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2 how to know grayscale or color img loaded

Gray

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Asked: Jul 4 '14

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Hi!

If you are loading a Gray scale image as a Color image. You can check that by Comparing RGB Values of All the pixels. For Example If the image is a Gray Scale image then


```
if (R=G=B)
//Grayscale
```

For more accurate results you can introduce some thresholds values. i.e

asked Jul 4 '14

 fedor
157 ●1 ●3 ●9

updated Oct 31 '15

 sturkmen
5111 ●3 ●40 ●59
<https://github.com/stu...>

answered Jul 4 '14

 Balaji R
1915 ●1 ●16 ●42
<https://in.linkedin.co...>

```
if ((abs(R-G) < Threshold)) // Threshold-> can be greater than zero. eg 0.006
//Grayscale
```

By this way you can get pretty good results.

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[link](#)

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Load image with default depth using the macro `CV_LOAD_IMAGE_ANYDEPTH` like,

answered Jul 4 '14



Haris

3634 ●2 ●24 ●57

<http://harismoonamkunn...>

updated Jul 4 '14

```
const cv::Mat src = cv::imread(filename, CV_LOAD_IMAGE_ANYDEPTH);
```

And check the number of channel using `Mat::channels` like,

```
std::cout<<src.channels();
```

Comments

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print "1" for all images (color and grayscale). Are you sure that it works?



fedor (Jul 31 '14)

[add a comment](#)

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If you are not interested by a color image (ie you only want to convert color image into grayscale) and to avoid testing all values (RGB, RGBA, etc), you could directly load your image in grayscale:

answered Jul 5 '14



Mathieu Barnachon

4568 ●17 ●50 <http://www.math-barnac...>

updated Jul 5 '14

```
cv::Mat image = cv::imread( "myImage.jpg/png/...", CV_LOAD_IMAGE_GRAYSCALE );
```

The mat 'image' will be in grayscale. See the doc of `imread` for more information.

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