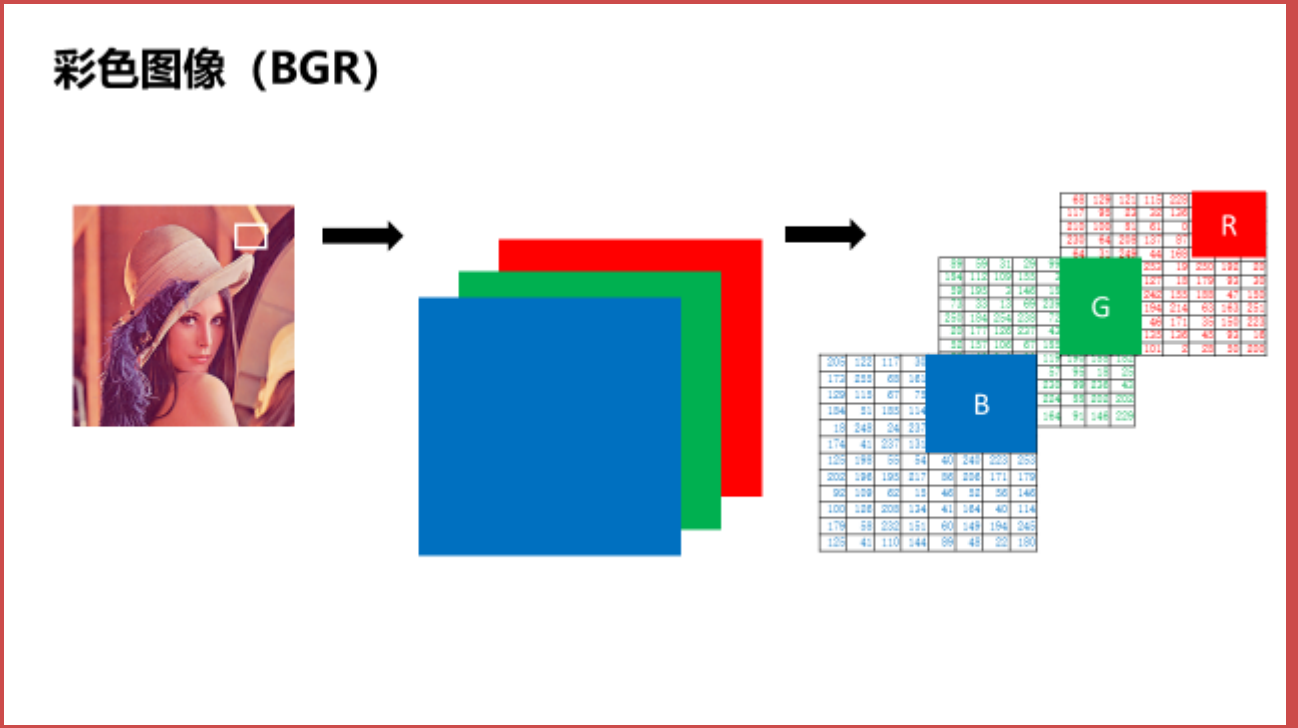
通道的拆分与合并

- 1拆分通道
- 2合并通道

1拆分



1拆分

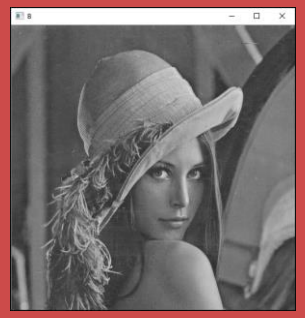
- import cv2
- img=cv2.imread('图像名')
- b = img[: , : , 0]
- g = img[: , : , 1]
- r = img[: , : , 2]

1拆分

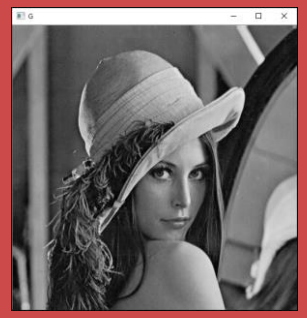
- import cv2
- img=cv2.imread('图像名')
- **b , g , r = cv2.split(img)**

