2. Image cutting

2.1. Image cutting

Image cutting first reads the image, and then obtains the pixel area in the array. In the following code, select the shape area X: 300-500 Y: 500-700. Note that the image size is 800*800, so the selected area should not exceed this resolution.

2.2. Actual effect display

Code path:

/home/pi/DOGZILLA_Lite_class/4.Open Source CV/B.Geometric_Transformations/02_Image_Cropping.ipynb

```
import cv2
img = cv2.imread('yahboom.jpg', 1)

dst = img[500:700,300:500]  #这里选取矩形区域X：300-500  Y：500-700 Here we select a rectangular area X: 300-500 Y: 500-700

#cv2.imshow('image',dst)
#cv2.waitKey(0)
```

```
#bgr8转jpeg格式 bgr8 to jpeg format
import enum
import cv2

def bgr8_to_jpeg(value, quality=75):
    return bytes(cv2.imencode('.jpg', value)[1])
```

```
import ipywidgets.widgets as widgets

image_widget1 = widgets.Image(format='jpg', )
image_widget2 = widgets.Image(format='jpg', )

# display the container in this cell's output
display(image_widget1)
display(image_widget2)

img1 = cv2.imread('yahboom.jpg',1)

image_widget1.value = bgr8_to_jpeg(img1)  #原始图像 The original image
image_widget2.value = bgr8_to_jpeg(dst)   #剪切的图像 cropped image
```

02_Image_Cropping.ipynb

Code