



1

how do I separate the channels of an RGB image and save each one, using the 2.4.9 version of OpenCV?



ChannelsRGB

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asked Apr 11 '15

Roberto F.

1112

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4

Use [Mat::split](#), which splits multi-channel image into several single-channel arrays.

Example:

```
Mat src = imread("img.png",CV_LOAD_IMAGE_COLOR); //load image

Mat bgr[3]; //destination array
split(src,bgr);//split source

//Note: OpenCV uses BGR color order
imwrite("blue.png",bgr[0]); //blue channel
imwrite("green.png",bgr[1]); //green channel
imwrite("red.png",bgr[2]); //red channel
```

answered Apr 11 '15

Haris

364422657

http://harismoonamkunn...

updated Apr 23 '16

Comments

link

1

Hi. Your answer definitely helped me, but I think there is a tiny mistake in the first line. The Mat should be called src, since afterwards you use src in split.

benT (Apr 22 '16)

You are right, thanks for noticing :). I will edit it.

Haris (Apr 23 '16)

The code really helped me. I just want to ask about end results of channels, they are really red, green and blue channels images like in matlab or in grayscale(three same images but different ray level)? I am asking this because I get the color of channels iin grayscale instead of red, green and blue channel image respectively, thanks in advance.

khatri.kelash (Jan 24 '17)

You will get three grayscale images representing the colors in the original images. They should definitely not be the same images except if the original image was grayscale itself

benT (Feb 26 '17)

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