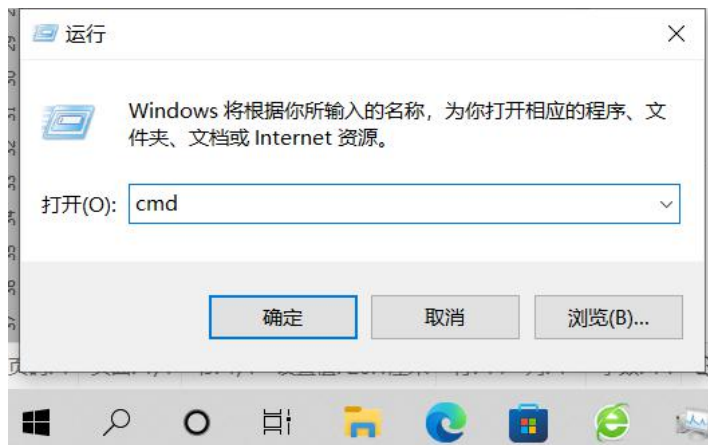


## numpy 库的下载与安装指南

中原工学院 电信学院 自动化系《高级语言上机实习》ZHF



下载 numpy 库

C:\Users\HFZBook>pip download numpy 回车

```
C:\WINDOWS\system32\cmd.exe - pip download numpy

C:\Users\HFZBook>pip download numpy
WARNING: pip is being invoked by an old script wrapper. This will fail in a future version of pip.
Please see https://github.com/pypa/pip/issues/5599 for advice on fixing the underlying issue.
To avoid this problem you can invoke Python with '-m pip' instead of running pip directly.
Collecting numpy
  Downloading numpy-1.21.4-cp37-cp37m-win_amd64.whl (14.0 MB)
    | 3.0 MB 41 kB/s eta 0:04:26
```

Downloading numpy-1.21.4-cp37-cp37m-win\_amd64.whl (14.0 MB)

或者用老师的 numpy-1.18.1-cp37-cp37m-win\_amd64.whl (12.1 MB (12,766,851 字节))

```
C:\WINDOWS\system32\cmd.exe

future version of pip.
Please see https://github.com/pypa/pip/issues/5599 for advice on fixing the
underlying issue.
To avoid this problem you can invoke Python with '-m pip' instead of running
pip directly.
Collecting numpy
  Downloading numpy-1.21.4-cp37-cp37m-win_amd64.whl (14.0 MB)
    | 14.0 MB 43 kB/s
Saved c:\users\hfzbook\numpy-1.21.4-cp37-cp37m-win_amd64.whl
Successfully downloaded numpy







C:\Users\HFZBook>
```

numpy-1.21.4-cp37-cp37m-win\_amd64.whl 下载成功。

下载位置: c:\users\hfzbook\文件夹下

将 numpy-1.21.4-cp37-cp37m-win\_amd64.whl 移动（剪切粘贴）到 Python 安装位置:

C:\Program Files\Python37\Scripts（或 C:\Python37\Scripts）文件夹下:

	numpy-1.18.1-cp37-cp37m-win_amd64.whl	12,468 KB
<input checked="" type="checkbox"/> 	numpy-1.21.4-cp37-cp37m-win_amd64.whl	13,650 KB
	pandas-1.0.1-cp37-cp37m-win_amd64.whl	8,754 KB
	pip.exe	101 KB
	pip3.7.exe	101 KB
	pip3.exe	101 KB

同 pip.exe 在一起，非必须，习惯。

在 DOS 键入 cd 粘贴路径 C:\Program Files\Python37\Scripts 回车

```
C:\Users\HFZBook>cd C:\Program Files\Python37\Scripts
```

回车

```
C:\Users\HFZBook>cd C:\Program Files\Python37\Scripts  
C:\Program Files\Python37\Scripts>
```

进入 C:\Program Files\Python37\Scripts 文件夹

键入 DOS 命令 dir 回车，查看该文件夹下的所有文件

```
C:\Program Files\Python37\Scripts>dir  
驱动器 C 中的卷是 Windows  
卷的序列号是 7800-A3C6  
  
C:\Program Files\Python37\Scripts 的目录  
  
2021/12/12  23:35    <DIR>          .  
2021/12/12  23:35    <DIR>          ..  
2020/03/09  14:56             2,289,127 biopython-1.76-cp37-cp37m-win_amd64.whl  
2020/03/07  19:40             4,149,563 DnaFeaturesViewer-master.zip  
2020/04/14  22:21             102,777 easy_install-3.7.exe  
2020/04/14  22:21             102,777 easy_install.exe  
2020/03/09  18:30             9,226,463 matplotlib-3.2.0-cp37-cp37m-win_amd64.whl  
2020/03/09  11:48             12,766,851 numpy-1.18.1-cp37-cp37m-win_amd64.whl  
2021/12/12  23:26             13,976,758 numpy-1.21.4-cp37-cp37m-win_amd64.whl  
2020/03/09  18:32             8,963,372 pandas-1.0.1-cp37-cp37m-win_amd64.whl  
2020/04/14  22:21             102,759 pip.exe  
2020/04/14  22:21             102,759 pip3.7.exe  
2020/04/14  22:21             102,759 pip3.exe  
                11 个文件      51,885,965 字节  
                2 个目录  111,564,476,416 可用字节  
  
C:\Program Files\Python37\Scripts>
```

看到:

```
2020/03/09  11:48             12,766,851 numpy-1.18.1-cp37-cp37m-win_amd64.whl  
2021/12/12  23:26             13,976,758 numpy-1.21.4-cp37-cp37m-win_amd64.whl
```

和:

```
2020/04/14  22:21             102,759 pip.exe  
2020/04/14  22:21             102,759 pip3.7.exe  
2020/04/14  22:21             102,759 pip3.exe
```

安装: `numpy-1.18.1-cp37-cp37m-win_amd64.whl`  
`numpy-1.21.4-cp37-cp37m-win_amd64.whl` 其中一个 numpy 库

键入: `pip install numpy-1.18.1-cp37-cp37m-win_amd64.whl` 回车, 开始安装  
`numpy-1.18.1-cp37-cp37m-win_amd64.whl`

```
C:\Program Files\Python37\Scripts>pip install numpy-1.18.1-cp37-cp37m-win_amd64.whl
```

同样方法安装: `pandas-1.0.1-cp37-cp37m-win_amd64.whl`

<input checked="" type="checkbox"/>	<code>pandas-1.0.1-cp37-cp37m-win_amd64.whl</code>	8,754 KB
-------------------------------------	----------------------------------------------------	----------

在 DOS, 键入 `pip list` 回车, 看到:

<code>numpy</code>	<code>1.18.1</code>	已经安装
--------------------	---------------------	------

<code>pandas</code>	<code>1.0.1</code>	已经安装
---------------------	--------------------	------

这两个库:

<input checked="" type="checkbox"/>	<code>numpy-1.18.1-cp37-cp37m-win_amd64.whl</code>	12,468 KB
<input type="checkbox"/>	<code>numpy-1.21.4-cp37-cp37m-win_amd64.whl</code>	13,650 KB
<input checked="" type="checkbox"/>	<code>pandas-1.0.1-cp37-cp37m-win_amd64.whl</code>	8,754 KB

都安装好之后, 就可以开始 Excel 文件操作了

祝同学们顺利!

发现错误通过企业微信向老师指正, 及时修订, 谢谢!