

SOURCE CODE FOR COLOR DETECTION USING OPENCV

```
import cv2
import numpy as np
import matplotlib.pyplot as plt
img=cv2.imread('D:\internship\opencv\images\colors.jpg')
plt.figure(figsize=(20,8))
plt.imshow(img)
grid_RGB=cv2.cvtColor(img,cv2.COLOR_BGR2RGB)
plt.figure(figsize=(20,8))
plt.imshow(grid_RGB)
grid_HSV=cv2.cvtColor(grid_RGB,cv2.COLOR_RGB2HSV)
lower=np.array([25,150,50])
upper=np.array([35,255,255])
mask=cv2.inRange(grid_HSV,lower,upper)
plt.figure(figsize=(20,8))
plt.imshow(mask)
res=cv2.bitwise_and(grid_RGB,grid_RGB,mask=mask)
plt.figure(figsize=(20,8))
plt.imshow(res)
```