3. OpenCV image writing

3.1 Function method: cv2.imwrite('new_img_name', img)

Parameter meaning:

The first parameter is the saved file name

The second parameter is the saved image

3.2. Actual effect display

Code path:

/home/pi/Rider-pi_class/4.Open Source CV/A.introduction/Introduction_to_OpenCV/03_OpenCV_Img_Write.ipynb

```
import cv2

# 1 Read the file 2 Parse the package format 3 Decode the data 4 Load the data
img = cv2.imread('yahboom.jpg', 1)
# cv2.imshow('image', img) #This needs to be executed in the Raspberry Pi graphical interface command line, and an image window will be displayed
cv2.imwrite('yahboom1.jpg', img) # 1 name 2 data
```

```
#bgr8 to jpeg format
import enum
import cv2

def bgr8_to_jpeg(value, quality=75):
return bytes(cv2.imencode('.jpg', value)[1])
```

```
import ipywidgets.widgets as widgets

image_widget = widgets.Image(format='jpg', width=320, height=240)
display(image_widget)
img = cv2.imread('yahboom1.jpg',1)
image_widget.value = bgr8_to_jpeg(img)
```

02_OpenCV_Img_Read_Dis ● | 03_OpenCV_Img_Write.ipy ● | 04_OpenCV_Img_Quality.ip | 05_OpenCV_Pixel_Ops.ipyr

Code | Python 3 (ipykernel)

```
import enum
import cv2

def bgr8_to_jpeg(value, quality=75):
    return bytes(cv2.imencode('.jpg', value)[1])
```

[3]:

```
import ipywidgets.widgets as widgets

image_widget = widgets.Image(format='jpg', width=320, height=240)
display(image_widget)
img = cv2.imread('yahboom1.jpg',1)
image_widget.value = bgr8_to_jpeg(img)
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