OpenCV 2.3.1 for Visual C++ 2010

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Info

I am using Microsoft Visual C++ 2010 Express (x86) on a Windows 7 (x64)

Installation

Run *"cmake-2.6.4-win32-x86.exe"*
When prompted, choose *"Add CMake to the system PATH for current user"*

Run *"cmake-2.8.2-win32-x86.exe"*
When prompted, choose *"Add CMake to the system PATH for current user"*

Run *"OpenCV-2.3.1-win-superpack.exe"*
Extract to *"C:\"*

Build

Explorer → Navigate to C:\opencv → New folder *"build"*
Start → Programs → CMake 2.8 → CMake (cmake gui)
- Where is the source code: *"C:/opencv"*
- Where to build the binaries: *"C:/opencv/build"*
- Configure
- Specify the generator for this project: *"Visual Studio 10"*
- Use default native compilers
- Configure (text appears *"Configuring done"*)
- Generate (text appears *"Generating done"*)

Start → Programs → Microsoft Visual Studio 2010 Express → Microsoft Visual C++ 2010 Express
- File → Open → Project/Solution... *"C:\opencv\build\OpenCV.sln"*
- Wait for Visual C++ to become ready (see bottom left corner)
- Debug → Build Solution
- Wait till Visual C++ has completed building

Extract *"tbb30_20110427oss_win.zip"* to *"C:\opencv\build\common"*

Global configuration

Start → My Computer (right click) → Properties → Advanced system settings → Environment Variables
- PATH (select) → Edit *"C:\opencv\build\x86\vc10\bin; C:\opencv\build\common\tbb\ia32\vc10"*

Restart your computer

Test program

Copy “funny-pictures-cat-goes-pew.jpg” to the directory where you saved your project (e.g.: “*C:\Users\%USERNAME%\Documents\Visual Studio 2010\Projects\test\test*”)

Start → Programs → Microsoft Visual Studio 2010 Express → Microsoft Visual C++ 2010 Express

File → New → Project...
Win32 Console Application
Name: *“test”*
Next
Console Application
Empty Project
Finish
Source Files (right click) → Add → New item...
C++ File (.cpp)
Name: *“main”*
Paste the following code:

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

int main()
{
        IplImage *img = cvLoadImage("funny-pictures-cat-goes-pew.jpg");
        cvNamedWindow("image popup", CV_WINDOW_AUTOSIZE );

        cvShowImage("image popup", img);
        cvWaitKey(0);

        cvDestroyWindow("image popup");
        cvReleaseImage(&img);

        return 0;
}
```

The following steps should be repeated for every project that uses OpenCV!

Project → test Properties...
Configuration Properties → VC++ Directories
Include Directories <Edit...>
C:\opencv\build\common\tbb30_20110427oss\include;
C:\opencv\build\include\opencv;
C:\opencv\build\include\opencv2;
C:\opencv\build\include;
Library Directories <Edit...>
C:\opencv\build\common\tbb30_20110427oss\lib\ia32\vc10;
C:\opencv\build\x86\vc10\lib;
Linker → Input
Additional Dependencies <Edit...>
opencv_calib3d231d.lib;
opencv_contrib231d.lib;
opencv_core231d.lib;
opencv_features2d231d.lib;
opencv_flann231d.lib;
opencv_gpu231d.lib;
opencv_haartraining_engined.lib;
opencv_highgui231d.lib;

opencv_imgproc231d.lib;
opencv_legacy231d.lib;
opencv_ml231d.lib;
opencv_objdetect231d.lib;
opencv_ts231d.lib;
opencv_video231d.lib;
tbb_debug.lib;
You are now ready to test your program by pressing F5 (debug)