

# Image writing

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

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

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

Code path:

```
~/jetcobot_ws/src/jetcobot_opencv/opencv_basic01_Getting_Started_with_OpenCV/02_OpenCV_Image_writing.ipynb
```

```
import cv2
# 1 File reading 2 Packaging 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 dat
```

The `cv2.imshow('yahboom', img)` function in jupyterLab cannot be executed. If you need to use this sentence to display the read image, you need to execute the python file through the 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)
```

When the code block is run, you can see that the `yahboom.jpg` image is written to `yahboom1.jpg`.

