3. 安装Tensorflow 与 Keras > conda create =n wannen35 python=3.5 > activate wannen35 > pip install tensorflow 1]: import tensorflow as tf 1: 理论上有很多种安装方式,这里我们用与anaconda相关的方式来安装,以方便以后的使用和管理。 conda create =n tensorflow python=3.5 activate tensorflow pip install --ignor_installed --upgrade tensorflow 更多好课 —

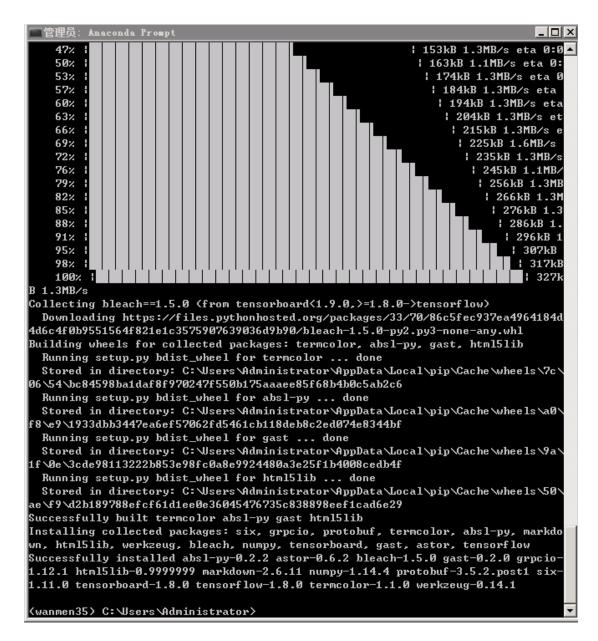
安装 TendsFlow 与 Keras

```
(base) C:\Users\Administrator\conda create -n wanmen35 python=3.6.4
Solving environment: done
==> WARNING: A newer version of conda exists. <==
 current version: 4.4.10
  latest version: 4.5.4
Please update conda by running
    $ conda update -n base conda
## Package Plan ##
 environment location: C:\ProgramData\Anaconda3\envs\wanmen35
 added / updated specs:
    - python=3.6.4
The following packages will be downloaded:
    package
                                             build
                                        h0c2934d_3
    python-3.6.4
                                                          21.4 MB
    wheel-0.31.1
                                                           81 KB
                                            py36_0
    pip-10.0.1
                                            py36_0
                                                           1.8 MB
    setuptools-39.2.0
                                            py36_0
                                                           571 KB
                                            ру36_0
    certifi-2018.4.16
                                                           143 KB
                                                          24.0 MB
                                            Total:
The following NEW packages will be INSTALLED:
    certifi:
                    2018.4.16-py36_0
                    10.0.1-py36_0
    pip:
                    3.6.4-h0c2934d_3
    python:
                   39.2.0-py36_0
14-h0510ff6_3
    setuptools:
    vs2015_runtime: 14.0.25123-3
```

```
24.0 MB
                           Total:
The following NEW packages will be INSTALLED:
  certifi:
            2018.4.16-py36_0
  pip:
            10.0.1-py36_0
  python:
            3.6.4-h0c2934d_3
  setuptools:
            39.2.0-py36_0
            14-h0510ff6_3
  vs2015_runtime: 14.0.25123-3
            0.31.1-py36_0
  wheel:
            0.2-py36h7fe50ca_0
  wincertstore:
Proceed ([y]/n)? y
Downloading and Extracting Packages
pip 10.0.1: ############### ; 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
# To activate this environment, use
   $ conda activate wanmen35
 To deactivate an active environment, use
   $ conda deactivate
(base) C:\Users\Administrator\_
```

```
(base) C: Wsers Administrator>activate wanmen35
(wanmen35) C: Wsers Administrator>_
```

Pip install tensorflow



进入 tensorflow

```
管理员: Anaconda Prompt - python

(base) C: Wsers Administrator > activate wanmen35

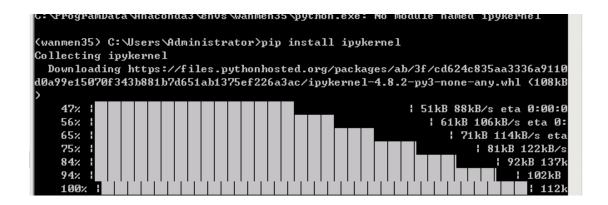
(wanmen35 > C: Wsers Administrator > python

Python 3.6.4 | Anaconda, Inc. | (default, Mar 12 2018, 20:20:50 > [MSC v.1900 64 bit (AMD64 > 1) on win32

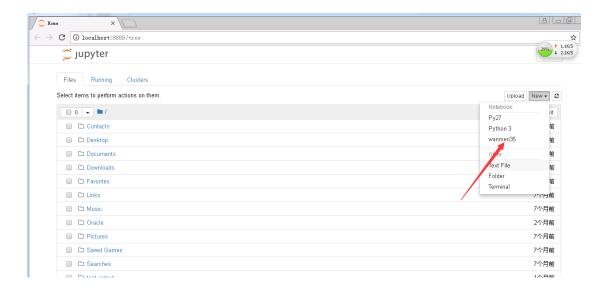
Type "help", "copyright", "credits" or "license" for more information.

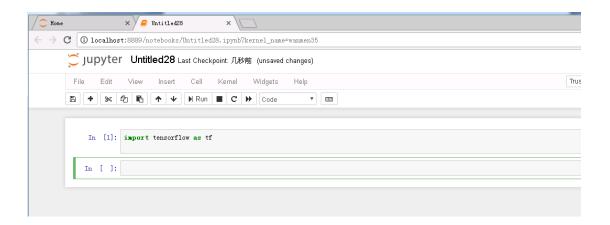
>>> import tensorflow as tf

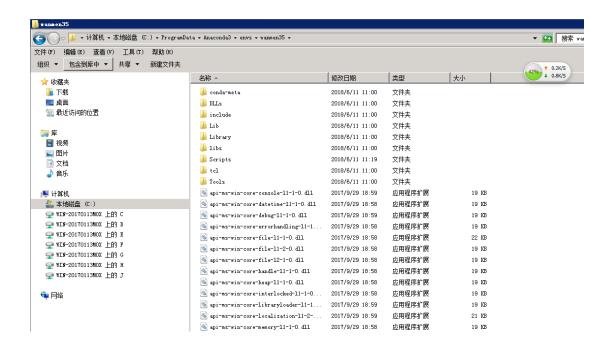
>>> ____
```



