

Add polygons

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1. Implementation principle

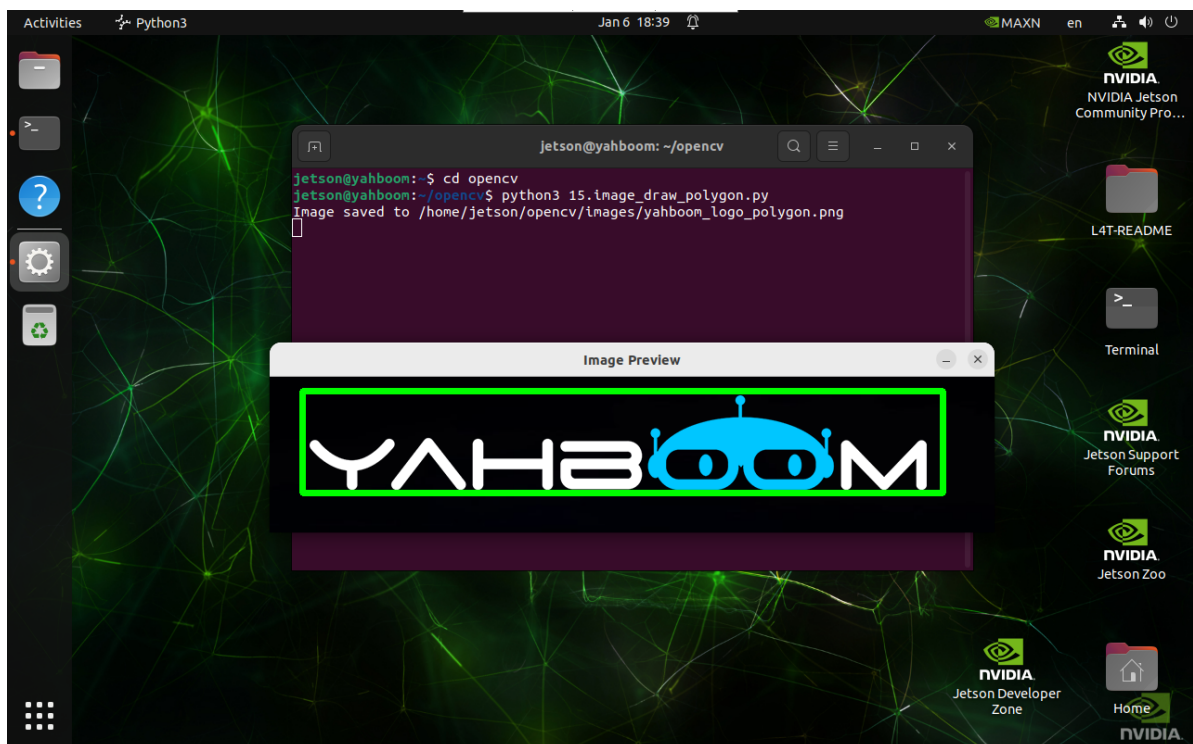
Use `cv2.polylines()` function to draw polygons on the image.

2. Implementation effect

```
cd ~/opencv
```

```
python3 15.image_draw_polygon.py
```

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



3. Implementation code

```
import cv2
import numpy as np

def draw_polygon(input_path, output_path, points, is_closed, color, thickness):
    image = cv2.imread(input_path)
    if image is None:
        print("Error: Unable to open image file.")
        return
```

```
points = np.array(points, np.int32)
points = points.reshape((-1, 1, 2))
cv2.polylines(image, [points], is_closed, color, thickness)
if cv2.imwrite(output_path, image):
    print(f"Image saved to {output_path}")
    cv2.imshow('Image Preview', cv2.imread(output_path))
    cv2.waitKey(0)
    cv2.destroyAllWindows()
else:
    print("Error: Unable to save image file.")

draw_polygon('/home/jetson/opencv/images/yahboom_logo.png', \
             '/home/jetson/opencv/images/yahboom_logo_polygon.png', \
             [(35, 15), (725, 15), (725, 125), (35, 125)], True, (0, 255, 0), 5)
```