

在 Windows 下 Virtualenv 和 virtualenvwrapper-win 这两个包都是管理虚拟环境的工具包，Linux 下这两个工具包的名称为 Virtualenv 和 virtualenvwrapper. 【注在 Windows 下 Virtualenv 并不能很好地隔离虚拟环境】

安装 virtualenv 和安装其他包的方法一样，`pip install virtualenv`

在 python 2.7 下安装 就用 `pip2 install virtualenv`

在 python 3.6 下安装就用 `pip3 install virtualenv`

虚拟环境在 Windows 下安装备置

1、 安装虚拟环境

`pip install virtualenv`

`pip install virtualenvwrapper-win`

2、 配置虚拟环境路径存放的目录

`WORKON_HOME` 变量[适用于 virtualenvwrapper pipenv poetry]

Virtualenv D:\ENVS [直接指定存放目录]

3、 virtualenvwrapper-win 创建虚拟环境

`mkvirtualenv` 虚拟环境名字

4、 切换虚拟环境

`workon` 环境名字

`workon` 不带参数查询环境名字

5、 退出虚拟环境

`deactivate`

6、 删除虚拟环境

`rmvirtualenv` 环境名字

1.virtualenv

```
Microsoft Windows [版本 10.0.18363.592]
(c) 2019 Microsoft Corporation。保留所有权利。
C:\WINDOWS\system32>where python
C:\Program Files\Python38\python.exe
C:\Program Files\Python37\python.exe
C:\WINDOWS\system32>
```

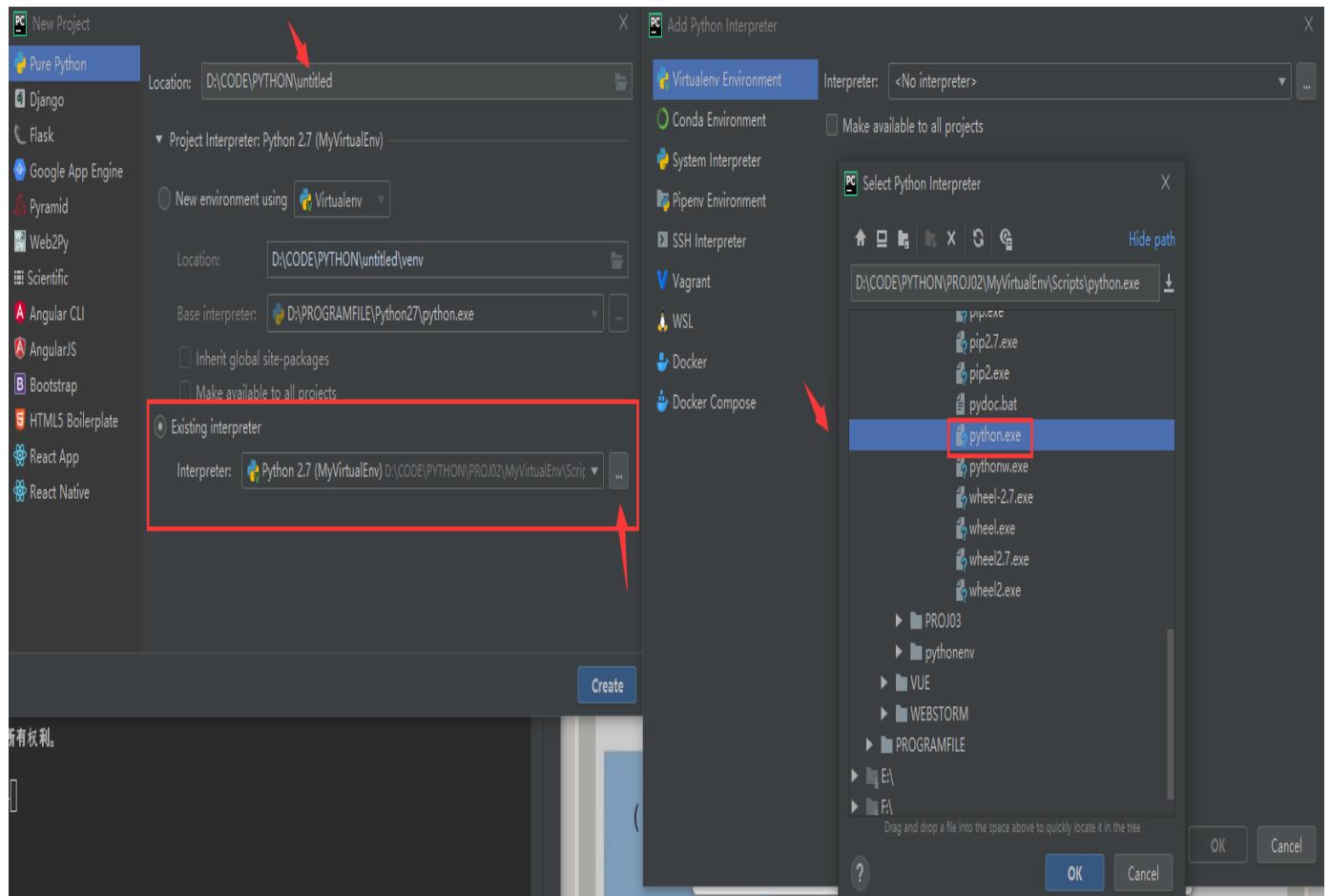
The screenshot shows a Windows File Explorer window with the following details:

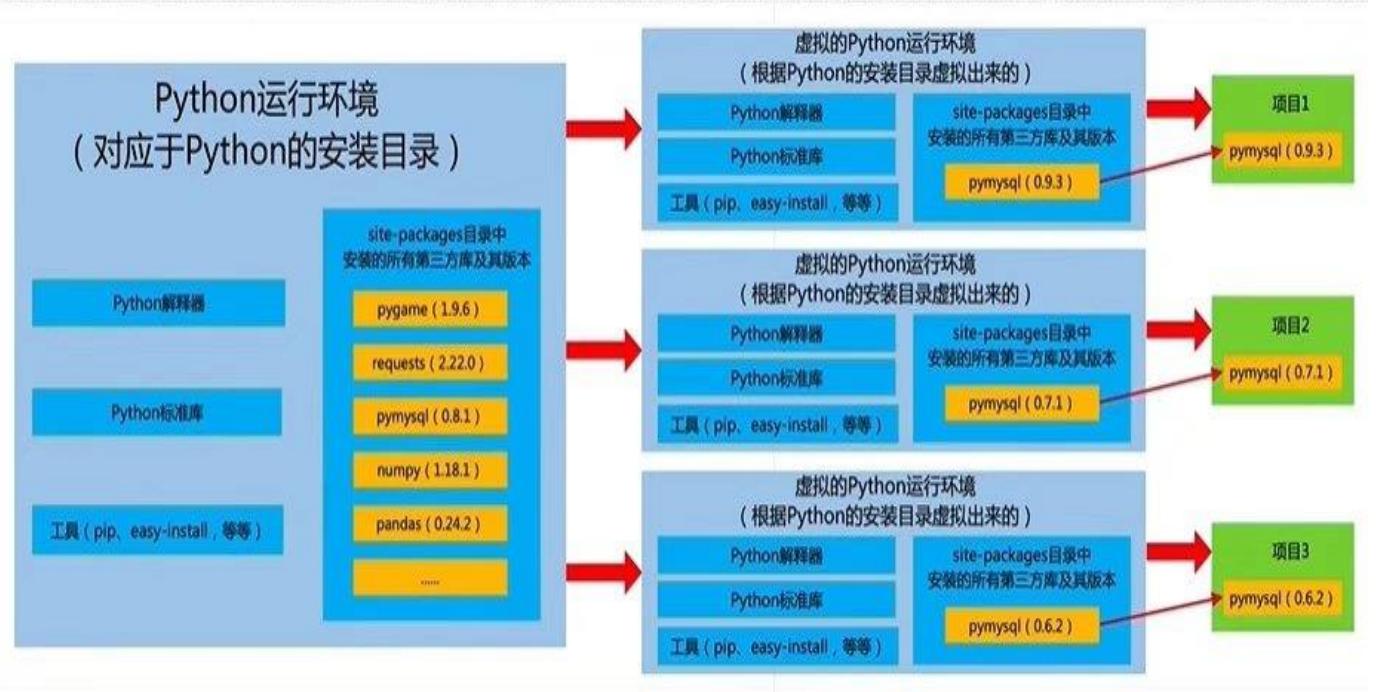
- Path:** D:\CODE\PYTHON\002>MyVirEnv>Scripts
- Toolbar:** Includes standard file operations like Copy, Paste, Cut, Move, Delete, Rename, New Item, Properties, Open, and Select.
- Left Sidebar:** Shows quick access to Home, Downloads, Documents, Pictures, and specific dates (2020-03, 2052, M202001, SZCHINTO).
- File List:** A table showing files in the Scripts folder. One file, 'activate.ps1', is highlighted with a red box and a circled number '2'.

名称	修改日期	类型	大小
testrunner.pyd	2020/3/21 8:57	symlink	0 KB
testcapi.pyd	2020/3/21 8:57	symlink	0 KB
testconsole.pyd	2020/3/21 8:57	symlink	0 KB
_testimportmultiple.pyd	2020/3/21 8:57	symlink	0 KB
testmultiphase.pyd	2020/3/21 8:57	symlink	0 KB
tkinter.pyd	2020/3/21 8:57	symlink	0 KB
activate	2020/3/21 8:57	文件	3 KB
activate.bat	2020/3/21 8:57	Windows 批处理...	1 KB
activate.fish	2020/3/21 8:57	FISH 文件	4 KB
activate.ps1	2020/3/21 8:57	Windows Power...	2 KB
activate.xsh	2020/3/21 8:57	Xshell session	2 KB

- Bottom Taskbar:** Shows command-line history and environment variables.

pycharm 中选择已存在的虚拟环境





The screenshot shows two command prompts side-by-side. The left prompt, titled '选择管理员: 命令提示符', displays the system's PATH environment variable, which includes numerous system and developer paths. The right prompt, titled 'MyVirEnv\Scripts>activate', shows the user activating a virtual environment named 'MyVirEnv'. After activation, the PATH is modified, with the virtual environment's Scripts directory now at the front of the path. Red boxes highlight the activation command and the resulting PATH output.

```
C:\Users\Administrator>echo %path%  
C:\PROGRA~2\Borland\CBUILD~1\Bin;C:\PROGRA~2\Borland\CBUILD~1\Projects\Bpl;C:\Program Files\VanDyke Software\Clients\;C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:\Windows\System32\WindowsPowerShell\v1.0\;C:\Windows\System32\OpenSSH\;C:\Program Files (x86)\Microsoft VS Code\bin;C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\170\Tools\Binn\;C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\130\Tools\Binn\;C:\Program Files (x86)\Microsoft SQL Server\130\Tools\Binn\;C:\Program Files\Microsoft SQL Server\130\DTSP\Binn\;C:\Program Files\Java\apache-maven-3.6.2\bin;C:\Program Files\nodejs\;C:\Program Files\dotnet\;D:\CODE\Rust\Program\.cargo\bin;C:\Program Files (x86)\Microsoft Visual Studio\Common\Tools\WinNT;C:\Program Files (x86)\Microsoft Visual Studio\Common\MSDev98\Bin;C:\Program Files (x86)\Microsoft Visual Studio\Common\Tools;C:\Program Files (x86)\Microsoft Visual Studio\VC98\bin;C:\Python\Program\Scripts\;C:\Python\Program\;C:\Users\Administrator\AppData\Local\Microsoft\WindowsApps;C:\Users\Administrator\AppData\Roaming\npm  
C:\Users\Administrator>  
  
D:\CODE\PYTHON\002\MyVirEnv\Scripts>activate ①  
  
D:\CODE\PYTHON\002\MyVirEnv\Scripts>where python ②  
D:\CODE\PYTHON\002\MyVirEnv\Scripts\python.exe  
C:\Python\Program\python.exe  
C:\Users\Administrator\AppData\Local\Microsoft\WindowsApps\python.exe  
  
D:\CODE\PYTHON\002\MyVirEnv\Scripts>echo %path% ③  
D:\CODE\PYTHON\002\MyVirEnv\Scripts;C:\PROGRA~2\Borland\CBUILD~1\Bin;C:\PROGRA~2\Borland\CBUILD~1\Projects\Bpl;C:\Program Files\VanDyke Software\Clients\;C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:\Windows\System32\WindowsPowerShell\v1.0\;C:\Windows\System32\OpenSSH\;C:\Program Files (x86)\Microsoft VS Code\bin;C:\Program Files\Java\jdk1.8.0_231\bin;C:\Program Files\Microsoft SQL Server\130\Tools\Binn\;C:\Program Files\Microsoft SQL Server\Client SDK\ODBC\170\Tools\Binn\;C:\Program Files\Microsoft SQL Server\130\Tools\Binn\;C:\Program Files (x86)\Microsoft SQL Server\130\DTSP\Binn\;C:\Program Files\Java\apache-maven-3.6.2\bin;C:\Program Files\nodejs\;C:\Program Files\dotnet\;D:\CODE\Rust\Program\.cargo\bin;C:\Program Files (x86)\Microsoft
```

上图进入虚拟环境后，echo %path%会显示当前的环境，且置于查找路径的最前面。

指定 python 版本创建虚拟环境

```
Microsoft Windows [版本 10.0.18363.592]
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C:\WINDOWS\system32>cd C:\Users\zhangrongchao\Desktop\MyProject2

C:\Users\zhangrongchao\Desktop\MyProject2>where python
C:\Program Files\Python38\python.exe
C:\Program Files\Python37\python.exe

C:\Users\zhangrongchao\Desktop\MyProject2>virtualenv -p "C:\Program Files\Python37\python.exe" MyVirEnv
Running virtualenv with interpreter C:\Program Files\Python37\python.exe
Already using interpreter C:\Program Files\Python37\python.exe
Using base prefix 'C:\\Program Files\\Python37'
New python executable in C:\Users\zhangrongchao\Desktop\MyProject2\MyVirEnv\Scripts\python.exe
Installing setuptools, pip, wheel...
done.

C:\Users\zhangrongchao\Desktop\MyProject2>
```

--system-site-packages 参数为当前 Python 虚拟环境的加载当前的第三方库。

```
C:\Users\zhangrongchao\Desktop\MyProject3>virtualenv --system-site-packages MyVirEnv
Using base prefix 'c:\\program files\\python38'
New python executable in C:\Users\zhangrongchao\Desktop\MyProject3\MyVirEnv\Scripts\python.exe
Installing setuptools, pip, wheel...
done.

C:\Users\zhangrongchao\Desktop\MyProject3>cd MyVirEnv
C:\Users\zhangrongchao\Desktop\MyProject3\MyVirEnv>cd Scripts
C:\Users\zhangrongchao\Desktop\MyProject3\MyVirEnv\Scripts>activate
(MyVirEnv) C:\Users\zhangrongchao\Desktop\MyProject3\MyVirEnv\Scripts>cd ..\..
(MyVirEnv) C:\Users\zhangrongchao\Desktop\MyProject3>python test.py
<module 'pymysql' from 'c:\\program files\\python38\\lib\\site-packages\\pymysql\\__init__.py'>
(MyVirEnv) C:\Users\zhangrongchao\Desktop\MyProject3>
```

安装特定的版本使用==

```
C:\Users\Administrator>pip install virtualenv=="16.7.9"
Looking in indexes: https://pypi.tuna.tsinghua.edu.cn/simple
Collecting virtualenv==16.7.9
  Downloading https://pypi.tuna.tsinghua.edu.cn/packages/05/f1/2e07e8ca50e047b9cc9ad56cf4291f4e041fa73207d0
  00a095fe478abf84/virtualenv-16.7.9-py2.py3-none-any.whl (3.4 MB)
   |████████████████████████████████| 3.4 MB 1.6 MB/s
Installing collected packages: virtualenv
Successfully installed virtualenv-16.7.9
```

```
d:\CODE\PYTHON\003>virtualenv MyVirEnv ①
Using base prefix 'c:\\python\\program'
New python executable in d:\CODE\PYTHON\003\MyVirEnv\Scripts\python.exe
Installing setuptools, pip, wheel...
done.

d:\CODE\PYTHON\003>cd myvirenv\scripts ②
d:\CODE\PYTHON\003\MyVirEnv\Scripts>dir
驱动器 D 中的卷是 OFFICE
卷的序列号是 65F3-3762

d:\CODE\PYTHON\003\MyVirEnv\Scripts 的目录

2020/03/21  10:26    <DIR>          .
2020/03/21  10:26    <DIR>          ..
2020/03/21  10:26            2,319 activate
2020/03/21  10:26            881 activate.bat
2020/03/21  10:26            1,755 activate.ps1
2020/03/21  10:26            1,161 activate.xsh
2020/03/21  10:26            1,517 activate_this.py
2020/03/21  10:26            510 deactivate.bat
2020/03/21  10:25            93,054 easy_install-3.8.exe
2020/03/21  10:25            93,054 easy_install.exe
2020/03/21  10:25            93,045 pip.exe
2020/03/21  10:25            93,045 pip3.8.exe
2020/03/21  10:25            93,045 pip3.exe
2020/03/21  10:25            97,352 python.exe
2020/03/21  10:25            58,952 python3.dll
2020/03/21  10:25            3,916,872 python38.dll
2020/03/21  10:25            95,816 pythonw.exe
2020/03/21  10:25            93,032 wheel.exe
16 个文件          4,735,410 字节
2 个目录 147,242,569,728 可用字节
d:\CODE\PYTHON\003\MyVirEnv\Scripts>activate ③
(MyVirEnv) d:\CODE\PYTHON\003\MyVirEnv\Scripts>
```

