

```
In [ ]: ## pip install opencv-python
```

Import Modules

```
In [1]: import cv2  
import matplotlib.pyplot as plt  
%matplotlib inline
```

HAAR Cascade File Path

```
In [2]: face_cascade = cv2.CascadeClassifier(cv2.data.haarcascades+'haarcascade_fron
```

Load the Image

```
In [88]: image = cv2.imread('test image.jpg')  
         # convert to rgb  
         img_rgb = cv2.cvtColor(image, cv2.COLOR_BGR2RGB)  
         plt.imshow(img_rgb)
```

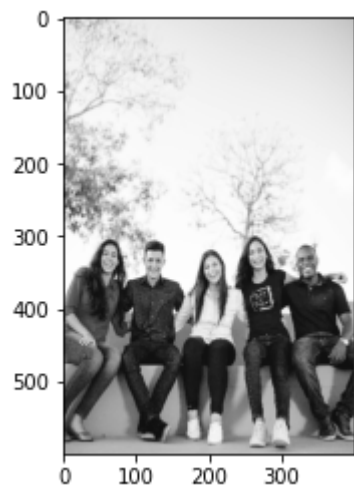
```
Out[88]: <matplotlib.image.AxesImage at 0x2333898a4f0>
```



```
In [89]: # resize the image  
         image = cv2.resize(image, (400, 600))
```

```
In [90]: # convert to gray scale image  
         gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)  
         plt.imshow(gray, cmap='gray')
```

```
Out[90]: <matplotlib.image.AxesImage at 0x23338e498b0>
```



Detect Faces

```
In [103... faces = face_cascade.detectMultiScale(gray)
```

```
In [104... len(faces)
```

Out[104]: 5

```
In [105... # display the faces in the image
for (x, y, w, h) in faces:
    cv2.rectangle(image, (x, y), (x+w, y+h), (0, 255, 0), 2)
cv2.imshow("Faces ", image)
cv2.waitKey(0)
```

Out[105]: 13

```
In [ ]:
```