

EXPT 2 e

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#Plot histogram of an image
import cv2
import numpy as np
import matplotlib.pyplot as plt
abc=cv2.imread("E:/IPMV images/flower-729512__340.jpg",0)
plt.subplot(2,2,1)
plt.title('Original Image')
plt.imshow(abc,cmap='gray')

plt.subplot(2,2,2)
plt.title('Histogram of Original image')
plt.xlim(0,255)
plt.ylim(0,10000)
plt.hist((abc.flatten()),256,[0,255],color='r')
plt.legend(['Histogram'])

xyz=cv2.equalizeHist(abc)
plt.subplot(2,2,3)
plt.title('Equalized image')
plt.imshow(xyz,cmap='gray')
plt.subplot(2,2,4)
plt.xlim(0,255)
plt.ylim(0,10000)
plt.hist((xyz.flatten()),256,[0,255],color='r')
plt.legend(['Equalized Histogram'])
plt.show()
```