(wanmen35) C:\Users\Administrator>python -m ipykernel install --name wanmen35 Installed kernelspec wanmen35 in C:\ProgramData\jupyter\kernels\wanmen35







Jupyter notebook 基本使用

4. Jupyter notebook的基本使用技巧

以下所有操作都需要在命令模式下完成(按ESC或者点击编辑框外的空白处)

- · 向上增加空白cell, A
- 向下增加空白cell, B
- 运行cell , 并将光标移动到下一个cell , shift+Tenter
- 运行cell , ctrl+enter
- 删除本cell , DD
- 剪切本cell, X
- 粘贴本cell, V
- · 合并两个cell,A
- 将cell转为代码状态, Y
- 将cell转为markdown状态, M
- 将选中的几个cells合并, Shift+M
- 打开/关闭行号, L
- 恢复删除的最后一个cell , Z 只有最后一个啊
- · 选中代码整体左移 / 右移, ctrl+[或者ctrl+]

列出所安装的库

```
(wanmen35) C:\Users\Administrator>pip list
Package
                 Version
abs 1-py
                 0.2.2
astor
                 0.6.2
                 0.1.0
backca11
                 1.5.0
bleach
certifi
                 2018.4.16
colorama
                 0.3.9
                 4.3.0
decorator
                 0.2.0
gast
                 0.8.3
graphviz
grpcio
                 1.12.1
htm151ib
                 0.9999999
ipykernel
                 4.8.2
ipython
                 6.4.0
ipython-genutils 0.2.0
jedi
                 0.12.0
jupyter-client
                 5.2.3
                 4.4.0
jupyter-core
                 2.6.11
Markdown
ոսաթջ
                 1.14.4
parso
                 0.2.1
                 0.7.4
pickleshare
                 10.0.1
pip
prompt-toolkit
                 1.0.15
```

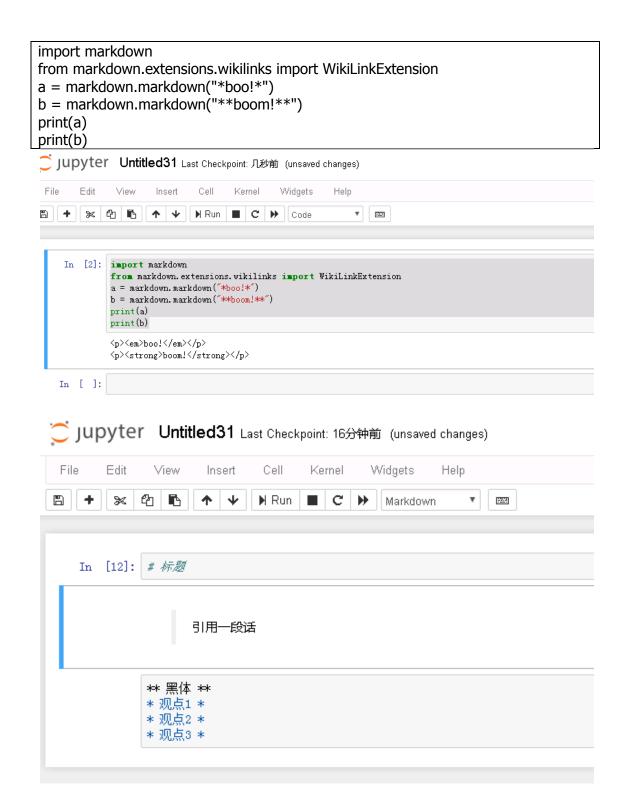
列出已过期的库

```
(wanmen35) C:\Users\Administrator>pip list --outdated
Package
               Version
                         Latest Type
bleach
               1.5.0
                         2.1.3
                                whee1
               0.9999999 1.0.1
htm151ib
                                wheel
ոսաքջ
               1.14.4
                        1.14.5 wheel
prompt-toolkit 1.0.15
                         2.0.3 wheel
(wanmen35) C:\Users\Administrator\_
```

单个更新库

```
    pip install --upgrade 库名
    3. #注意是upgrade, 不是update
```

Makedown 使用



黑体

- 观点1*
- 观点2*
- 观点3 *

 $\sum_{i=1}^{i=1} i=n$ I