

Windows 系统 jupyter 安装教程

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1. Anaconda 版

已经安装 anaconda, 而 jupyter 打不开。若出现图 1 所示情况, 卸载 anaconda 再重新安装。

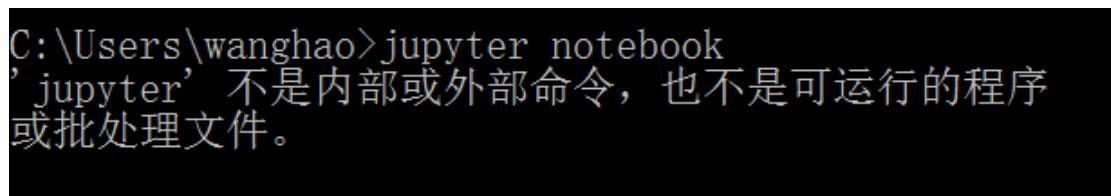


图 1

打开控制面板 (图 2), 点击卸载程序



图 2

双击卸载 anaconda (图 3)

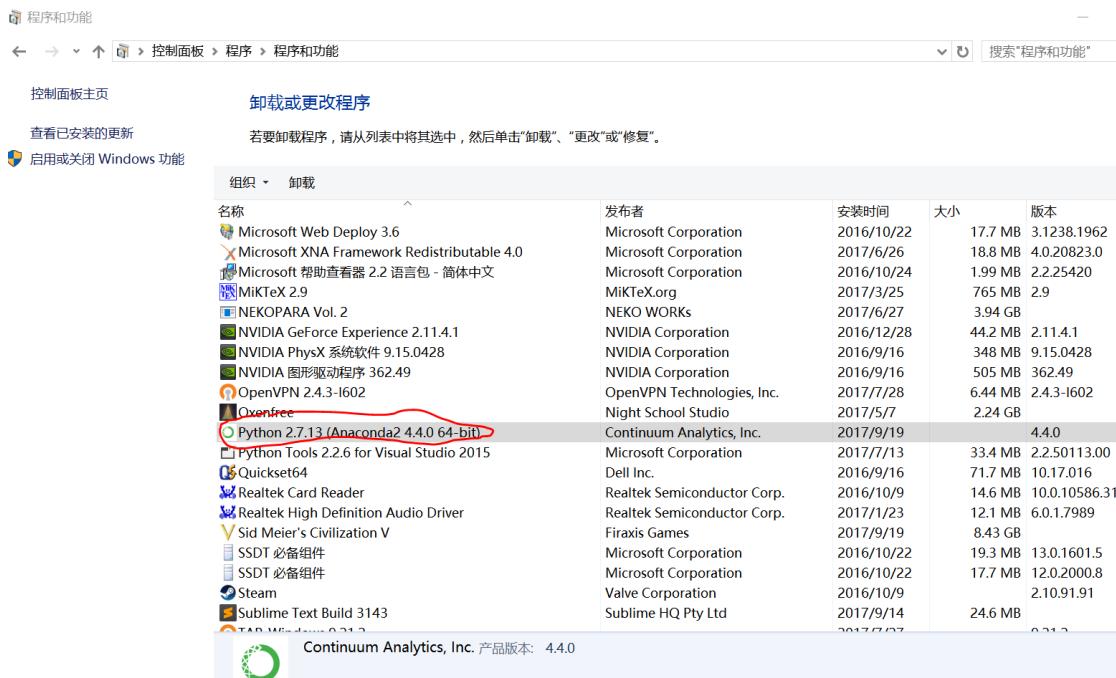


图 3

按图 4、图 5 所示安装 anaconda

○ Anaconda2 4.4.0 (64-bit) Setup

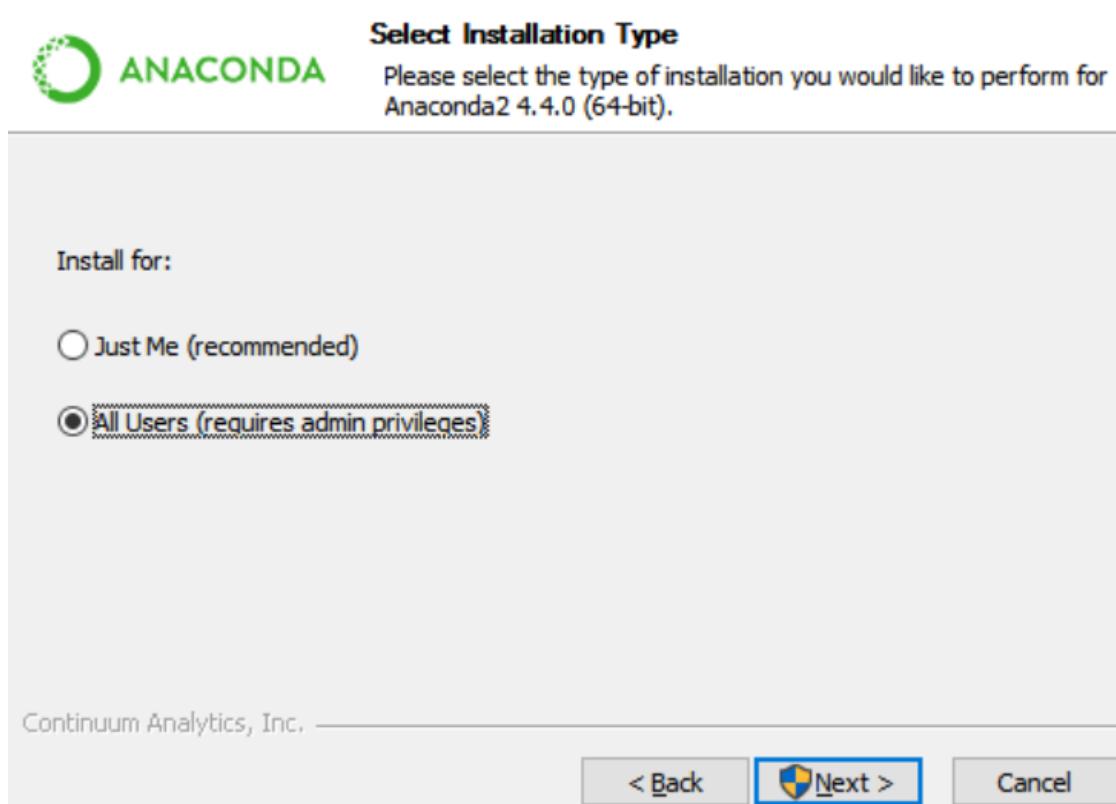


图 4

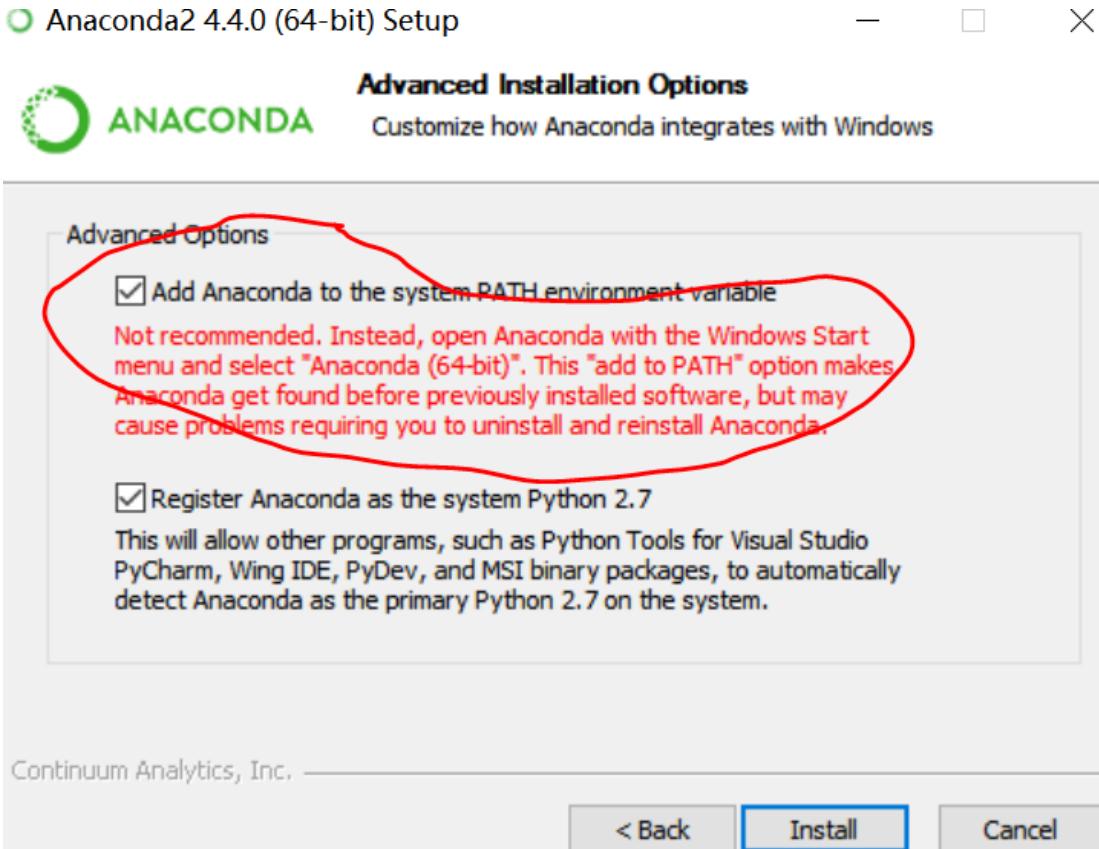


图 5

重新安装 Anaconda 后，在命令行中输入 jupyter notebook。若能成功启动，则安装结束。如出现图 6 所示情况，卸载 Anaconda，使用标准 python 版本（见下页）。

```
cmd C:\WINDOWS\system32\cmd.exe
Microsoft Windows [版本 10.0.15063]
(c) 2017 Microsoft Corporation. 保留所有权利。
C:\Users\Administrator>jupyter notebook
Traceback (most recent call last):
  File "F:\Python\Anaconda\Scripts\jupyter-notebook-script.py", line 3, in <module>
    import notebook.notebookapp
  File "F:\Python\Anaconda\lib\site-packages\notebook\notebookapp.py", line 76, in <module>
    from .services.contents.manager import ContentsManager
  File "F:\Python\Anaconda\lib\site-packages\notebook\services\contents\manager.py", line 16, in <module>
