

• Pipenv入门用法（主要介绍，创建、使用、VS code启用）

• 一、创建

- 1、首先创建一个文件夹用来存放Pipenv创建的完成后产生的文件

```
C:\Users\TianZheng>mkdir pipenv
C:\Users\TianZheng>cd pipenv
C:\Users\TianZheng\pipenv>_
```

- 2、进入到此文件中，并输入“pipenv install”完成创建，此时虚拟环境的python版本为系统默认，倘若想指定版本则“pipenv install --python 3.7”(创建python3.7版本的虚拟环境)。


```
C:\Users\TianZheng\pipenv>pipenv install
Creating a virtualenv for this project...
Pipfile: C:\Users\TianZheng\pipenv\Pipfile
Using c:\users\tianzheng\appdata\local\programs\python\python36\python.exe (3.6.6) to create virtualenv...
[==>] Creating virtual environment...Already using interpreter c:\users\tianzheng\appdata\local\programs\python\python36\python.exe
Using base prefix 'c:\users\tianzheng\appdata\local\programs\python\python36'
New python executable in C:\Users\TianZheng\virtualenvs\pipenv-7amLsM3h\Scripts\python.exe
Installing setuptools, pip, wheel...
done.

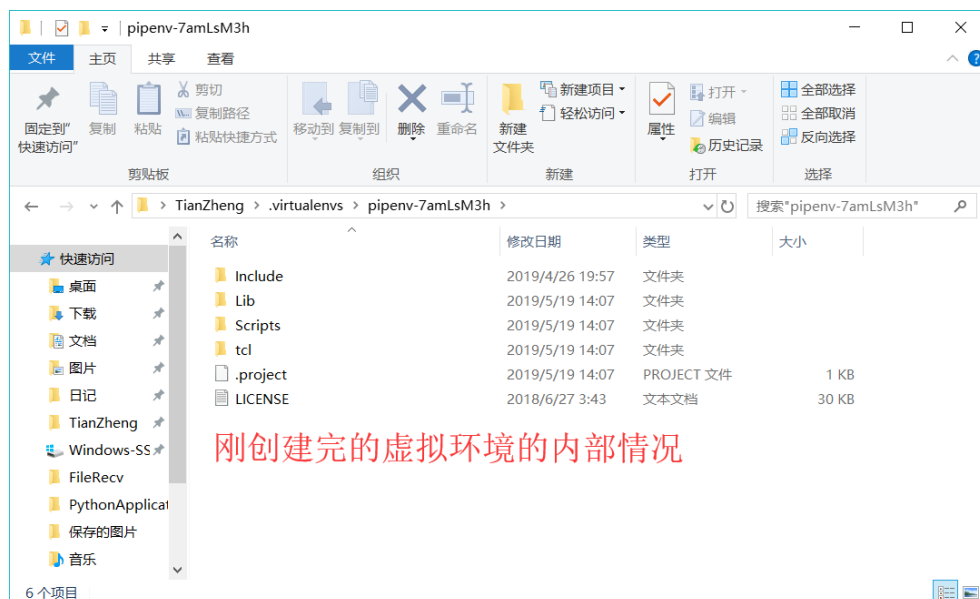
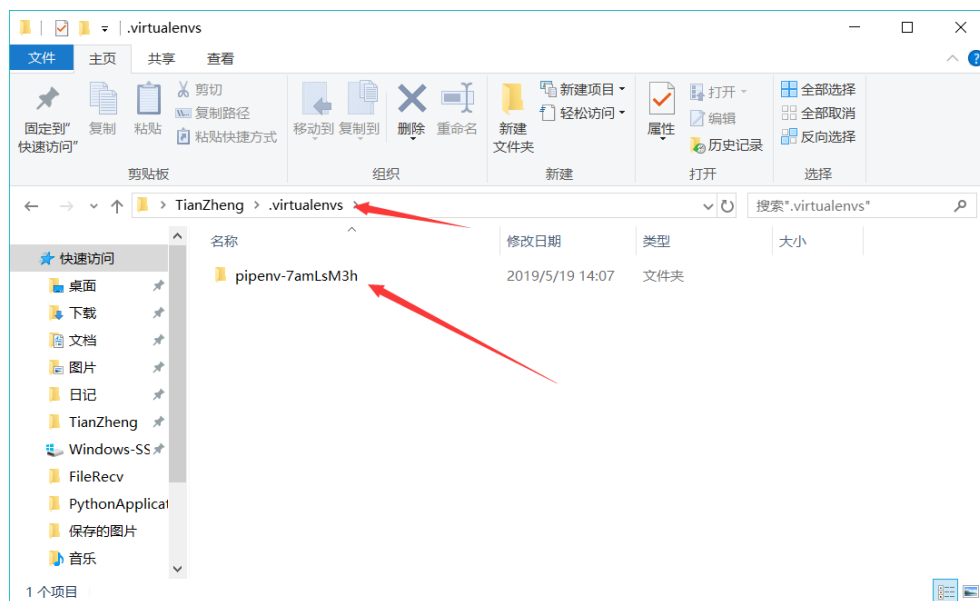
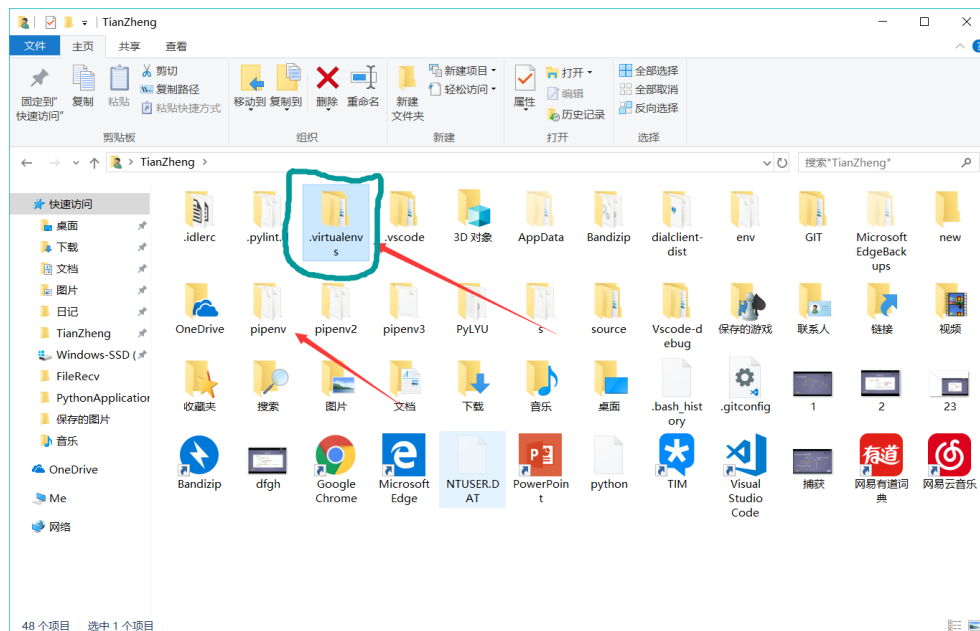
Successfully created virtual environment!
Virtualenv location: C:\Users\TianZheng\virtualenvs\pipenv-7amLsM3h
Creating a Pipfile for this project...
Pipfile.lock not found, creating...
Locking [dev-packages] dependencies...
Locking [packages] dependencies...
Updated Pipfile.lock (ca72e7)!
Installing dependencies from Pipfile.lock (ca72e7)...
===== 0/0 - 00:00:00
To activate this project's virtualenv, run pipenv shell.
Alternatively, run a command inside the virtualenv with pipenv run.

C:\Users\TianZheng\pipenv>_
```

