import cv2

import matplotlib.pyplot as plt

import numpy as np

flags = [i for i in dir(cv2) if i.startswith('COLOR\_')]

len(flags)

flags[40]

nemo = cv2.imread('tree.png')

plt.imshow(nemo)

plt.show()

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

plt.imshow(nemo)

plt.show()

hsv\_nemo = cv2.cvtColor(nemo, cv2.COLOR\_RGB2HSV)

#light\_orange = (234, 240, 226)

#dark\_orange = (255, 255, 255)

#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()

light\_white = (0, 0, 200)

dark\_white = (145, 60, 255)

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

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

plt.subplot(1, 2, 1)

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

plt.subplot(1, 2, 2)

plt.imshow(result\_white)

plt.show()

#final\_mask = mask + mask\_white

final\_mask = mask\_white

final\_result = cv2.bitwise\_and(nemo, nemo, mask=final\_mask)

plt.subplot(1, 2, 1)

plt.imshow(final\_mask, cmap="gray")

plt.subplot(1, 2, 2)

plt.imshow(final\_result)

plt.show()

blur = cv2.GaussianBlur(final\_result, (7, 7), 0)

plt.imshow(blur)

plt.show()

  

