IP for Windows 8

To start with Image Processing in C, we need a compiler and a library containing functions required for image processing. Here, we will use OpenCV as the required library and DevCPP as the complier. Among several available versions for both of them, there has been compatibility issues with Windows 8. Being a little judicious with the selection among these variants and with a little trick this necessary configuration can be achieved.

I have mentioned a detailed step wise procedure to get yourselves prepared for Image Processing. In case of any trouble with these steps, feel free to drop a message at https://www.facebook.com/shivenduhere

To install the compiler I would recommend downloading DevCpp from the following link:

https://docs.google.com/file/d/0By6IsgZSRnhrOHp4VlFpMFdmV3c/edit

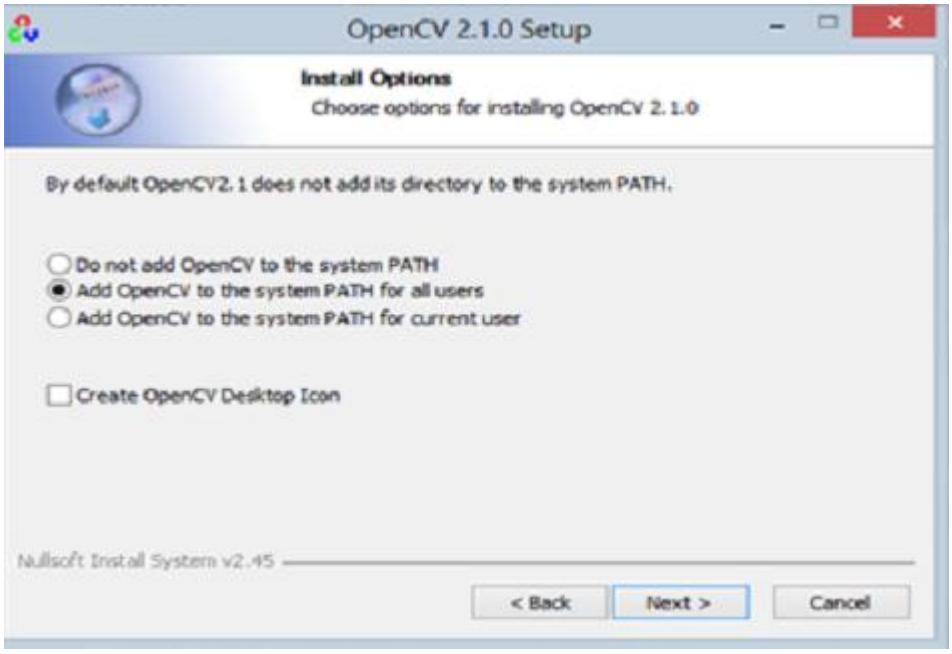
The above link contains a zip file which needs to be extracted in Program Files(x86) folder in C: Drive.

As it is not a setup file it has a few trade-offs. Each time you wish to run the compiler you will have to browse through the folders, or you may pin the exe file to be found in that folder to the task bar.

So far, you have a working compiler installed in your laptop. You can check by writing a 'hello-world' type code.

Once you are done with installing the compiler you need to install the OpenCV library, which can be downloaded from: http://sourceforge.net/projects/opencvlibrary/files/opencv-win/2.1/
As said, you need to be particular with the versions, so I would recommend downloading OpenCV-2.1.0-win32-vs2008.exe.

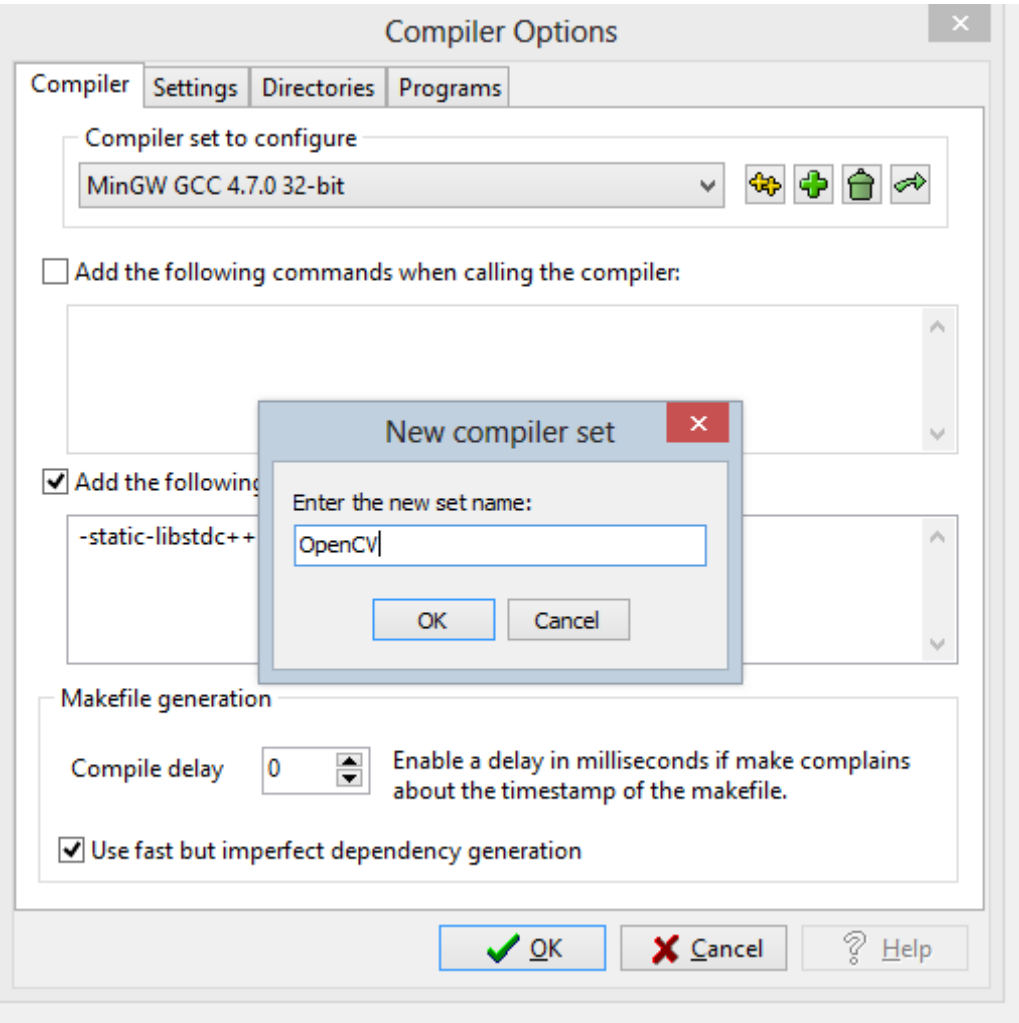
Run the downloaded exe file and when asked remember to add OpenCV to path for all users.



Rest the installation is trivial.
Now, you have a compiler and a library installed. Next remains, to establish a connection between the two.

Next open the installed compiler, and click on **TOOLS** and then on **COMPILER OPTIONS.**

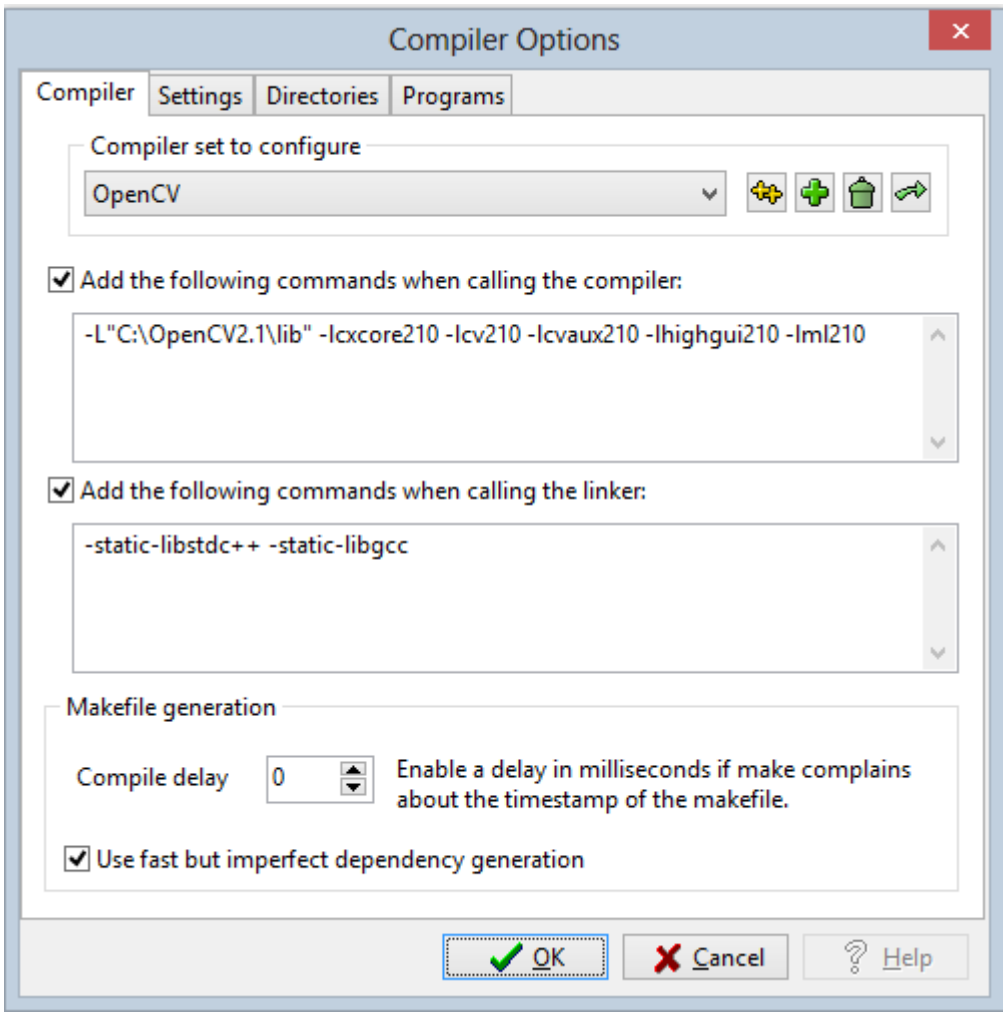
Next click on the plus sign shown in the image and type in OpenCV, precisely the way it has been written.



Click ok and then check the boxes(Add the following commands when calling the compiler and Add the following commands while calling the linker).

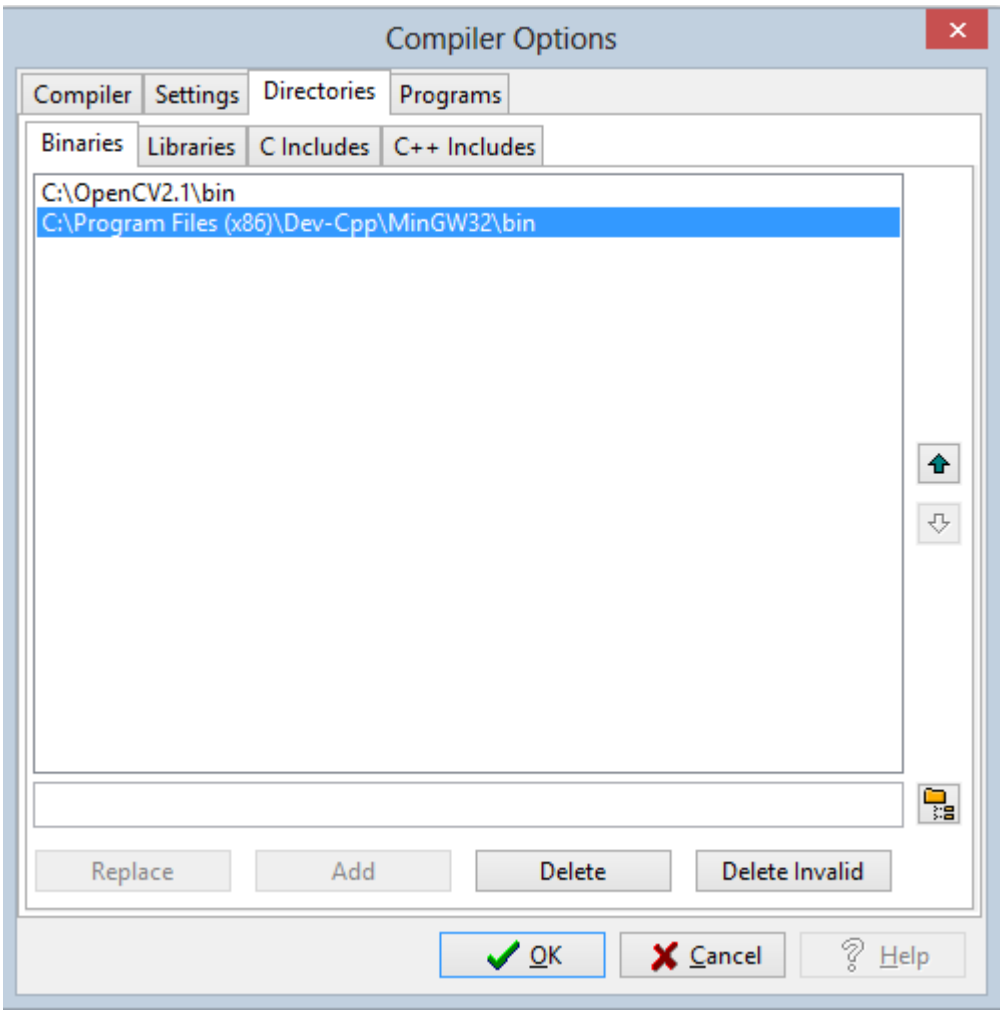
Type in the first text box: " **-L"C:\OpenCV2.1\lib" -lcxcore210 -lcv210 -lcvaux210 -lhighgui210 -lml210** " only those in bold, and " **-static-libstdc++ -static-libgcc** " in the second text box.

After the above steps, your screen would look like:

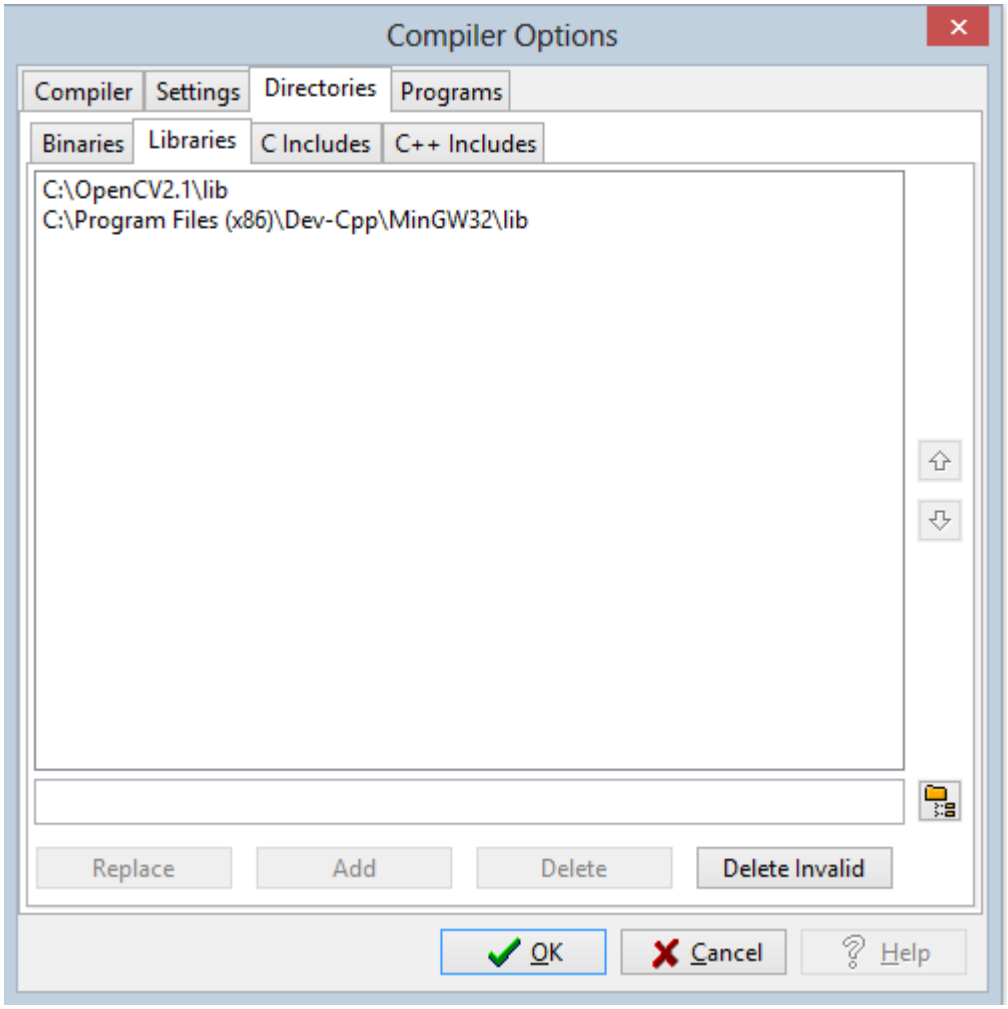

Compiler Options
Compiler
Settings
Directories
Programs
Compiler set to configure
OpenCV
Add the following commands when calling the compiler:
-L"C:\OpenCV2.1\lib" -lcxcore210 -lcv210 -lcvaux210 -lhighgui210 -lml210
Add the following commands when calling the linker:
-static-libstdc++ -static-libgcc
Makefile generation
Compile delay
0
Enable a delay in milliseconds if make complains about the timestamp of the makefile.
Use fast but imperfect dependency generation
OK
Cancel
Help

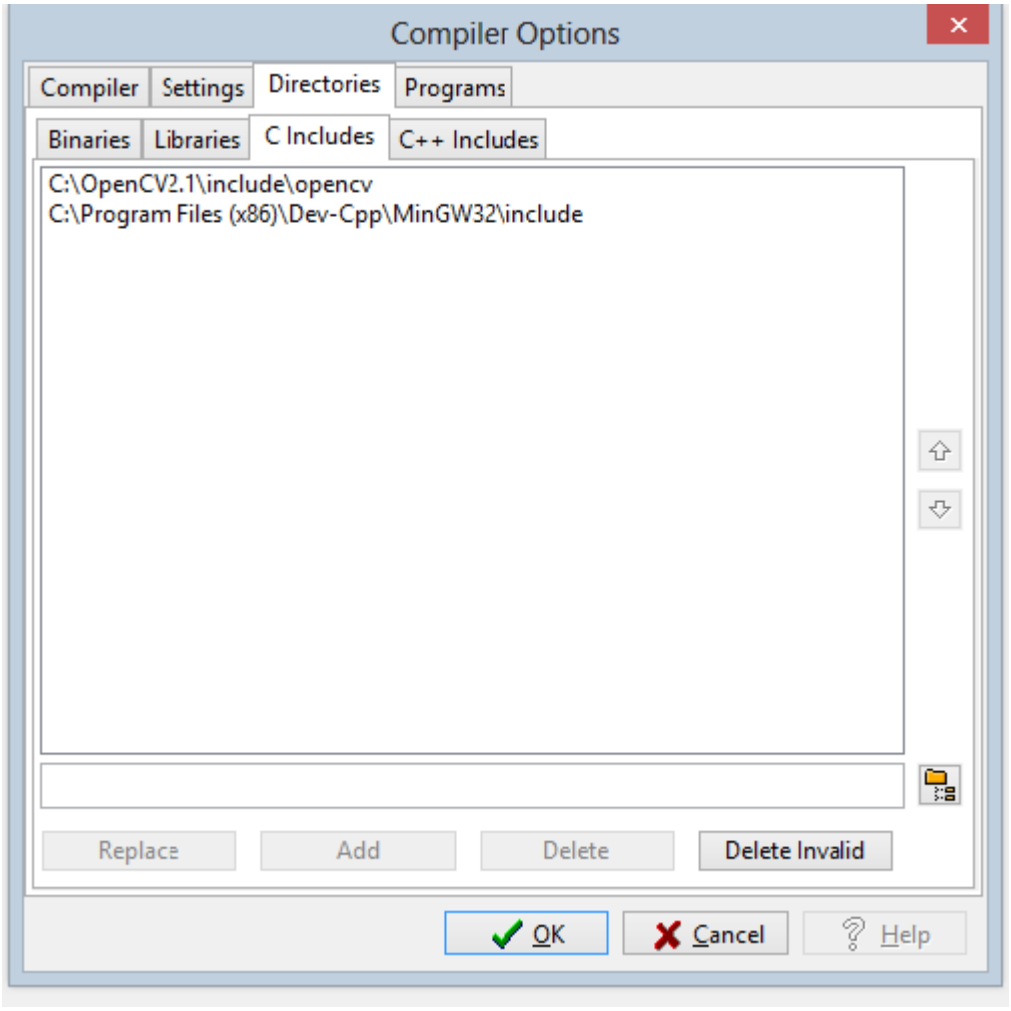
Then click on **directories** tab and then on **binaries.**

