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In [1]:
import os
import tensorflow as tf
import sys
import glob
import pickle
In [2]:
folder = "test"
image path = "/Users/mingjuhe/Desktop/CPE646-Finalprject"
In [3]:
path = os.path.join(image path,folder,'*g')
full path = glob.glob(path)
In [4]:
full path
Out[4]:
['/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat1.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat10.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat100.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat11.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat12.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat13.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat14.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat15.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat16.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat17.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat18.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat19.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat2.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat20.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat21.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat22.jpg',
 '/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat23.jpg',
 '/Users/mingiuhe/Desktop/CPE646-Finalpriect/test/Cat24.ipg',
In [5]:
len(full path)
Out[5]:
300
```

In [6]:

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In [7]:
pred Dog cat = []
for i in full path:
    image data = tf.gfile.FastGFile(i, 'rb').read()
    label lines = [line.rstrip() for line in tf.gfile.GFile("/Users/mingjuhe/Desktor
    with tf.Session() as sess:
        softmax tensor = sess.graph.get tensor by name('final result:0')
        predictions = sess.run(softmax tensor, {'DecodeJpeg/contents:0': image data)
        pred Dog cat.append(predictions)
        top k = predictions[0].argsort()[-len(predictions[0]):][::-1]
        print(i)
        for node id in top k:
            human string = label lines[node id]
            score = predictions[0][node id]
            print('%s (score = %.5f)' % (human string, score))
            filename = "result.txt"
            with open(filename, 'a+') as g:
                g.write('\n**%s**\n' % (i))
                for node id in top k:
                    human string = label lines[node id]
                    score = predictions[0][node_id]
                    g.write(i)
                    g.write('%s (score = %.5f)\n\n' % (human string, score))
```

```
Cat (score = 0.99848)
Dog (score = 0.00387)
/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat10.jpg
Cat (score = 0.98958)
Dog (score = 0.30992)
/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat100.jpg
Cat (score = 0.99958)
Dog (score = 0.01146)
/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat11.jpg
Cat (score = 0.98550)
Dog (score = 0.06604)
/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat12.jpg
Cat (score = 0.99844)
Dog (score = 0.01270)
/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat13.jpg
Cat (score = 0.86974)
Dog (score = 0.08597)
/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat14.jpg
```

/Users/mingjuhe/Desktop/CPE646-Finalprject/test/Cat1.jpg

In []:

In []:		