Set up OpenCV and Visual Studio

Create a Win32 Console empty project called “example1”. Select “Project” in Menu and click on “properties”.

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On the left, choose “C/C++” and edit the “Additional Include Directories” and add these directories:

```
<OpenCV Installation Folder>\include\opencv
<OpenCV Installation Folder>\include\opencv
```

e.g.  C:\opencv\build_opencv\install\include\opencv
      C:\opencv\build_opencv\install\include
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On the left, choose “Linker” and edit the “Additional Include Directories” and add the library directory:

<OpenCV Installation Folder>\lib
e.g. C:\opencv\build_opencv\install\lib
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On the left, under “Linker” select “Input” and add these libs to “Additional Dependencies”:

opencv_core243d.lib
opencv_imgproc243d.lib
opencv_highgui243d.lib
opencv_ml243d.lib
opencv_video243d.lib
opencv_features2d243d.lib
opencv_calib3d243d.lib
opencv_objdetect243d.lib
opencv_contrib243d.lib
opencv_legacy243d.lib
opencv_flann243d.lib

NOTE: Make sure these lib files are under your installation directory in "lib" folder. Different OpenCV versions will have different lib file names. For example, OpenCV 2.4.2 lib files will be “opencv_core242d.lib”; OpenCV 2.0 will be “opencv_core2d.lib”. If you build the project using “Release” then remove the “d” in these lib files.

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Ready to use OpenCV!

Create a test.cpp for testing:

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

int main( int argc, char** argv )
{
    IplImage* img = cvLoadImage("C:/demo/lena.jpg"); // read in Image in IplImage format
    cvShowImage("Original Image", img); // show image
    cvWaitKey(0);
    return 0;
}
```