In [1]:

```
import cv2
import numpy as np
```

In [3]:

```
src = cv2.imread('./data/lena.jpg')
dst = cv2.split(src)
print(type(dst))
print(type(dst[0])) # type(dst[1]), type(dst[2])

cv2.imshow('image',  src)
cv2.imshow('blue',  dst[0])
cv2.imshow('green', dst[1])
cv2.imshow('red',   dst[2])
cv2.waitKey()
cv2.destroyAllWindows()
```

```
<class 'list'>
<class 'numpy.ndarray'>
```

In [5]:

```
src = cv2.imread('./data/lena.jpg')

b, g, r = cv2.split(src)
dst = cv2.merge([b, g, r]) # cv2.merge([r, g, b])

print(type(dst))
print(dst.shape)
cv2.imshow('src',  src)
cv2.imshow('dst',  dst)
cv2.waitKey()
cv2.destroyAllWindows()
```

```
<class 'numpy.ndarray'>
(512, 512, 3)
```

In [7]:

```
src = cv2.imread('./data/lena.jpg')

gray  = cv2.cvtColor(src, cv2.COLOR_BGR2GRAY)
yCrCv = cv2.cvtColor(src, cv2.COLOR_BGR2YCrCb)
hsv   = cv2.cvtColor(src, cv2.COLOR_BGR2HSV)

cv2.imshow('src',  src)
cv2.imshow('gray',  gray)
cv2.imshow('yCrCv', yCrCv)
cv2.imshow('hsv',   hsv)

cv2.waitKey()
cv2.destroyAllWindows()
```

In [ ]: