# Image grayscale conversion

#### **Image grayscale conversion**

- 1. Implementation principle
- 2. Implementation effect
- 3. Implementation code

### 1. Implementation principle

Use cv2.cvtColor() function to convert color space.

# 2. Implementation effect

```
cd ~/opencv

python3 08.image_grayscale.py
```

Note: Select the image and press q to exit the program!



# 3. Implementation code

```
import cv2

def grayscale_image(input_path, output_path):
    image = cv2.imread(input_path)
    if image is None:
        print("Error: Unable to open image file.")
        return
    gray_image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
```