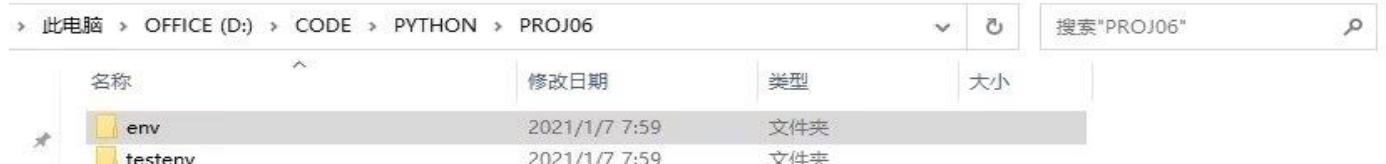
```
D:\CODE\PYTHON\PROJ02\MyVirtualEnv\Scripts>activate
(MyVirtualEnv) D:\CODE\PYTHON\PROJ02\MyVirtualEnv\Scripts>
```

```
管理员: 命令提示符
C:\Users\zhangrongchao\Desktop\MyProject>virtualenv MyVirEnv
Using base prefix 'c:\\program files\\python38'
New python executable in C:\Users\zhangrongchao\Desktop\MyProject\MyVirEnv\Scripts\python.exe
Installing setuptools, pip, wheel...
done.

C:\Users\zhangrongchao\Desktop\MyProject>cd MyVirEnv\Scripts
C:\Users\zhangrongchao\Desktop\MyProject\MyVirEnv\Scripts>activate
(MyVirEnv) C:\Users\zhangrongchao\Desktop\MyProject\MyVirEnv\Scripts>cd ..\..
(MyVirEnv) C:\Users\zhangrongchao\Desktop\MyProject>pip freeze > requirements.txt
Collecting pymongo==3.10.1
  Using cached pymongo-3.10.1-cp38-cp38-win_amd64.whl (355 kB)
Collecting PyMySQL==0.9.3
  Using cached PyMySQL-0.9.3-py2.py3-none-any.whl (47 kB)
Installing collected packages: pymongo, PyMySQL
Successfully installed PyMySQL-0.9.3 pymongo-3.10.1

(MyVirEnv) C:\Users\zhangrongchao\Desktop\MyProject>
```

python 3.4 或以上的版也可以使用 venv 命令来创建 python 虚拟环境，其功能与 virtualenv 等效。



此电脑 > OFFICE (D:) > CODE > PYTHON > PROJ06

名称	修改日期	类型
env	2021/1/7 7:59	文件夹
testenv	2021/1/7 7:59	文件夹

搜索"PROJ06"

```
管理员: Windows PowerShell
Windows PowerShell
版权所有 (C) Microsoft Corporation。保留所有权利。
从> 尝试新的跨平台 PowerShell https://aka.ms/pscore6

PS C:\Users\Administrator> CD D:\CODE\PYTHON\PROJ06
PS D:\CODE\PYTHON\PROJ06> python -m venv testenv
PS D:\CODE\PYTHON\PROJ06> python -m venv env
PS D:\CODE\PYTHON\PROJ06>
PS D:\CODE\PYTHON\PROJ06> ① python3.4及以上版本 venv新建虚拟环境。
```

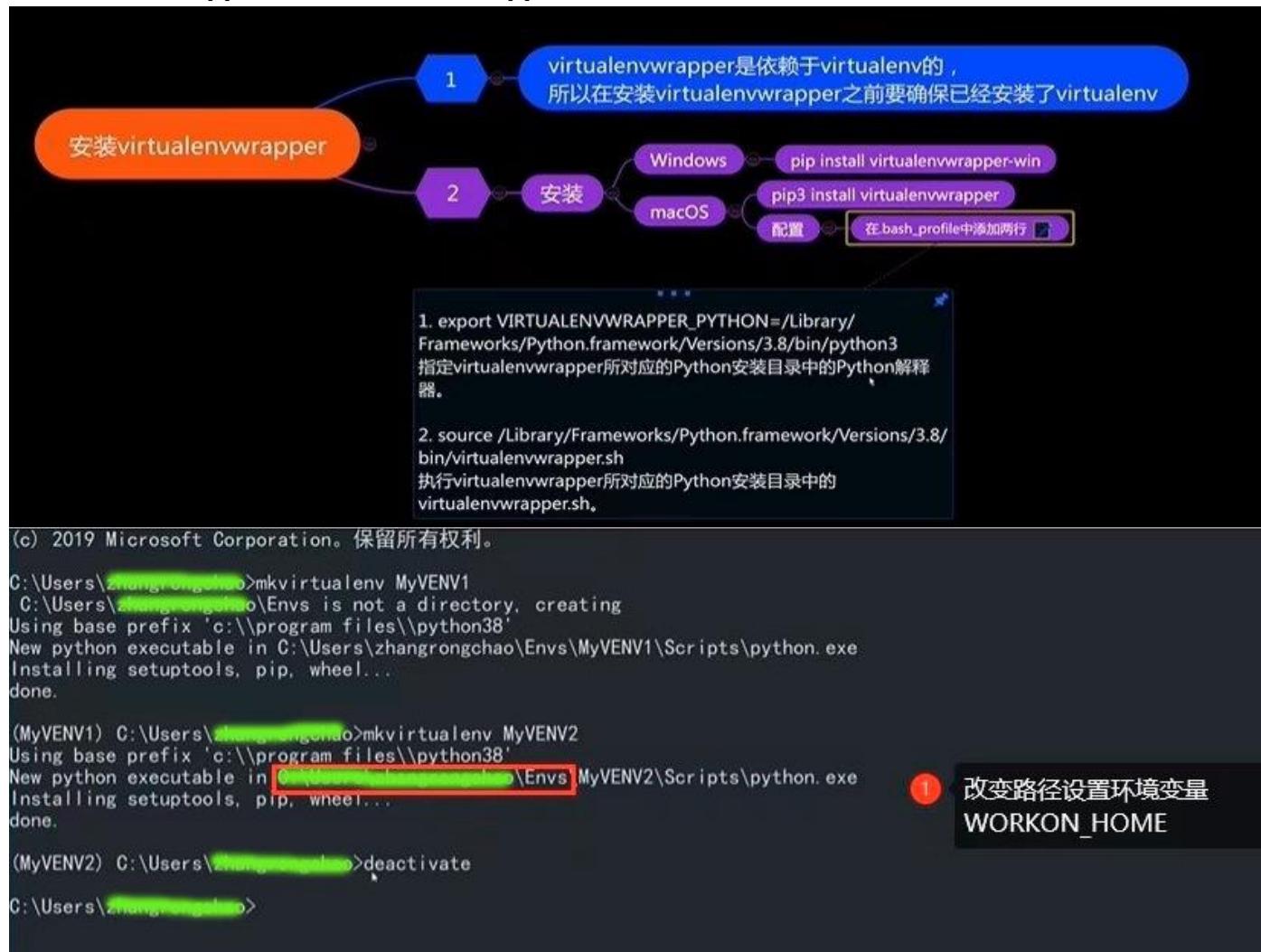
```
Microsoft Windows [版本 10.0.22000.376]
(c) Microsoft Corporation。保留所有权利。

C:\Users\Administrator>lsvirtualenv ① 查询创建的虚拟环境【并不准确】

dir /b /ad "D:\PROGRAMFILES\python-env"
=====

C:\Users\Administrator>
```

2.virtualenvwrapper-win(virtualenvwrapper)



Microsoft Windows [版本 10.0.18363.720]
(c) 2019 Microsoft Corporation。保留所有权利。

C:\Users\Administrator>lsvirtualenv

dir /b /ad "C:\Users\Administrator\Envs"

找不到文件

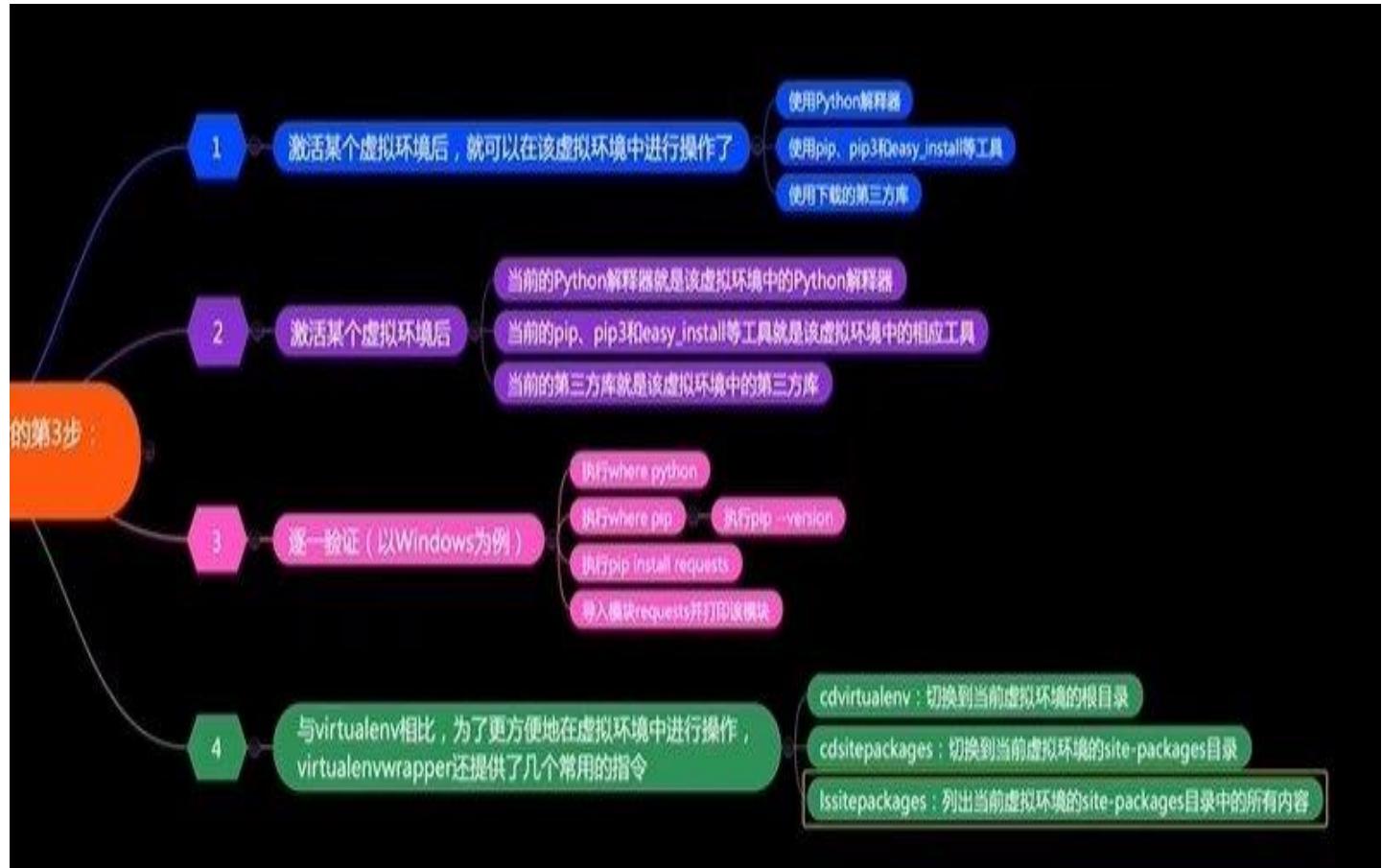
C:\Users\Administrator>workon

Pass a name to activate one of the following virtualenvs:

找不到文件

C:\Users\Administrator>





workon 虚拟环境名--激活虚拟环境， deactivate 退出虚拟环境

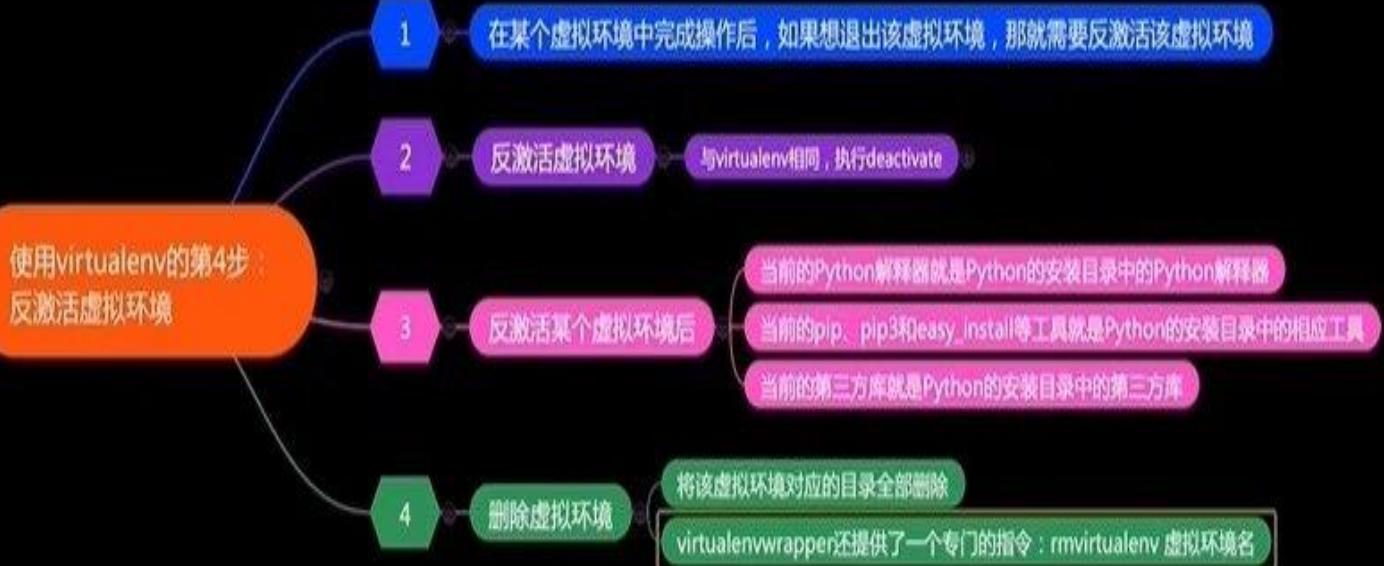
```

Microsoft Windows [版本 10.0.18363.592]
(c) 2019 Microsoft Corporation。保留所有权利。

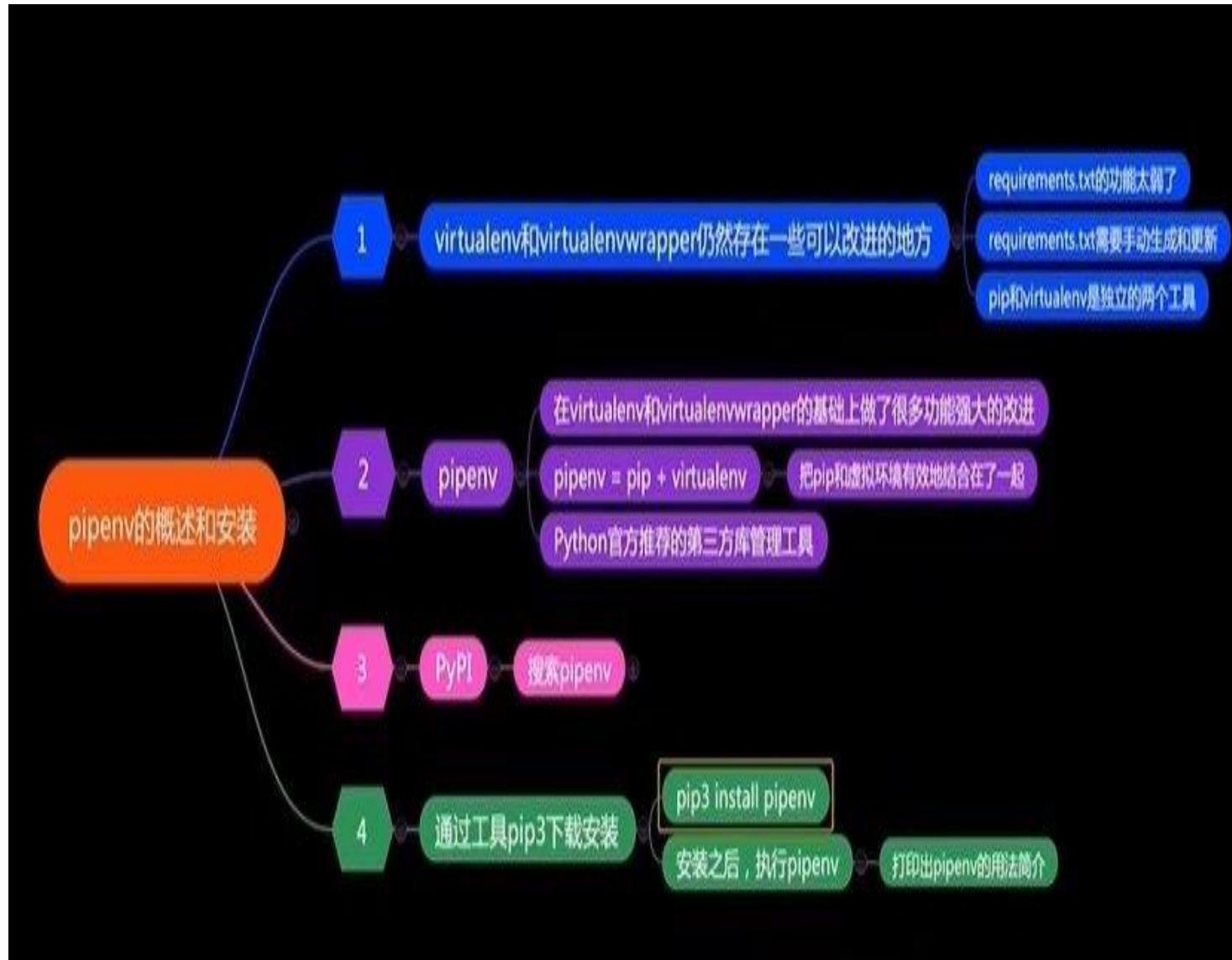
C:\WINDOWS\system32>workon MyENV3
(MyENV3) C:\Windows\System32>deactivate

C:\Windows\System32>

