

4、 Line segment drawing

When using OpenCV to process images, we sometimes need to draw line segments, rectangles, etc. on the image. OpenCV uses the `line(dst, pt1, pt2, color, thickness=None, lineType=None, shift=None)` function to draw line segments.

Parameter Description:

| `dst`: output image.

| `pt1, pt2`: required parameters. The coordinate points of the line segment represent the starting point and the ending point respectively.

| `color`: required parameter. Used to set the color of line segments

| `thickness`: optional parameter. Used to set the width of the line segment

| `lineType`: optional parameter. Used to set the type of line segment, optional 8 (8 adjacent connecting lines - default), 4 (4 adjacent connecting lines) and `cv2.LINE_AA` is anti-aliasing

The code was run on jupyterlab

Code path: /home/pi/Yahboom_Project/1.OpenCV course/03 Image processing and drawing text line segments/04_Line segment drawing.ipynb

```
import cv2

import numpy as np

import matplotlib.pyplot as plt

newImageInfo = (600, 600, 3)

dst = np.zeros(newImageInfo, np.uint8)

# line

# Draw line segments 1 dst 2 begin 3 end 4 color

cv2.line(dst, (100,100), (450,300), (0,0,255))

# 5 line w

cv2.line(dst, (100,200), (400,200), (0,255,255), 10)

# 6 line type

cv2.line(dst, (100,300), (400,300), (0,255,0), 10, cv2.LINE_AA)
```

```

cv2.line(dst, (200,150), (50,250), (25,100,255))

cv2.line(dst, (50,250), (400,380), (25,100,255))

cv2.line(dst, (400,380), (200,150), (25,100,255))

# cv2.imshow('dst',dst)

#cv2.waitKey(0)

dst = cv2.cvtColor(dst, cv2.COLOR_BGR2RGB)

plt.imshow(dst)

plt.show()

```

