

# Untitled

September 4, 2019

```
[4]: print(5)
```

5

```
[5]: a=3  
     b=3  
     print(a+b)
```

6

```
[6]: import keras
```

```
-----  
  
ModuleNotFoundError                                Traceback (most recent call last)  
  
  <ipython-input-6-88d96843a926> in <module>  
----> 1 import keras  
  
ModuleNotFoundError: No module named 'keras'
```

```
[7]: pip install keras
```

```
Collecting keras  
  Downloading https://files.pythonhosted.org/packages/f8/ba/2d058dcf1b85b9  
c212cc58264c98a4a7dd92c989b798823cc5690d062bb2/Keras-2.2.5-py2.py3-none-any.whl  
(336kB)  
    || 337kB 1.5MB/s eta 0:00:01  
Collecting keras-applications>=1.0.8 (from keras)  
  Downloading https://files.pythonhosted.org/packages/71/e3/19762fdcf62877  
ae9102edf6342d71b28fbfd9dea3d2f96a882ce099b03f/Keras_Applications-1.0.8-py3-none  
-any.whl (50kB)
```

```

    || 51kB 8.5MB/s eta 0:00:011
Requirement already satisfied: scipy>=0.14 in
./anaconda3/lib/python3.7/site-packages (from keras) (1.3.0)
Requirement already satisfied: pyyaml in ./anaconda3/lib/python3.7/site-packages
(from keras) (5.1.1)
Requirement already satisfied: numpy>=1.9.1 in ./anaconda3/lib/python3.7/site-
packages (from keras) (1.16.4)
Requirement already satisfied: h5py in ./anaconda3/lib/python3.7/site-packages
(from keras) (2.9.0)
Requirement already satisfied: six>=1.9.0 in ./anaconda3/lib/python3.7/site-
packages (from keras) (1.12.0)
Collecting keras-preprocessing>=1.1.0 (from keras)
  Downloading https://files.pythonhosted.org/packages/28/6a/8c1f62c37212d9
fc441a7e26736df51ce6f0e38455816445471f10da4f0a/Keras_Preprocessing-1.1.0-py3
-none-any.whl (41kB)
    || 51kB 13.4MB/s eta 0:00:01
Installing collected packages: keras-applications, keras-preprocessing,
keras
Successfully installed keras-2.2.5 keras-applications-1.0.8 keras-
preprocessing-1.1.0
Note: you may need to restart the kernel to use updated packages.

```

[8]: `pip install tensorflow`

```

Collecting tensorflow
  Downloading https://files.pythonhosted.org/packages/f4/28/96efba1a516cda
cc2e2d6d081f699c001d414cc8ca3250e6d59ae657eb2b/tensorflow-1.14.0-cp37-cp37m-many
linux1_x86_64.whl (109.3MB)
    || 109.3MB 4.9MB/s eta 0:00:01
|           | 54.4MB 6.2MB/s eta 0:00:09
|           | 82.0MB 5.4MB/s eta 0:00:06
| | 104.4MB 3.1MB/s eta 0:00:02
Requirement already satisfied: keras-applications>=1.0.6 in
./anaconda3/lib/python3.7/site-packages (from tensorflow) (1.0.8)
Requirement already satisfied: numpy<2.0,>=1.14.5 in
./anaconda3/lib/python3.7/site-packages (from tensorflow) (1.16.4)
Collecting gast>=0.2.0 (from tensorflow)
  Downloading https://files.pythonhosted.org/packages/4e/35/11749bf99b2d4e3cceb4
d55ca22590b0d7c2c62b9de38ac4a4a7f4687421/gast-0.2.2.tar.gz
Collecting tensorflow-estimator<1.15.0rc0,>=1.14.0rc0 (from tensorflow)
  Downloading https://files.pythonhosted.org/packages/3c/d5/21860a5b11caf0
678fbc8319341b0ae21a07156911132e0e71bffd0510d/tensorflow_estimator-1.14.0-py2.p
y3-none-any.whl (488kB)
    || 491kB 2.1MB/s eta 0:00:01
Requirement already satisfied: wheel>=0.26 in
./anaconda3/lib/python3.7/site-packages (from tensorflow) (0.33.4)
Collecting google-pasta>=0.1.6 (from tensorflow)