```



3.pipenv



```
*C:\Users\zhangrongchao\MyProject\Pipfile - Notepad++
文件(F) 编辑(E) 搜索(S) 视图(V) 编码(N) 语言(L) 设置(T) 工具(O) 宏(M) 运行(R) 插件(P) 窗口(W) ?
Pipfile
1 [[source]]
2 name = "pypi"
3 url = "https://pypi.tuna.tsinghua.edu.cn/simple/" ① 修改镜像地址为国内清华大学地址
4 verify_ssl = true
5
6 [dev-packages]
7
8 [packages]
9
10 [requires]
11 python_version = "3.8"
```

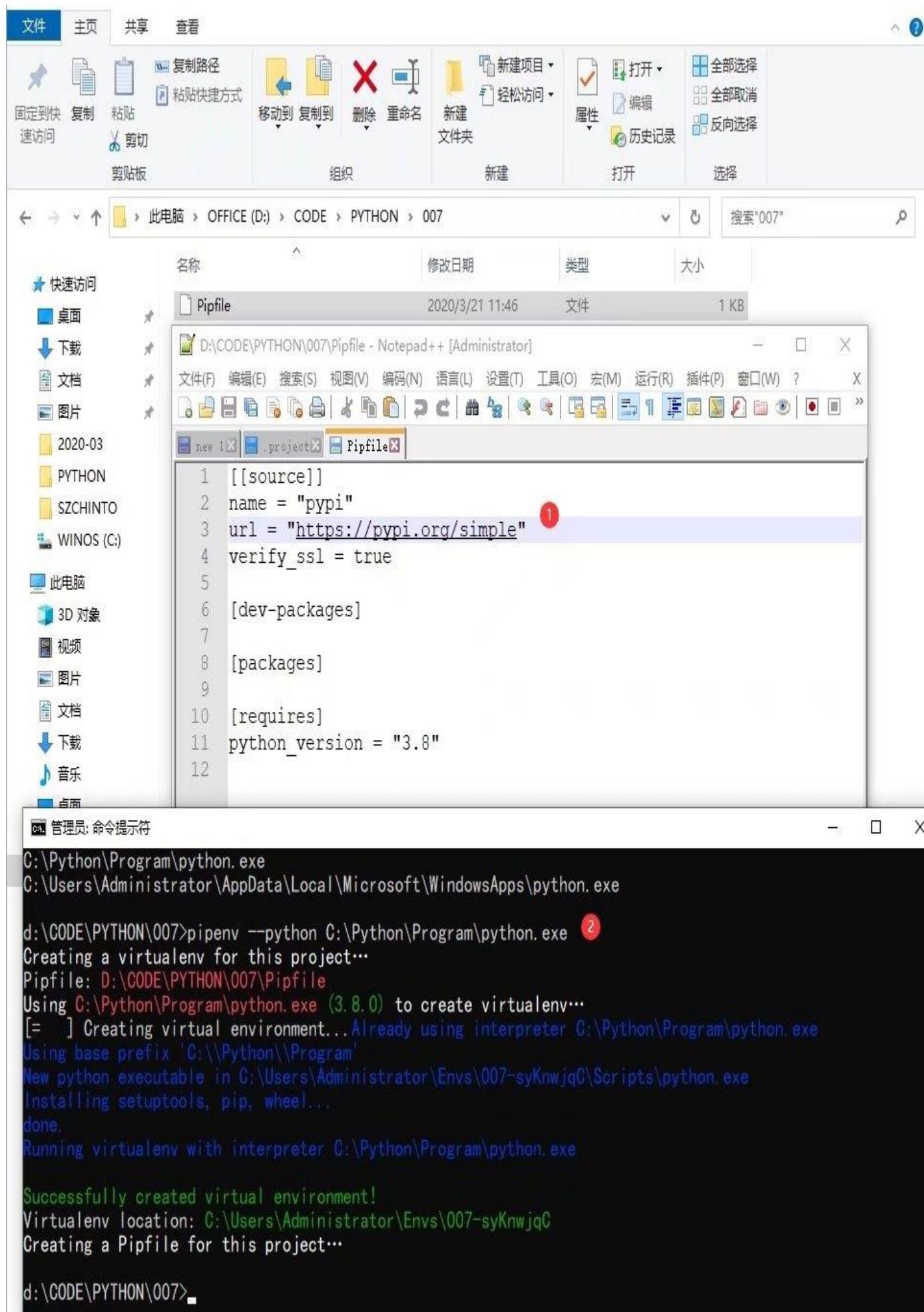
pipenv --python 版本号是从本地版本中创建

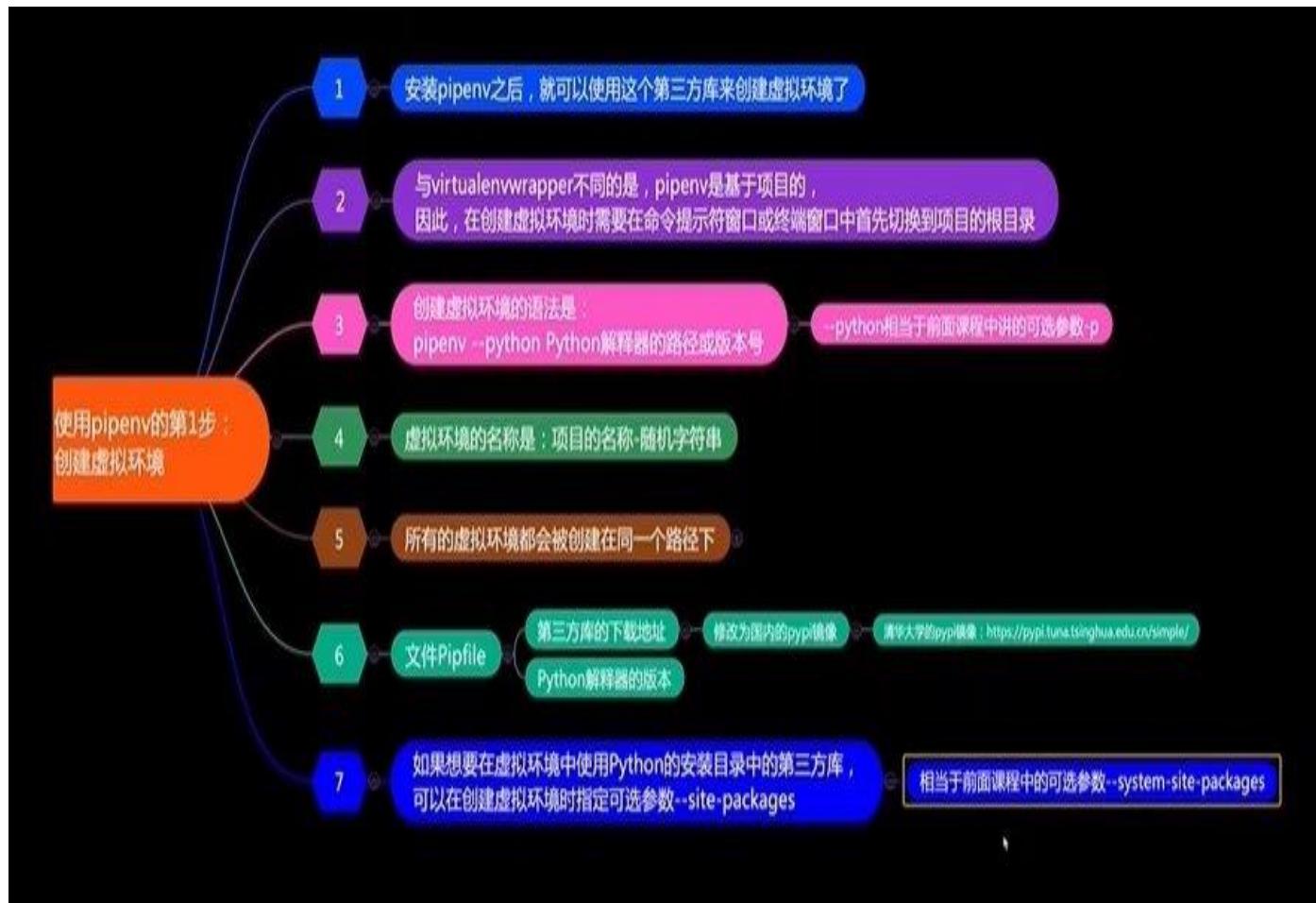
```
C:\Users\Administrator>pipenv --python 3.8 ↵
Creating a virtualenv for this project...
Pipfile: C:\Users\Administrator\Pipfile
Using C:/Python/Program/python.exe (3.8.0) to create virtualenv...
[=] Creating virtual environment... Already using interpreter C:\Python\Program\python.exe
Using base prefix 'C:\\Python\\Program'
New python executable in C:\Users\Administrator\Envs\Administrator-S9WHhKuh\Scripts\python.exe
Installing setuptools, pip, wheel...
done.
Running virtualenv with interpreter C:/Python/Program/python.exe

Successfully created virtual environment!
Virtualenv location: C:\Users\Administrator\Envs\Administrator-S9WHhKuh
Creating a Pipfile for this project...

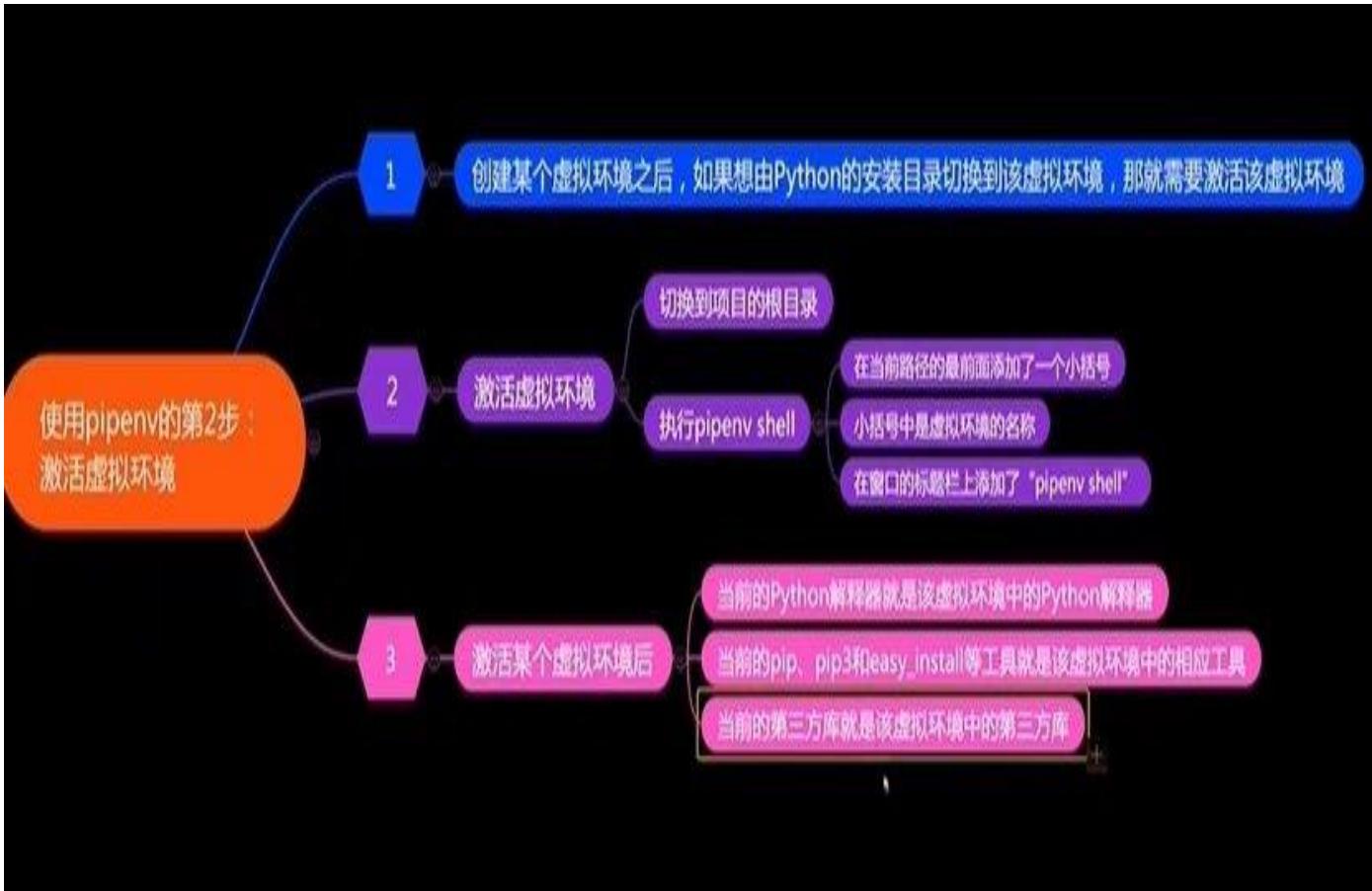
C:\Users\Administrator>
```

url="<https://pypi.tuna.tsinghua.edu.cn/simple>"





pipenv shell 激活虚拟环境，exit 离开虚拟环境



此电脑 > OFFICE (D:) > CODE > PYTHON > 007

名称	修改日期	类型	大小
Pipfile	2020/3/21 13:38	文件	1 KB
Pipfile.lock	2020/3/21 13:38	LOCK 文件	2 KB

D:\CODE\PYTHON\007\Pipfile.lock - Notepad++ [Administrator]

```

1 {
2     "_meta": {
3         "hash": {
4             "sha256": "feef8c0bc722c53554da9f74616ec06ee21a79e02418f130daeb24fb3
5                 3e1c616"
6         },
7         "pipfile-spec": 6,
8         "requires": {
9             "python_version": "3.6"
10            },
11         "sources": [
12             {
13                 "name": "pypi",
14                 "url": "https://pypi.tuna.tsinghua.edu.cn/simple",
15                 "verify_ssl": true
16             }
17         },
18         "default": {
19             "get": {
20                 "hashes": [
21                     {
22                         "sha256:688268840f923255932154a52bdd40ffac467de4126835
23                             c43846e9e6f112844c"
24                     ],
25                     "version": "==2019.4.13"
26                 }
27             }
28         }
29     }
30 }
```

Normal length: 1490 lines: 53 Ln: 1 Col: 1 Sel: 0 | 0 Unix (LF) UTF-8 INS

Create a lockfile containing pre-releases:
\$ pipenv lock --pre

Show a graph of your installed dependencies:
\$ pipenv graph

Check your installed dependencies for security vulnerabilities:
\$ pipenv check

Install a local setup.py into your virtual environment/Pipfile:
\$ pipenv install -e .

Use a lower-level pip command:
\$ pipenv run pip freeze

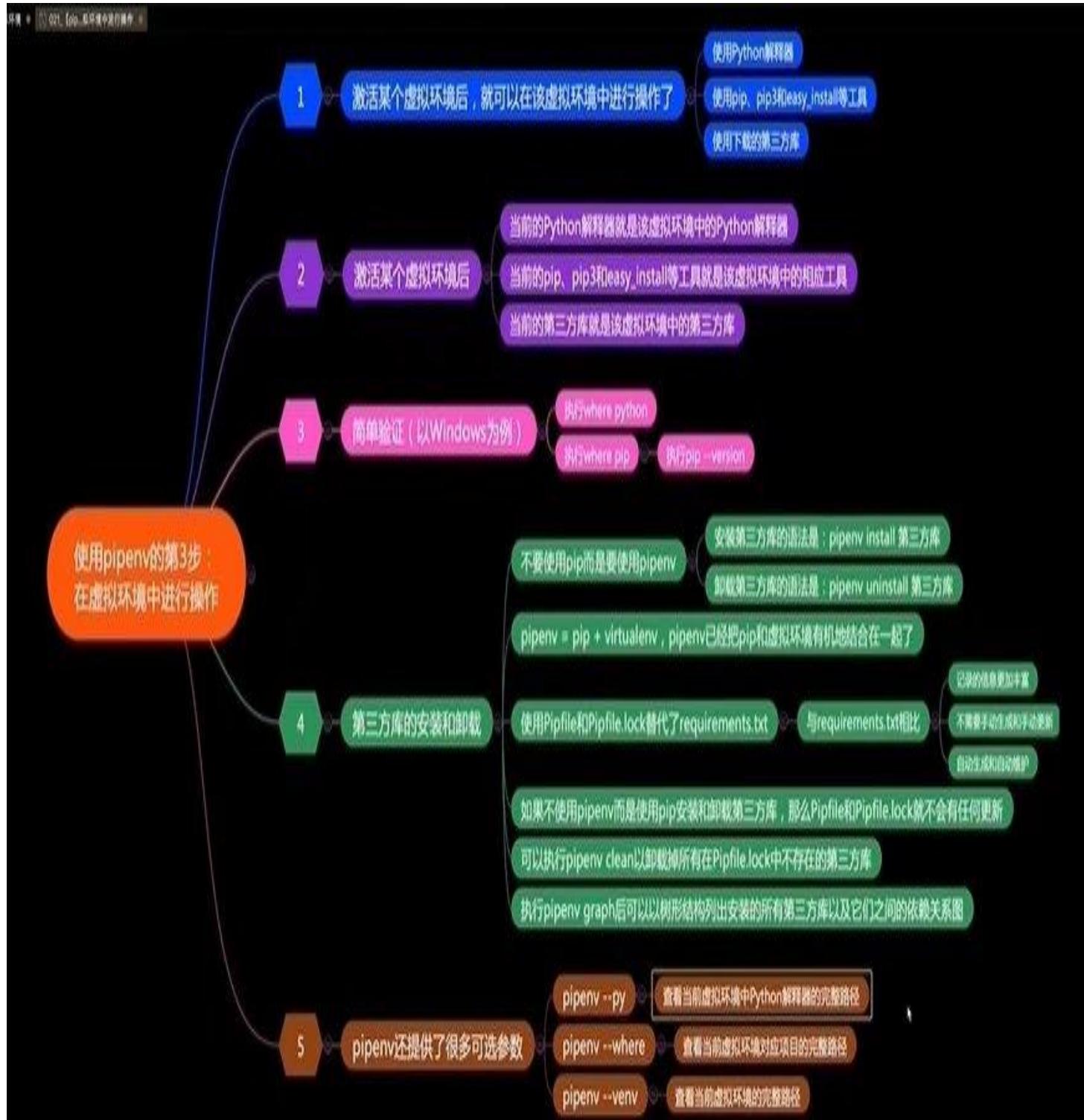
Commands:

