import numpy
[png 檔案轉存成.npy, np.save(outfile, x)]
把檔案存成 npy, 然後需要的時候再把它叫出來使用
https://goo.gl/ivuxax

[numpy.concatenate]
https://goo.gl/BJHQUB

[增加維度: np.expand_dims(x, axis=0)]
原本吃(1080, 1920, 3)的 nd.array，將其轉換成(1, 1080, 1920, 3)
(1080, 1920, 3)->(1, 1080, 1920, 3)
https://goo.gl/i8gHBs

from scipy import misc (scipy.misc.imread)
[image 讀檔, 並且自動轉變成 ndarray]
misc.imsave('face.png', face) # First we need to create the PNG file
face = misc.imread('face.png')
https://goo.gl/vHuVS5
https://docs.scipy.org/doc/scipy-0.18.1/reference/generated/scipy.misc.imread.html

進階閱讀
Building powerful image classification models using very little data
https://goo.gl/Zu2ttC

備用資料 (本次沒有使用到，也許之後用的到)
從多個 csv 檔案吃資料進來
https://goo.gl/TCSusQ

tf.train.string_input_producer (官網資料)
https://goo.gl/YvWptR

Image Processing with Numpy(附帶 convolution 圖示)
https://goo.gl/52x1J8

scipy imresize
https://docs.scipy.org/doc/scipy-0.18.1/reference/generated/scipy.misc.imresize.html

numpy array load (.npy)
https://docs.scipy.org/doc/numpy-1.13.0/reference/generated/numpy.load.html

TFRecords
http://ycszen.github.io/2016/08/17/TensorFlow 高效读取数据/

以 Python Imaging Library 進行影像資料處理(PIL)
https://yungyuc.github.io/oldtech/python/python_imaging.html

Convolutional neural networks
https://read01.com/zh-tw/Na4e0.html#.WdOxDmhL9EY

AlexNet
http://arbu00.blogspot.tw/2017/07/5-tensorflowalexnet.html
Keras AlexNet
http://dandxy89.github.io/ImageModels/alexnet/
Keras Convolutional Layers
https://keras.io/layers/convolutional/
batchnormalization-function
https://stackoverflow.com/questions/34716454/where-do-i-call-the-batchnormalization-function-in-keras
Code examples for training AlexNet using Keras and Theano
https://github.com/duggalrahul/AlexNet-Experiments-Keras
https://github.com/heuritech/convnets-keras/tree/master/convnetskeras

http://wiki.jikexueyuan.com/project/tensorflow-zh/how_tos/variables.html
https://github.com/heuritech/convnets-keras/blob/master/convnetskeras/convnets.py#L222

Shuffle two list with the same order
https://stackoverflow.com/questions/13343347/randomizing-two-lists-and-maintaining-order-in-python

from sklearn.utils import shuffle
https://stackoverflow.com/questions/4601373/better-way-to-shuffle-two-numpy-arrays-in-unison

Models for image classification with weights trained on ImageNet
https://keras.io/applications/

Keras による AlexNet を用いた犬猫分類モデル
https://qiita.com/ornew/items/8ca914d222ce068158c4

ImageNet Classification with Deep Convolutional Neural Networks (alexNet 論文)
https://papers.nips.cc/paper/4824-imagenet-classification-with-deep-convolutional-neural-networks.pdf

tf.variable
http://wiki.jikexueyuan.com/project/tensorflow-zh/how_tos/variables.html
from keras.layers.convolutional import Convolution2D (X)
from keras.layers.convolutional import Conv2D (O)
http://blog.csdn.net/johinieli/article/details/69222956

Batch size 對於學習的影響
https://www.zhihu.com/question/32673260

keras 实现常用深度学习模型 LeNet，AlexNet，ZFNet，VGGNet，GoogleNet，Resnet
http://blog.csdn.net/wmy199216/article/details/71171401

mnist cnn
https://github.com/fchollet/keras/blob/master/examples/mnist_cnn.py

其實應該要先看 data 的樣子
同一個 model，套用在不同 data 上面，其實會有著天壤之別的 accuracy，
因此如果要設計出好的 model，一定要對自己的 data 特性有所了解，
不然就只能不斷地嘗試(try and error)，在錯誤中學習。

指令: 可以轉成黑白
```
from scipy import misc
from PIL import ImageOps
face = misc.imread(os.path.join(DATA_DIR, filename), flatten=True)
// flatten=True 這表示著將原本的彩色圖(RGB)，壓成灰階的黑白圖
// misc.imread 讀進來的資料格式會是 ndarray (這是一個很方便的指令!)
```