

## 1.1.2 OpenCV image read and display

## 1) Reading of images:

img = cv2.imread('yahboom.jpg', 0) The first parameter is the path of the image, and the second parameter is how to read the image.

cv2.IMREAD\_UNCHANGED: Keep the original format, can be represented by parameter -1;

cv2.IMREAD\_COLOR: Reading pictures in grayscale, can be represented by parameter 0;

cv2.IMREAD\_GRAYSCALE: Reading pictures in color mode, can be represented by 1, default value;

cv2.IMREAD\_UNCHANGED: Read pictures and include its alpha channel, can be represented by 2.

## 2) Displaying of image:

Path:

/home/jetson/Dofbot\4.opencv\1.OpenCV\_Getting\_started\01\_OpenCV\_image\_read \_display.ipynb

#bgr8 to jpeg format

import enum import cv2

def bgr8\_to\_jpeg(value, quality=75):
return bytes(cv2.imencode('.jpg', value)[1])

# The image component in jupyterLab shows the read image

import ipywidgets.widgets as widgets
image\_widget = widgets.Image(format='jpg', width=800, height=800)
display(image\_widget)

image\_widget.value = bgr8\_to\_jpeg(img)