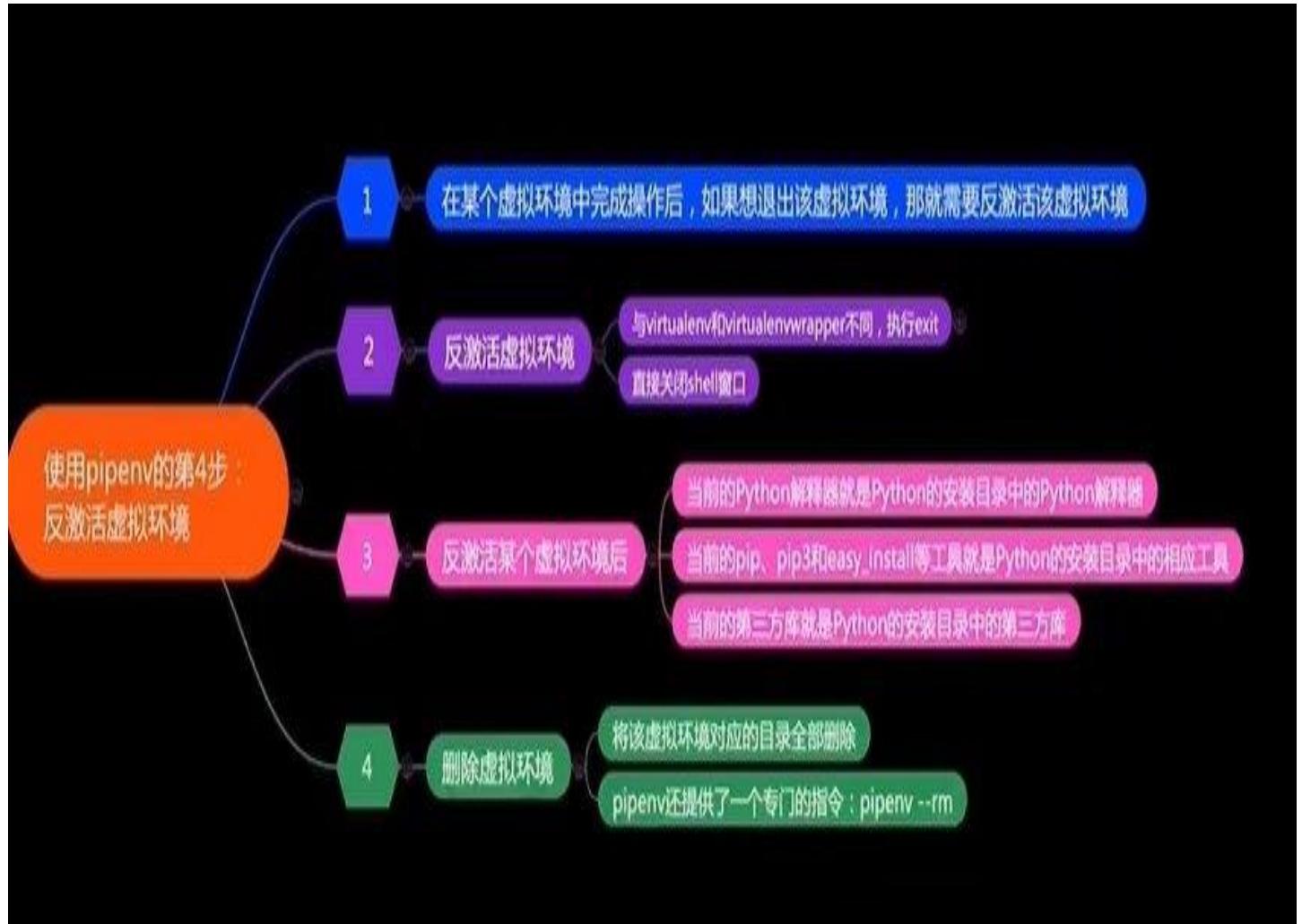
- check Checks for security vulnerabilities and against PEP 508 markers provided in Pipfile.
- clean Uninstalls all packages not specified in Pipfile.lock.
- graph Displays currently-installed dependency graph information.
- install Installs provided packages and adds them to Pipfile, or (if no packages are given), installs all packages from Pipfile.
- lock Generates Pipfile.lock.
- open View a given module in your editor.
- run Spawns a command installed into the virtualenv.
- shell Spawns a shell within the virtualenv.
- sync Installs all packages specified in Pipfile.lock.
- uninstall Un-installs a provided package and removes it from Pipfile.
- update Runs lock, then sync.

d:\CODE\PYTHON\007>pipenv shell
Launching subshell in virtual environment...
Microsoft Windows [版本 10.0.18363.720]
(c) 2019 Microsoft Corporation. 保留所有权利。 ①

(007-syKwjqC) d:\CODE\PYTHON\007>pipenv install request
Installing request...
Adding request to Pipfile's [packages]...
Installation Succeeded
Pipfile.lock not found, creating...
Locking [dev-packages] dependencies...
Locking [packages] dependencies...
Success!
Updated Pipfile.lock (e1c616)!
Installing dependencies from Pipfile.lock (e1c616)...
===== 5/5 - 00:00:02 ②

(007-syKwjqC) d:\CODE\PYTHON\007>





```

Microsoft Windows [版本 10.0.18363.592]
(c) 2019 Microsoft Corporation。保留所有权利。

C:\WINDOWS\system32>cd C:\Users\████████\Desktop\MyP1
C:\Users\████████\Desktop\MyP1>pipenv install --python 3.8
Creating a virtualenv for this project...
Pipfile: C:\Users\████████\Desktop\MyP1\Pipfile
Using C:/Program Files/Python38/python.exe (3.8.1) to create virtualenv...
[== ] Creating virtual environment... Already using interpreter C:\Program Files\Python38\python.exe
Using base prefix 'C:\Program Files\Python38'
New python executable in C:\Users\████████\MyVirEnv\MyP1-ewNaBP9D\Scripts\python.exe
Installing setuptools, pip, wheel...
done.
Running virtualenv with interpreter C:/Program Files/Python38/python.exe

Successfully created virtual environment!
Virtualenv location: C:\Users\████████\MyVirEnv\MyP1-ewNaBP9D
Installing dependencies from Pipfile.lock (2cabd8)...
===== 1/1 - 00:00:08
To activate this project's virtualenv, run pipenv shell.
Alternatively, run a command inside the virtualenv with pipenv run.

C:\Users\████████\Desktop\MyP1>pipenv shell
Launching subshell in virtual environment*.
Microsoft Windows [版本 10.0.18363.592]
(c) 2019 Microsoft Corporation。保留所有权利。
(MyP1-ewNaBP9D) C:\Users\████████\Desktop\MyP1>

```

pipfile 的内容

```
[[source]]  
name = "pypi"  
url = "https://pypi.tuna.tsinghua.edu.cn/simple"  
verify_ssl = true
```

```
[dev-packages]
```

```
[packages]
```

```
[requires]
```

```
python_version = "3.8"
```

4.poetry

poetry 与 pipenv 类似.支持打包上传功能，支持更强大更复杂的功能。

Poetry 安装

python install-poetry.py 或

python install-poetry.py --git <https://gitee.com/builderzou/poetry>

[install-poetry.py 文件内容]

```
=====
```

```
"""
```

This script will install Poetry and its dependencies.

It does, in order:

- Downloads the virtualenv package to a temporary directory and add it to sys.path.
- Creates a virtual environment in the correct OS data dir which will be
 - `%APPDATA%\pypoetry` on Windows
 - `~/Library/Application Support/pypoetry` on MacOS
 - `\${XDG_DATA_HOME}/pypoetry` (or `~/.local/share/pypoetry` if it's not set) on UNIX systems
 - In `\${POETRY_HOME}` if it's set.
- Installs the latest or given version of Poetry inside this virtual environment.
- Installs a `poetry` script in the Python user directory (or `\${POETRY_HOME}/bin` if `POETRY_HOME` is set).

```
"""
```

```
import argparse
import json
import os
import re
import shutil
import site
import subprocess
import sys
import tempfile

from contextlib import closing
from contextlib import contextmanager
from functools import cmp_to_key
from io import UnsupportedOperation
from pathlib import Path
from typing import Optional
```

```
from urllib.request import Request
from urllib.request import urlopen

SHELL = os.getenv("SHELL", "")
WINDOWS = sys.platform.startswith("win") or (sys.platform == "cli" and os.name == "nt")
MACOS = sys.platform == "darwin"

FOREGROUND_COLORS = {
    "black": 30,
    "red": 31,
    "green": 32,
    "yellow": 33,
    "blue": 34,
    "magenta": 35,
    "cyan": 36,
    "white": 37,
}

BACKGROUND_COLORS = {
    "black": 40,
    "red": 41,
    "green": 42,
    "yellow": 43,
    "blue": 44,
    "magenta": 45,
    "cyan": 46,
    "white": 47,
}

OPTIONS = {"bold": 1, "underscore": 4, "blink": 5, "reverse": 7, "conceal": 8}

def style(fg, bg, options):
    codes = []

    if fg:
        codes.append(FOREGROUND_COLORS[fg])

    if bg:
        codes.append(BACKGROUND_COLORS[bg])

    if options:
        codes.append(OPTIONS[options])

    return codes
```

```
    codes.append(BACKGROUND_COLORS[bg])

    if options:
        if not isinstance(options, (list, tuple)):
            options = [options]

        for option in options:
            codes.append(OPTIONS[option])

    return "\033[{}m".format(":".join(map(str, codes)))
```

```
STYLES = {
    "info": style("cyan", None, None),
    "comment": style("yellow", None, None),
    "success": style("green", None, None),
    "error": style("red", None, None),
    "warning": style("yellow", None, None),
    "b": style(None, None, ("bold",)),
}
```

```
def is_decorated():
    if WINDOWS:
        return (
            os.getenv("ANSICON") is not None
            or "ON" == os.getenv("ConEmuANSI")
            or "xterm" == os.getenv("Term")
        )
```

```
if not hasattr(sys.stdout, "fileno"):
    return False
```

```
try:
    return os.isatty(sys.stdout.fileno())
except UnsupportedOperation:
    return False
```

```
def is_interactive():
```

```
if not hasattr(sys.stdin, "fileno"):
    return False

try:
    return os.isatty(sys.stdin.fileno())
except UnsupportedOperation:
    return False

def colorize(style, text):
    if not is_decorated():
        return text

    return "{}\033[0m".format(STYLES[style], text)

def string_to_bool(value):
    value = value.lower()

    return value in {"true", "1", "y", "yes"}

def data_dir(version: Optional[str] = None) -> Path:
    if os.getenv("POETRY_HOME"):
        return Path(os.getenv("POETRY_HOME")).expanduser()

    if WINDOWS:
        const = "CSIDL_APPDATA"
        path = os.path.normpath(_get_win_folder(const))
        path = os.path.join(path, "pypoetry")
    elif MACOS:
        path = os.path.expanduser("~/Library/Application Support/pypoetry")
    else:
        path = os.getenv("XDG_DATA_HOME", os.path.expanduser("~/local/share"))
        path = os.path.join(path, "pypoetry")

    if version:
        path = os.path.join(path, version)

    return Path(path)
```

```
def bin_dir(version: Optional[str] = None) -> Path:
    if os.getenv("POETRY_HOME"):
        return Path(os.getenv("POETRY_HOME"), "bin").expanduser()

    user_base = site.getuserbase()

    if WINDOWS:
        bin_dir = os.path.join(user_base, "Scripts")
    else:
        bin_dir = os.path.join(user_base, "bin")

    return Path(bin_dir)

def _get_win_folder_from_registry(csidl_name):
    import winreg as _winreg

    shell_folder_name = {
        "CSIDL_APPDATA": "AppData",
        "CSIDL_COMMON_APPDATA": "Common AppData",
        "CSIDL_LOCAL_APPDATA": "Local AppData",
    }[csidl_name]

    key = _winreg.OpenKey(
        _winreg.HKEY_CURRENT_USER,
        r"Software\Microsoft\Windows\CurrentVersion\Explorer\Shell Folders",
    )
    dir, type = _winreg.QueryValueEx(key, shell_folder_name)

    return dir

def _get_win_folder_with_ctypes(csidl_name):
    import ctypes

    csidl_const = {
        "CSIDL_APPDATA": 26,
        "CSIDL_COMMON_APPDATA": 35,
```

```

    "CSIDL_LOCAL_APPDATA": 28,
}[csidl_name]

buf = ctypes.create_unicode_buffer(1024)
ctypes.windll.shell32.SHGetFolderPathW(None, csidl_const, None, 0, buf)

# Downgrade to short path name if have highbit chars. See
# <"" target="_blank">http://bugs.activestate.com/show\_bug.cgi?id=85099>;
has_high_char = False
for c in buf:
    if ord(c) > 255:
        has_high_char = True
        break
if has_high_char:
    buf2 = ctypes.create_unicode_buffer(1024)
    if ctypes.windll.kernel32.GetShortPathNameW(buf.value, buf2, 1024):
        buf = buf2

return buf.value

if WINDOWS:
    try:
        from ctypes import windll # noqa

        _get_win_folder = _get_win_folder_with_ctypes
    except ImportError:
        _get_win_folder = _get_win_folder_from_registry

@contextmanager
def temporary_directory(*args, **kwargs):
    try:
        from tempfile import TemporaryDirectory
    except ImportError:
        name = tempfile.mkdtemp(*args, **kwargs)

    yield name

    shutil.rmtree(name)

```

```
else:  
    with TemporaryDirectory(*args, **kwargs) as name:  
        yield name
```

PRE_MESSAGE = """# Welcome to {poetry}!

This will download and install the latest version of {poetry},
a dependency and package manager for Python.

It will add the `poetry` command to {poetry}'s bin directory, located at:

{poetry_home_bin}

You can uninstall at any time by executing this script with the --uninstall option,
and these changes will be reverted.

"""

POST_MESSAGE = """{poetry} ({version}) is installed now. Great!

You can test that everything is set up by executing:

`{test_command}`

"""

POST_MESSAGE_NOT_IN_PATH = """{poetry} ({version}) is installed now. Great!

To get started you need {poetry}'s bin directory ({poetry_home_bin}) in your `PATH`
environment variable.

{configure_message}

Alternatively, you can call {poetry} explicitly with `{poetry_executable}`.

You can test that everything is set up by executing:

`{test_command}`

"""

POST_MESSAGE_CONFIGURE_UNIX = """

Add `export PATH="{poetry_home_bin}:\$PATH` to your shell configuration file.

"""

```
POST_MESSAGE_CONFIGURE_FISH = """
You can execute `set -U fish_user_paths {poetry_home_bin} $fish_user_paths`"
"""

POST_MESSAGE_CONFIGURE_WINDOWS = "*****"

class Cursor:
    def __init__(self) -> None:
        self._output = sys.stdout

    def move_up(self, lines: int = 1) -> "Cursor":
        self._output.write("\x1b[{}A".format(lines))

        return self

    def move_down(self, lines: int = 1) -> "Cursor":
        self._output.write("\x1b[{}B".format(lines))

        return self

    def move_right(self, columns: int = 1) -> "Cursor":
        self._output.write("\x1b[{}C".format(columns))

        return self

    def move_left(self, columns: int = 1) -> "Cursor":
        self._output.write("\x1b[{}D".format(columns))

        return self

    def move_to_column(self, column: int) -> "Cursor":
        self._output.write("\x1b[{}G".format(column))

        return self

    def move_to_position(self, column: int, row: int) -> "Cursor":
        self._output.write("\x1b[{};{}H".format(row + 1, column))
```

```
    return self

def save_position(self) -> "Cursor":
    self._output.write("\x1b7")

    return self

def restore_position(self) -> "Cursor":
    self._output.write("\x1b8")

    return self

def hide(self) -> "Cursor":
    self._output.write("\x1b[?25l")

    return self

def show(self) -> "Cursor":
    self._output.write("\x1b[?25h\x1b[?0c")

    return self

def clear_line(self) -> "Cursor":
    """
    Clears all the output from the current line.
    """
    self._output.write("\x1b[2K")

    return self

def clear_line_after(self) -> "Cursor":
    """
    Clears all the output from the current line after the current position.
    """
    self._output.write("\x1b[K")

    return self

def clear_output(self) -> "Cursor":
    """
```

```

    Clears all the output from the cursors' current position
    to the end of the screen.

    """
    self._output.write("\x1b[0J"]

    return self

def clear_screen(self) -> "Cursor":
    """
    Clears the entire screen.

    """
    self._output.write("\x1b[2J"]

    return self

class Installer:
    METADATA_URL = "https://pypi.org/pypi/poetry/json"
    VERSION_REGEX = re.compile(
        r"v?(\\d+)(?:\\.\\(\\d+\\))?(?:\\.\\(\\d+\\))?(?:\\.\\(\\d+\\))?"
        "("
        "[_.-]?"
        r"(?:stable|beta|b|rc|RC|alpha|a|patch|pl|p)((?:[_.-]?\\d+)*?)?"
        "(?:[_.-]?dev)?"
        ")?"
        r"(?:\\+[^\s]+)?"
    )

    def __init__(
        self,
        version: Optional[str] = None,
        preview: bool = False,
        force: bool = False,
        accept_all: bool = False,
        git: Optional[str] = None,
        path: Optional[str] = None,
    ) -> None:
        self._version = version
        self._preview = preview
        self._force = force

```

```

self._accept_all = accept_all
self._git = git
self._path = path
self._data_dir = data_dir()
self._bin_dir = bin_dir()
self._cursor = Cursor()

def allows_prereleases(self) -> bool:
    return self._preview

def run(self) -> int:
    if self._git:
        version = self._git
    elif self._path:
        version = self._path
    else:
        version, current_version = self.get_version()

    if version is None:
        return 0

    self.display_pre_message()
    self.ensure_directories()

    def _is_self_upgrade_supported(x):
        mx = self.VERSION_REGEX.match(x)

        if mx is None:
            # the version is not semver, perhaps scm or file, we assume upgrade is supported
            return True

        vx = tuple(int(p) for p in mx.groups()[:3]) + (mx.group(5),)
        return vx >= (1, 1, 7)

    if version and not _is_self_upgrade_supported(version):
        self._write(
            colorize(
                "warning",
                f"You are installing {version}. When using the current installer, this version does not
support "
            )
        )

```

```

        f"updating using the 'self update' command. Please use 1.1.7 or later.",
    )
)
if not self._accept_all:
    continue_install = input("Do you want to continue? ([y]/n) ") or "y"
    if continue_install.lower() in {"n", "no"}:
        return 0

try:
    self.install(version)
except subprocess.CalledProcessError as e:
    print(
        colorize("error", f"\nAn error has occurred: {e}\n{e.stderr.decode()}")
    )

    return e.returncode

self._write("")
self.display_post_message(version)

return 0

def install(self, version, upgrade=False):
    """
    Installs Poetry in $POETRY_HOME.
    """

    self._write(
        "Installing {} ({})".format(
            colorize("info", "Poetry"), colorize("info", version)
        )
    )

    env_path = self.make_env(version)
    self.install_poetry(version, env_path)
    self.make_bin(version)

    self._overwrite(
        "Installing {} ({})".format(
            colorize("info", "Poetry"),
            colorize("b", version),
        )
    )

```

```

        colorize("success", "Done"),
    )
)

self._data_dir.joinpath("VERSION").write_text(version)

return 0

def uninstall(self) -> int:
    if not self._data_dir.exists():
        self._write(
            "{} is not currently installed.".format(colorize("info", "Poetry"))
        )

    return 1

version = None
if self._data_dir.joinpath("VERSION").exists():
    version = self._data_dir.joinpath("VERSION").read_text().strip()

if version:
    self._write(
        "Removing {} ({}).format(
            colorize("info", "Poetry"), colorize("b", version)
        )
    )
else:
    self._write("Removing {}".format(colorize("info", "Poetry")))

shutil.rmtree(str(self._data_dir))
for script in ["poetry", "poetry.bat"]:
    if self._bin_dir.joinpath(script).exists():
        self._bin_dir.joinpath(script).unlink()

return 0

def make_env(self, version: str) -> Path:
    self._overwrite(
        "Installing {} ({}): {}".format(
            colorize("info", "Poetry"),

```

```
        colorize("b", version),
        colorize("comment", "Creating environment"),
    )
)

env_path = self._data_dir.joinpath("venv")

with temporary_directory() as tmp_dir:
    subprocess.call(
        [sys.executable, "-m", "pip", "install", "virtualenv", "-t", tmp_dir],
        stdout=subprocess.PIPE,
        stderr=subprocess.STDOUT,
    )

    sys.path.insert(0, tmp_dir)

import virtualenv

virtualenv.cli_run([str(env_path), "--clear"])

return env_path

def make_bin(self, version: str) -> None:
    self._overwrite(
        "Installing {} ({})".format(
            colorize("info", "Poetry"),
            colorize("b", version),
            colorize("comment", "Creating script"),
        )
    )

    self._bin_dir.mkdir(parents=True, exist_ok=True)

    script = "poetry"
    target_script = "venv/bin/poetry"
    if WINDOWS:
        script = "poetry.exe"
        target_script = "venv/Scripts/poetry.exe"

    if self._bin_dir.joinpath(script).exists():
```

```

        self._bin_dir.joinpath(script).unlink()

try:
    self._bin_dir.joinpath(script).symlink_to(
        self._data_dir.joinpath(target_script)
    )
except OSError:
    # This can happen if the user
    # does not have the correct permission on Windows
    shutil.copy(
        self._data_dir.joinpath(target_script), self._bin_dir.joinpath(script)
    )

def install_poetry(self, version: str, env_path: Path) -> None:
    self._overwrite(
        "Installing {} ({})".format(
            colorize("info", "Poetry"),
            colorize("b", version),
            colorize("comment", "Installing Poetry"),
        )
    )

if WINDOWS:
    python = env_path.joinpath("Scripts/python.exe")
else:
    python = env_path.joinpath("bin/python")

if self._git:
    specification = "git+" + version
elif self._path:
    specification = version
else:
    specification = f"poetry=={version}"

subprocess.run(
    [str(python), "-m", "pip", "install", specification],
    stdout=subprocess.PIPE,
    stderr=subprocess.STDOUT,
    check=True,
)

```

```
def display_pre_message(self) -> None:
    kwargs = {
        "poetry": colorize("info", "Poetry"),
        "poetry_home_bin": colorize("comment", self._bin_dir),
    }
    self._write(PRE_MESSAGE.format(**kwargs))

def display_post_message(self, version: str) -> None:
    if WINDOWS:
        return self.display_post_message_windows(version)

    if SHELL == "fish":
        return self.display_post_message_fish(version)

    return self.display_post_message_unix(version)

def display_post_message_windows(self, version: str) -> None:
    path = self.get_windows_path_var()

    message = POST_MESSAGE_NOT_IN_PATH
    if path and str(self._bin_dir) in path:
        message = POST_MESSAGE

    self._write(
        message.format(
            poetry=colorize("info", "Poetry"),
            version=colorize("b", version),
            poetry_home_bin=colorize("comment", self._bin_dir),
            poetry_executable=colorize("b", self._bin_dir.joinpath("poetry")),
            configure_message=POST_MESSAGE_CONFIGURE_WINDOWS.format(
                poetry_home_bin=colorize("comment", self._bin_dir)
            ),
            test_command=colorize("b", "poetry --version"),
        )
    )

def get_windows_path_var(self) -> Optional[str]:
    import winreg
```

```

with winreg.ConnectRegistry(None, winreg.HKEY_CURRENT_USER) as root:
    with winreg.OpenKey(root, "Environment", 0, winreg.KEY_ALL_ACCESS) as key:
        path, _ = winreg.QueryValueEx(key, "PATH")

    return path

def display_post_message_fish(self, version: str) -> None:
    fish_user_paths = subprocess.check_output(
        ["fish", "-c", "echo $fish_user_paths"]
    ).decode("utf-8")

    message = POST_MESSAGE_NOT_IN_PATH
    if fish_user_paths and str(self._bin_dir) in fish_user_paths:
        message = POST_MESSAGE

    self._write(
        message.format(
            poetry=colorize("info", "Poetry"),
            version=colorize("b", version),
            poetry_home_bin=colorize("comment", self._bin_dir),
            poetry_executable=colorize("b", self._bin_dir.joinpath("poetry")),
            configure_message=POST_MESSAGE_CONFIGURE_FISH.format(
                poetry_home_bin=colorize("comment", self._bin_dir)
            ),
            test_command=colorize("b", "poetry --version"),
        )
    )
)

def display_post_message_unix(self, version: str) -> None:
    paths = os.getenv("PATH", "").split(":")

    message = POST_MESSAGE_NOT_IN_PATH
    if paths and str(self._bin_dir) in paths:
        message = POST_MESSAGE

    self._write(
        message.format(
            poetry=colorize("info", "Poetry"),
            version=colorize("b", version),
            poetry_home_bin=colorize("comment", self._bin_dir),
        )
    )
)

```

```

        poetry_executable=colorize("b", self._bin_dir.joinpath("poetry")),
        configure_message=POST_MESSAGE_CONFIGURE_UNIX.format(
            poetry_home_bin=colorize("comment", self._bin_dir)
        ),
        test_command=colorize("b", "poetry --version"),
    )
)

def ensure_directories(self) -> None:
    self._data_dir.mkdir(parents=True, exist_ok=True)
    self._bin_dir.mkdir(parents=True, exist_ok=True)

def get_version(self):
    current_version = None
    if self._data_dir.joinpath("VERSION").exists():
        current_version = self._data_dir.joinpath("VERSION").read_text().strip()

    self._write(colorize("info", "Retrieving Poetry metadata"))

    metadata = json.loads(self._get(self.METADATA_URL).decode())

    def _compare_versions(x, y):
        mx = self.VERSION_REGEX.match(x)
        my = self.VERSION_REGEX.match(y)

        vx = tuple(int(p) for p in mx.groups()[:3]) + (mx.group(5),)
        vy = tuple(int(p) for p in my.groups()[:3]) + (my.group(5),)

        if vx < vy:
            return -1
        elif vx > vy:
            return 1

        return 0

    self._write("")
    releases = sorted(
        metadata["releases"].keys(), key=cmp_to_key(_compare_versions)
    )

```

```
if self._version and self._version not in releases:
    self._write(
        colorize("error", "Version {} does not exist.".format(self._version))
    )

    return None, None

version = self._version
if not version:
    for release in reversed(releases):
        m = self.VERSION_REGEX.match(release)
        if m.group(5) and not self.allows_prereleases():
            continue

        version = release

        break

if current_version == version and not self._force:
    self._write(
        "The latest version ({}) is already installed.".format(
            colorize("b", version)
        )
    )

return None, current_version

return version, current_version

def _write(self, line) -> None:
    sys.stdout.write(line + "\n")

def _overwrite(self, line) -> None:
    if not is_decorated():
        return self._write(line)

    self._cursor.move_up()
    self._cursor.clear_line()
    self._write(line)
```

```
def _get(self, url):
    request = Request(url, headers={"User-Agent": "Python Poetry"})

    with closing(urlopen(request)) as r:
        return r.read()

def main():
    parser = argparse.ArgumentParser(
        description="Installs the latest (or given) version of poetry"
    )
    parser.add_argument(
        "-p",
        "--preview",
        help="install preview version",
        dest="preview",
        action="store_true",
        default=False,
    )
    parser.add_argument("--version", help="install named version", dest="version")
    parser.add_argument(
        "-f",
        "--force",
        help="install on top of existing version",
        dest="force",
        action="store_true",
        default=False,
    )
    parser.add_argument(
        "-y",
        "--yes",
        help="accept all prompts",
        dest="accept_all",
        action="store_true",
        default=False,
    )
    parser.add_argument(
        "--uninstall",
        help="uninstall poetry",
        dest="uninstall",
    )
```

```

        action="store_true",
        default=False,
    )
parser.add_argument(
    "--path",
    dest="path",
    action="store",
    help=(
        "Install from a given path (file or directory) instead of "
        "fetching the latest version of Poetry available online."
    ),
)
parser.add_argument(
    "--git",
    dest="git",
    action="store",
    help=(
        "Install from a git repository instead of fetching the latest version "
        "of Poetry available online."
    ),
)
args = parser.parse_args()

installer = Installer(
    version=args.version or os.getenv("POETRY_VERSION"),
    preview=args.preview or string_to_bool(os.getenv("POETRY_PREVIEW", "0")),
    force=args.force,
    accept_all=args.accept_all
    or string_to_bool(os.getenv("POETRY_ACCEPT", "0"))
    or not is_interactive(),
    path=args.path,
    git=args.git,
)
if args.uninstall or string_to_bool(os.getenv("POETRY_UNINSTALL", "0")):
    return installer.uninstall()

return installer.run()

```

```
if __name__ == "__main__":
    sys.exit(main())

=====
```

toml 文件增加

```
[[tool.poetry.source]]
name = "aliyun"
url = "https://mirrors.aliyun.com/pypi/simple/"
poetry init
poetry install
poetry shell
```

```
poetry show -t #以树状显示包的依赖关系
poetry config --list
```

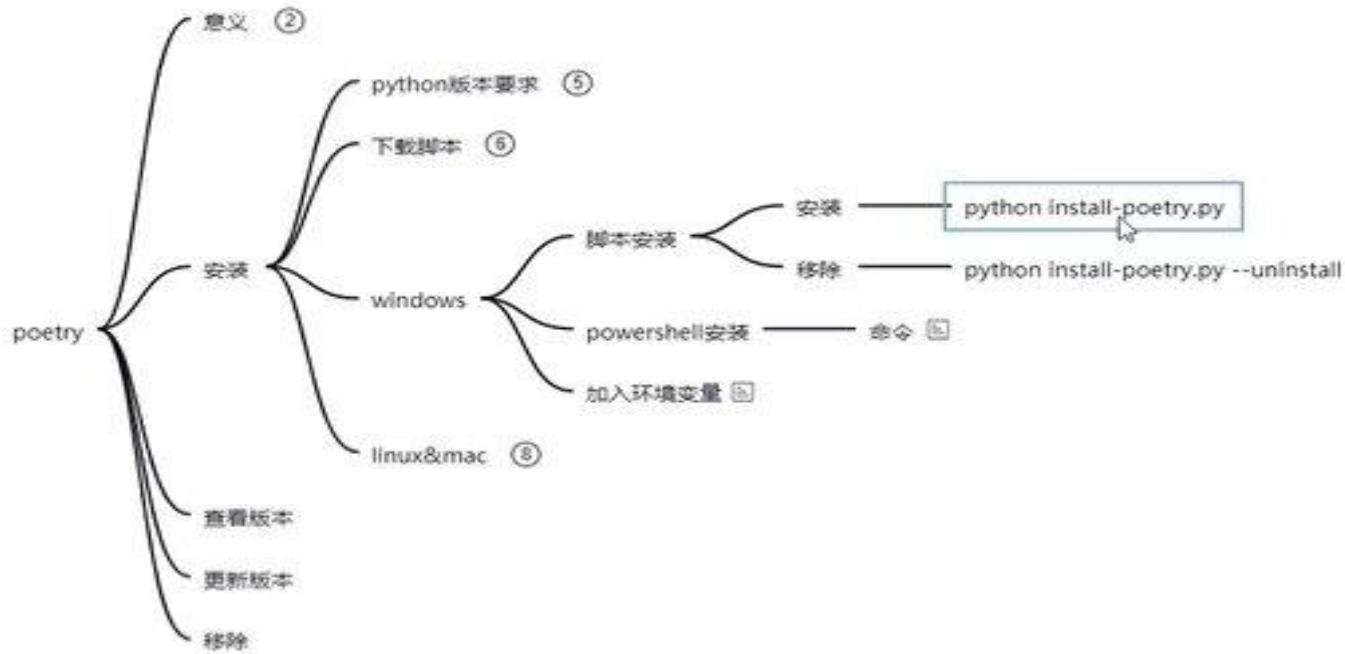
卸载



A screenshot of a Windows Command Prompt window titled '卸载'. The window shows the following text:

```
问题  输出  转到  命令控制台
PS D:\授课\思维导图解python项目依赖包管理与打包> python .\install-poetry.py --uninstall
Removing Poetry (1.1.7)
```

The command `python .\install-poetry.py --uninstall` is highlighted with a red rectangle, and a red arrow points to the right side of the command line.



```

# .bashrc

# User specific aliases and functions

alias rm='rm -i'
alias cp='cp -i'
alias mv='mv -i'

# Source global definitions
if [ -f /etc/bashrc ]; then
    . /etc/bashrc
fi

export PYENV_ROOT="$HOME/.pyenv"
export PATH="$PYENV_ROOT/bin:$PATH"
eval "$(pyenv init --path)"

if command -v pyenv >/dev/null; then
    eval "$(pyenv init -)"
fi

export PATH="/root/.local/bin:$PATH"

