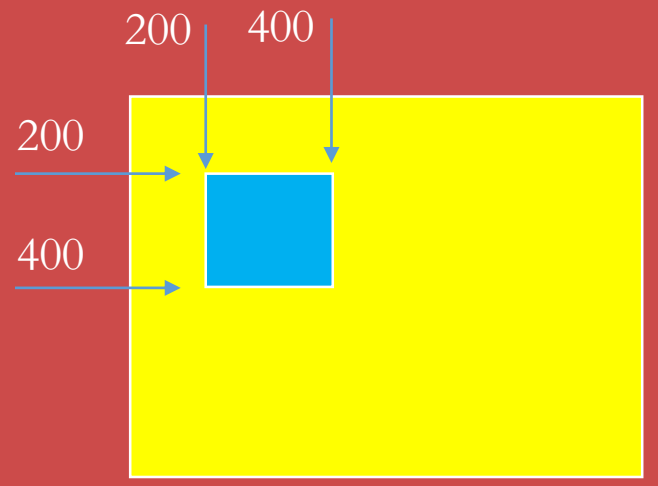
图像ROI

- ROI（region of interest），感兴趣区域。
- 从被处理的图像以方框、圆、椭圆、不规则多边形等方式勾勒出需要处理的区域。
- 可以通过各种算子（Operator）和函数来求得感兴趣区域ROI，并进行图像的下一步处理。

图像ROI

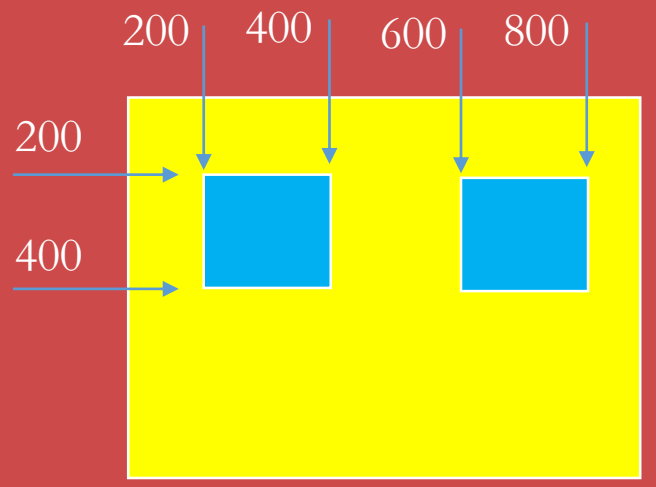
图像ROI

```
import cv2
img=cv2.imread('图像名称')
face=img[200:400,200:400]
```



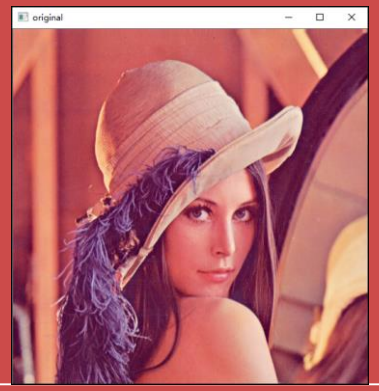
图像ROI

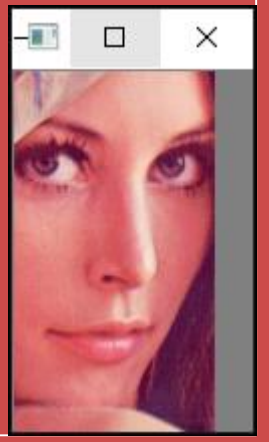
```
import cv2
img=cv2.imread('图像名称')
face=img[200:400,200:400]
img[200:400,600:800]=face
```



图像ROI

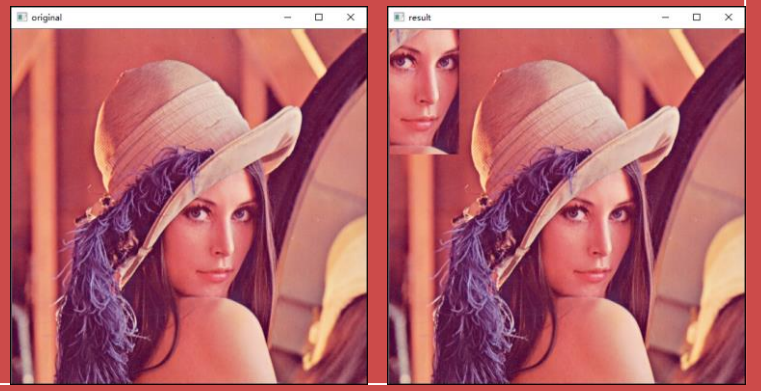
- import cv2
- import numpy as np
- a=cv2.imread("image\lenacolor.png",cv2.IMREAD_UNCHANGED)
- face=np.ones((101,101,3))
- cv2.imshow("original",a)
- face=a[220:400,250:350]
- cv2.imshow("face",face)
- cv2.waitKey()
- cv2.destroyAllWindows()





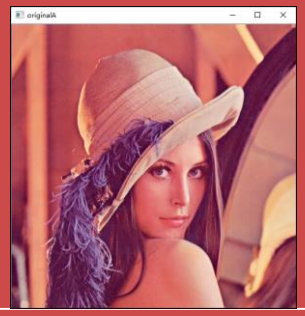
图像ROI

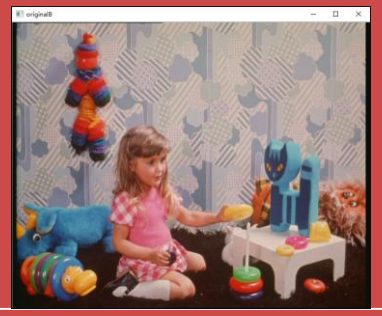
- import cv2
- import numpy as np
- a=cv2.imread("image\lenacolor.png",cv2.IMREAD_UNCHANGED)
- face=np.ones((101,101,3))
- cv2.imshow("original",a)
- face=a[220:400,250:350]
- a[0:180,0:100]=face
- cv2.imshow("result",a)
- cv2.waitKey()
- cv2.destroyAllWindows()

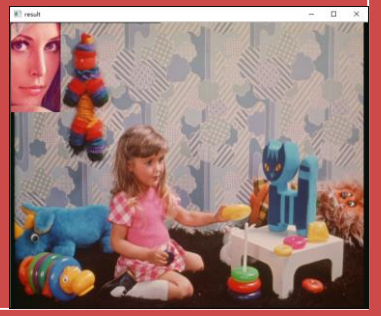


图像ROI

```
import cv2
import numpy as np
a=cv2.imread("image\lenacolor.png",cv2.IMREAD_UNCHANGED)
b=cv2.imread("image\girl.bmp",cv2.IMREAD_UNCHANGED)
face=np.ones((101,101,3))
cv2.imshow("originalA",a)
cv2.imshow("originalB",b)
face=a[220:400,250:350]
b[0:180,0:100]=face
cv2.imshow("result",b)
cv2.waitKey()
cv2.destroyAllWindows()
```







OpenCV+Python图像处理

图 像 处 理 利 器