

```

import sys
import matplotlib.pyplot as plt
import numpy as np
import os
import PIL
from PIL import Image

filename = 'p'

s = []
l = range(0, 255, 25)
l.append(255)
for j in l:
    print j
    img = Image.open(filename+str(j)+'.jpg').convert('L')#
conversion argv[] argument 1
    im = np.asarray(img) # Make a numpy array
    s.append(np.sum(im)/(1000000.))

#np.savetxt((filename+str(j)+'.txt'), profile)
#print(np.mean(s), np.std(s)) # ere relativ

plt.figure(1)
plt.clf()
plt.ylabel("Intensite en unite arbitraire")
plt.xlabel("Niveaux de gris" )
plt.xlim(0, 255)
plt.plot(l, s, 'o-')
plt.show()

```