- 3、完成后 pipenv文件夹中会出现两个文件，并且会在 pipenv文件夹所在的文件夹中，自动创建一个专门保存虚拟环境的文件夹，同时在其中完成虚拟环境生成。

anZheng > pipenv

名称	修改日期	类型	大小
 Pipfile	2019/5/19 14:07	文件	1 KB
 Pipfile.lock	2019/5/19 14:07	LOCK 文件	1 KB



- 二、使用
 - 1、输入“pipenv shell”激活虚拟环境。

```
C:\Users\TianZheng\pipenv>pipenv shell
Launching subshell in virtual environment...
Microsoft Windows [版本 10.0.17134.765]
(c) 2018 Microsoft Corporation。保留所有权利。

(pipenv-7amLsM3h) C:\Users\TianZheng\pipenv>
```

- 2、此时就可以下载需要用到的库了，具体下载方式为“pipenv install + 库名称”。

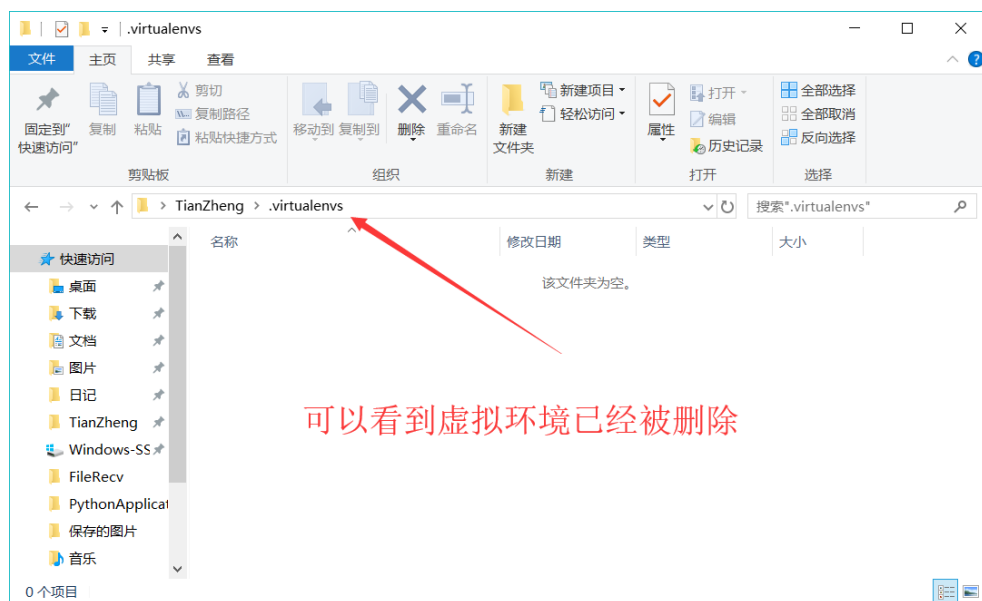
```
(pipenv-7amLsM3h) C:\Users\TianZheng\pipenv>pipenv install requests
Installing requests...
Adding requests to Pipfile's [packages]...
Installation Succeeded
Pipfile.lock (b14837) out of date, updating to (ca72e7)...
Locking [dev-packages] dependencies...
Locking [packages] dependencies...
Success!
Updated Pipfile.lock (b14837)!
Installing dependencies from Pipfile.lock (b14837)...
===== 5/5 - 00:00:22

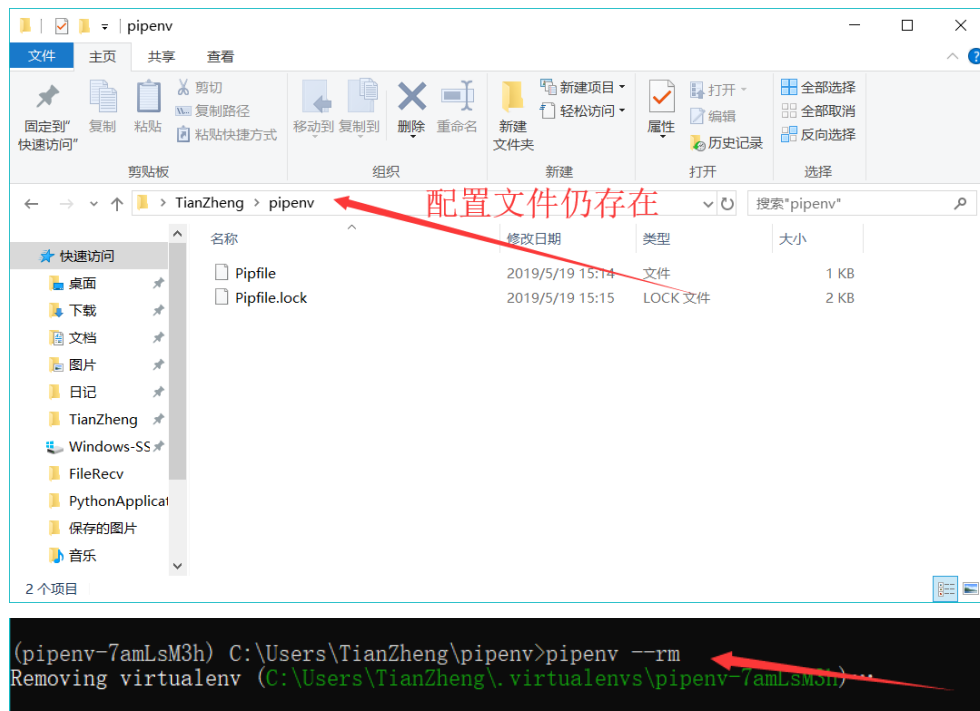
(pipenv-7amLsM3h) C:\Users\TianZheng\pipenv>
```

