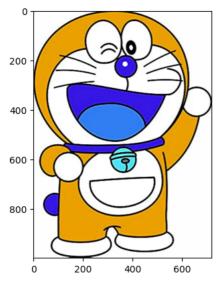
```
import cv2

flags = [i for i in dir(cv2) if i.startswith('COLOR_')]
import matplotlib.pyplot as plt
import numpy as np

nemo = cv2.imread('/content/doraemon.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_RGB2HSV)
light_orange = (1, 190, 200)
dark_orange = (18, 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()
```

```
0
                                    0
                                 200
200
400
                                 400
600
                                 600
800
                                 800
          200
                  400
                          600
                                            200
                                                    400
                                                            600
```

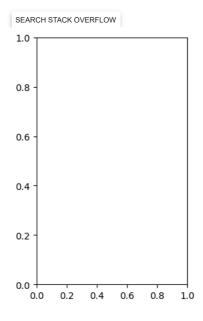
```
light_white = (0, 0, 200)
dark_white = (145, 60, 255)

lw_square = np.full((10, 10, 3), light_white, dtype=np.uint8) / 255.0
dw_square = np.full((10, 10, 3), dark_white, dtype=np.uint8) / 255.0

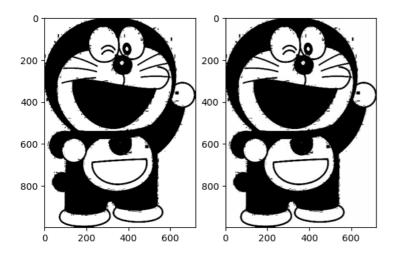
plt.subplot(1, 2, 1)
plt_imshow(box to pph(lw square))
```

```
plt.imshow(hsv_to_rgb(lw_square))
plt.subplot(1, 2, 2)
plt.imshow(hsv_to_rgb(dw_square))
plt.show()
```

NameError: name 'hsv_to_rgb' is not defined

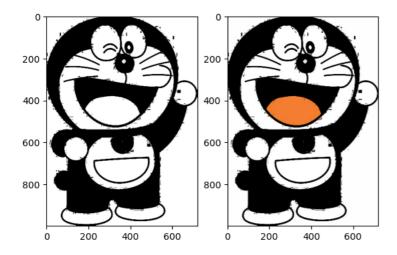


```
mask_white = cv2.inRange(hsv_nemo, light_white, dark_white)
result_white = cv2.bitwise_and(nemo, nemo, mask=mask_white)
plt.subplot(1, 2, 1)
plt.imshow(mask_white, cmap="gray")
plt.subplot(1, 2, 2)
plt.imshow(result_white)
plt.show()
```



final_mask = mask + mask_white

```
final_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()
```

results = [segment_fish(friend) for friend in nemos_friends]

• >