原 OpenCV提取显示一张图片（或者视频）的R,G,B颜色分量

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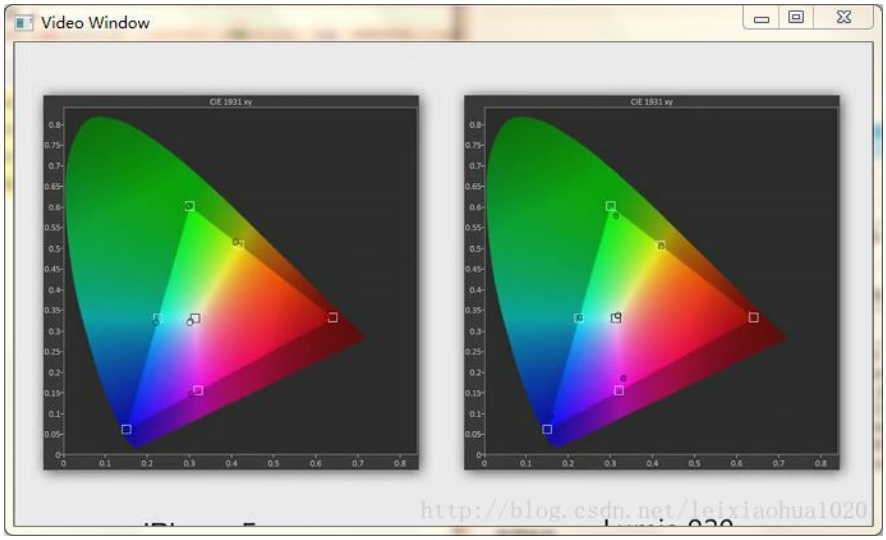
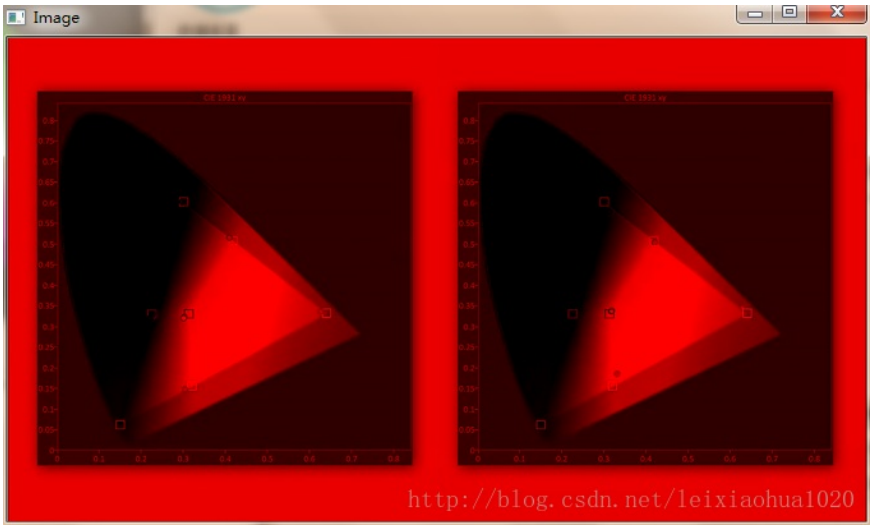
使用OpenCV可以提分别提取显示一张图片（或者视频）的R,G,B颜色分量。效果如下。

