一步选择customize installation,
此处选择pip, 其余内容可以任意设置

Python安装

③ Numpy安装

打开命令行输入：

```
python -m pip install numpy
```



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [版本 10.0.19045.2604]
(c) Microsoft Corporation。保留所有权利。

C:\Users\18428>python -m pip install numpy
Collecting numpy
  Using cached numpy-1.24.2-cp310-cp310-win_amd64.whl (14.8 MB)
Installing collected packages: numpy
Successfully installed numpy-1.24.2

C:\Users\18428>
```

Python安装

④ Matplotlib安装

打开命令行输入:

`python -m pip install matplotlib`

```
C:\WINDOWS\system32\cmd.exe
C:\Users\18428>python -m pip install matplotlib
Collecting matplotlib
  Downloading matplotlib-3.7.0-cp310-cp310-win_amd64.whl (7.6 MB)
----- 7.6/7.6 MB 4.7 MB/s eta 0:00:00
Collecting pyparsing>=2.3.1
  Using cached pyparsing-3.0.9-py3-none-any.whl (98 kB)
Collecting kiwisolver>=1.0.1
  Downloading kiwisolver-1.4.4-cp310-cp310-win_amd64.whl (55 kB)
----- 55.3/55.3 kB 2.8 MB/s eta 0:00:00
Collecting python-dateutil>=2.7
```

```
C:\WINDOWS\system32\cmd.exe
----- 163.0/163.0 kB 4.9 MB/s eta 0:00:00
Collecting six>=1.5
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: six, pyparsing, pillow, packaging, kiwisolver, fonttools, cycler, contourpy, python-dateutil, matplotlib
Successfully installed contourpy-1.0.7 cycler-0.11.0 fonttools-4.38.0 kiwisolver-1.4.4 matplotlib-3.7.0 packaging-23.0 pillow-9.4.0 pyparsing-3.0.9 python-dateutil-2.8.2 six-1.16.0
C:\Users\18428>
```