

0、先安装好anaconda，建议直接去官网下(windows)

1、安装虚拟环境 `conda create -n test python=3.7`

需要关闭VPN

```
(base) G:\mine\may_useful_softwares\SRTP\xfields-main>conda create -n thy_test_4 python=3.7
Collecting package metadata (current_repodata.json): done
Solving environment: done
```

```
=> WARNING: A newer version of conda exists. <==
current version: 4.10.3
latest version: 4.11.0
```

Please update conda by running

```
$ conda update -n base -c defaults conda
```

```
## Package Plan ##
```

```
environment location: G:\mine\may_useful_softwares\anaconda3\envs\thy_test_4
```

```
added / updated specs:
- python=3.7
```

The following packages will be downloaded:

package	build	
certifi-2021.10.8	py37haa95532_2	152 KB
openssl-1.1.1m	h2bbff1b_0	4.8 MB
pip-21.2.4	py37haa95532_0	1.8 MB
python-3.7.11	h6244533_0	14.5 MB
setuptools-58.0.4	py37haa95532_0	776 KB
sqlite-3.37.0	h2bbff1b_0	785 KB
wheel-0.37.1	pyhd3eb1b0_0	33 KB
wincertstore-0.2	py37haa95532_2	15 KB
Total:		22.9 MB

The following NEW packages will be INSTALLED:

ca-certificates	pkgs/main/win-64::ca-certificates-2021.10.26-haa95532_2
certifi	pkgs/main/win-64::certifi-2021.10.8-py37haa95532_2
openssl	pkgs/main/win-64::openssl-1.1.1m-h2bbff1b_0

2、激活环境 `conda activate test`

```
done
#
# To activate this environment, use
#
#     $ conda activate thy_test_4
#
# To deactivate an active environment, use
#
#     $ conda deactivate
```

```
(base) G:\mine\may_useful_softwares\SRTP\xfields-main>conda activate thy_test_4
```

```
(thy_test_4) G:\mine\may_useful_softwares\SRTP\xfields-main>
```

3、安装指定版本的TensorFlow, `conda install tensorflow-gpu==1.14.0`

```
# To deactivate an active environment, use
#
# $ conda deactivate

(base) G:\mine\may_useful_softwares\SRTP\xfiends-main>conda activate thy_test_4

(thy_test_4) G:\mine\may_useful_softwares\SRTP\xfiends-main>conda install tensorflow-gpu
Collecting package metadata (current repodata.json): done
Solving environment: failed with initial frozen solve. Retrying with flexible solve.
Solving environment: failed with repodata from current repodata.json, will retry with next repodata source.
Collecting package metadata (repodata.json): done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
current version: 4.10.3
latest version: 4.11.0

Please update conda by running

$ conda update -n base -c defaults conda

## Package Plan ##

environment location: G:\mine\may_useful_softwares\anaconda3\envs\thy_test_4

added / updated specs:
- tensorflow-gpu

The following packages will be downloaded:
```

package	build	size
tf-select-2.3.0	gpu	4 KB
aiosignal-1.2.0	pyhd3eb1b0_0	12 KB
astunparse-1.6.3	py_0	17 KB
async-timeout-4.0.1	pyhd3eb1b0_0	10 KB
asynctest-0.13.0	py_0	26 KB
attrs-21.4.0	pyhd3eb1b0_0	51 KB
blinker-1.4	py37haa95532_0	23 KB

4、安装tensorlayer pip3 install tensorlayer==1.11.1

```
(thy_test_4) G:\mine\may_useful_softwares\SRTP\xfiends-main>pip3 install tensorlayer==1.11.1
Collecting tensorlayer==1.11.1
  Using cached tensorlayer-1.11.1-py3-none-any.whl (316 kB)
Collecting progressbar2<3.39,>=3.38
  Using cached progressbar2-3.38.0-py2.py3-none-any.whl (19 kB)
Collecting wrapt<1.11,>=1.10
  Using cached wrapt-1.10.11-cp37-cp37m-win_amd64.whl
Collecting scipy<1.2,>=1.1
  Using cached scipy-1.1.0-cp37-none-win_amd64.whl (30.9 MB)
Collecting matplotlib<3.1,>=2.2
  Using cached matplotlib-3.0.3-cp37-cp37m-win_amd64.whl (9.1 MB)
Collecting requests<2.21,>=2.19
  Using cached requests-2.20.1-py2.py3-none-any.whl (57 kB)
Collecting scikit-image<0.15,>=0.14
  Using cached scikit-image-0.14.5-cp37-cp37m-win_amd64.whl (24.7 MB)
Collecting scikit-learn<0.21,>=0.19
  Using cached scikit-learn-0.20.4-cp37-cp37m-win_amd64.whl (4.8 MB)
Collecting lxml<4.3,>=4.2
  Using cached lxml-4.2.6-cp37-cp37m-win_amd64.whl (3.5 MB)
Collecting numpy<1.16,>=1.14
  Using cached numpy-1.15.4-cp37-cp37m-win_amd64.whl (13.5 MB)
Collecting imageio<2.5,>=2.3
  Using cached imageio-2.4.1-py3-none-any.whl
Collecting tqdm<4.29,>=4.23
  Using cached tqdm-4.28.1-py2.py3-none-any.whl (45 kB)
Collecting pillow
  Using cached Pillow-9.0.0-cp37-cp37m-win_amd64.whl (3.2 MB)
Collecting kiwisolver<1.0.1
  Using cached kiwisolver-1.3.2-cp37-cp37m-win_amd64.whl (51 kB)
Collecting cyclers<0.10
  Using cached cyclers-0.11.0-py3-none-any.whl (6.4 kB)
Collecting pyparsing!=2.0.4,!2.1.2,!2.1.6,>=2.0.1
  Using cached pyparsing-3.0.7-py3-none-any.whl (98 kB)
Collecting python-dateutil<2.1
  Using cached python-dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
Collecting python-utils<2.3.0
  Using cached python-utils-3.1.0-py2.py3-none-any.whl (19 kB)
Requirement already satisfied: six in g:\mine\may_useful_softwares\anaconda3\envs\thy_test_4\lib\site-packages (from progressbar2<3.39,>=3.38->tensorlayer=
```

5、安装opencv pip install opencv-python

6、运行

一些可能的错误以及解决方法：

- 报这个错 `ModuleNotFoundError: No module named 'numpy.core._multiarray_umath'` 的时候升级numpy, `pip install --user --upgrade numpy`
- 命令行用cmd而不是powershell