```

Poetry 安装包 [poetry add]

```
D:\PycharmProjects\django_1_demo>poetry add django@^1.11
Creating virtualenv django-1-demo-IPAAjW9z-py3.8 in C:\Users\win10\AppData\Local\pypoetry\Cache\virtualenvs
Updating dependencies
Resolving dependencies...

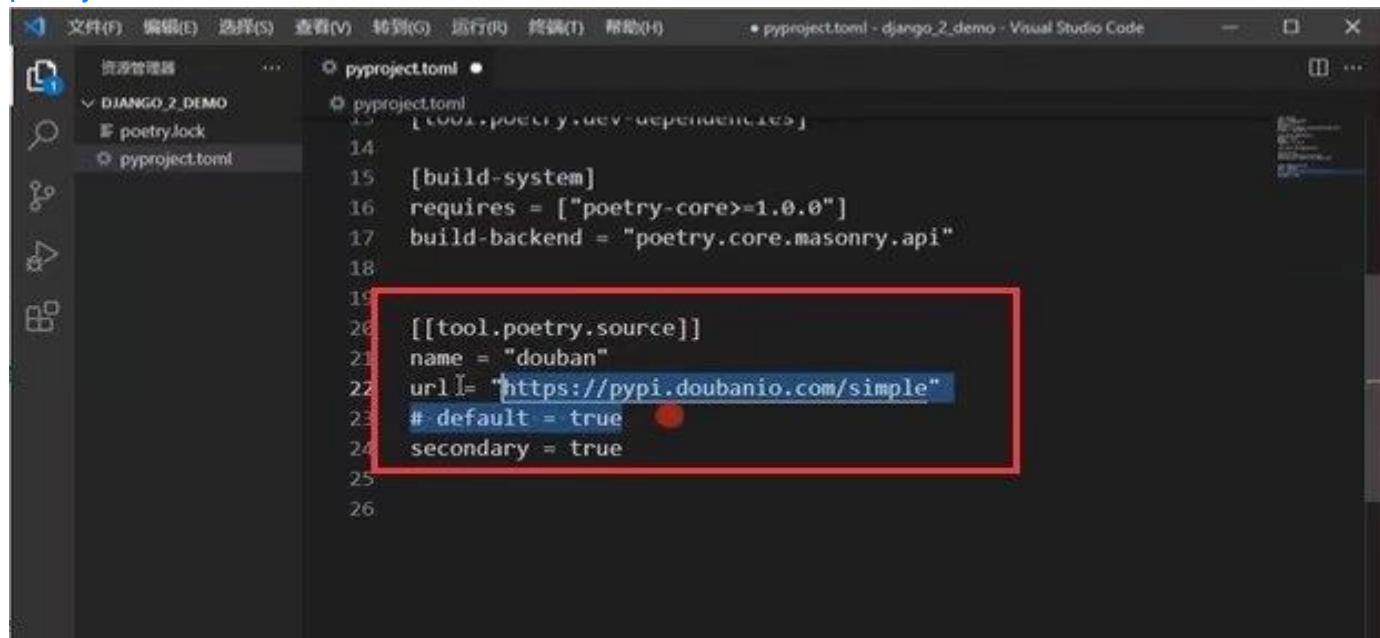
Writing lock file

Package operations: 2 installs, 0 updates, 0 removals

  • Installing pytz (2021.1)
  • Installing django (1.11)

D:\PycharmProjects\django_1_demo>
D:\PycharmProjects\django_1_demo>
D:\PycharmProjects\django_1_demo>
```

poetry 更改国内的豆瓣安装源



```
文件(F) 编辑(E) 选择(S) 查看(V) 转到(G) 运行(R) 其他(T) 帮助(H) * pyproject.toml - django_2_demo - Visual Studio Code
资源管理器 ... pyproject.toml ●
DJANGO_2_DEMO ...
poetry.lock
pyproject.toml
13 [[tool.poetry.dependencies]]
14
15 [build-system]
16 requires = ["poetry-core>=1.0.0"]
17 build-backend = "poetry.core.masonry.api"
18
19
20 [[tool.poetry.source]]
21 name = "douban"
22 url = "https://pypi.doubanio.com/simple"
23 # default = true
24 secondary = true
25
26
```

poetry run 运行命令

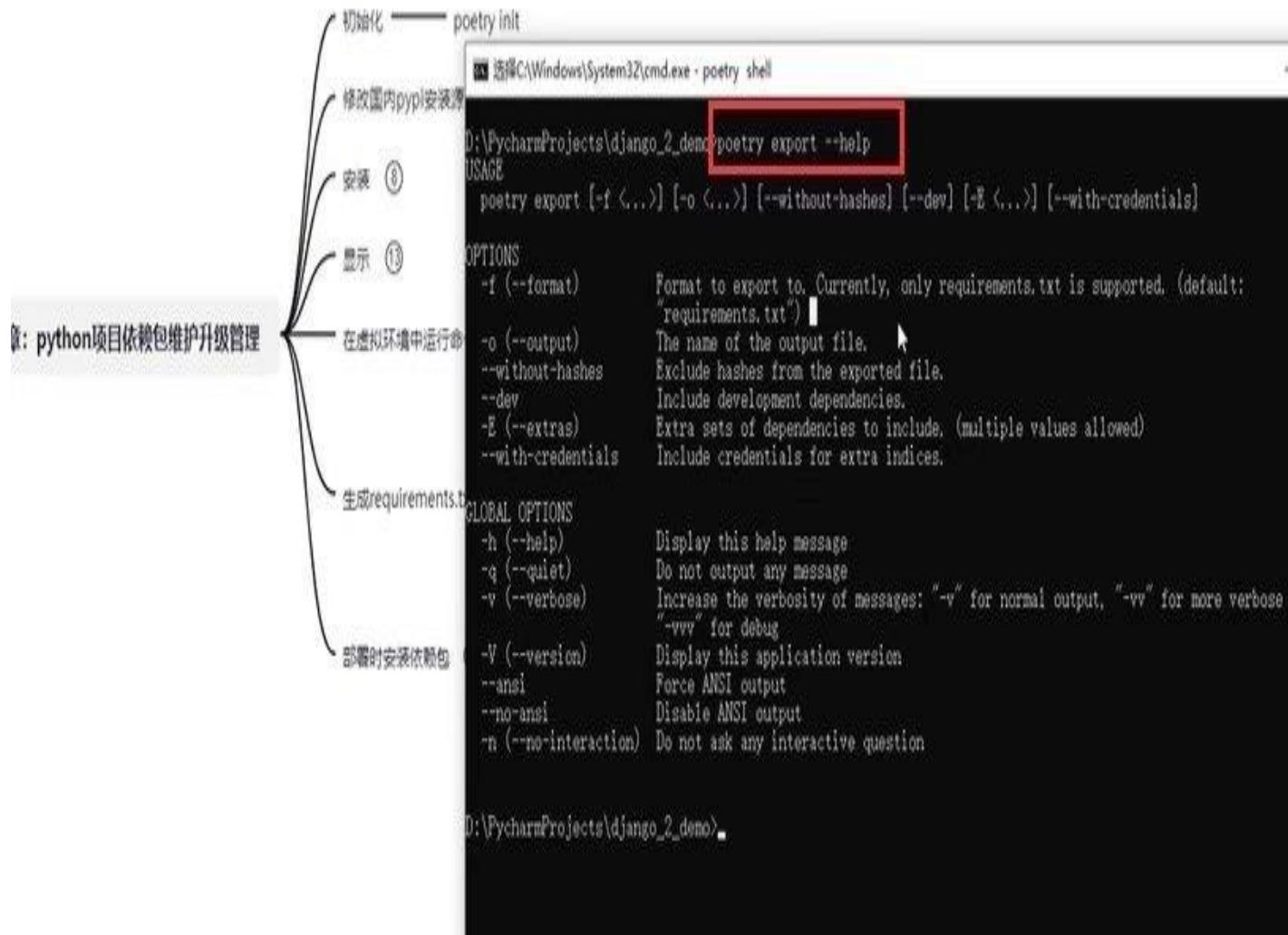
- 第三章：python项目依赖包维护升级管理



```
选择C:\Windows\System32\cmd.exe - poetry run python manage.py runserver
D:\PycharmProjects\django_2_demo>poetry run django-admin startproject .
CommandError: '.' is not a valid project name. Please make sure the name is a
D:\PycharmProjects\django_2_demo>poetry run django-admin startproject django_
D:\PycharmProjects\django_2_demo>dir
驱动器 D 中的卷没有标签。
卷的序列号是 65F3-3762
D:\PycharmProjects\django_2_demo 的目录
2021/08/15 11:00 <DIR> .
2021/08/15 11:00 <DIR> ..
2021/08/15 11:00 <DIR> django_2_demo
2021/08/15 11:00 654 manage.py
2021/08/15 10:53 11,790 poetry.lock
2021/08/15 10:53 563 pyproject.toml
3 个文件 13,007 字节
3 个目录 646,042,492,928 可用字节
D:\PycharmProjects\django_2_demo>poetry run python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...
System check identified no issues (0 silenced).

You have 17 unapplied migration(s). Your project may not work properly until
auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
```

poetry –help 查看帮助

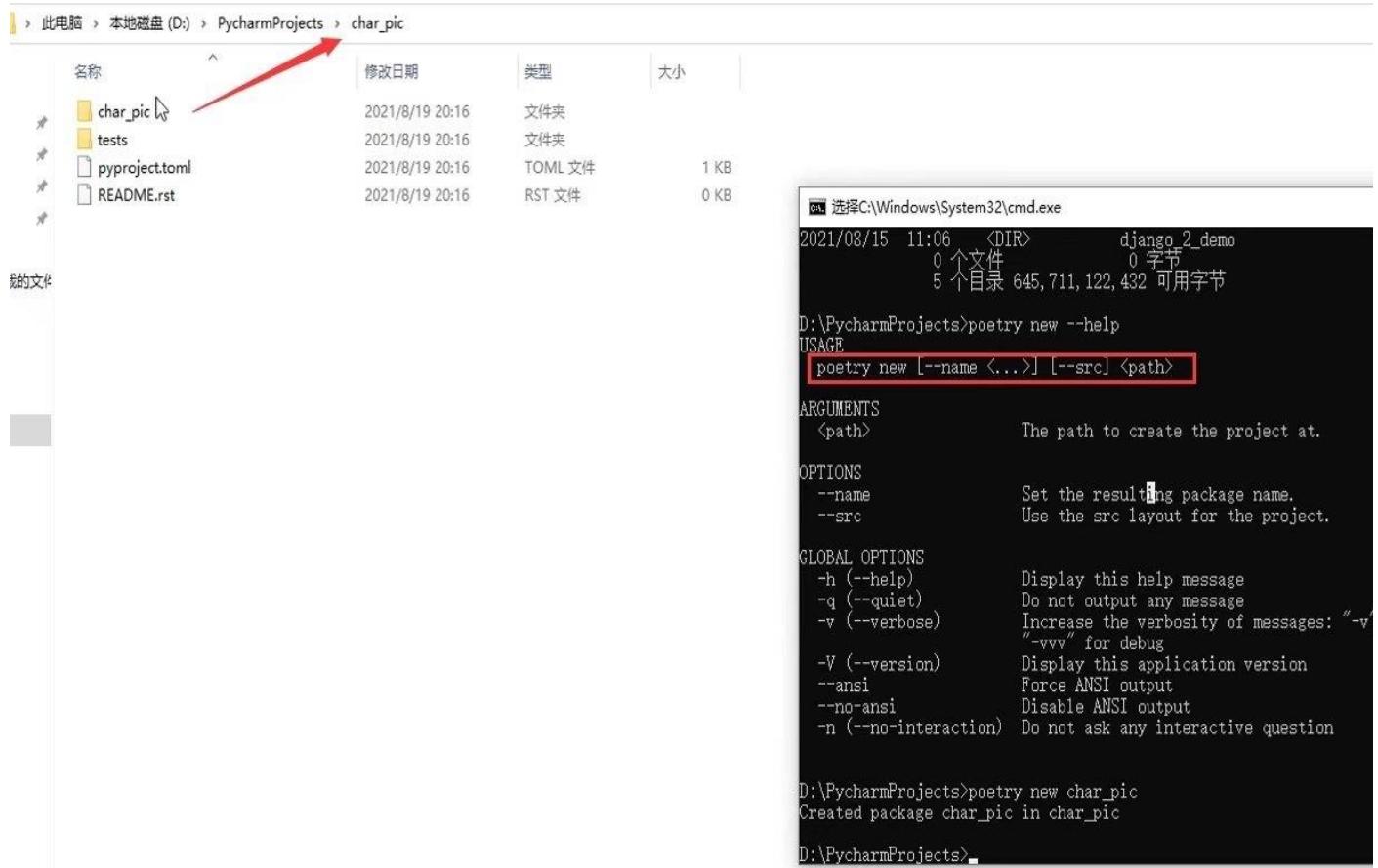


```
1 xiaodeng 2 xiaodeng
db.sqlite3 django_2_demo manage.py pyproject.toml req.txt requirements.txt
[root@instance-k0fsji48 django_2_demo]# poetry install
Creating virtualenv django-2-demo-Wm76rbA7-py3.6 in /root/.cache/pypoetry/virtualenvs
Updating dependencies
Resolving dependencies... (10.4s)

SolverProblemError

The current project's Python requirement (>=3,<4) is not compatible with some of the required packages Python
- djangorestframework requires Python >=3.5, so it will not be satisfied for Python >=3,<3.5

Because no versions of djangorestframework match >3.12.4,<4.0.0
and djangorestframework (3.12.4) requires Python >=3.5, djangorestframework is forbidden.
So, because django-2-demo depends on djangorestframework (^3.12.4), version solving failed.
```



资源管理器

CHAR_PIC

char_pic

 __init__.py

 start.py

> tests

poetry.lock

pyproject.toml

README.rst

pyproject.toml

start.py 1

```
1 from cowpy import cow
2
3
4 def run(name):
5     cow.milk_random_cow(name)
```

问题 拉出 帮助 调试 调试控制台

```
PS D:\PycharmProjects\char_pic> poetry add cowpy
Using version ^1.1.0 for cowpy

Updating dependencies
Resolving dependencies...

Writing lock file

Package operations: 1 install, 0 updates, 0 removals

  • Installing cowpy (1.1.0)
PS D:\PycharmProjects\char_pic>
```

资源管理器

CHAR_PIC

char_pic

> dist

 char_pic-0.1.0-py3-none-any.whl

 char_pic-0.1.0.tar.gz

> tests

poetry.lock

pyproject.toml

README.rst

pyproject.toml

```
3 version = "0.1.0"
4 description = ""
5 authors = ["xiaodeng <xiaodengteacher@qq.com>"]
6
7 [tool.poetry.dependencies]
8 python = "^3.8"
9 cowpy = "^1.1.0"
10
11 [tool.poetry.dev-dependencies]
12 pytest = "^5.2"
13
14 [build-system]
15 requires = ["poetry-core>=1.0.0"]
16 build-backend = "poetry.core.masonry.api"
```

问题 拉出 帮助 调试 调试控制台

```
PS D:\PycharmProjects\char_pic> poetry config http-basic.pypi teacherxiaodeng
Password:
PS D:\PycharmProjects\char_pic> poetry build
Building char_pic (0.1.0)
- Building sdist
- Built char_pic-0.1.0.tar.gz
- Building wheel
- Built char_pic-0.1.0-py3-none-any.whl
PS D:\PycharmProjects\char_pic>
```

问题 输出 调试 调试控制台

- Building wheel
- Built char_pic-0.1.0-py3-none-any.whl
PS D:\PycharmProjects\char_pic> **poetry publish**

Publishing char_pic (0.1.0) to PyPI
- Uploading char_pic-0.1.0-py3-none-any.whl 0%
- Uploading char_pic-0.1.0-py3-none-any.whl 100%
- Uploading char_pic-0.1.0-py3-none-any.whl 100%

UploadError

① poetry public --build

问题 输出 调试 调试控制台
PS D:\PycharmProjects\char_pic> **poetry config pypi-token.pypi**  
IsICJ2ZXJzaW9uIjogIX0AAAAG_UZkUfmwWTVYQPHspjKnf1sMCNsWSXccpPhx-ZcoHc

```
centos [~] yum install -y wget
wget https://mirrors.aliyun.com/docker-ce/linux/centos/docker-ce.repo -O /etc/yum.repos.
d/docker-ce.repo
yum -y install docker-ce docker-ce-cli containerd.io
systemctl enable docker && systemctl start docker
docker --version
cat > /etc/docker/daemon.json << EOF
{
    "registry-mirrors": ["https://b9pmyleo.mirror.aliyuncs.com"]
}
EOF
systemctl restart docker
docker info
```

④ 第四章：python项目打包发布到官方pypi仓库

第五章：python项目打包发布到私有pypi仓库

⑥ 第六章：版本描述

⑦ 第七章：poetry命令行参数解析

⑨ 第八章：poetry配置文件pyproject.toml文件解析

④ 第四章：python项目打包发布到官方pypi仓库



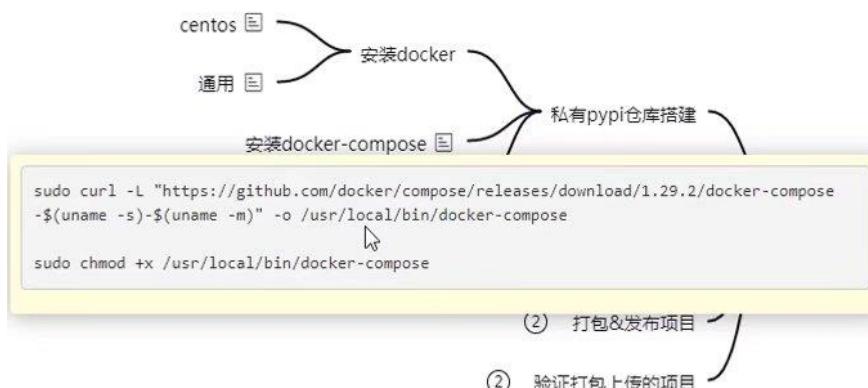
第五章：python项目打包发布到私有pypi仓库

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python项目打包发布到私有pypi仓库

⑥ 第六章：版本描述

⑦ 第七章：poetry命令行参数解析

⑨ 第八章：poetry配置文件pyproject.toml文件解析

```
[root@instance-k0fsji48 pypiserver]# ls
auth  docker-compose.yml  README.md
[root@instance-k0fsji48 pypiserver]# ls
auth  docker-compose.yml  README.md
[root@instance-k0fsji48 pypiserver]# cat README.md
## 部署pypi server

### 使用docker-compose部署认证版本

- docker-compose up -d

### 参考文档
I
- https://github.com/pypiserver/pypiserver#quickstart-installation-and-usage
- https://hostingcanada.org/htpasswd-generator/
- https://github.com/pypiserver/pypiserver/blob/master/docker-compose.yml
[root@instance-k0fsji48 pypiserver]# █
```

/github.com/pypiserver/pypiserver#quickstart-installation-and-usage
/hostingcanada.org/htpasswd-generator/
/github.com/pypiserver/pypiserver/blob/master/docker-compose.yml
tance-k0fsji48 pypiserver]# cat docker-compose.yml
"3.3"

```
server-authenticated:
image: pypiserver/pypiserver:latest
volumes:
- type: bind
  source: ./auth
  target: /data/auth
- type: volume
  source: pypi_packages
  target: /data/packages
command: -P /data/auth/.htpasswd -a update,download,list /data/packages
ports:
- "1234:8080"
```

packages:

```
I
tance-k0fsji48 pypiserver]# cat
  docker-compose.yml  README.md
tance-k0fsji48 pypiserver]# cat auth/.htpasswd
$apr1$2c4fsv10$Zu6pyf1Ej5jyeCwNthSt1.
tance-k0fsji48 pypiserver]# █
```

①

用户注册信息

④ 第四章：python项目打包发布到官方pypi仓库

⑤ 私有pypi仓库搭建

添加repository

```
poetry config repositories.xiaodeng http://api.xiaodeng.site:1234/  
poetry config repositories.xiaodeng
```

② 打包&发布项目

② 验证打包上传的项目

第五章：python项目打包发布到私有pypi仓库

⑥ 第六章：版本描述

⑦ 第七章：poetry命令行参数解析

⑨ 第八章：poetry配置文件pyproject.toml文件解析

```
> CHAR_PIC  
  <-- char_pic  
    <-- __init__.py  
    <-- start.py  
  <-- dist  
    <-- char_pic-0.1.0-py3-none-any.whl  
    <-- char_pic-0.1.0.tar.gz  
    <-- char_pic-0.1.1-py3-none-any.whl  
    <-- char_pic-0.1.1.tar.gz  
  > tests  
  <-- poetry.lock  
  <-- pyproject.toml  
  <-- README.rst
```

pyproject.toml

```
1 [tool.poetry]  
2 name = "char_pic"  
3 version = "0.1.1"  
4 description = ""  
5 authors = ["xiaodeng <xiaodengteacher@qq.com>"]  
6  
7 [tool.poetry.dependencies]  
8 python = "^3.8"  
9 cowpy = "^1.1.0"  
10  
11 [tool.poetry.dev-dependencies]  
12 pytest = "^5.2"  
13  
14 [build-system]
```

问题 跳出 强调 浏览控制台

```
PS D:\PycharmProjects\char_pic> poetry publish --build  
Building char_pic (0.1.1)  
- Building sdist  
- Built char_pic-0.1.1.tar.gz  
- Building wheel  
- Built char_pic-0.1.1-py3-none-any.whl  
  
Publishing char_pic (0.1.1) to PyPI  
- Uploading char_pic-0.1.1-py3-none-any.whl 0%  
- Uploading char_pic-0.1.1-py3-none-any.whl 100%  
- Uploading char_pic-0.1.1-py3-none-any.whl 100%  
- Uploading char_pic-0.1.1.tar.gz 0%  
- Uploading char_pic-0.1.1.tar.gz 100%  
- Uploading char_pic-0.1.1.tar.gz 100%  
PS D:\PycharmProjects\char_pic> poetry config repositories.xiaodeng http://api.xiaodeng.site:1234/  
PS D:\PycharmProjects\char_pic>
```

1 本地仓库

资源管理器

CHAR_PIC

char_pic

 init.py

 start.py

dist

 char_pic-0.1.0-py3-none-any.whl

 char_pic-0.1.0.tar.gz

 char_pic-0.1.1-py3-none-any.whl

 char_pic-0.1.1.tar.gz

tests

poetry.lock

pyproject.toml

README.rst

pyproject.toml

```
1 [tool.poetry]
2 name = "char_pic"
3 version = "0.1.1"
4 description = ""
5 authors = ["xiaodeng <xiaodengteacher@qq.com>"]
6
7 [tool.poetry.dependencies]
8 python = "^3.8"
9 cowpy = "^1.1.0"
10
11 [tool.poetry.dev-dependencies]
12 pytest = "^5.2"
13
14 [build-system]
```

问题 跳出 纠错 同步控制台

PS D:\PycharmProjects\char_pic> poetry config http-basic.xiaodeng xiaodeng
Password: 1 登录本地pypi服务器

资源管理器

CHAR_PIC

char_pic

 init.py

 start.py

dist

 char_pic-0.1.0-py3-none-any.whl

 char_pic-0.1.0.tar.gz

 char_pic-0.1.1-py3-none-any.whl

 char_pic-0.1.1.tar.gz

tests

poetry.lock

pyproject.toml

README.rst

pyproject.toml

```
1 [tool.poetry]
2 name = "char_pic"
3 version = "0.1.1"
4 description = ""
5 authors = ["xiaodeng <xiaodengteacher@qq.com>"]
6
7 [tool.poetry.dependencies]
8 python = "^3.8"
9 cowpy = "^1.1.0"
10
11 [tool.poetry.dev-dependencies]
12 pytest = "^5.2"
13
14 [build-system]
```

问题 跳出 纠错 同步控制台

PS D:\PycharmProjects\char_pic> poetry config http-basic.xiaodeng xiaodeng
Password:
PS D:\PycharmProjects\char_pic> poetry publish --build -r xiaodeng< 1 打包到本地pypi服务器
PS D:\PycharmProjects\char_pic> poetry config --list
cache-dir = "C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache"
experimental.new-installer = true
installer.parallel = true
repositories.xiaodeng.url = "http://api.xiaodeng.site:1234/"
virtualenvs.create = true
virtualenvs.in-project = null
virtualenvs.path = "{cache-dir}\\\\virtualenvs" # C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache\\\\virtualenvs
PS D:\PycharmProjects\char_pic>

Welcome to pypiserver!

This is a PyPI compatible package index serving 2 packages.

To use this server with `pip`, run the following command:

```
pip install --index-url http://api.xiaodeng.site:1234/simple/ PACKAGE [PACKAGE2...]
```

To use this server with `easy_install`, run the following command:

```
easy_install --index-url http://api.xiaodeng.site:1234/simple/ PACKAGE [PACKAGE2...]
```

The complete list of all packages can be found [here](#) or via the [simple](#) index.

This instance is running version 1.4.2 of the `pypiserver` software.

The screenshot shows a PyCharm interface with a project named 'TWO_PROJECT'. The file `pyproject.toml` is open, displaying configuration for a Poetry project. A red box highlights the line `url = "http://api.xiaodeng.site:1234/simple/"`. Below the code editor is a terminal window showing the command `poetry add char-pic` being run. A red arrow points from the terminal command to a callout bubble containing the text '从本地Pypi服务器下载安装' (Download and install from local PyPi server).

```
pyproject.toml
...
11 [tool.poetry.dev-dependencies]
12
13 [build-system]
14 requires = ["poetry-core>=1.0.0"]
15 build-backend = "poetry.core.masonry.api"
16
17 [[tool.poetry.source]]
18 name = "xiaodeng"
19 url = "http://api.xiaodeng.site:1234/simple/"
```

PS D:\PycharmProjects\two_project> `poetry add char-pic`
Using version ^0.1.1 for char-pic
Updating dependencies
Resolving dependencies...

1 从本地Pypi服务器下载安装

```
pyproject.toml
10 [tool.poetry.dev-dependencies]
11
12 [build-system]
13 requires = ["poetry-core>=1.0.0"]
14 build-backend = "poetry.core.masonry.api"
15
16 [[tool.poetry.source]]
17 name = "xiaodeng"
18 url = "http://api.xiaodeng.site:1234/simple/"
19
```

问题 输出 偏移 调试控制台

```
PS D:\PycharmProjects\two_project> pip install -i http://api.xiaodeng.site:1234/simple/ char-pic
Looking in indexes: http://api.xiaodeng.site:1234/simple/
WARNING: The repository located at api.xiaodeng.site is not a trusted or secure host and is being ignored. If this repository is available use HTTPS instead, otherwise you may silence this warning and allow it anyway with '--trusted-host api.xiaodeng.site'.
ERROR: Could not find a version that satisfies the requirement char-pic (from versions: none)
ERROR: No matching distribution found for char-pic
WARNING: The repository located at api.xiaodeng.site is not a trusted or secure host and is being ignored. If this repository is available use HTTPS instead, otherwise you may silence this warning and allow it anyway with '--trusted-host api.xiaodeng.site'.
PS D:\PycharmProject 关注链接(Ctrl + 单击) pip install -i http://api.xiaodeng.site:1234/simple/ char-pic --trusted-host api.xiaodeng.site
Looking in indexes: http://api.xiaodeng.site:1234/simple/
User for api.xiaodeng.site:1234: [ ]
```

51

```
pyproject.toml
7 [tool.poetry.dependencies]
8 python = "^3.8"
9 cowpy = "^1.1.0"
10 requests = "^1"
11
12 [tool.poetry.dev-dependencies]
13 pytest = "^5.2"
14
15 [build-system]
16 requires = ["poetry-core>=1.0.0"]
17 build-backend = "poetry.core.masonry.api"
18
19 [[tool.poetry.source]]
20 name = "douban"
21 url = "https://api.douban.com/v2/movie/subject_all"
```

requests (2.26.0)

问题 输出 偏移 调试控制台

PS D:\PycharmProjects\char_pic> poetry update

poetry

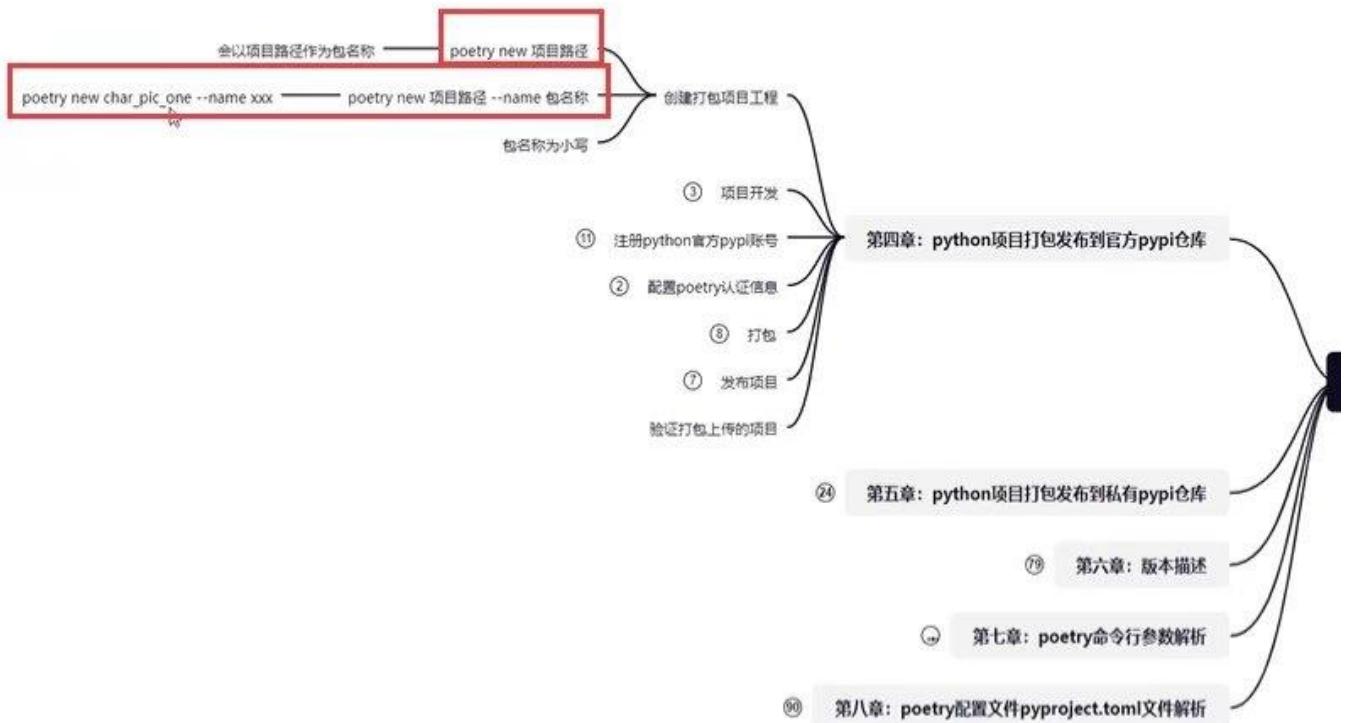
Updating dependencies
Resolving dependencies...

① 不能超过已固定的版本号

Writing lock file

Package operations: 0 installs, 1 update, 4 removals:

- Removing certifi (2021.5.30) I
- Removing charset-normalizer (2.0.4)
- Removing idna (3.2)



```
pyproject.toml
pyproject.toml
1 [tool.poetry]
2 name = "char_pic"
3 version = "0.1.1"
4

USAGE
poetry install [--no-dev] [--no-root] [--dry-run] [--remove-untracked] [-E <...>]

OPTIONS
--no-dev           Do not install the development dependencies.
--no-root          Do not install the root package (the current project).
PS D:\PycharmProjects\char_pic> poetry install --remove-untracked --ansi -vvv
Using virtualenv: C:\Users\win10\AppData\Local\pypoetry\Cache\virtualenvs\char-pic-LUmN3XF-py3.8
Installing dependencies from lock file

Finding the necessary packages for the current system

Package operations: 0 installs, 0 updates, 2 removals, 16 skipped

• Removing et-xmlfile (1.1.0): Pending...
• Removing et-xmlfile (1.1.0): Removing...
• Removing et-xmlfile (1.1.0)
• Removing openpyxl (3.0.7): Pending...
• Removing openpyxl (3.0.7): Removing...
• Removing openpyxl (3.0.7)
• Installing pyparsing (2.4.7): Pending...
• Installing pyparsing (2.4.7): Skipped for the following reason: Already installed
• Installing atomicwrites (1.4.0): Pending...
• Installing atomicwrites (1.4.0): skipped for the following reason: Already installed
• Installing attrs (21.2.0): Pending...
• Installing attrs (21.2.0): Skipped for the following reason: Already installed
• Installing certifi (2021.5.30): Pending...
• Installing certifi (2021.5.30): Skipped for the following reason: Already installed
• Installing charset-normalizer (2.0.4): Pending...
• Installing charset-normalizer (2.0.4): Skipped for the following reason: Already installed
• Installing colorama (0.4.4): Pending...
• Installing colorama (0.4.4): Skipped for the following reason: Already installed
• Installing idna (3.2): Pending...
• Installing idna (3.2): Skipped for the following reason: Already installed
• Installing more-itertools (8.8.0): Pending...
• Installing more-itertools (8.8.0): Skipped for the following reason: Already installed
```

```

PS D:\PycharmProjects\char_pic> poetry config
PS D:\PycharmProjects\char_pic> poetry config --list
cache-dir = "C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache"
experimental.new-installer = true
installer.parallel = true
repositories.xiaodeng.url = "http://api.xiaodeng.site:1234/"
virtualenvs.create = true
virtualenvs.in-project = null
virtualenvs.path = "{cache-dir}\\\\virtualenvs" # C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache\\\\virtualenvs
PS D:\PycharmProjects\char_pic> ls C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache

```

目录: C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache

Mode	LastWriteTime	Length	Name
d----	2021/8/24	20:21	artifacts
d----	2021/8/14	16:42	cache
d----	2021/8/24	18:34	virtualenvs

```
PS D:\PycharmProjects\char_pic> ls C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache\\\\cache
```

修改虚拟环境路径

接下来，可以按照自己的文件存放习惯，修改缓存目录，同时也修改了虚拟环境目录：

```

1 poetry config cache-dir E:\\\\Documents\\\\Library
D:\\CODE\\PYTHON\\Project05> poetry config --list
cache-dir = "E:\\\\Documents\\\\Library"
experimental.new-installer = true
installer.parallel = true
virtualenvs.create = true
virtualenvs.in-project = false
virtualenvs.path = "{cache-dir}\\\\virtualenvs" # E:\\\\Documents\\\\Library\\\\virtualenvs
D:\\CODE\\PYTHON\\Project05>

```

```

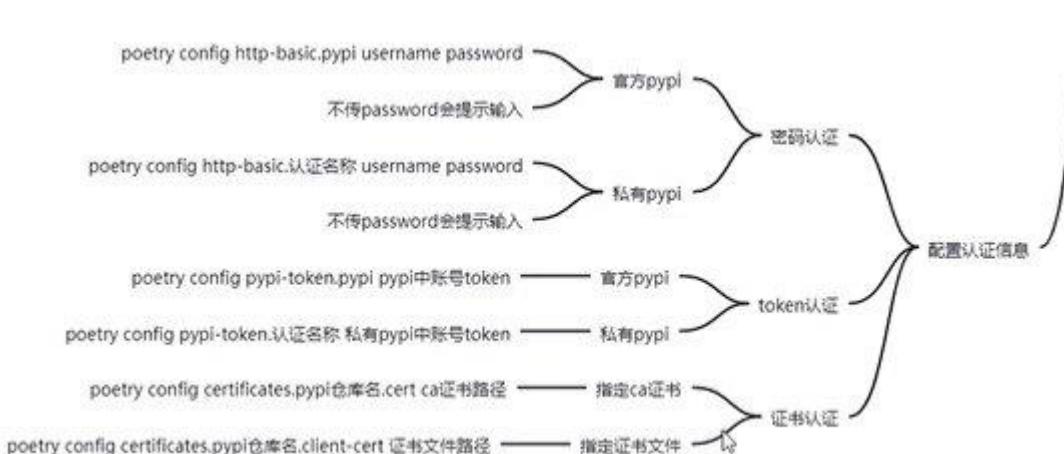
PS D:\\\\PycharmProjects\\\\char_pic> poetry config installer.parallel false
PS D:\\\\PycharmProjects\\\\char_pic> poetry config
PS D:\\\\PycharmProjects\\\\char_pic> poetry config --list
cache-dir = "C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache"
experimental.new-installer = true
installer.parallel = false
repositories.xiaodeng.url = "http://api.xiaodeng.site:1234/"
virtualenvs.create = true
virtualenvs.in-project = null
virtualenvs.path = "{cache-dir}\\\\virtualenvs" # C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache\\\\virtualenvs
PS D:\\\\PycharmProjects\\\\char_pic> poetry config installer.parallel true
PS D:\\\\PycharmProjects\\\\char_pic> poetry config --list
cache-dir = "C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache"
experimental.new-installer = true
installer.parallel = true
repositories.xiaodeng.url = "http://api.xiaodeng.site:1234/"
virtualenvs.create = true
virtualenvs.in-project = null
virtualenvs.path = "{cache-dir}\\\\virtualenvs" # C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache\\\\virtualenvs
PS D:\\\\PycharmProjects\\\\char_pic> poetry config repositories.douban https://pypi.doubanio.com/
PS D:\\\\PycharmProjects\\\\char_pic> poetry config --list
cache-dir = "C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache"
experimental.new-installer = true
installer.parallel = true
repositories.douban.url = "https://pypi.doubanio.com/"
repositories.xiaodeng.url = "http://api.xiaodeng.site:1234/"
virtualenvs.create = true
virtualenvs.in-project = null
virtualenvs.path = "{cache-dir}\\\\virtualenvs" # C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache\\\\virtualenvs
PS D:\\\\PycharmProjects\\\\char_pic>