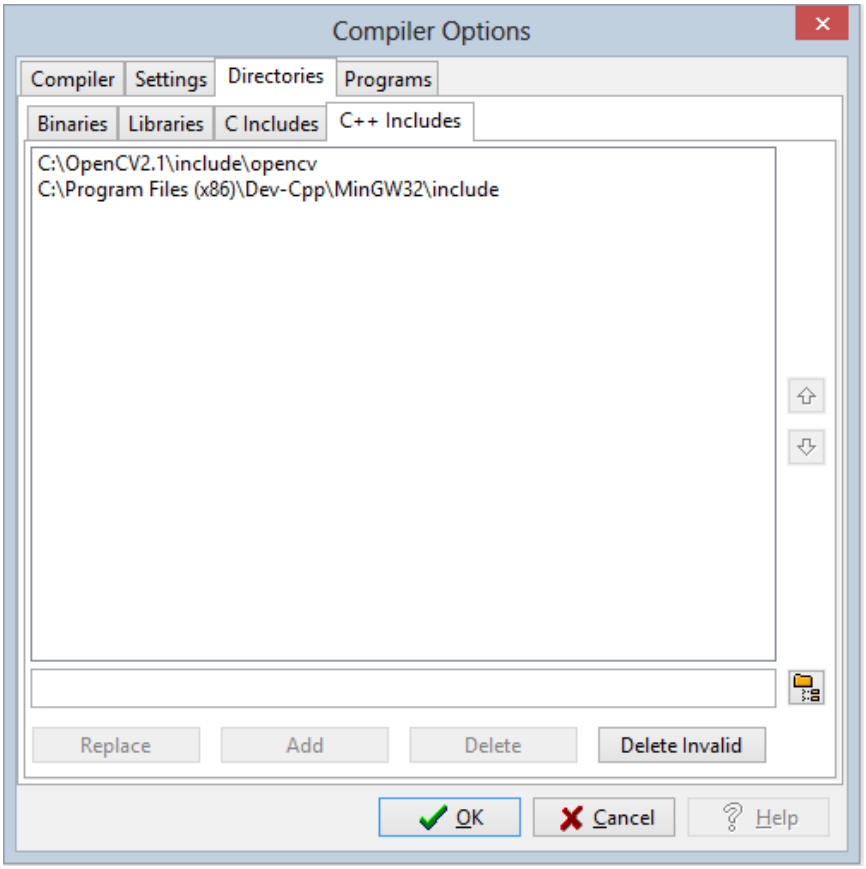
Browse for the following location adding bin folder to the this tab. Click Add and if things work right for you, you would end up with a screen similar to this :



Repeat the same for **libraries , C includes, C++ includes** and you'll get these three respective screens.




Compiler Options
Compiler
Settings
Directories
Programs
Binaries
Libraries
C Includes
C++ Includes
C:\OpenCV2.1\include\opencv
C:\Program Files (x86)\Dev-Cpp\MinGW32\include
Replace
Add
Delete
Delete Invalid
OK
Cancel
Help



Finally click on OK and the configuration process is complete ☺

Download the zip folder(try.rar) (https://drive.google.com/folderview?id=0By6IsgZSRnhrYncySWVFTndGLWc&usp=sharing), extract it and open the .cpp file using DevCPP and then compile and run this file.
If you end with the following image, you're done else go through all the steps again carefully.

Here's a list of sample programs (https://drive.google.com/folderview?id=0By6IsgZSRnhrYncySWVFTndGLWc&usp=sharing) ,try running them. And in case of any luck with other versiosns, keep me posted on my facebook account.