

1.3.4 Drawing line segment

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

Parameter Description

- dst: output image.
- pt1, pt2: required parameters, pt1 is the starting point, pt2 is the ending point.
- color: required parameters, be used to set color of line segment.
- Thickness: optional parameters, be used to set weight of line segment. lineType: optional parameters, be used to set the type of line segment, 8 (8 adjacent connection line-default), 4 (4 adjacent connection line) and cv2.LINE_AA are anti-aliased

Code path:

/home/pi/Yahboom_Project/Rspbot/1.OpenCV_course/03IP_Draw_text_line_segmen ts/ 04_Drawing line segment.ipynb

```
import cv2
import numpy as np
import matplotlib.pyplot as plt
newImageInfo = (600, 600, 3)
dst = np.zeros(newImageInfo,np.uint8)
# line
# Drawing line segment 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()
```

After running the following program, a picture will be displayed in the jupyterLab



control interface, as shown below.

