

In [1]:

```
import os
import csv
#import argparse
import numpy as np
import scipy.misc
```

In [2]:

```
w, h = 48, 48
image = np.zeros((h, w), dtype=np.uint8)
id = 1
file = 'fer2013.csv'
out = 'F:\emotion recog\data'
with open(file) as csvfile:
    datareader = csv.reader(csvfile, delimiter=',')
    next(datareader, None)

    for row in datareader:

        emotion = row[0]
        pixels = row[1].split()
        usage = row[2]
        pixels_array = np.asarray(pixels, dtype=np.int)

        image = pixels_array.reshape(w, h)
        #print image.shape

        stacked_image = np.dstack((image,) * 3)
        #print stacked_image.shape

        image_folder = os.path.join(out, usage)
        if not os.path.exists(image_folder):
            os.makedirs(image_folder)
        image_file = os.path.join(image_folder, str(id)+'_'+emotion+'.jpg')
        scipy.misc.imsave(image_file, stacked_image)
        id += 1
        if id % 100 == 0:
            print('Processed {} images'.format(id))

print("Finished processing {} images".format(id))
```

```
c:\users\priyanshu\appdata\local\programs\python\python36\lib\site-package  
s\ipykernel_launcher.py:27: DeprecationWarning: `imsave` is deprecated!  
`imsave` is deprecated in SciPy 1.0.0, and will be removed in 1.2.0.  
Use ``imageio.imwrite`` instead.
```

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In [ ]: