# LEATEN OPENCY BY EXAMPLES

OpenCV simplified for beginners by the use of examples. Learn OpenCV with basic implementation of different algorithms.

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# OpenCV example to convert RGB to gray / other color spaces

void <a href="mailto:cvtColor">cvtColor</a>(InputArray src, OutputArray dst, int code, int dstCn=0)
Parameters:

- src input image: 8-bit unsigned, 16-bit unsigned (  $CV_16UC...$  ), or single-precision floating-point.
- **dst** output image of the same size and depth as **src**.
- **code** color space conversion code (see the description below).
- **dstCn** number of channels in the destination image; if the parameter is 0, the number of the channels is derived automatically from src and code.

Note that the default color format in OpenCV is often referred to as RGB but it is actually BGR (the bytes are reversed).

The conventional ranges for R, G, and B channel values are:

- 0 to 255 for CV\_8U images
- 0 to 65535 for CV 16U images
- 0 to 1 for CV\_32F images

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- **Steps:** 
  - 1. Load an image
  - 2. Convert to gray scale
  - 3. Show result

#### **Functions:**

cvtColor, imshow, imread, namedWindow, waitKey.

## Example:

#include "opencv2/core/core.hpp" #include "opencv2/highqui/highqui.hpp" #include "opencv2/imgproc/imgproc.hpp" #include "iostream" 4 5 6 using namespace cv; 7 using namespace std; 8 9 int main( ) 10 11 12 Mat image; 13 image = imread("lena.jpg", CV\_LOAD\_IMAGE\_COLOR); 14 15 if(! image.data ) 16 cout << "Could not open or find the image" << std::e</pre> 17 18 return -1;

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```
19
  20
  21
              // Create a new matrix to hold the gray image
  22
              Mat gray;
  23
              // convert RGB image to gray
  24
 25
              cvtColor(image, gray, CV_BGR2GRAY);
  26
  27
              namedWindow( "Display window", CV_WINDOW_AUTOSIZE );
 28
              imshow( "Display window", image );
 29
 30
              namedWindow( "Result window", CV_WINDOW_AUTOSIZE );
 31
              imshow( "Result window", gray );
  32
  33
              waitKey(0);
  34
              return 0;
 35
      }
Sources:
http://docs.opencv.org/index.html
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```

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