

imageset

May 16, 2018

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In [8]: import flickrapi
import urllib.request
import matplotlib.pyplot as plt
import numpy as np
import skimage.io
import skimage.transform
import requests
from io import BytesIO

In [9]: #login
api_key = u'd41cf9eb9fb96bcb6c143ba0e6793e0d'
api_secret = u'140ed60af483e978'
flickr = flickrapi.FlickrAPI(api_key, api_secret)

In [10]: #search keyword
keyword = 'mountain'
#save path
dir_name = 'mountain5000'
traindir_name = 'mountaintest'
photos = flickr.walk(text=keyword, tag_mode='all', tags=keyword, extras='url_c',\
                      sort='relevance', per_page=100)

In [12]: import os
dir_exists = os.path.isdir(dir_name)
if not dir_exists:
    os.mkdir(dir_name)
    print("Making directory %s" % dir_name)
else:
    print("Will store images in directory %s" % dir_name)

dir_exists = os.path.isdir(traindir_name)
if not dir_exists:
    os.mkdir(traindir_name)
    print("Making directory %s" % traindir_name)
else:
    print("Will store images in directory %s" % traindir_name)
```

Making directory 1mountain5000
Making directory 1mountaintest

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In [ ]: import warnings
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#nimage the training images number
nimage = 5000
#nt the total number(train + test)
nt=5100
i = 0
j=0
nrow = 256
ncol = 256
for photo in photos:
    url=photo.get('url_c')
    if not (url is None):

        # Create a file from the URL
        # This may only work in Python3
        response = requests.get(url)
        file = BytesIO(response.content)

        # Read image from file
        im = skimage.io.imread(file)

        # Resize images
        im1 = skimage.transform.resize(im,(nrow,ncol),mode='constant')

        # Convert to uint8, suppress the warning about the precision loss
        with warnings.catch_warnings():
            warnings.simplefilter("ignore")
            im2 = skimage.img_as_ubyte(im1)

        # Save the image
        local_name = '{0:s}/{1:s}_{2:04d}.jpg'.format(dir_name,keyword, j)
        skimage.io.imsave(local_name, im2)
        print(local_name)
        i = i + 1
        j = j+ 1
#when finish training data save convert to test save path
if (i == nimage):
    dir_name=trainidir_name
    j = 0
if(i>= nt):
    break
```

1mountain5000/mountain_0000.jpg
1mountain5000/mountain_0001.jpg

1mountain5000/mountain_0002.jpg
1mountain5000/mountain_0003.jpg
1mountain5000/mountain_0004.jpg
1mountain5000/mountain_0005.jpg
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1mountain5000/mountain_0043.jpg
1mountain5000/mountain_0044.jpg
1mountain5000/mountain_0045.jpg
1mountain5000/mountain_0046.jpg
1mountain5000/mountain_0047.jpg
1mountain5000/mountain_0048.jpg
1mountain5000/mountain_0049.jpg

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1mountain5000/mountain_0050.jpg  
1mountain5000/mountain_0051.jpg  
1mountain5000/mountain_0052.jpg  
1mountain5000/mountain_0053.jpg  
1mountain5000/mountain_0054.jpg  
1mountain5000/mountain_0055.jpg  
1mountain5000/mountain_0056.jpg  
1mountain5000/mountain_0057.jpg
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In []: