

# Image reading

## Image reading

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OpenCV (Open Source Computer Vision Library) is an open source computer vision and machine learning software library, which is widely used in image processing, video processing, machine vision, artificial intelligence and other fields.

## 1. Implementation principle

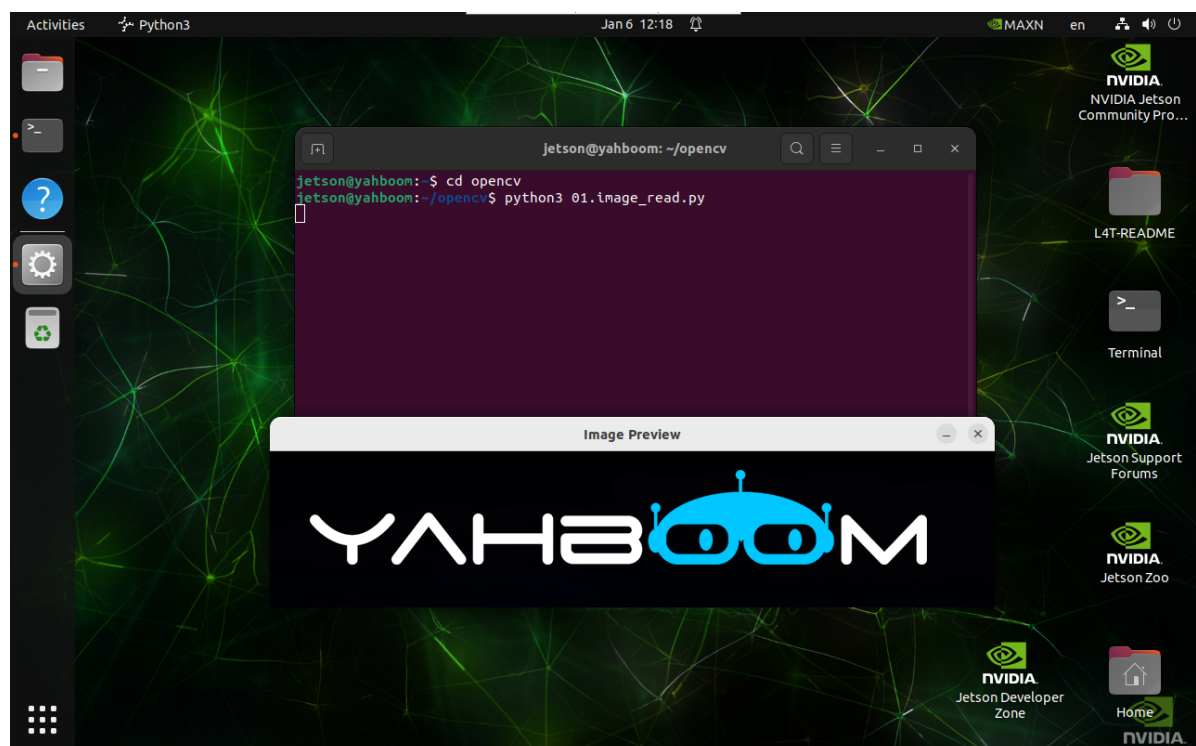
Use the `cv2.imread()` function to read the image file, and the `cv2.imshow()` function to display the image.

## 2. Implementation effect

```
cd ~/opencv
```

```
python3 01.image_read.py
```

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



## 3. Implementation code

```
import cv2

def read_image(file_path):
    image = cv2.imread(file_path)
    if image is None:
        print("Error: Unable to open image file.")
    else:
        cv2.imshow('Image Preview', image)
        cv2.waitKey(0)
        cv2.destroyAllWindows()

read_image('/home/jetson/opencv/images/yahboom_logo.png')
```