    from nbformat import sign, validate as validate_nb, ValidationError
  File "F:\Python\Anaconda\lib\site-packages\nbformat\_init_.py", line 33, in <module>
    from .validator import validate, ValidationError
  File "F:\Python\Anaconda\lib\site-packages\nbformat\validator.py", line 12, in <module>
    from jsonschema import ValidationError
  File "F:\Python\Anaconda\lib\site-packages\jsonschema\_init_.py", line 18, in <module>
    from jsonschema.validators import (
  File "F:\Python\Anaconda\lib\site-packages\jsonschema\validators.py", line 8, in <module>
    import requests
  File "F:\Python\Anaconda\lib\site-packages\requests\_init_.py", line 52, in <module>
    from .packages.urllib3.contrib import pyopenssl
  File "F:\Python\Anaconda\lib\site-packages\requests\packages\urllib3\contrib\pyopenssl.py", line 47, in <module>
    from cryptography import x509
  File "F:\Python\Anaconda\lib\site-packages\cryptography\x509\_init_.py", line 7, in <module>
    from cryptography.x509.base import (
  File "F:\Python\Anaconda\lib\site-packages\cryptography\x509\base.py", line 16, in <module>
    from cryptography.x509.extensions import Extension, ExtensionType
  File "F:\Python\Anaconda\lib\site-packages\cryptography\x509\extensions.py", line 14, in <module>
    from asn1crypto.keys import PublicKeyInfo
  File "F:\Python\Anaconda\lib\site-packages\asn1crypto\keys.py", line 22, in <module>
    from .elliptic_curve import (
  File "F:\Python\Anaconda\lib\site-packages\asn1crypto\elliptic_curve.py", line 51, in <module>
    from .int import inverse_mod
  File "F:\Python\Anaconda\lib\site-packages\asn1crypto\int.py", line 56, in <module>
    from .perf._big_num_ctypes import libcrypto
  File "F:\Python\Anaconda\lib\site-packages\asn1crypto\perf\_big_num_ctypes.py", line 31, in <module>
    libcrypto_path = find_library('crypto')
  File "F:\Python\Anaconda\lib\ctypes\util.py", line 53, in find_library
    fname = os.path.join(directory, name)
  File "F:\Python\Anaconda\lib\ntpath.py", line 85, in join
    result_path = result_path + p_path
UnicodeDecodeError: 'ascii' codec can't decode byte 0xd in position 5: ordinal not in range(128)
C:\Users\Administrator>
```

图 6

2 标准 Python 版

2.1 安装 python

从 python 官网上，下载合适的 python 2.7 版本（图 7）

<https://www.python.org/downloads/release/python-2714/>

← → ⌂ 🔒 Python Software Foundation [US] | <https://www.python.org/downloads/release/python-2714/>

Python 2.7.14 is the latest bug fix release in the Python 2.7.x series.

[Full Changelog](#)

Files

Version	Operating System	Description	MD5 Sum
Gzipped source tarball	Source release		cee2e4b33ad3750da77b2e85f2f8t
XZ compressed source tarball	Source release		1fdb41ad91d9eb0a6f0c769b861:
Mac OS X 32-bit i386/PPC installer	Mac OS X	for Mac OS X 10.5 and later	67cf2aed974cd04fe96ddac29758t
Mac OS X 64-bit/32-bit installer	Mac OS X	for Mac OS X 10.6 and later	2c959c6ba4ffed23bd102c4e92095
Windows debug information files	Windows		85775bb18b460be79a25c0952b81
Windows debug information files for 64-bit binaries	Windows		cf73b28cb8b76ed2374f0b2c710d2
Windows help file	Windows		0f742a733778565ab7ace9aea53c1
Windows x86-64 MSI installer	Windows	for AMD64/EM64T/x64	370014d73c3059f610c27365def62
Windows x86 MSI installer	Windows		fff688dc4968ec80bbb0eedf45de8:

图 7

按照系统提示（图 8、图 9、图 10），安装 python 2.7。



图 8

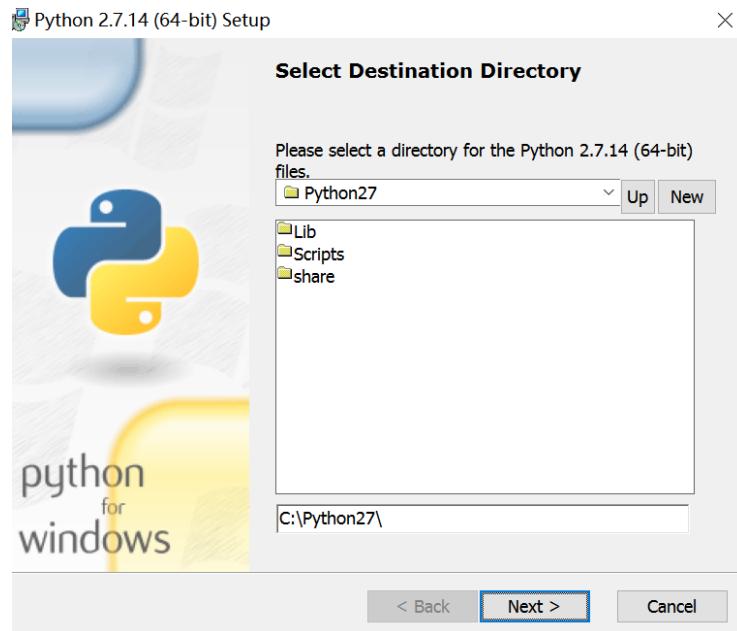


图 9

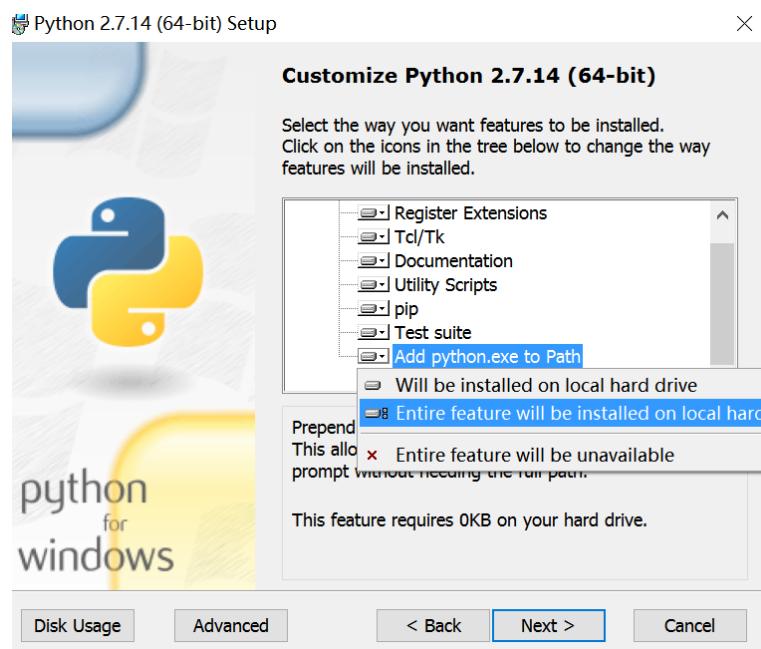


图 10

打开 cmd, 输入 python 并回车。如图 11 所示, 则 python 安装成功。

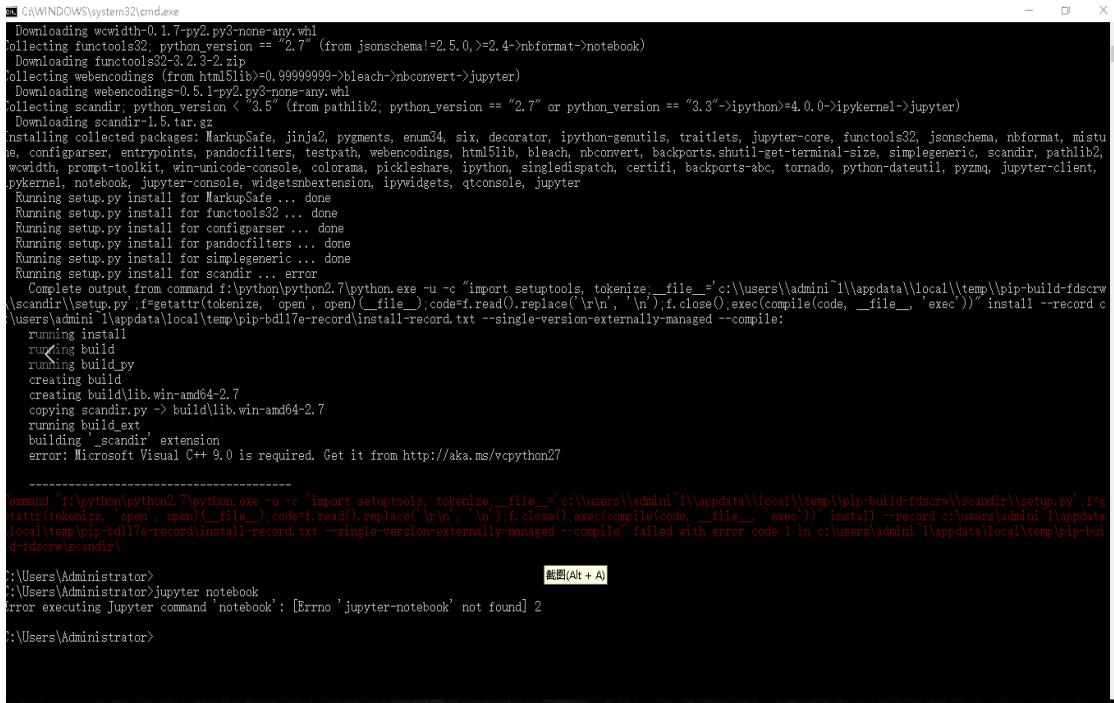
```
C:\> C:\WINDOWS\system32\cmd.exe - python
Microsoft Windows [版本 10.0.14393]
(c) 2016 Microsoft Corporation. 保留所有权利。
C:\Users\wanghao>python
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

图 11

2.2 安装 jupyter notebook

打开 cmd，输入 pip install jupyter notebook 回车。若安装过程中出现图 12 所示错误，需要下载并安装 Microsoft Visual C++ Compiler for Python 2.7。如图 13 所示，打开下载页面 <https://www.microsoft.com/en-us/download/details.aspx?id=44266> 点击 download。

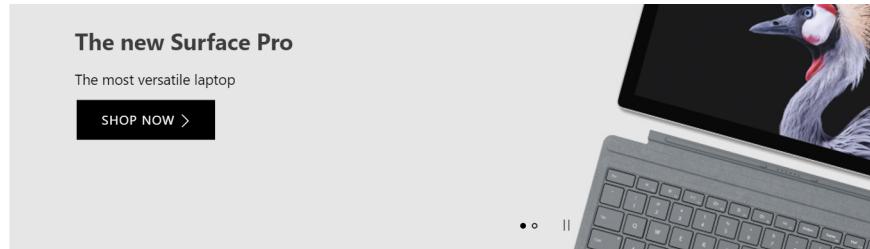
下载完成后按提示安装 VFForPython27.msi。



```
C:\WINDOWS\system32\cmd.exe
[...]
Collecting wccwidth==0.1.7-py2.py3-none-any.whl
  Downloading wccwidth-0.1.7-py2.py3-none-any.whl (2.7)
Collecting functools32; python_version == "2.7" (from jsonschema!=2.5.0,>=2.4->nbformat->jupyter)
  Downloading functools32-3.2.3-2.zip (2.7)
Collecting webencodings (from html5lib==0.9999999->bleach->nbconvert->jupyter)
  Downloading webencodings-0.5.1-py2.py3-none-any.whl (2.7)
Collecting scandir; python_version < "3.5" (from pathlib2; python_version == "2.7" or python_version == "3.3"->ipython>=4.0.0->ipykernel->jupyter)
  Downloading scandir-1.5.tar.gz (2.7)
Installing collected packages: MarkupSafe, jinja2, pygments, enum34, six, decorator, ipython-genutils, traitlets, jupyter-core, functools32, jsonschema, nbformat, mistune, configparser, entrypoints, pandocfilters, testpath, webencodings, html5lib, bleach, nbconvert, backports, shutil-get-terminal-size, simplegeneric, scandir, pathlib2, wccwidth, prompt-toolkit, win-unicode-console, colorama, pickleshare, ipython, singledispatch, certifi, backports-abc, tornado, python-dateutil, pyzmq, jupyter-client, pykernel, notebook, jupyter-console, widgetsnbextension, ipywidgets, qconsole, jupyter
  Running setup.py install for MarkupSafe ... done
  Running setup.py install for functools32 ... done
  Running setup.py install for configparser ... done
  Running setup.py install for pandocfilters ... done
  Running setup.py install for simplegeneric ... done
  Running setup.py install for scandir ... done
  Complete output from command f:/python/python2.7|python.exe -u -c "import setuptools, tokenize, __file__;'c:\\users\\admini\\appdata\\local\\temp\\pip-build-fdscrw\\scandir\\setup.py',f=fattr(tokenize, 'open', open)(__file__).read().replace('\\r\\n', '\\n');f.close();exec(compile(code, __file__, 'exec'))" install --record c:\\users\\admini\\appdata\\local\\temp\\pip-bdl17e-record\\install-record.txt --single-version-externally-managed --compile:
  running install
  running build
  running build_py
  creating build
  creating build/lib.win-amd64-2.7
  copying scandir.py -> build/lib.win-amd64-2.7
  running build_ext
  building '_scandir' extension
  error: Microsoft Visual C++ 9.0 is required. Get it from http://aka.ms/vcpython27

  [...]
  command f:/python/python2.7|python.exe -u -c "import setuptools, tokenize, __file__;'c:\\users\\admini\\appdata\\local\\temp\\pip-build-fdscrw\\scandir\\setup.py',f=fattr(tokenize, 'open', open)(__file__).read().replace('\\r\\n', '\\n');f.close();exec(compile(code, __file__, 'exec'))" install --record c:\\users\\admini\\appdata\\local\\temp\\pip-bdl17e-record\\install-record.txt --single-version-externally-managed --compile" failed with error code 1 in c:\\users\\admini\\appdata\\local\\temp\\pip-build-fdscrw\\scandir\\
  :\\Users\\Administrator
  :\\Users\\Administrator\\jupyter notebook
  error executing Jupyter command 'notebook': [Errno 'jupyter-notebook' not found] 2
  :\\Users\\Administrator
```

图 12



Microsoft Visual C++ Compiler for Python 2.7



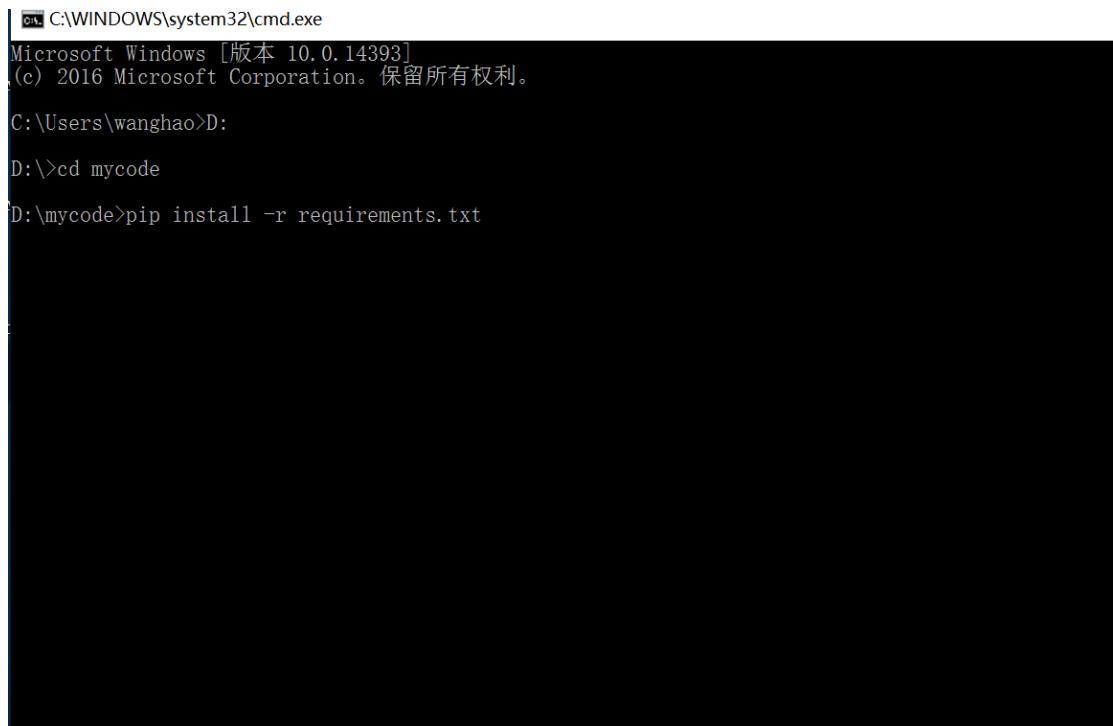
图 13

打开一个新的命令行界面，输入 pip install jupyter notebook 回车，重新安装 jupyter。安装完成之后，输入 jupyter notebook，如果可以打开，则进行下一步

2.3 安装本课程需要的各种工具包

把文件 requirements.txt 放在任意位置(如 D 盘的 mycode 文件夹下), 然后执行如下命令。
如图 14 所示。然后就可以愉快地玩耍啦

1. 打开 cmd 输入 D: 进入 D 盘
2. 输入 cd xxx 进入文件夹 (xxx 为 requirements.txt 放在文件夹)
3. 输入 pip install -r requirements.txt, 回车



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [版本 10.0.14393]
(c) 2016 Microsoft Corporation. 保留所有权利。

C:\Users\wanghao>D:
D:>cd mycode
D:\mycode>pip install -r requirements.txt
```

The screenshot shows a Windows Command Prompt window. The title bar says 'C:\WINDOWS\system32\cmd.exe'. The command line shows the user navigating to the 'mycode' directory on drive D and then running the command 'pip install -r requirements.txt'. The command prompt is black with white text.

图 14