#Note this code is mainly for COLAB users as they cannot import their own image from disk, #This takes imgs from the net as a link. #For NORMAL procedure while doing it on JUPYTER using cv2.imread visit--#https://colab.research.google.com/drive/1PUMdKxTVdCzVfcDIklA5d6wCiPds4Gu2#scrollTo=uyTCkR #Do not execute code on the above link as it will not work... use on jupyter and provide p #People using colab may also refer to this link to know what on earth does the code say as #I've covered every block of code there over here, so peace. #The code on the above page is different than this one #Following is the code for ppl who are using imgs from netimport cv2 import matplotlib.pyplot as plt import numpy as np from skimage import io from skimage.color import rgb2gray #https://images.fineartamerica.com/images-medium-large-5/1-peacock-feather-ithinksky.jpg # #Copy the above link for a diff pic and change the link for img. If ya wanna use ur own li img = io.imread('https://www.industrialempathy.com/img/remote/ZiClJf-640w.jpg') img1 = rgb2gray(img) #For grayscale #RGB plt.imshow(img) plt.title('Original') plt.axis('off') plt.show() plt.imshow(cv2.cvtColor(img, cv2.COLOR_RGB2BGR)) plt.title('BGR') plt.axis('off') plt.show() #Grayscale plt.imshow(img1, cmap = plt.cm.gray) plt.title('Grayscale') plt.axis('off') plt.show() print('') #Size of img print(img.shape) print('') print(img1.shape)#When loaded as grayscale note there are no color channels for grayscale #minimum and maximum pixel value present in the image print (img.min()) print (img.max()) print('') #Splitting Color Channel nlt.imshow(img):nlt.axis('off'):nlt.title('RGB')

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b = img[:,:,0]
g = img[:,:,1]
r = img[:,:,2]
fig, bgr = plt.subplots(1,3)
bgr[0].imshow(cv2.cvtColor(b, cv2.COLOR_BGR2RGB));bgr[0].axis('off');bgr[0].set_title('blu
bgr[1].imshow(cv2.cvtColor(g, cv2.COLOR_BGR2RGB));bgr[1].axis('off');bgr[1].set_title('gre
bgr[2].imshow(cv2.cvtColor(r, cv2.COLOR_BGR2RGB));bgr[2].axis('off');bgr[2].set_title('red
plt.show()
print('')
#Cropping
plt.imshow(img)
plt.title('Pic')
plt.axis('on')
plt.show()
print('')
roi = img[100:200,300:640] #img[range of y, range of x]
plt.imshow(roi)
plt.title('Cropped_Pic')
plt.axis('off')
plt.show()
 C→
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Original



BGR



Grayscale



(360, 640, 3)

(360, 640)

0 255



blue

green

red