```

```

    Downloading https://files.pythonhosted.org/packages/d0/33/376510eb8d6246
f3c30545f416b2263eee461e40940c2a4413c711bdf62d/google_pasta-0.1.7-py3-none-
any.whl (52kB)
      || 61kB 2.7MB/s eta 0:00:01
Collecting absl-py>=0.7.0 (from tensorflow)
    Downloading https://files.pythonhosted.org/packages/3c/0d/7cbf64cac3f936
17a2b6b079c0182e4a83a3e7a8964d3b0cc3d9758ba002/absl-py-0.8.0.tar.gz (102kB)
      || 112kB 2.1MB/s eta 0:00:01
Collecting termcolor>=1.1.0 (from tensorflow)
    Downloading https://files.pythonhosted.org/packages/8a/48/a76be51647d0eb9f10e2
a4511bf3ffb8cc1e6b14e9e4fab46173aa79f981/termcolor-1.1.0.tar.gz
Requirement already satisfied: six>=1.10.0 in ./anaconda3/lib/python3.7/site-
packages (from tensorflow) (1.12.0)
Collecting astor>=0.6.0 (from tensorflow)
    Downloading https://files.pythonhosted.org/packages/d1/4f/950dfae467b384fc96bc
6469de25d832534f6b4441033c39f914efd13418/astor-0.8.0-py2.py3-none-any.whl
Collecting protobuf>=3.6.1 (from tensorflow)
    Downloading https://files.pythonhosted.org/packages/30/fd/60ce148d8e4205
bdf6da4ffec31348fd33f710c20a882b44319d54fd51ae/protobuf-3.9.1-cp37-cp37m-manylin
ux1_x86_64.whl (1.2MB)
      || 1.2MB 1.8MB/s eta 0:00:01
Collecting tensorboard<1.15.0,>=1.14.0 (from tensorflow)
    Downloading https://files.pythonhosted.org/packages/91/2d/2ed263449a078c
d9c8a9ba50ebd50123adf1f8cfbea1492f9084169b89d9/tensorboard-1.14.0-py3-none-
any.whl (3.1MB)
      || 3.2MB 2.7MB/s eta 0:00:01
Collecting grpcio>=1.8.6 (from tensorflow)
    Downloading https://files.pythonhosted.org/packages/e5/27/1f908ebb99c8d4
8a5ba4eb9d7997f5633b920d98fe712f67aaa0663f1307/grpcio-1.23.0-cp37-cp37m-manylinu
x1_x86_64.whl (2.2MB)
      || 2.2MB 3.6MB/s eta 0:00:01
Requirement already satisfied: wrapt>=1.11.1 in
./anaconda3/lib/python3.7/site-packages (from tensorflow) (1.11.2)
Requirement already satisfied: keras-preprocessing>=1.0.5 in
./anaconda3/lib/python3.7/site-packages (from tensorflow) (1.1.0)
Requirement already satisfied: h5py in ./anaconda3/lib/python3.7/site-packages
(from keras-applications>=1.0.6->tensorflow) (2.9.0)
Requirement already satisfied: setuptools in ./anaconda3/lib/python3.7/site-
packages (from protobuf>=3.6.1->tensorflow) (41.0.1)
Requirement already satisfied: werkzeug>=0.11.15 in
./anaconda3/lib/python3.7/site-packages (from
tensorboard<1.15.0,>=1.14.0->tensorflow) (0.15.4)
Collecting markdown>=2.6.8 (from tensorboard<1.15.0,>=1.14.0->tensorflow)
    Downloading https://files.pythonhosted.org/packages/c0/4e/fd492e91abdc2d
2fcb70ef453064d980688762079397f779758e055f6575/Markdown-3.1.1-py2.py3-none-
any.whl (87kB)
      || 92kB 11.8MB/s eta 0:00:01
Building wheels for collected packages: gast, absl-py, termcolor

