

Benjamin Haedt

Quiz 2 or something

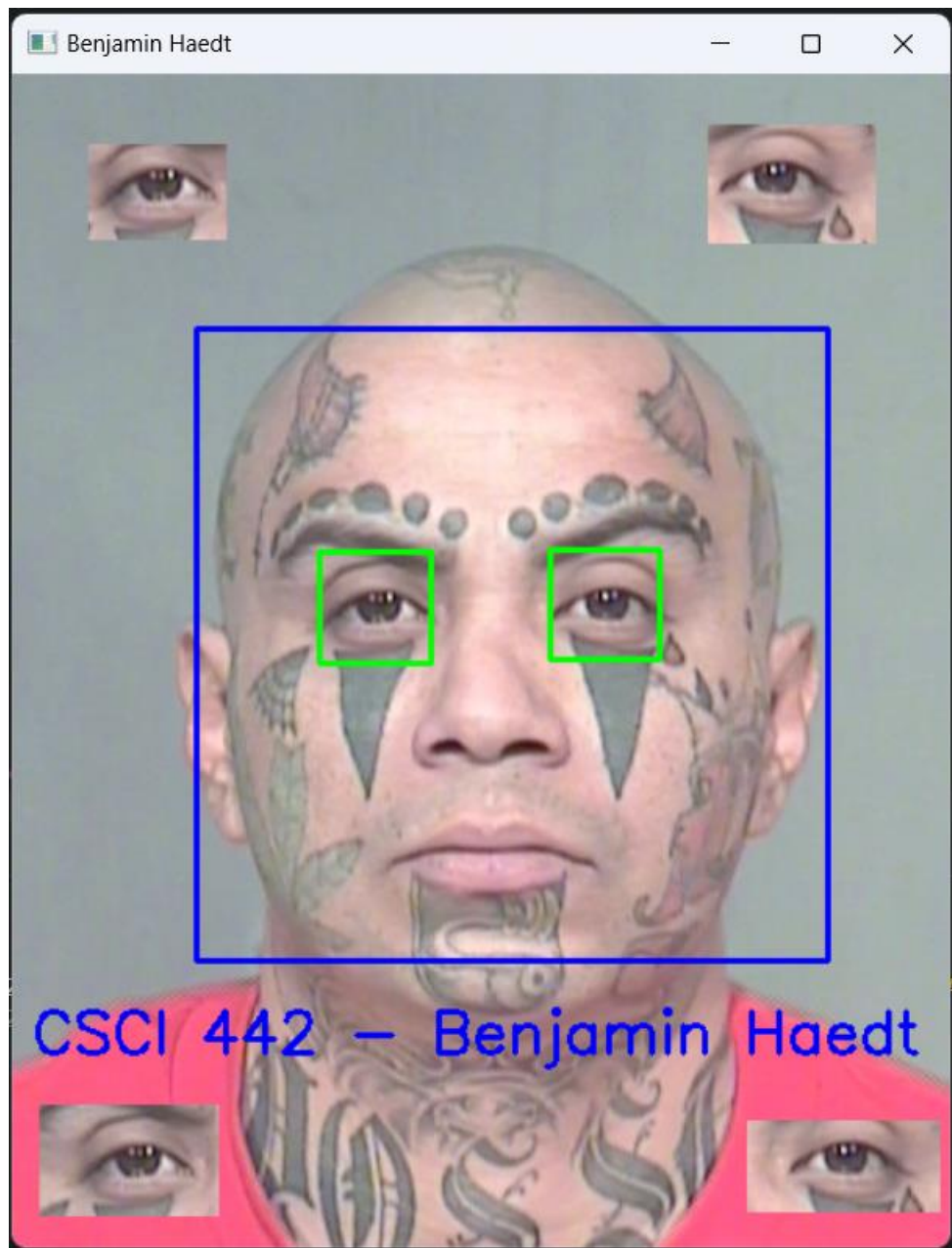
CSCI 442 – Robot dicks







CSCI 442 - Benjamin Haedt



```
def increase_brightness(img, value=30):  
    hsv = cv.cvtColor(img, cv.COLOR_BGR2HSV)  
    h, s, v = cv.split(hsv)  
    lim = 255 - value  
    v[v > lim] = 255  
    v[v <= lim] += value  
    final_hsv = cv.merge((h, s, v))  
    img = cv.cvtColor(final_hsv, cv.COLOR_HSV2BGR)  
    return img  
import cv2 as cv
```

```

img = cv.imread('mugshot.jpg')
eye = cv.CascadeClassifier('./LectureCode/data/haarcascades/haarcascade_eye.xml')
face =
cv.CascadeClassifier('./LectureCode/data/haarcascades/haarcascade_frontalface_default.xml')
gray = cv.cvtColor(img, cv.COLOR_BGR2GRAY)
faces = face.detectMultiScale(gray, 1.3, 5)
for (x, y, w, h) in faces:
    cv.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.detectMultiScale(roi_gray, 1.1, 5, minSize=(20, 20))
    for (ex, ey, ew, eh) in eyes:
        if ew > 55:
            cv.rectangle(roi_color, (ex, ey), (ex + ew, ey + eh), (0, 255, 0), 2)
img = increase_brightness(img, 30)
img_text = cv.putText(img, 'CSCI 442 - Benjamin Haedt', (10, 500), cv.FONT_HERSHEY_SIMPLEX, 1,
(255, 0, 0), 2)
cv.imshow('Benjamin Haedt', img_text)
cv.waitKey(0)
cv.destroyAllWindows()

```