

win10下QT5配置OpenCV方法

2020-05-30

opencv pen qt5



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作為一個QT小白，最近在配置QT5+OpenCV,卻發現總是踩坑。好在我成功配置好了。

系統版本：win10 64位系統

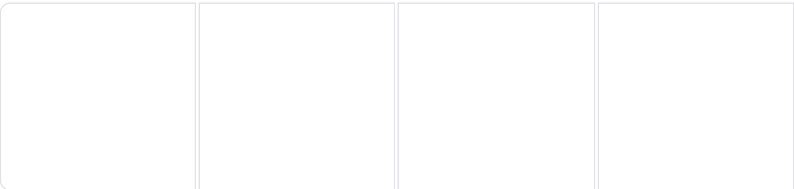
QT5版本：qt-opensource-windows-x86-5.12.3.exe

Cmake版本：cmake-3.17.0-win64-x64.zip

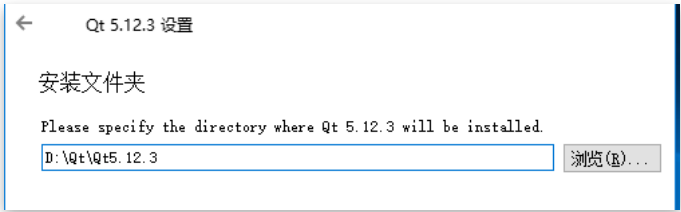
OpenCV版本：opencv-4.3.0.zip

首先安裝QT

win10中安裝軟件最好不要裝在C盤，避免權限問題。



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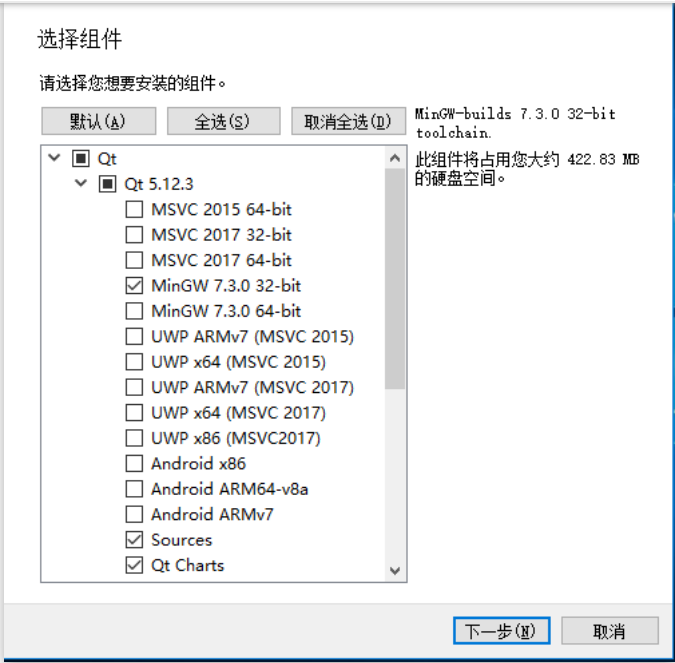
組件中一定要選中MinGW版本的編譯器，我這裡選擇32位，QT其他的請隨意

① >

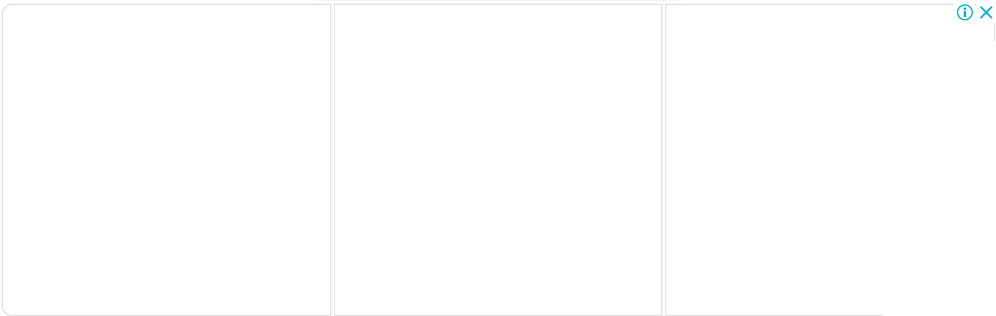
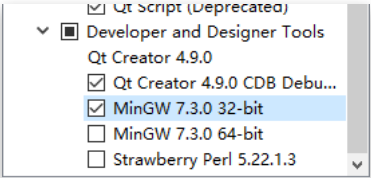
-2%	-14%
	-29%

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還有Developer and Designer Tools中，也要選中MinGW

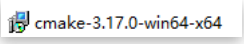


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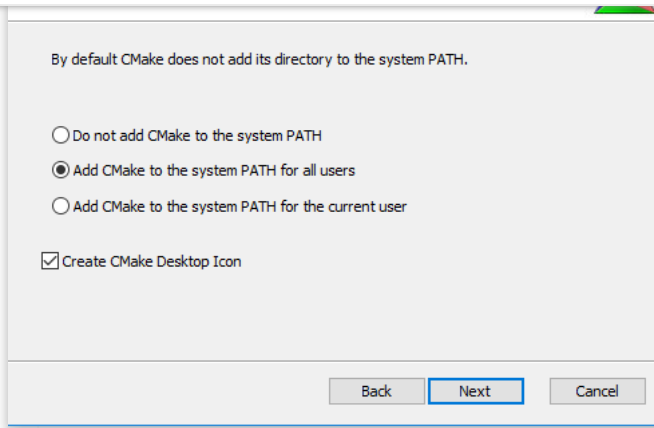
然後下一步，等待QT安裝成功。

安裝Cmake

解壓cmake 3.17,



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然後下一步更改安裝路徑到D盤，繼續點擊直至安裝完成。

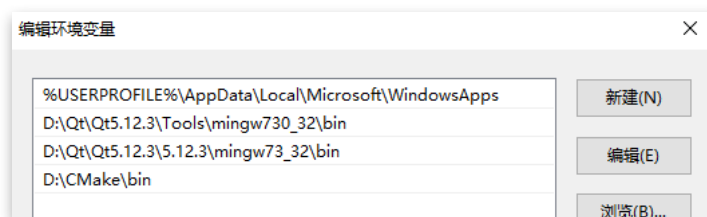
設置系統環境變量

將如下目錄添加到系統環境變量中（QT安裝目錄和CMake安裝目錄）：

D:\Qt\Qt5.12.3\Tools\mingw730_32\bin

D:\Qt\Qt5.12.3\5.12.3\mingw73_32\bin

D:\CMake\bin



重啟一下系統。

配置Cmake

解壓OpenCV到D盤。

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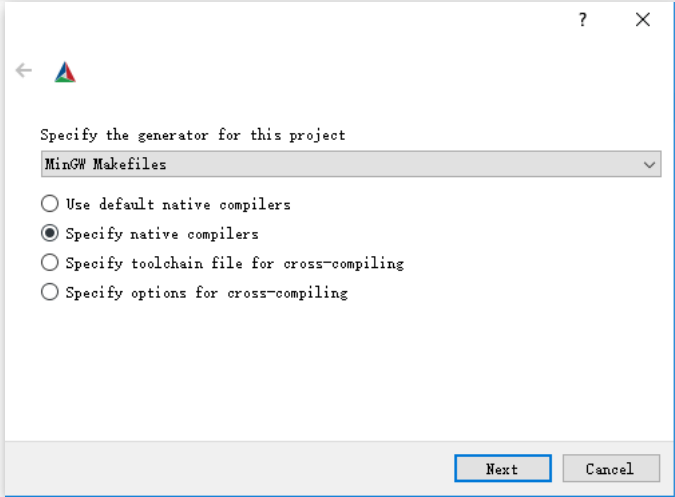
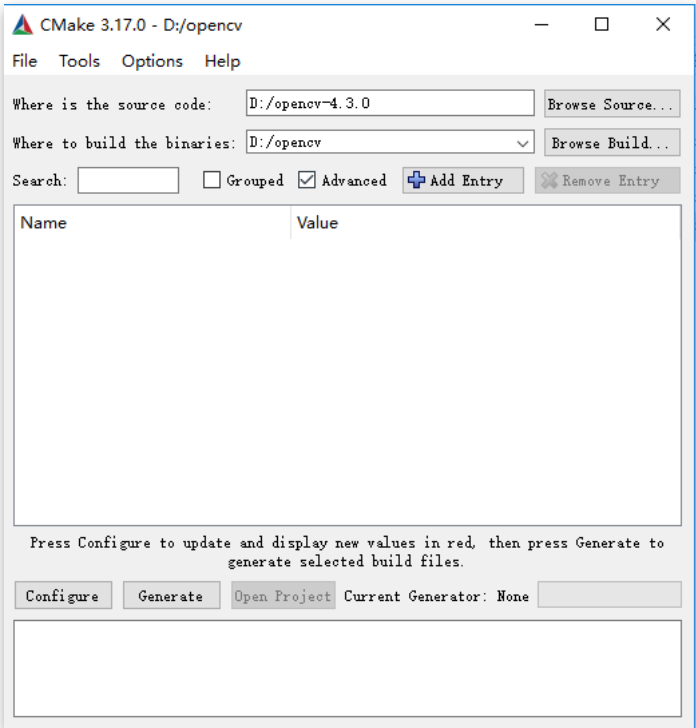


在D盤建立一個任意英文目錄，我取名為opencv，再打開Cmake

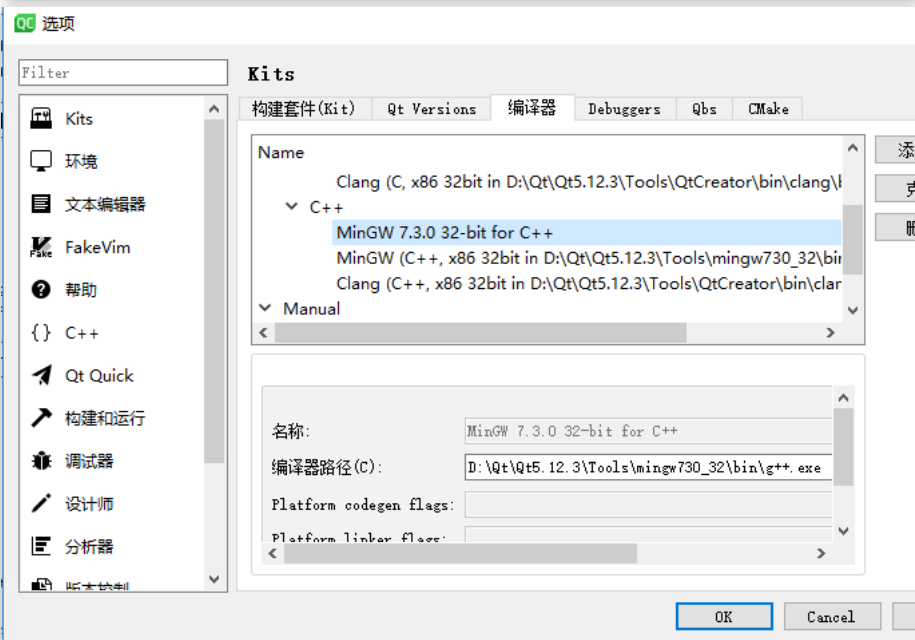
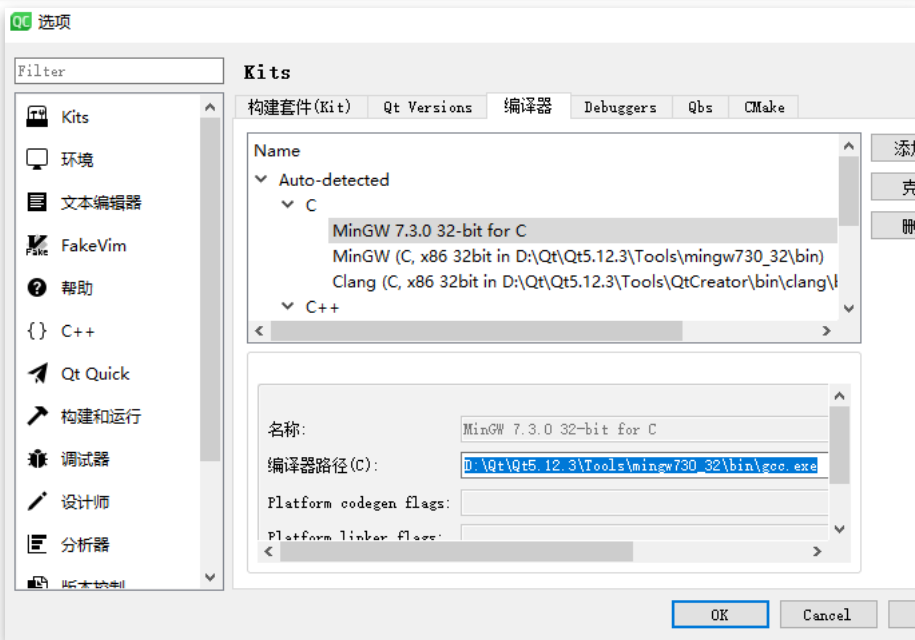
where id the source code:這裡選擇opencv的源文件目錄

where to build the binaries:這裡選擇後面新建的那個目錄

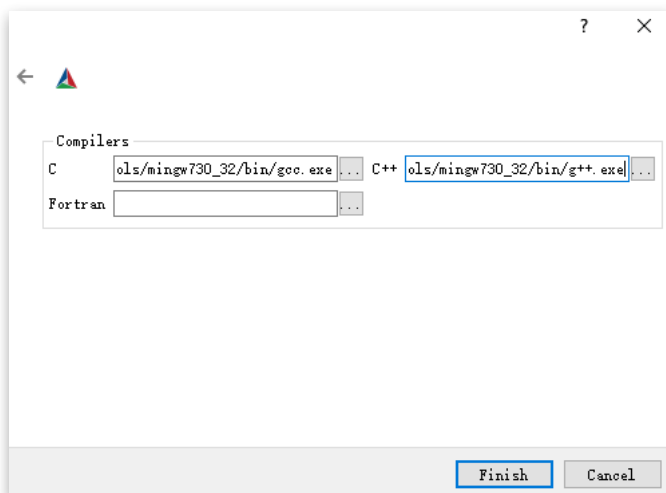
勾選Advanced,點擊Configure



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把gcc和g++的路徑複製到cmake，點擊完成，後等待



勾選中 "WITH_OPENGL"、"WITH_QT"；不勾選 "WITH_IPP"。



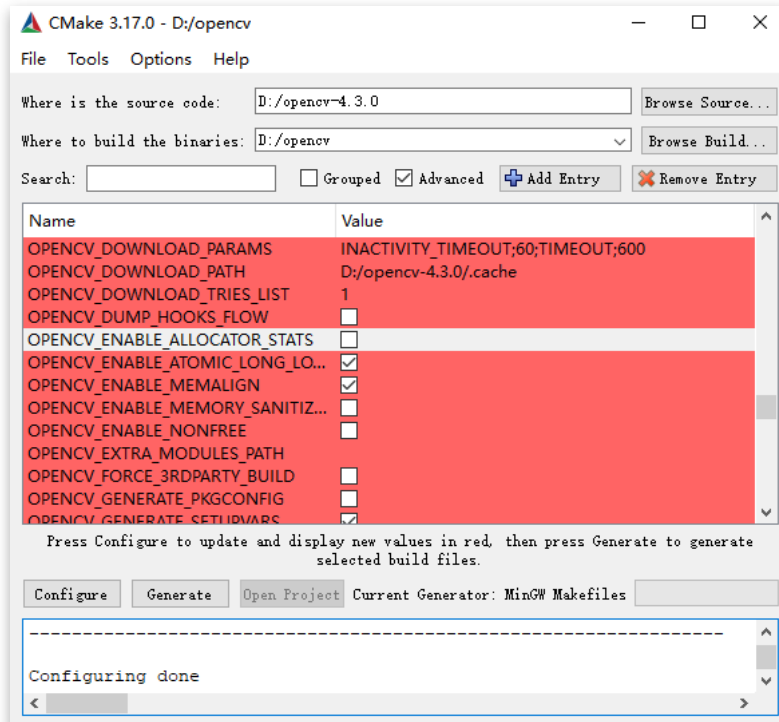
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OPENCV_ENABLE_ALLOCATOR_STATS ☐

否則會出現

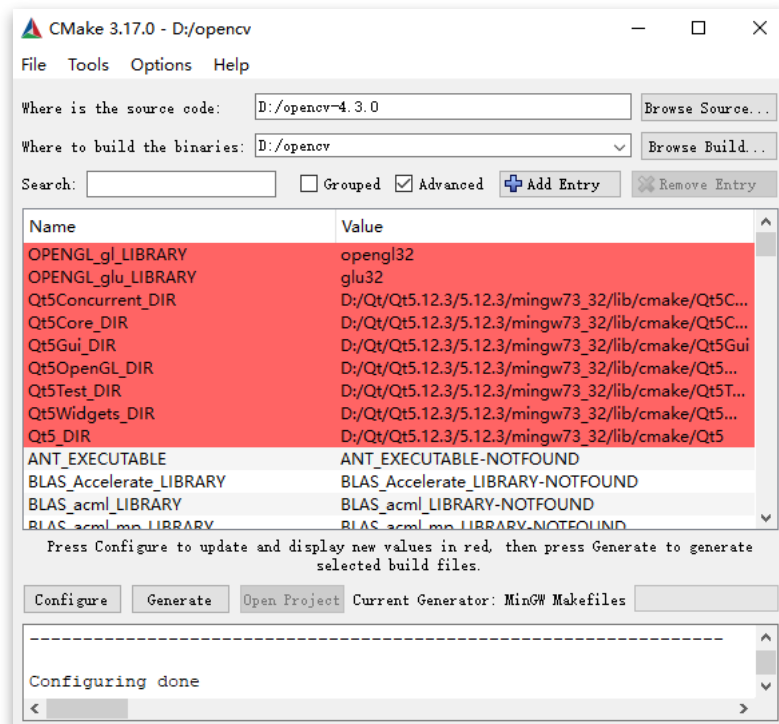
modules\core\CMakeFiles\opencv_core.dir\build.make:1506:modules/core/CMakeFiles/opencv_core.dir/vs_version.rc.obj

錯誤，需要手動編譯vs_version.rc.obj文件。



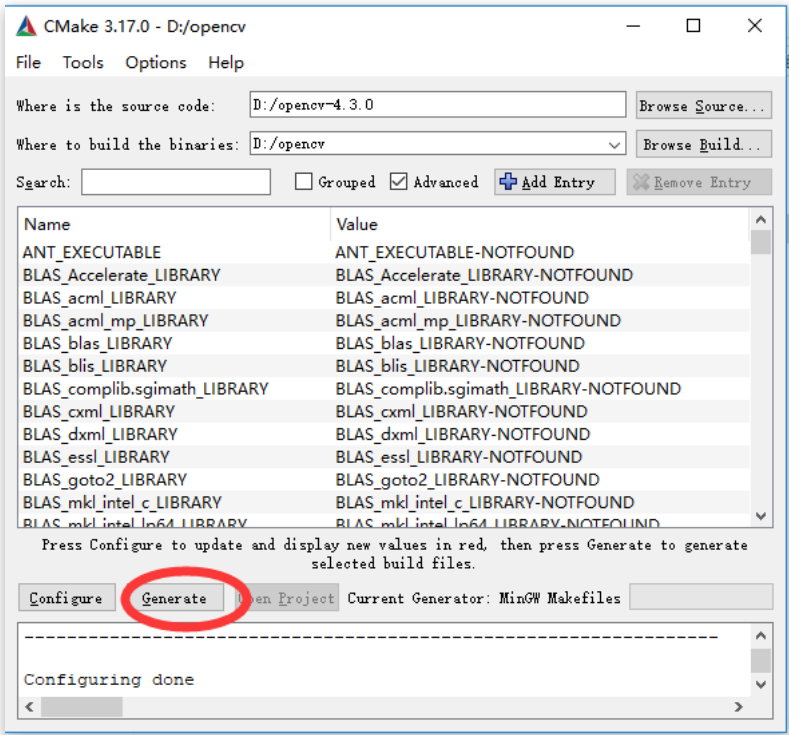
然後再次點Configure。

出現如下錯誤，檢查路徑是否正確



確認後，再次點Configure，直到沒有錯誤為止。

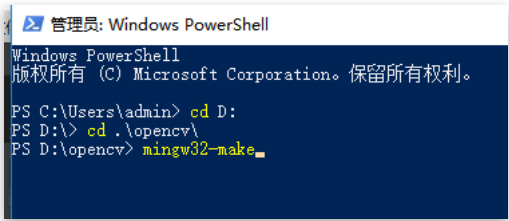
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點擊Generate，稍等片刻。

編譯OpenCV

打開windows powershell，定位到自己後面新建的目錄。我這裡是opencv，執行mingw32-make
該命令可以調用多線程執行：mingw32-make -j8；這表示使用8線程



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```

[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/opencv/perf_bgfg_mog2.cpp.obj
[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/opencv/perf_dis_optflow.cpp.obj
[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/opencv/perf_motempl.cpp.obj
[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/opencv/perf_optflow_farneback.cpp.obj
[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/opencv/perf_optflow_pyrlk.cpp.obj
[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/perf_bgfg_knn.cpp.obj
[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/perf_bgfg_mog2.cpp.obj
[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/perf_disflow.cpp.obj
[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/perf_ecc.cpp.obj
[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/perf_main.cpp.obj
[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/perf_optflowpyrlk.cpp.obj
[100%] Building CXX object modules/video/CMakeFiles/opencv_perf_video.dir/perf/perf_variational_refinement.cpp.obj
[100%] Linking CXX executable ..\..\bin\opencv_perf_video.exe
[100%] Built target opencv_perf_video
Scanning dependencies of target opencv_annotation
[100%] Building CXX object apps/annotation/CMakeFiles/opencv_annotation.dir/opencv_annotation.cpp.obj
[100%] Linking CXX executable ..\..\bin\opencv_annotation.exe
[100%] Built target opencv_annotation
Scanning dependencies of target opencv_visualisation
[100%] Building CXX object apps/visualisation/CMakeFiles/opencv_visualisation.dir/opencv_visualisation.cpp.obj
[100%] Linking CXX executable ..\..\bin\opencv_visualisation.exe
[100%] Built target opencv_visualisation
Scanning dependencies of target opencv_interactive-calibration
[100%] Building CXX object apps/interactive-calibration/CMakeFiles/opencv_interactive-calibration.dir/calibController.cpp.obj
[100%] Building CXX object apps/interactive-calibration/CMakeFiles/opencv_interactive-calibration.dir/calibPipeline.cpp.obj
[100%] Building CXX object apps/interactive-calibration/CMakeFiles/opencv_interactive-calibration.dir/frameProcessor.cpp.obj
[100%] Building CXX object apps/interactive-calibration/CMakeFiles/opencv_interactive-calibration.dir/main.cpp.obj
[100%] Building CXX object apps/interactive-calibration/CMakeFiles/opencv_interactive-calibration.dir/parametersController.cpp.obj
[100%] Building CXX object apps/interactive-calibration/CMakeFiles/opencv_interactive-calibration.dir/rotationConverters.cpp.obj
[100%] Linking CXX executable ..\..\bin\opencv_interactive-calibration.exe
[100%] Built target opencv_interactive-calibration
Scanning dependencies of target opencv_version
[100%] Building CXX object apps/version/CMakeFiles/opencv_version.dir/opencv_version.cpp.obj
[100%] Linking CXX executable ..\..\bin\opencv_version.exe
[100%] Built target opencv_version
Scanning dependencies of target opencv_version_win32
[100%] Building CXX object apps/version/CMakeFiles/opencv_version_win32.dir/opencv_version.cpp.obj
[100%] Linking CXX executable ..\..\bin\opencv_version_win32.exe
[100%] Built target opencv_version_win32
PS D:\opencv>

```

完成之後輸入mingw32-make install

```

PS D:\opencv> mingw32-make install
[ 2%] Built target zlib
[ 5%] Built target libjpeg-turbo
[ 7%] Built target libtiff
[15%] Built target libwebp
[18%] Built target libjasper
[19%] Built target libpng
[26%] Built target liblmdb
[32%] Built target libprotobuf
[32%] Built target quirc
[33%] Built target ade
[33%] Built target opencv_videoio_plugins
[39%] Built target opencv_core
[45%] Built target opencv_imgproc
[46%] Built target opencv_imgcodecs
[47%] Built target opencv_videoio
[48%] Built target opencv_highgui
[49%] Built target opencv_ts
[52%] Built target opencv_test_core
[54%] Built target opencv_perf_core
[54%] Built target opencv_flann
[55%] Built target opencv_test_flann
[59%] Built target opencv_test_imgproc
[61%] Built target opencv_perf_imgproc
[62%] Built target opencv_ml
[63%] Built target opencv_test_ml
[64%] Built target opencv_photo
[65%] Built target opencv_test_photo
[65%] Built target opencv_perf_photo
[72%] Built target opencv_dnn
[73%] Built target opencv_test_dnn
[73%] Built target opencv_perf_dnn
[75%] Built target opencv_features2d
[76%] Built target opencv_test_features2d
[77%] Built target opencv_perf_features2d
[81%] Built target opencv_gapi
[85%] Built target opencv_test_gapi
[85%] Built target opencv_perf_gapi
[85%] Built target opencv_test_imgcodecs
[86%] Built target opencv_perf_imgcodecs

```

將以下路徑添加到系統環境變量

D:\opencv\install\x64\mingw\bin

D:\opencv\bin

重啟電腦。

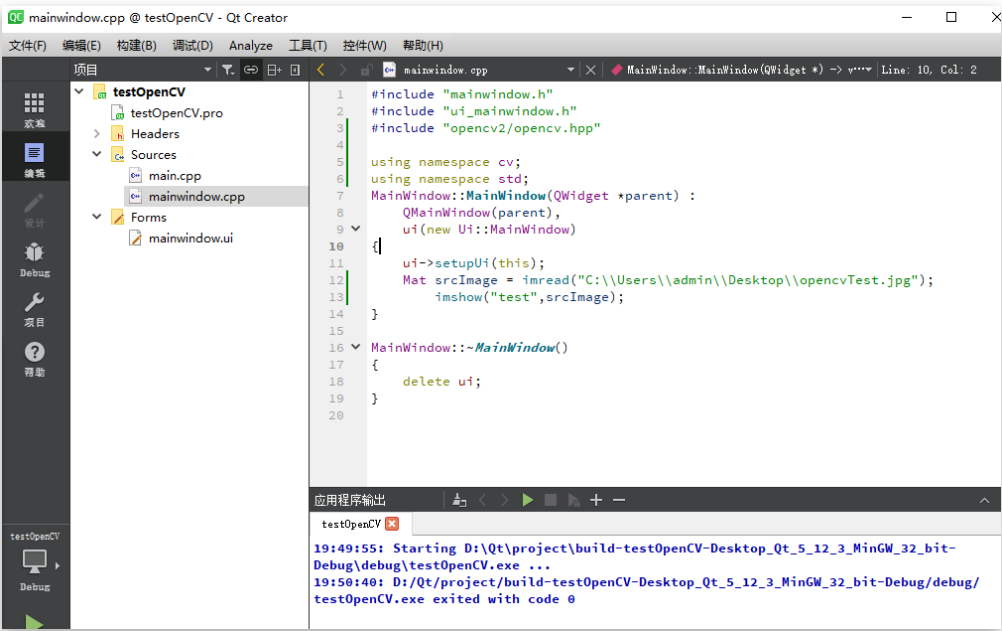
測試OpenCV

在QT的pro文件中添加以下代碼：

INCLUDEPATH += D:\opencv\install\include

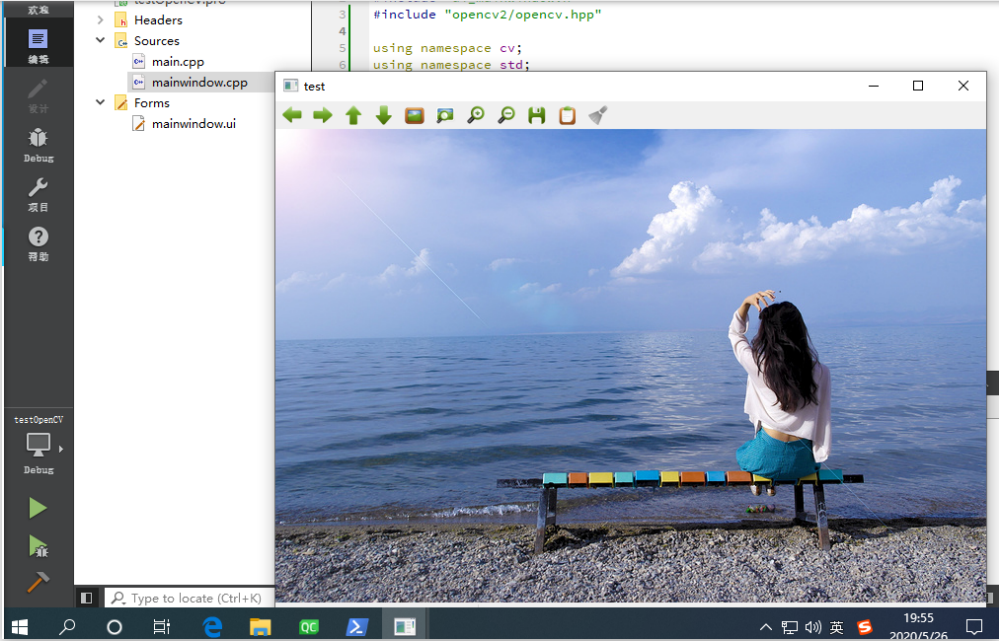
建立QT工程進行測試

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