```

```

Building wheel for gast (setup.py) ... done
Stored in directory: /home/user/.cache/pip/wheels/5c/2e/7e/a1d4d4fcede6c
381f378ce7743a3ced3699feb89bcfbdadadd
Building wheel for absl-py (setup.py) ... done
Stored in directory: /home/user/.cache/pip/wheels/9a/1e/7a/456008eb5e47f
d5de792c6139df6d5b3d5f71d51c6a0b94799
Building wheel for termcolor (setup.py) ... done
Stored in directory: /home/user/.cache/pip/wheels/7c/06/54/bc84598ba1daf
8f970247f550b175aaeee85f68b4b0c5ab2c6
Successfully built gast absl-py termcolor
Installing collected packages: gast, tensorflow-estimator, google-pasta, absl-
py, termcolor, astor, protobuf, grpcio, markdown, tensorboard, tensorflow
Successfully installed absl-py-0.8.0 astor-0.8.0 gast-0.2.2 google-pasta-0.1.7
grpcio-1.23.0 markdown-3.1.1 protobuf-3.9.1 tensorboard-1.14.0 tensorflow-1.14.0
tensorflow-estimator-1.14.0 termcolor-1.1.0
Note: you may need to restart the kernel to use updated packages.

```

```

[9]: pip install numpy scipy matplotlib scikit-learn jupyter
    pip install opencv-contrib-python
    pip install dlib

```

```

File "<ipython-input-9-77696fa3824d>", line 1
pip install numpy scipy matplotlib scikit-learn jupyter
    ^
SyntaxError: invalid syntax

```

```

[10]: pip install numpy

```

```

Requirement already satisfied: numpy in ./anaconda3/lib/python3.7/site-packages
(1.16.4)
Note: you may need to restart the kernel to use updated packages.

```

```

[11]: pip install scipy

```

```

Requirement already satisfied: scipy in ./anaconda3/lib/python3.7/site-packages
(1.3.0)
Note: you may need to restart the kernel to use updated packages.

```

```

[12]: pip install matplotlib

```

```

Requirement already satisfied: matplotlib in ./anaconda3/lib/python3.7/site-
packages (3.1.0)
Requirement already satisfied: cycler>=0.10 in ./anaconda3/lib/python3.7/site-

```

```

packages (from matplotlib) (0.10.0)
Requirement already satisfied: kiwisolver>=1.0.1 in
./anaconda3/lib/python3.7/site-packages (from matplotlib) (1.1.0)
Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 in
./anaconda3/lib/python3.7/site-packages (from matplotlib) (2.4.0)
Requirement already satisfied: python-dateutil>=2.1 in
./anaconda3/lib/python3.7/site-packages (from matplotlib) (2.8.0)
Requirement already satisfied: numpy>=1.11 in ./anaconda3/lib/python3.7/site-
packages (from matplotlib) (1.16.4)
Requirement already satisfied: six in ./anaconda3/lib/python3.7/site-packages
(from cycler>=0.10->matplotlib) (1.12.0)
Requirement already satisfied: setuptools in ./anaconda3/lib/python3.7/site-
packages (from kiwisolver>=1.0.1->matplotlib) (41.0.1)
Note: you may need to restart the kernel to use updated packages.

```

```
[13]: pip install scikit-learn
```

```

Requirement already satisfied: scikit-learn in ./anaconda3/lib/python3.7/site-
packages (0.21.2)
Requirement already satisfied: scipy>=0.17.0 in ./anaconda3/lib/python3.7/site-
packages (from scikit-learn) (1.3.0)
Requirement already satisfied: joblib>=0.11 in ./anaconda3/lib/python3.7/site-
packages (from scikit-learn) (0.13.2)
Requirement already satisfied: numpy>=1.11.0 in ./anaconda3/lib/python3.7/site-
packages (from scikit-learn) (1.16.4)
Note: you may need to restart the kernel to use updated packages.

```

```
[14]: pip install opencv-contrib-python
```

```

Collecting opencv-contrib-python
  Downloading https://files.pythonhosted.org/packages/b5/39/652dd2060ed9f6
0cf828f7d3ceff99e6aa469ce689ffa74aaf394b73fdd7/opencv_contrib_python-4.1.1.26-cp
37-cp37m-manylinux1_x86_64.whl (34.7MB)
    || 34.7MB 4.6MB/s eta 0:00:01 |
| 3.0MB 1.6MB/s eta 0:00:20 | | 26.9MB
1.7MB/s eta 0:00:05
Requirement already satisfied: numpy>=1.14.5 in
./anaconda3/lib/python3.7/site-packages (from opencv-contrib-python) (1.16.4)
Installing collected packages: opencv-contrib-python
Successfully installed opencv-contrib-python-4.1.1.26
Note: you may need to restart the kernel to use updated packages.

```

```
[15]: import cv2
```

```
[16]: import keras
```

Using TensorFlow backend.

{}: