face-detection

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```
[]: import cv2 as cv import numpy as np
```

Read the original image from the file 'cat.jpg'

```
[]: img = cv.imread('../../Images/Group2.jpg')
    cv.imshow('Person', img)
```

Convert the original image to grayscale

```
[]: gray = cv.cvtColor(img, cv.COLOR_BGR2GRAY)
    cv.imshow('Gray', gray)
```

Load the Cascade Classifier

Print the number of faces detected

```
[]: print(f'Number of faces detected: {len(faces_rect)}')
[]: for(x,y,w,h) in faces_rect:
    cv.rectangle(img, (x,y), (x+w, y+h), (0,255,0), thickness=2)
```

```
[]: cv.imshow('Detected Faces', img)
```

These method is useful for simple images but if you have more complex images is not the best choice These method is so sensible to images with noise

```
[]: cv.waitKey(0)
```