Assignment 6
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Develop a python code to detect any object using Haar cascade classifier.

```python
import cv2

face_cascade = cv2.CascadeClassifier(cv2.data.haarcascades +
'haarcascade_frontalface_default.xml')
eye_cascade = cv2.CascadeClassifier(cv2.data.haarcascades +
'haarcascade_eye.xml')

cap=cv2.VideoCapture(0)

while True:
        _, img = cap.read()
        gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

        faces = face_cascade.detectMultiScale(gray, 1.3, 5)
        #faces = face_cascade.detectMultiScale(gray)

        for (x,y,w,h) in faces:
            cv2.rectangle(img,(x,y),(x+w,y+h),(255,0,0),2)
            roi_gray = gray[y:y+h, x:x+w]
            roi_color = img[y:y+h, x:x+w]
            eyes = eye_cascade.detectMultiScale(roi_gray)
            for (ex,ey,ew,eh) in eyes:
                cv2.rectangle(roi_color,(ex,ey),(ex+ew,ey+eh),(0,255,0),2)

        cv2.imshow('img',img)

        k = cv2.waitKey(0)
        if k == 27:          # wait for ESC key to exit
            cv2.destroyAllWindows()
        elif k == ord('s'): # wait for 's' key to save and exit
            cv2.imwrite('messigray.png',img)
            cv2.destroyAllWindows()

cap.release()
```