

3. Open Source CV image writing

Function method: cv2.imwrite('yahboom1.jpg', img)

The first parameter is the saved file name, the second parameter is the saved image

Below we demonstrate the method of image writing. First, read an image yahboom.jpg, and then write it to yahboom1.jpg.

The code was run on jupyterlab

Code path:/home/pi/Yahboom_Project/1.OpenCV course/01 Getting started/02_OpenCV picture writing.ipynb

```
import cv2

# 1 Reading of files 2 Encapsulation format analysis 3 Data decoding 4 Data loading

img = cv2.imread('yahboom.jpg', 1)

# cv2.imshow('yahboom', img) #See the explanation below

cv2.imwrite('yahboom1.jpg', img) # 1 name 2 data
```

Note: Here our cv2.imshow('yahboom', img) function cannot be executed in jupyLab. If you need to use this sentence to display the read image, you need to execute the python file through the command in the Raspberry Pi graphical interface. Command: python3 XX.py

```
#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)
```