

```
import cv2
import matplotlib.pyplot as plt
img = cv2.imread('yuvi dhoni.jpg',1)
print(type(img))
```

```
<class 'numpy.ndarray'>
```

```
img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
plt.imshow(img) # converting BGR to RGB for using matplotlib
plt.axis('off')
plt.show()
```



```
gray_img = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
plt.imshow(gray_img, cmap = 'gray')
plt.axis('off')
plt.show()
```



```
face_cascade = cv2.CascadeClassifier(cv2.data.haarcascades + 'haarcascade_frontalface_default.xml')
faces = face_cascade.detectMultiScale(gray_img, 1.1, 4)
```

```
for (x,y,w,h) in faces:
    img = cv2.rectangle(img, (x,y), (x+w,y+h), (0,255,0),2)
```

```
print(len(faces))
```

```
1
```

```
img = cv2.resize(img, (int(img.shape[1]), int(img.shape[0])))
img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
```

```
cv2.imshow(img)
```



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