```
In [6]: import cv2
         import numpy as np
In [ ]: # all cv2 color functions
         flags = [i for i in dir(cv2) if i.startswith('COLOR_')]
         print(flags)
In [7]: green = np.uint8([[[0, 255, 0]]])
In [8]: hsv_green = cv2.cvtColor(green, cv2.COLOR_BGR2HSV)
In [9]: hsv_green
        array([[[ 60, 255, 255]]], dtype=uint8)
In [13]: lower_red = np.array([150, 150, 0])
         upper_red = np.array([180, 255, 255])
In [ ]: cap = cv2.VideoCapture(0) # 0 internal camera
         while(1):
             _,frame = cap.read()
             hsv = cv2.cvtColor(frame, cv2.COLOR_BGR2HSV)
             mask = cv2.inRange(hsv, lower_red, upper_red)
             result = cv2.bitwise_and(frame, frame, mask = mask)
             cv2.imshow('HSV', hsv)
             cv2.imshow('frame', frame)
             cv2.imshow('mask', mask)
             cv2.imshow('result', result)
             k = cv2.waitKey(5) & 0xFF
             if k == 27: # if user pressed escape button on keyboard
                 break
         cap.release()
         cv2.waitKey(1)
         cv2.destroyAllWindows()
         cv2.waitKey(1)
         [ WARN:0] global ../modules/videoio/src/cap_gstreamer.cpp (616) isPipelinePlaying OpenCV | GStreamer warning: GStreamer: pipeline have not been created
```