6. Text and image drawing

6.1. Drawing text and images

cv2.putText(img, str, origin, font, size, color, thickness)

The parameters are: image, added text, upper left corner coordinates (integer), font, font size, color, font thickness.

The font types are as follows:

枚举	
FONT_HERSHEY_SIMPLEX Python：cv.FONT_HERSHEY_SIMPLEX	正常大小sans-serif字体
FONT_HERSHEY_PLAIN Python：cv.FONT_HERSHEY_PLAIN	小尺寸sans-serif字体
FONT_HERSHEY_DUPLEX Python：cv.FONT_HERSHEY_DUPLEX	正常大小的sans-serif字体（比FONT_HERSHEY_SIMPLEX更复杂）
FONT_HERSHEY_COMPLEX Python：cv.FONT_HERSHEY_COMPLEX	正常大小的衬线字体
FONT_HERSHEY_TRIPLEX Python：cv.FONT_HERSHEY_TRIPLEX	正常大小的serif字体（比FONT_HERSHEY_COMPLEX更复杂）
FONT_HERSHEY_COMPLEX_SMALL Python：cv.FONT_HERSHEY_COMPLEX_SMALL	较小版本的FONT_HERSHEY_COMPLEX
FONT_HERSHEY_SCRIPT_SIMPLEX Python：cv.FONT_HERSHEY_SCRIPT_SIMPLEX	手写风格的字体
FONT_HERSHEY_SCRIPT_COMPLEX Python：cv.FONT_HERSHEY_SCRIPT_COMPLEX	更复杂的FONT_HERSHEY_SCRIPT_SIMPLEX变体
FONT_ITALIC Python：cv.FONT_ITALIC	标志为斜体字体 YahBoom

6.2. Actual effect display

Source code path:

/home/pi/project_demo/06.Open_source_cv_fundamentals_course/C.Image_Processing_Text_Drawing/06_Text_on_Image_Drawing.ipynb

```python
import cv2
import numpy as np

img = cv2.imread('yahboom.jpg',1)
font = cv2.FONT_HERSHEY_SIMPLEX

cv2.rectangle(img,(200,100),(500,400),(0,255,0),3)
# 1 dst 2 文字内容 3 坐标 4 5 字体大小 6 color 7 粗细 8 line type 1 dst 2 text content 3 coordinates 4 5 font size 6 color 7 thickness 8 line type
cv2.putText(img,'Yahboom',(250,50),font,1,(200,200,0),2,cv2.LINE_AA)
# cv2.imshow('src',img)
# cv2.waitKey(0)
```

```python
import matplotlib.pyplot as plt

dst = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
plt.imshow(dst)
plt.show()
```

06_Text_on_Image_Drawin

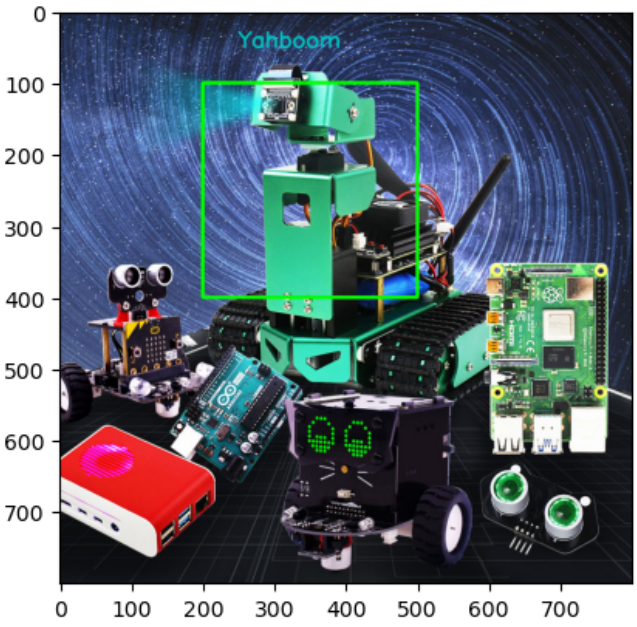
Code

```
[[29, 24, 23],
 [29, 24, 23],
 [29, 24, 23],
 ...,
 [27, 22, 21],
 [32, 27, 26],
 [27, 22, 21]]], dtype=uint8)
```

[2]:

```python
import matplotlib.pyplot as plt

dst = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
plt.imshow(dst)
plt.show()
```



```python
import cv2
img = cv2.imread('yahboom.jpg',1)
height = int(img.shape[0]*0.2)
width = int(img.shape[1]*0.2)
imgResize = cv2.resize(img,(width,height))
for i in range(0,height):
    for j in range(0,width):
        img[i+200,j+350] = imgResize[i,j]
# cv2.imshow('src',img)
# cv2.waitKey(0)
```

```python
img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
plt.imshow(img)
plt.show()
```

06_Text_on_Image_Drawin

Code

图片绘制 Picture drawing

[3]:
```python
import cv2
img = cv2.imread('yahboom.jpg',1)
height = int(img.shape[0]*0.2)
width = int(img.shape[1]*0.2)
imgResize = cv2.resize(img,(width,height))
for i in range(0,height):
    for j in range(0,width):
        img[i+200,j+350] = imgResize[i,j]
# cv2.imshow('src',img)
# cv2.waitKey(0)
```

[4]:
```python
img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
plt.imshow(img)
plt.show()
```