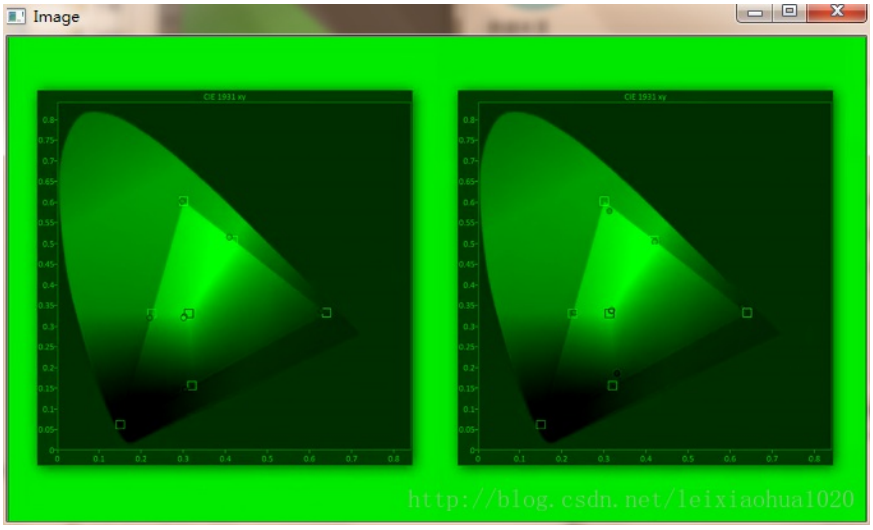
原图：



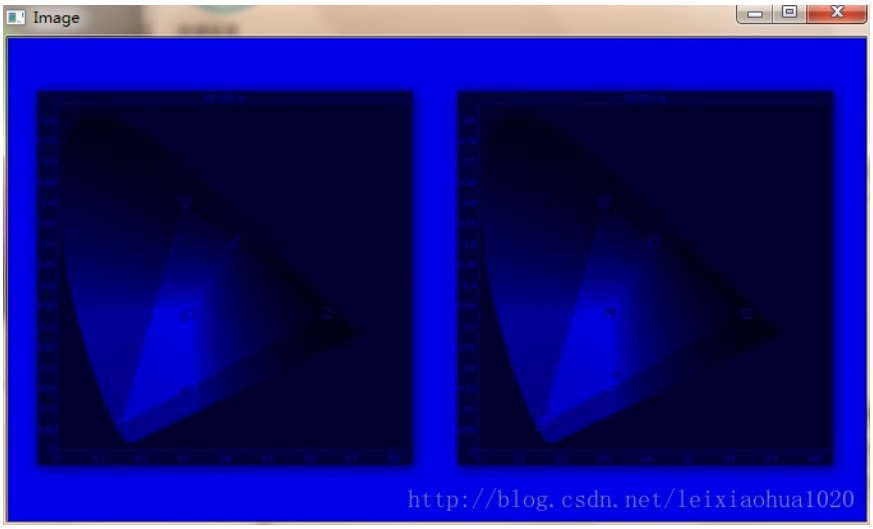
R：



G：



B：



示例代码如下，貌似很久以前网上找的的，逻辑很清晰，就是把R，G，B三个分量分开，然后显示出来，就不注释了。

```cpp
#include "cv.h"
#include "highgui.h"
#include <cxcore.h>


void main(int argc,char **argv)
{
    IplImage *img=cvLoadImage("test.bmp",1);
    IplImage *channel_r=cvCreateImage(cvGetSize(img),IPL_DEPTH_8U,1);
    IplImage *channel_g=cvCreateImage(cvGetSize(img),IPL_DEPTH_8U,1);
    IplImage *channel_b=cvCreateImage(cvGetSize(img),IPL_DEPTH_8U,1);
    IplImage *img_r=cvCreateImage(cvGetSize(img),IPL_DEPTH_8U,3);
    IplImage *img_g=cvCreateImage(cvGetSize(img),IPL_DEPTH_8U,3);
    IplImage *img_b=cvCreateImage(cvGetSize(img),IPL_DEPTH_8U,3);

        cvSplit(img,channel_b,channel_g,channel_r,NULL);
    cvMerge(channel_b,0,0,0,img_b);
    cvMerge(0,channel_g,0,0,img_g);
    cvMerge(0,0,channel_r,0,img_r);

    cvNamedWindow("ImageOrigin",CV_WINDOW_AUTOSIZE);
    cvNamedWindow("Image_R",CV_WINDOW_AUTOSIZE);
    cvNamedWindow("Image_G",CV_WINDOW_AUTOSIZE);
    cvNamedWindow("Image_B",CV_WINDOW_AUTOSIZE);
    cvShowImage("ImageOrigin",img);
    cvShowImage("Image_R",img_r);
    cvShowImage("Image_G",img_g);
    cvShowImage("Image_B",img_b);

    cvSaveImage("img_red.bmp",img_r);
    cvSaveImage("img_green.bmp",img_g);
    cvSaveImage("img_blue.bmp",img_b);

    cvWaitKey(0);
    cvReleaseImage(&img);
    cvReleaseImage(&img_r);
    cvReleaseImage(&img_g);
    cvReleaseImage(&img_b);
    cvDestroyAllWindows();
}
```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