1拆分

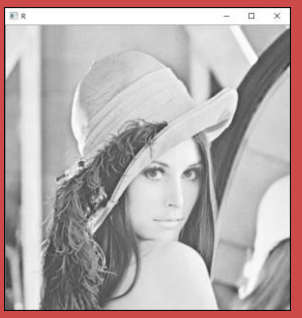
- import cv2
- import numpy as np
- a=cv2.imread("image\lenacolor.png")
- b,g,r=cv2.split(a)
- **cv2.imshow("B",b)**
- **cv2.imshow("G",g)**
- **cv2.imshow("R",r)**
- cv2.waitKey()
- cv2.destroyAllWindows()



B通道



G通道



R通道

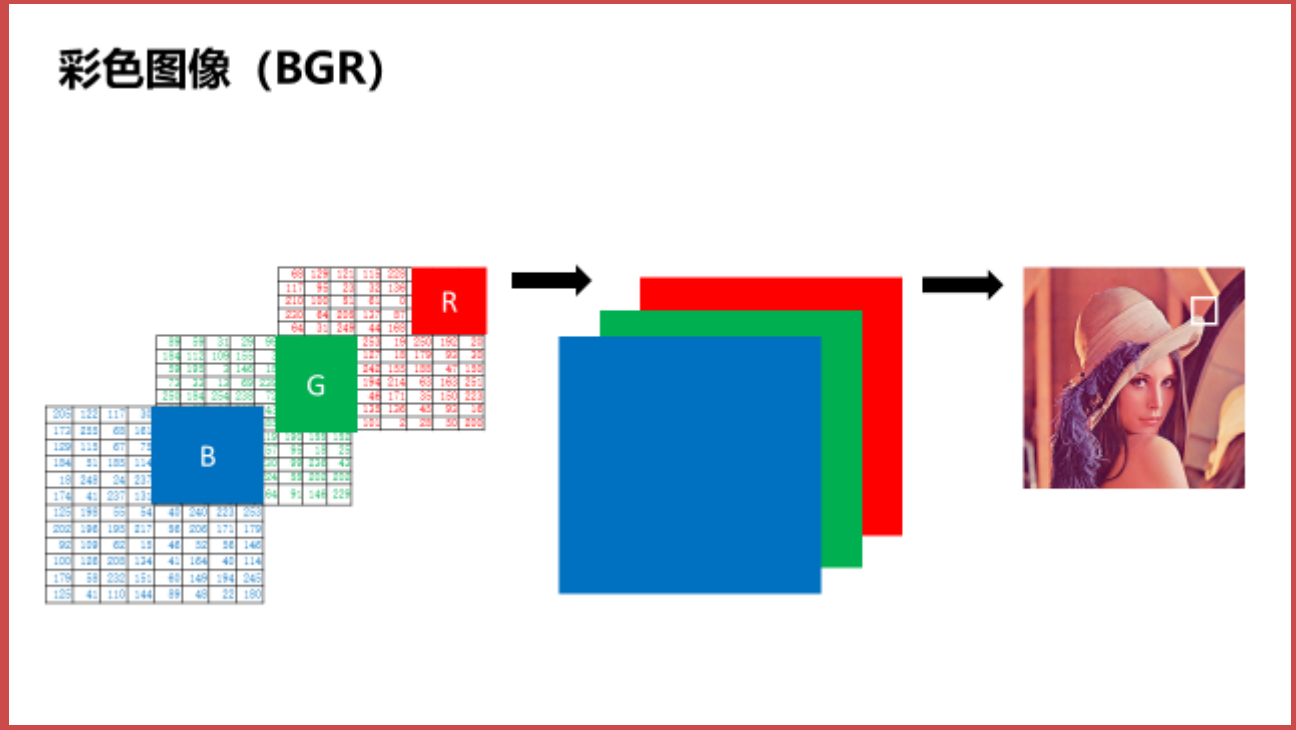
1拆分

- import cv2
- import numpy as np
- a=cv2.imread("image\lenacolor.png")
- **b=cv2.split(a)[0]**
- **g=cv2.split(a)[1]**
- **r=cv2.split(a)[2]**

1拆分

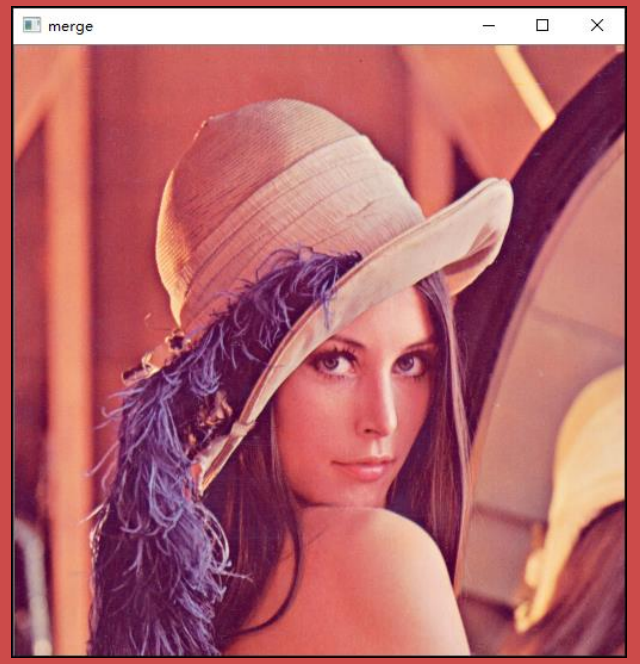
- import cv2
- import numpy as np
- a=cv2.imread("image\lenacolor.png")
- **b=cv2.split(a)[0]**
- **g=cv2.split(a)[1]**
- **r=cv2.split(a)[2]**

2合并



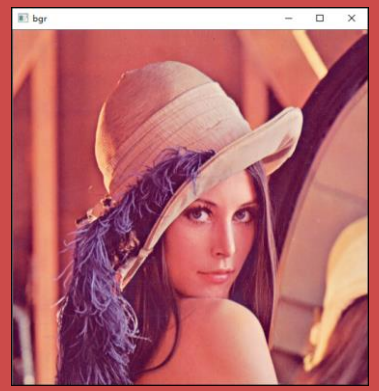
2合并

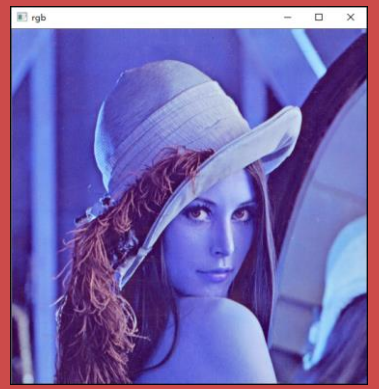
```
import cv2
import numpy as np
a=cv2.imread("image\lenacolor.png")
b,g,r=cv2.split(a)
m=cv2.merge([b,g,r])
cv2.imshow("merge",m)
cv2.waitKey()
cv2.destroyAllWindows()
```



2合并

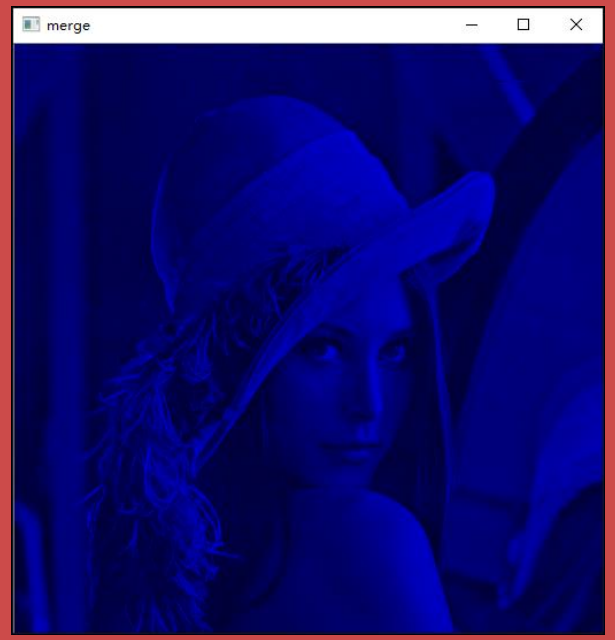
```
import cv2
import numpy as np
a=cv2.imread("image\lenacolor.png")
b,g,r=cv2.split(a)
bgr=cv2.merge([b,g,r])
rgb=cv2.merge([r,g,b])
cv2.imshow("bgr",bgr)
cv2.imshow("rgb",rgb)
cv2.waitKey()
cv2.destroyAllWindows()
```





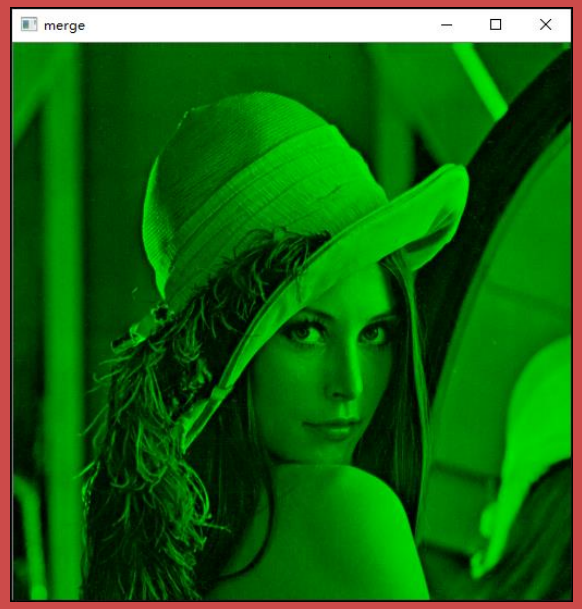
2合并

```
import cv2
import numpy as np
a=cv2.imread("image\lenacolor.png")
rows,cols,chn=a.shape
b=cv2.split(a)[0]
g = np.zeros((rows,cols),dtype=a.dtype)
r = np.zeros((rows,cols),dtype=a.dtype)
m=cv2.merge([b,g,r])
cv2.imshow("merge",m)
cv2.waitKey()
cv2.destroyAllWindows()
```



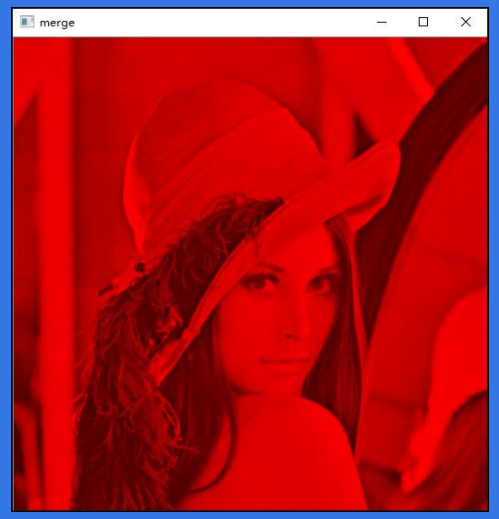
2合并

```
import cv2
import numpy as np
a=cv2.imread("image\lenacolor.png")
rows,cols,chn=a.shape
b= np.zeros((rows,cols),dtype=a.dtype)
g = cv2.split(a) [1]
r = np.zeros((rows,cols),dtype=a.dtype)
m=cv2.merge([b,g,r])
cv2.imshow("merge",m)
cv2.waitKey()
cv2.destroyAllWindows()
```



2合并

```
import cv2
import numpy as np
a=cv2.imread("image\lenacolor.png")
rows,cols,chn=a.shape
b = np.zeros((rows,cols),dtype=a.dtype)
g = np.zeros((rows,cols),dtype=a.dtype)
r = cv2.split(a) [2]
m = cv2.merge([b,g,r])
cv2.imshow("merge",m)
cv2.waitKey()
cv2.destroyAllWindows()
```



OpenCV+Python图像处理

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