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Kaggle DICOM IMAGE TO npy FORMAT

<https://github.com/jocicmarko/kaggle-dsb2-keras>

directory of envs(C:\Users\tccnchsucyut\AppData\Local\conda\conda\envs)

Commands in an anaconda prompt:

```
conda create -n testkeras_tensorflow pip=9.0.1 python=3.6
activate testkeras_tensorflow
python -m pip install --upgrade pip
pip install matplotlib
pip install --ignore-installed --upgrade tensorflow
pip install keras
pip install dicom
pip install scipy
pip install Pillow
deactivate
```

Clone <https://github.com/jocicmarko/kaggle-dsb2-keras>

```
Change directory
cd F:\testdicomtensorflow\testonedicom
activate testkeras_tensorflow
python data.py
```

```
(data\train\train\1\study\2ch_21)
see fig.1
```

```
conda create -n dicomshowpy36 python=3.6
activate dicomshowpy36
pip install matplotlib
```

```
edit a file Myshownpydicomimage.py and cd
F:\testdicomtensorflow\testonedicom\data
Python Myshownpydicomimage.py
```

```
import numpy as np
```

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```
img_array = np.load('filename.npy')
```

```
from matplotlib import pyplot as plt
```

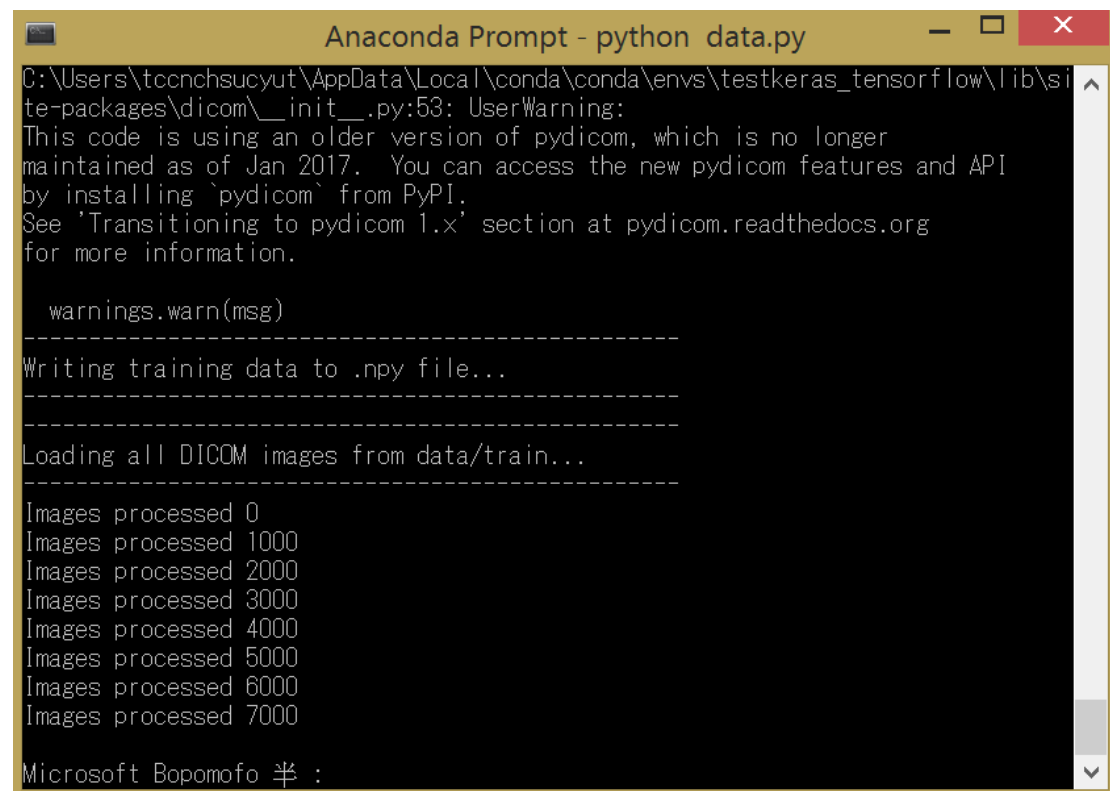
```
plt.imshow(img_array, cmap='gray')  
plt.show()
```

You could also use [PIL or pillow](#):

```
from PIL import Image
```

```
im = Image.fromarray(img_array)  
# this might fail if `img_array` contains a data type that is not supported by PIL,  
# in which case you could try casting it to a different dtype e.g.:  
# im = Image.fromarray(img_array.astype(np.uint8))
```

```
im.show()
```



```
Anaconda Prompt - python data.py  
C:\Users\tccnchsucyut\AppData\Local\conda\conda\envs\testkeras_tensorflow\lib\site-packages\dicom\__init__.py:53: UserWarning:  
This code is using an older version of pydicom, which is no longer  
maintained as of Jan 2017. You can access the new pydicom features and API  
by installing `pydicom` from PyPI.  
See 'Transitioning to pydicom 1.x' section at pydicom.readthedocs.org  
for more information.  
  
warnings.warn(msg)  
-----  
Writing training data to .npy file...  
-----  
Loading all DICOM images from data/train...  
-----  
Images processed 0  
Images processed 1000  
Images processed 2000  
Images processed 3000  
Images processed 4000  
Images processed 5000  
Images processed 6000  
Images processed 7000  
  
Microsoft Bopomofo 半 :
```

Fig1

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Read image png –numpy-> show image

<https://www.cnblogs.com/yinxiangnan-charles/p/5928689.html>

Dicom viewer mango Windows

<http://ric.uthscsa.edu/>

Train CNNs to predict the contours of the LV

<https://github.com/woshialex/diagnose-heart>

<https://github.com/jocicmarko/kaggle-dsb2-keras/>

Deep Learning with Keras and Tensorflow

<https://github.com/leriomaggio/deep-learning-keras-tensorflow/>

Keras Deep Learning Tutorial for Kaggle 2nd Annual Data Science Bowl

<https://github.com/jocicmarko/kaggle-dsb2-keras>