- 3、退出虚拟环境输入“exit”。

```
(pipenv-7amLsM3h) C:\Users\TianZheng\pipenv>exit
C:\Users\TianZheng\pipenv>
```

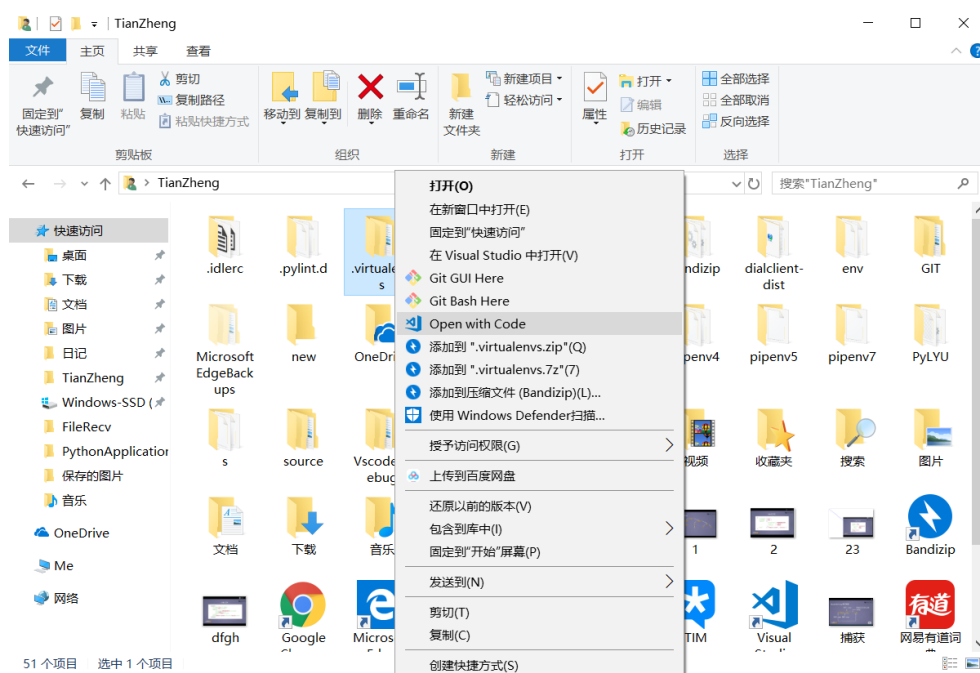
- 4、删除虚拟环境输入“pipenv --rm”。

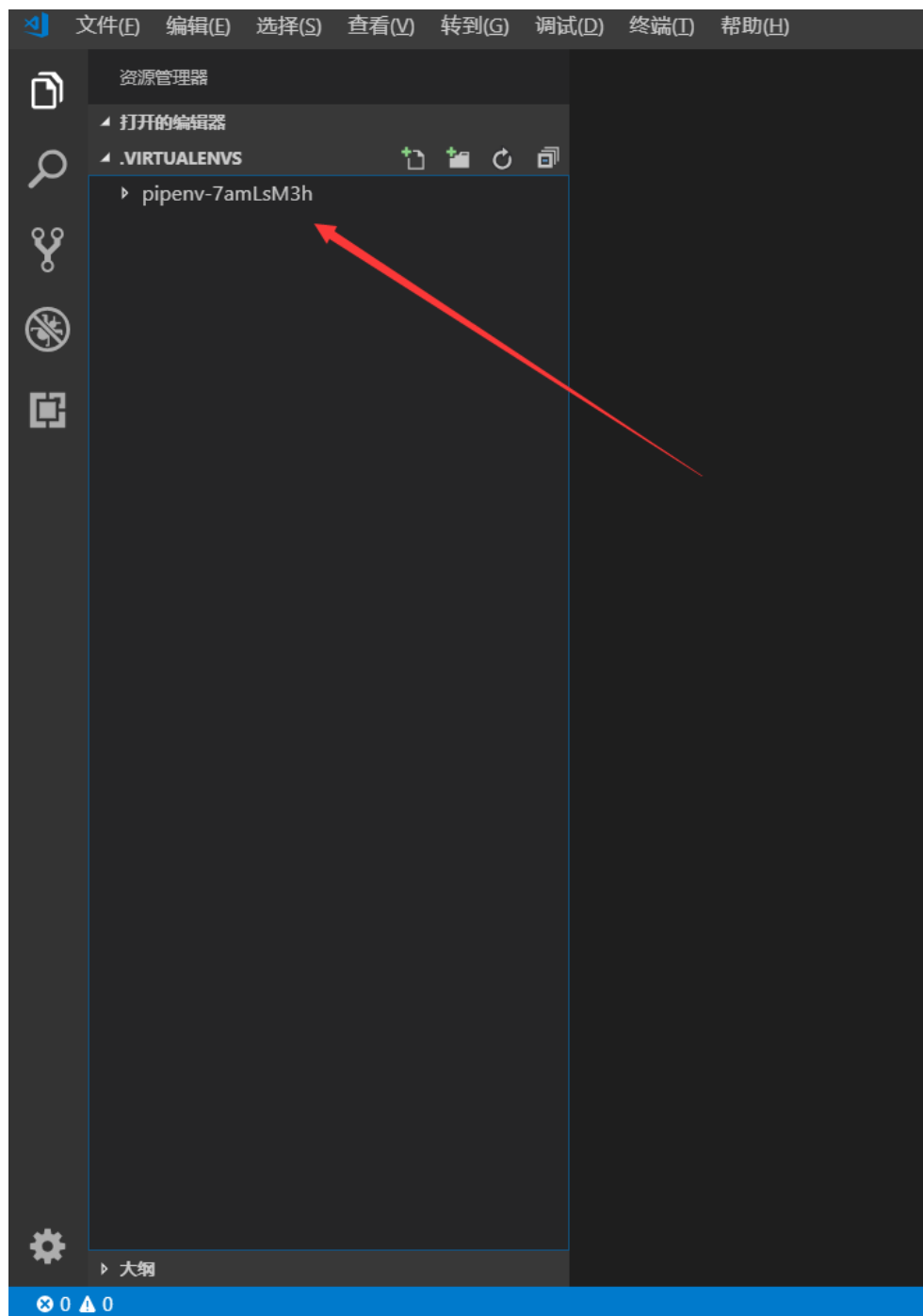




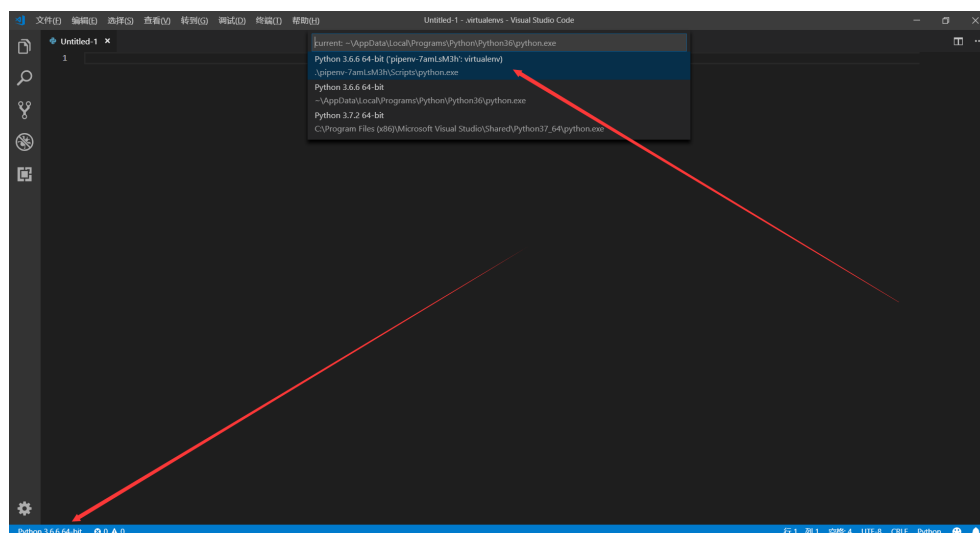
• 三、VS code启用

- 找到虚拟环境所在文件夹，用VS code打开。

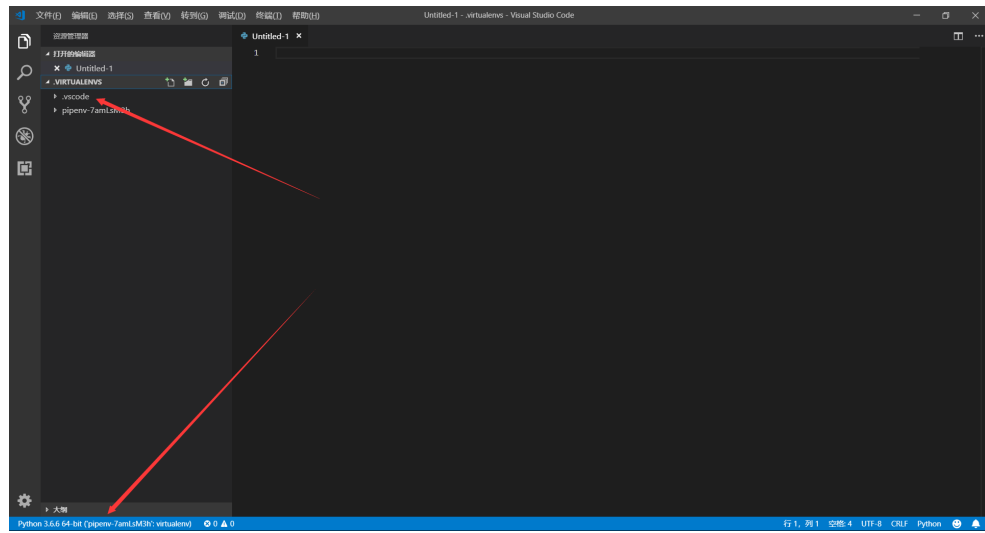




- 创建完一个python文件后点击左下角再点右上角完成更换



- 更换完成后如图所示



- 意外情况

- 说明一：

- 中途出现了问题如下图。

```
C:\Users\TianZheng\pipenv\pipenv shell
Traceback (most recent call last):
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\runpy.py", line 193, in _run_module_as_main
    _main_, mod_spec)
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\runpy.py", line 85, in _run_code
    exec(code, run_globals)
  File "C:\Users\TianZheng\AppData\Local\Programs\Python\Python36\Scripts\pipenv.exe\__main__.py", line 5, in <module>
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\__init__.py", line 47, in <module>
    from cli import cli
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\cli\__init__.py", line 3, in <module>
    from command import cli
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\cli\command.py", line 7, in <module>
    import crayons
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\patched\crayons.py", line 49, in <module>
    is_powershell = 'powershell' in shellingham.detect_shell()[0]
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\vendor\shellingham\__init__.py", line 22, in detect_shell
    shell = get_shell(pid, max_depth=max_depth)
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\vendor\shellingham\nt.py", line 100, in get_shell
    processes = dict(iter_processes())
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\vendor\shellingham\nt.py", line 78, in _iter_processes
    info = {'executable': str(pe.szExeFile.decode('utf-8'))}
UnicodeDecodeError: 'utf-8' codec can't decode byte 0xb2 in position 2: invalid start byte
```

- 之前都是通过重启电脑来解决的，后来解决不了又重新百度了下（如何百度需要好好学习一下）。

原因:

因为windows默认GBK编码, 所以报错

解决方法:

最正确的解决方式不清楚, 我的解决方式是修改源码, 亲测有效:

将你报错位置的(报错位置在你的错误信息里)

```
str(pe.szExeFile.decode('utf-8'))
```

改为

```
str(pe.szExeFile.decode('gbk'))
```

然后就解决了, 不喜勿喷, 有更好的解决办法请分享~

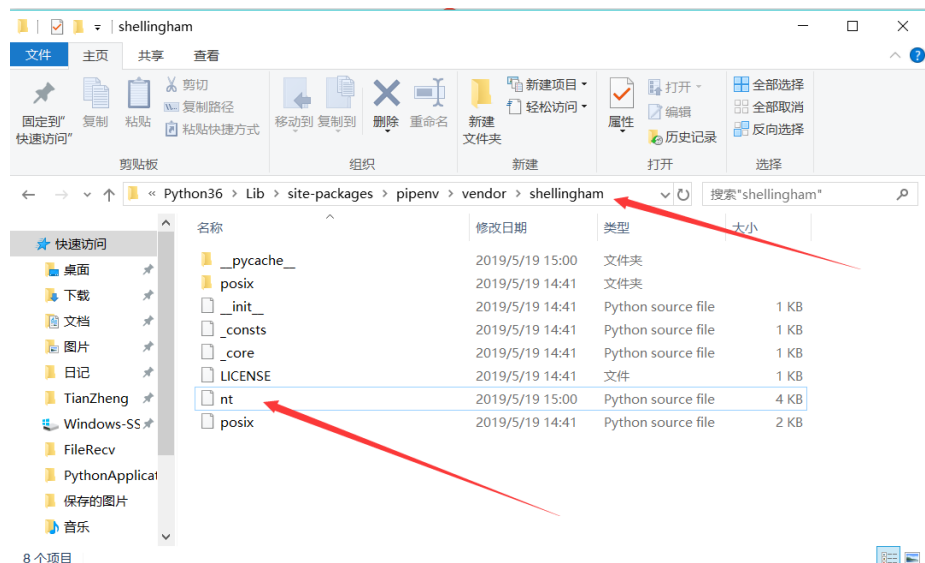
```
D:\pipenvTest>pipenv shell
Launching subshell in virtual environment...
Microsoft Windows [版本 10.0.17134.345]
(c) 2018 Microsoft Corporation。保留所有权利。

(pipenvTest-58TmSZ1L) D:\pipenvTest>
(pipenvTest-58TmSZ1L) D:\pipenvTest>
(pipenvTest-58TmSZ1L) D:\pipenvTest>
(pipenvTest-58TmSZ1L) D:\pipenvTest>s
```

成功启动

- 找到这个文件, 用VS code打开按照上面的做最后保存就OK了。

```
C:\Users\TianZheng>cd pipenv
C:\Users\TianZheng\pipenv>pipenv shell
Traceback (most recent call last):
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\runpy.py", line 193, in _run_module_as_main
    __main__ = mod_spec
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\runpy.py", line 85, in _run_code
    exec(code, run_globals)
  File "c:\users\tianzheng\appdata\local\programs\python\python36\Scripts\pipenv.exe\_main_.py", line 5, in <module>
    from cli import cli
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\cli\_init_.py", line 3, in <module>
    from .command import cli
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\cli\command.py", line 7, in <module>
    import crayons
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\patched\crayons.py", line 49, in <module>
    is_powershell = "powershell" in shellingham.detect_shell() [0]
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\vendor\shellingham\_init_.py", line 22, in detect_shell
    shell = get_shell(pid, max_depth=max_depth)
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\vendor\shellingham\nt.py", line 100, in get_shell
    processes = dict(_iter_process())
  File "c:\users\tianzheng\appdata\local\programs\python\python36\lib\site-packages\pipenv\vendor\shellingham\nt.py", line 78, in _iter_process
    info = { 'executable': str(pe.szExeFile.decode('utf-8')) }
UnicodeDecodeError: 'utf-8' codec can't decode byte 0xb2 in position 2: invalid start byte
```



```
nt.py
63 pe = PROCESSENTRY32()
64 pe.dwSize = sizeof(PROCESSENTRY32)
65 success = windll.kernel32.Process32First(h_process, byref(pe))
66 while True:
67     if not success:
68         errcode = windll.kernel32.GetLastError()
69         if errcode == ERROR_NO_MORE_FILES:
70             # No more processes to iterate through, we're done here.
71             return
72         elif errcode == ERROR_INSUFFICIENT_BUFFER:
73             # This is likely because the file path is longer than the
74             # Windows limit. Just ignore it, it's likely not what we're
75             # looking for. We can fix this when it actually matters. (#8)
76             continue
77         raise WinError()
78     info = {'executable': str(pe.szExeFile.decode('gbk'))}
79     if pe.th32ParentProcessID:
80         info['parent_pid'] = pe.th32ParentProcessID
81     yield pe.th32ProcessID, info
82     success = windll.kernel32.Process32Next(h_process, byref(pe))
83
84
85 def _get_executable(process_dict):
86     try:
87         executable = process_dict.get('executable')
88     except (AttributeError, TypeError):
89         return None
```

说明二:

- 创建方式可以不按步骤来

```
C:\Users\TianZheng>mkdir pipenv4
C:\Users\TianZheng>cd pipenv4
C:\Users\TianZheng\pipenv4>pipenv install requests
Creating a virtualenv for this project...
Pipfile: C:\Users\TianZheng\pipenv4\Pipfile
Using c:\users\tianzheng\appdata\local\programs\python\python36\python.exe (3.6.6) to create virtualenv...
[==] Creating virtual environment...Already using interpreter c:\users\tianzheng\appdata\local\programs\python\python36\python.exe
Using base prefix 'c:\users\tianzheng\appdata\local\programs\python\python36'
New python executable in C:\Users\TianZheng\virtualenvs\pipenv4-CcJAgSxR\Scripts\python.exe
Installing setuptools, pip, wheel...
done.

Successfully created virtual environment!
Virtualenv location: C:\Users\TianZheng\virtualenvs\pipenv4-CcJAgSxR
Creating a Pipfile for this project...
Installing requests...
Adding requests to Pipfile's [packages]...
Installation Succeeded
Pipfile.lock not found, creating...
Locking [dev-packages] dependencies...
Locking [packages] dependencies...
Success!
Updated Pipfile.lock (b14837)!
Installing dependencies from Pipfile.lock (b14837)...
===== 5/5 - 00:00:08
To activate this project's virtualenv, run pipenv shell.
Alternatively, run a command inside the virtualenv with pipenv run.
C:\Users\TianZheng\pipenv4>
```

- 还能这样

```
C:\Users\TianZheng>mkdir pipenv5
C:\Users\TianZheng>cd pipenv5
C:\Users\TianZheng\pipenv5>pipenv shell install requests
Creating a virtualenv for this project...
Pipfile: C:\Users\TianZheng\pipenv5\Pipfile
Using c:\users\tianzheng\appdata\local\programs\python\python36\python.exe (3.6.6) to create virtualenv...
[==] Creating virtual environment...Already using interpreter c:\users\tianzheng\appdata\local\programs\python\python36\python.exe
Using base prefix 'c:\users\tianzheng\appdata\local\programs\python\python36'
New python executable in C:\Users\TianZheng\virtualenvs\pipenv5-AWeinTFt\Scripts\python.exe
Installing setuptools, pip, wheel...
done.

Successfully created virtual environment!
Virtualenv location: C:\Users\TianZheng\virtualenvs\pipenv5-AWeinTFt
Creating a Pipfile for this project...
Launching subshell in virtual environment...
Microsoft Windows [版本 10.0.17134.765]
(c) 2018 Microsoft Corporation. 保留所有权利。
(pipenv5-AWeinTFt) C:\Users\TianZheng\pipenv5>
```

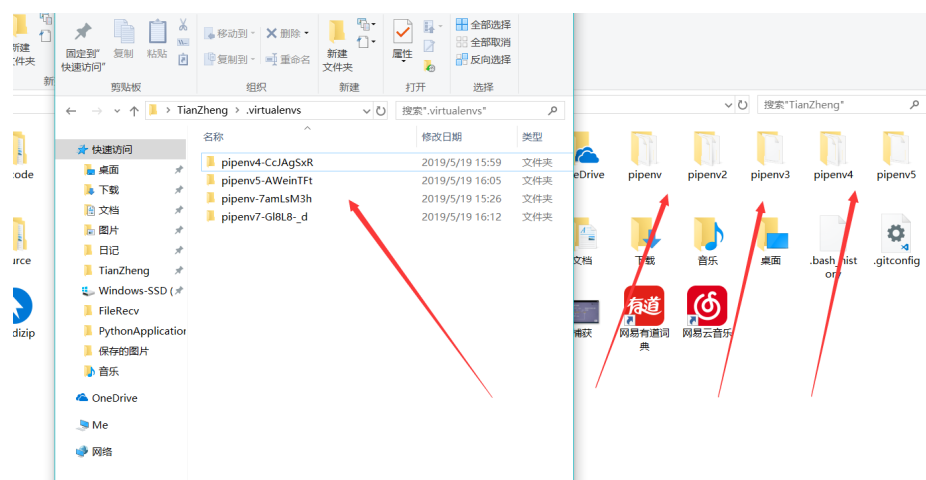
- 直接输入“pipenv shell” 创建的配置文件与“pipenv install” 相比较区别在于前者少一个文件

anZheng > pipenv5			
名称	修改日期	类型	大小
Pipfile	2019/5/19 16:05	文件	1 KB

anZheng > pipenv4 正常途径创建

名称	修改日期	类型	大小
Pipfile	2019/5/19 15:59	文件	1 KB
Pipfile.lock	2019/5/19 15:59	LOCK 文件	2 KB

- 说明三：
 - 经实验发现一个配置文件只能对应一个虚拟环境，想要添加虚拟环境可以这样



- 参考网站
 - <https://www.jianshu.com/p/d07da5079d11>
 - <https://www.jianshu.com/p/b06c379d2c78>