```

```
PS D:\PycharmProjects\char_pic_one> poetry config virtualenvs.in-project true --local  
PS D:\PycharmProjects\char_pic_one> poetry config  
PS D:\PycharmProjects\char_pic_one> poetry config --local  
PS D:\PycharmProjects\char_pic_one>
```

1 --local 仅用于当前项目配置

```
PS D:\PycharmProjects\char_pic_one> poetry config virtualenvs.in-project true --local  
PS D:\PycharmProjects\char_pic_one> poetry config  
PS D:\PycharmProjects\char_pic_one> poetry config --local  
PS D:\PycharmProjects\char_pic_one> poetry config --list  
cache-dir = "C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache"  
experimental.new-installer = true  
installer.parallel = true  
repositories.douban.url = "https://pypi.doubanio.com/"  
repositories.xiaodeng.url = "http://api.xiaodeng.site:1234/"  
virtualenvs.create = true  
virtualenvs.in-project = true  
virtualenvs.path = "{cache-dir}\\\\virtualenvs" # C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache\\\\virtualenvs  
PS D:\PycharmProjects\char_pic_one> poetry config repositories.douban -unset 1  
PS D:\PycharmProjects\char_pic_one> poetry config --list  
cache-dir = "C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache"  
experimental.new-installer = true  
installer.parallel = true  
repositories.xiaodeng.url = "http://api.xiaodeng.site:1234/"  
virtualenvs.create = true  
virtualenvs.in-project = true  
virtualenvs.path = "{cache-dir}\\\\virtualenvs" # C:\\\\Users\\\\win10\\\\AppData\\\\Local\\\\pypoetry\\\\Cache\\\\virtualenvs  
PS D:\PycharmProjects\char_pic_one>
```



```
❶ pyproject.toml
1 [tool.poetry]
2   name = "char_pic"
3   version = "0.1.3"
4   description = "generate char pic demo."
5   authors = ["xiaodeng <xiaodengteacher@qq.com>", "xiaodeng1 <xiaodengteacher1@qq.com>"]
6
7   license = "Apache-2.0"
8   #license = "Proprietary"
9
10  maintainer = ["xiaodeng2 <xiaodengteacher2@qq.com>", "xiaodeng3 <xiaodengteacher3@qq.com>", "xiaodeng4 <xiaodengteacher4@qq.com>"]
11
12  readme = "README.rst"
13
14  homepage = "http://api.xiaodeng.site:8888/"
15  repository = "https://github.com/psf/requests"
16  documentation = "http://api.xiaodeng.site:8888/"
17  keywords = ["char", "pic", "xiaodeng"]
18  classifiers = ["Programming Language :: Python :: 3", "Topic :: Communications", "Development Status :: 3 - Alpha", "License :: Apache Software License"]
19
20 [tool.poetry.dependencies]
21   python = "^3.8"
22   cowpy = "^1.1.0"
23   requests = "^2.26.0"
24
25 [tool.poetry.dev-dependencies]
26
27 [build-system]
28   requires = ["poetry-core>=1.0.0"]
29   build-backend = "poetry.core.masonry.api"
```

```
❷ pyproject.toml
5   authors = ["xiaodeng <xiaodengteacher@qq.com>", "xiaodeng1 <xiaodengteacher1@qq.com>"]
6
7   license = "Apache-2.0"
8   #license = "Proprietary"
9
10  maintainers = ["xiaodeng2 <xiaodengteacher2@qq.com>", "xiaodeng3 <xiaodengteacher3@qq.com>", "xiaodeng4 <xiaodengteacher4@qq.com>"]
11
12  readme = "README.rst"
13
14  homepage = "http://api.xiaodeng.site:8888/"
15  repository = "https://github.com/psf/requests"
16  documentation = "http://api.xiaodeng.site:8888/"
17  keywords = ["char", "pic", "xiaodeng"]
18  classifiers = ["Programming Language :: Python :: 3", "Topic :: Communications", "Development Status :: 3 - Alpha", "License :: Freeware"]
19  packages = [{ include = "char_pic", format = "sdist" }]
20  include = ["README.md", "requirements.txt"]
21  exclude = ["*.txt"]
22
23 [tool.poetry.dependencies]
24   python = "^3.8"
```

编辑 输出 纠错 测试按钮

See

```
$ D:\PycharmProjects\char_pic> poetry publish --build
```

```
❸ pyproject.toml x ❹ README.rst ❺ READMEmd  
❻ pyproject.toml  
22  
23 [tool.poetry.dependencies]  
24 python = "^3.8"  
25 cowpy = "^1.1.0"  
26 requests = "^2.26.0"  
27  
28 mysqlclient = { version = "^2.0", optional = true }  
29  
30 [tool.poetry.dev-dependencies] ❻ 可选包  
31 PyYAML = "^5.4"  
32  
33 [tool.poetry.extras]  
34 mysql = ["mysqlclient"]  
35  
36 [build-system]  
37 requires = ["poetry-core>=1.0.0"]  
38 build-backend = "poetry.core.masonry.api"  
39  
40 [[tool.poetry.source]]  
41 name = "douban"
```

问题 跳出 依赖 调试控制台

```
PS D:\PycharmProjects\char_pic> poetry show --all  
certifi      2021.5.30 Python package for providing Mozilla's CA Bundle.  
charset-normalizer 2.0.4    The Real First Universal Charset Detector. Open, modern and actively maintained alternative to Chardet.  
cowpy       1.1.0     A cowsay clone for python in one file.  
idna        3.2      Internationalized Domain Names in Applications (IDNA)  
mysqlclient  (!) 2.0.3    Python interface to MySQL  
pyyaml       5.4.1     YAML parser and emitter for Python  
requests     2.26.0    Python HTTP for Humans.  
urllib3      1.26.6    HTTP library with thread-safe connection pooling, file post, and more.  
PS D:\PycharmProjects\char_pic>
```

```
❸ pyproject.toml
28 mysqlclient = { version = "^2.0", optional = true }
29
30 [tool.poetry.dev-dependencies]
31 PyYAML = "^5.4"
32
33 [tool.poetry.extras]
34 mysql = ["mysqlclient"]
35
36 [build-system]
37 requires = ["poetry-core>=1.0.0"]
38 build-backend = "poetry.core.masonry.api"
39
40 [[tool.poetry.source]]
41 name = "douban"
42 url = "https://pypi.doubanio.com/simple"
43
```

问题 提出 捐赠 项目的贡献者

PS D:\PycharmProjects\char_pic> **poetry install -E mysql**
Installing dependencies from lock file

Package operations: 1 install, 0 updates, 0 removals

1

poetry update

• Installing mysqlclient (2.0.3)

Installing the current project: char_pic (0.1.3)

PS D:\PycharmProjects\char_pic> []

```
❸ pyproject.toml
30 [build-system]
31 requires = ["poetry-core>=1.0.0"]
32 build-backend = "poetry.core.masonry.api"
33
34 [[tool.poetry.source]]
35 name = "douban"
36 url = "https://pypi.doubanio.com/simple"
37
38 [tool.poetry.urls]
39 hhh = "http://api.xiaodeng.site:8888/"
40
41
42 [tool.poetry.scripts]
43 # 可执行程序名称 = "包名.模块名:函数名"
44 start_project = "char_pic.start:run"
45
46
47
48
49
50
51
```

资源管理器

...

ONE_DEMO

poetry.lock

pyproject.toml

xx.py

pyproject.toml X

pyproject.toml
14 requires = ["poetry-core>=1.0.0"]
15 build-backend = "poetry.core.masonry.api"
16
17 [[tool.poetry.source]]
18 name = "douban"
19 url = "<https://pypi.doubanio.com/simple>"
20

问题 提出 建议 浏览控制台

PS D:\PycharmProjects\one_demo> start_project.exe

< Hello, poetry! >

0
o
 ,-->|
 (oo)\|
 ()\|
 |
 |_w | *_*

① poetry shell

Cower....

PS D:\PycharmProjects\one_demo>

//-----

pip 安装缓慢

在 C:\Users\Administrator\pip 目录中添加 pip.ini 文件或通过 -i 参数设定国内安装源[mirrors.aliyun.com, 清华或豆瓣]

pip.ini 内容如下：

[global]

index-url =<https://pypi.tuna.tsinghua.edu.cn/simple>

[install]

trusted-host=pypi.tuna.tsinghua.edu.cn

或者

[global]

index-url =<https://pypi.douban.com/simple>

[install]

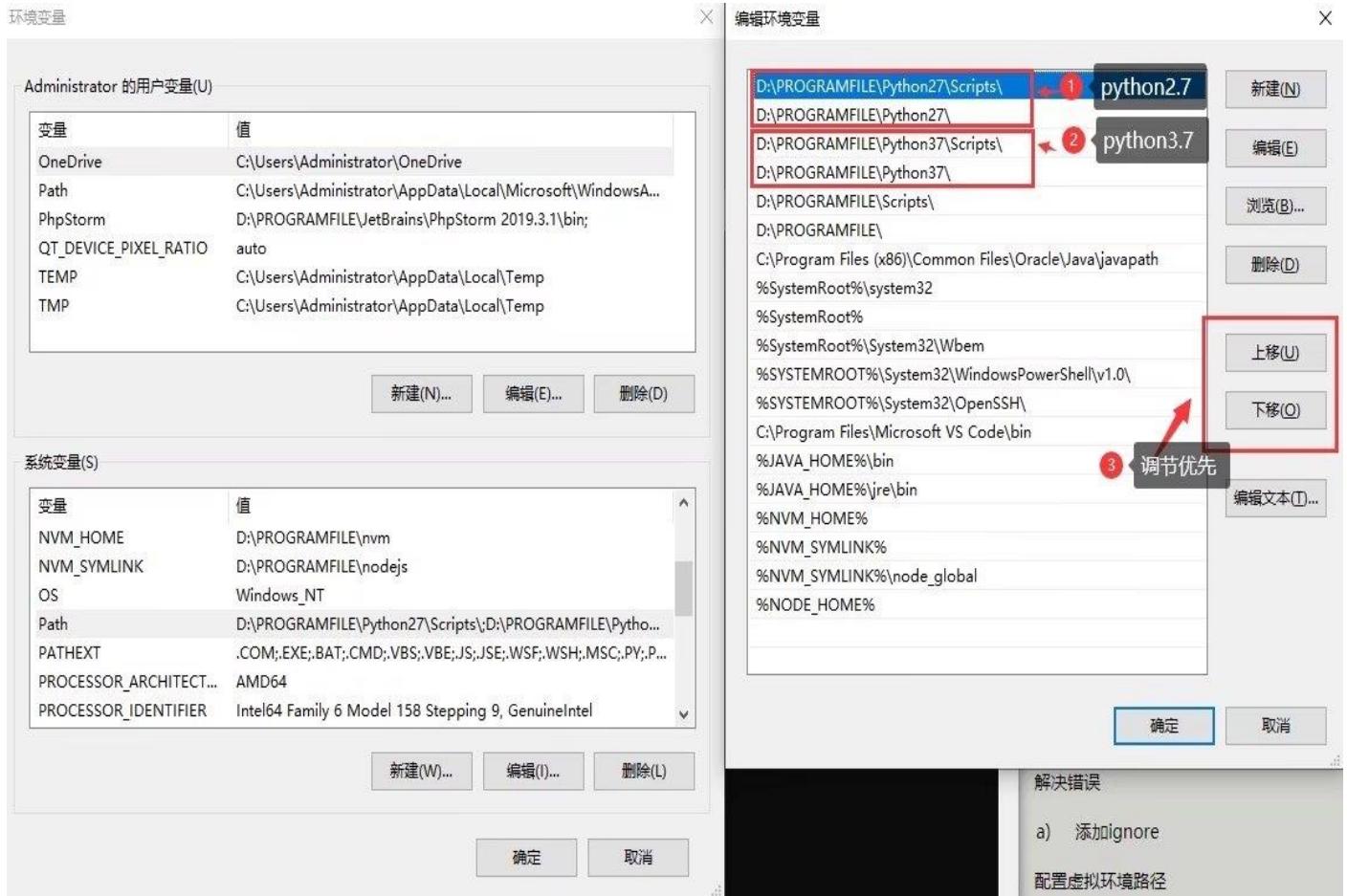
trusted-host=pypi.douban.com

Linux 在当前用户家目录 .pip / pip.conf

//-----

Python 第三方库路径

变量 PYTHONPATH 路径指向第三方库安装路径 C:\Python\Program\Lib\site-packages



环境变量



Administrator 的用户变量(U)

编辑系统变量

变量名(N):

PYTHONPATH

变量值(V):

D:\PROGRAMFILE\Python27\Lib\site-packages

1

Python第三方库存
放的位置

浏览目录(D)...

浏览文件(F)...

确定

取消

新建(N)...

编辑(E)...

删除(D)

系统变量(S)

变量

值

PT7HOME

C:\Program Files\Cisco Packet Tracer 7.3.0

PYTHONPATH

D:\PROGRAMFILE\Python27\Lib\site-packages

QT_DEVICE_PIXEL_RATIO

auto

TEMP

C:\Windows\TEMP

TMP

C:\Windows\TEMP

USERNAME

SYSTEM

windir

C:\Windows

新建(W)...

编辑(I)...

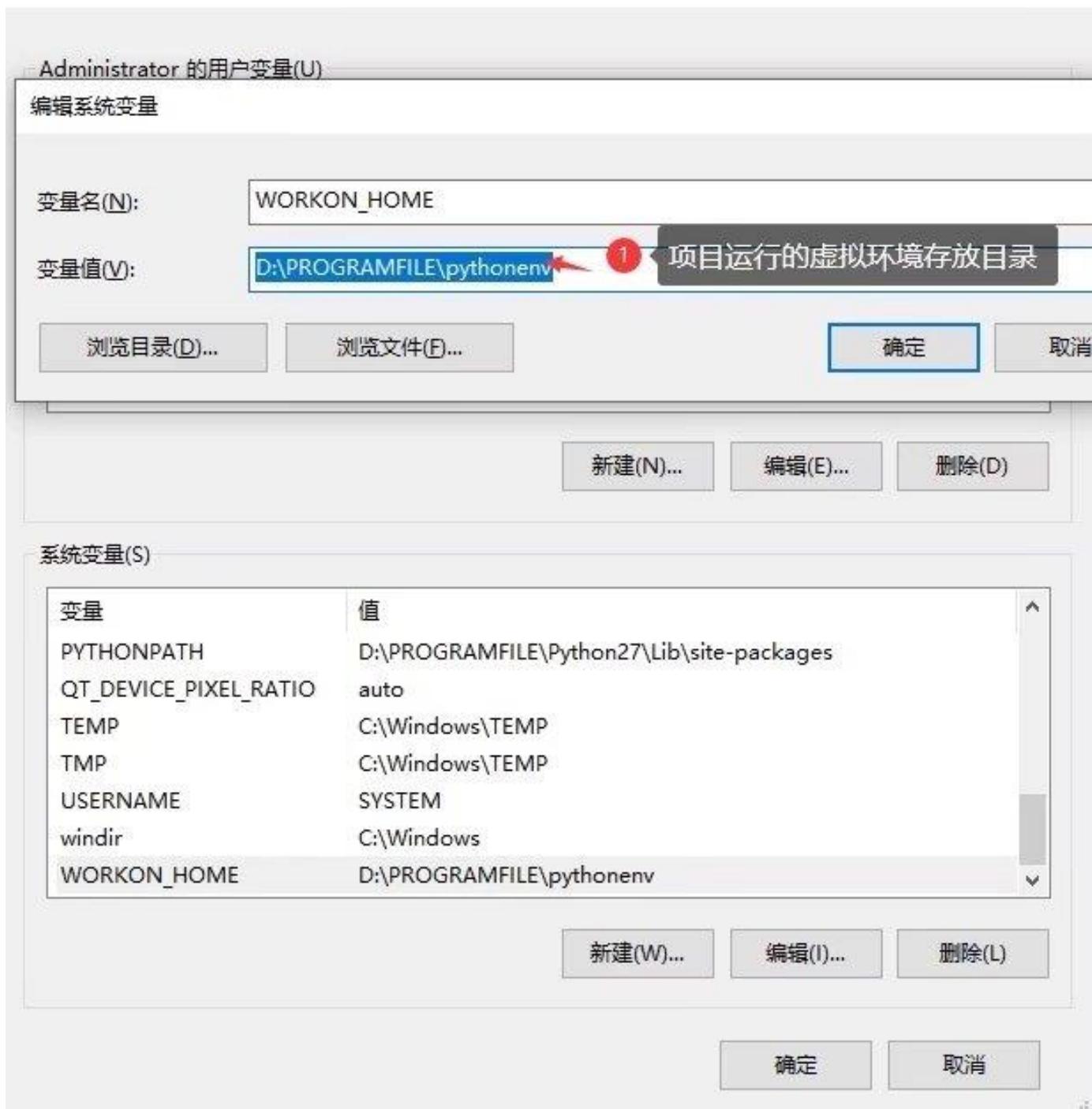
删除(L)

确定

取消

环境变量

X



导出安装的第三方库到 c:\1.txt

```
d:\>pip freeze > "c:\1.txt"
```

静默删除第三方库

```
d:\>pip uninstall -r -y "c:\1.txt"
```

Linux 下安装，激活，离开虚拟环境

```
sudo yum install python-virtualenv
```

```
sudo virutalenv env
```

```
bin$source activate  
deactivate
```

Python 的 Scripts 文件夹下没有 pip.exe

解决办法：

Windows 命令行，输入：python -m ensurepip，即可生成 pip3.exe

将 scripts 文件夹中的 pip3.exe 修改为 pip.exe

然后添加 Scripts 路径到环境变量 path 中即可。