**Video face and eye recognitions**

import numpy as np  
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:  
 ret, img = cap.read()  
 gray = cv2.cvtColor(img, cv2.COLOR\_BGR2GRAY)  
 faces = face\_cascade.detectMultiScale(gray, 1.3, 5)  
  
 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(30) & 0xff  
 if k == 27:  
 break  
  
cap.release()  
cv2.destroyAllWindows()

