import cv2

import numpy as np

import matplotlib.pyplot as plt

from matplotlib.colors import hsv\_to\_rgb

%matplotlib inline

nemo=cv2.imread('1.jpg')

plt.imshow(nemo)

plt.show()

nemo=cv2.cvtColor(nemo,cv2.COLOR\_BGR2RGB)

plt.imshow(nemo)

plt.show()

hsv\_nemo=cv2.cvtColor(nemo,cv2.COLOR\_BGR2HSV)

plt.imshow(hsv\_nemo)

plt.show()

light\_orange=(1,190,200)

dark\_orange=(18,255,255)

lo\_squre=np.full((10,10,3),light\_orange,dtype=np.uint8)/255.0

do\_squre=np.full((10,10,3),dark\_orange,dtype=np.uint8)/255.0

plt.subplot(1,2,1)

plt.imshow(hsv\_to\_rgb(do\_squre))

plt.subplot(1,2,2)

plt.imshow(hsv\_to\_rgb(lo\_squre))

plt.show()

mask=cv2.inRange(hsv\_nemo,light\_orange,dark\_orange)

result=cv2.bitwise\_and(nemo,nemo,mask=mask)

plt.subplot(1,2,1)

plt.imshow(mask,cmap="gray")

plt.subplot(1,2,2)

plt.imshow(result)

plt.show()





