

```
1 import numpy as np
2 import cv2
3
4 img = cv2.imread('images/color_ball.jpg')
5
6 cv2.imshow("Image Original", img)
7
8 for y in range(img.shape[0]):
9     for x in range(img.shape[1]):
10         if img[y,x,0] > 180 and (img[y,x,1] > 90 and img[y,x,1] < 150) and (img[y,x,2] < 20) :
11             img[y,x] = img[y,x]
12         else:
13             img[y,x] = [0,0,0]
14
15
16 cv2.imshow("Image Filtered", img)
17
18 while(True):
19     if cv2.waitKey(1) & 0xFF == ord('q'):
20         break
```