LEATEN OPENCY BY EXAMPLES

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

|--|

Load, Display and Save an image

Mat **imread**(const string& filename, intflags=1)

- Parameters: filename Name of file to be loaded.
 - flags -Flags specifying the color type of a loaded image:
 - CV LOAD IMAGE ANYDEPTH return 16-bit/32-bit image when the input has the corresponding depth, otherwise convert it to 8-bit.
 - CV_LOAD_IMAGE_COLOR(>0) If set, always convert image to the color one
 - o CV_LOAD_IMAGE_GRAYSCALE (0)- If set, always convert image to the grayscale one
 - CV_LOAD_IMAGE_UNCHANGED (<0) loads the image as is (including the alpha channel if present)

bool imwrite(const string& filename, InputArray img, const vector<int>¶ms=vector<int>()

- Parameters: filename Name of the file.
 - image Image to be saved.
 - params Format-specific save parameters encoded as pairs paramld 1, paramValue 1, paramId 2,

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paramValue 2, The following parameters are currently supported:

- For JPEG, it can be a quality (CV_IMWRITE_JPEG_QUALITY) from 0 to 100 (the higher is the better). Default value is 95.
- For PNG, it can be the compression level (CV_IMWRITE_PNG_COMPRESSION) from 0 to 9. A
 higher value means a smaller size and longer compression time. Default value is 3.
- For PPM, PGM, or PBM, it can be a binary format flag (CV_IMWRITE_PXM_BINARY), 0 or 1.
 Default value is 1.

void imshow(const string& winname, InputArray mat)

Parameters:

- **winname** Name of the window.
- **image** Image to be shown.

Steps:

- 1. Load image using imread().
- 2. Display image using **namedWindow**() and **imshow**().
- 3. Save the image using **imwrite**().
- 4. Wait for keyboard button press using **waitKey**().

Example:

```
#include <opencv2/core/core.hpp>
    #include <opencv2/highgui/highgui.hpp>
 3
    #include <iostream>
 4
5
     using namespace cv;
6
     using namespace std;
7
8
     int main( )
9
10
11
            Mat image;
12
13
            // LOAD image
            image = imread("image1.jpg", CV_LOAD_IMAGE_COLOR);
14
                   //This file "image.jpg" should be in the project fold
15
16
                   //Else provide full address : "D:/images/image.jpg"
17
18
            if(! image.data ) // Check for invalid input
19
                   cout << "Could not open or find the image" << std::e</pre>
20
21
                   return -1;
```

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10 Hough Circle Detection

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```
22
              }
23
              //DISPLAY image
24
              namedWindow( "window", CV_WINDOW_AUTOSIZE ); // Create a win
imshow( "window", image ); // Show our image inside it.
25
26
27
28
              //SAVE image
29
              imwrite("result.jpg",image);// it will store the image in na
30
                                                          // Wait for a keystroke in
31
              waitKey(0);
32
              return 0;
33
```

Sources:

http://docs.opencv.org/doc/tutorials/introduction/display_image/display_image.html

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