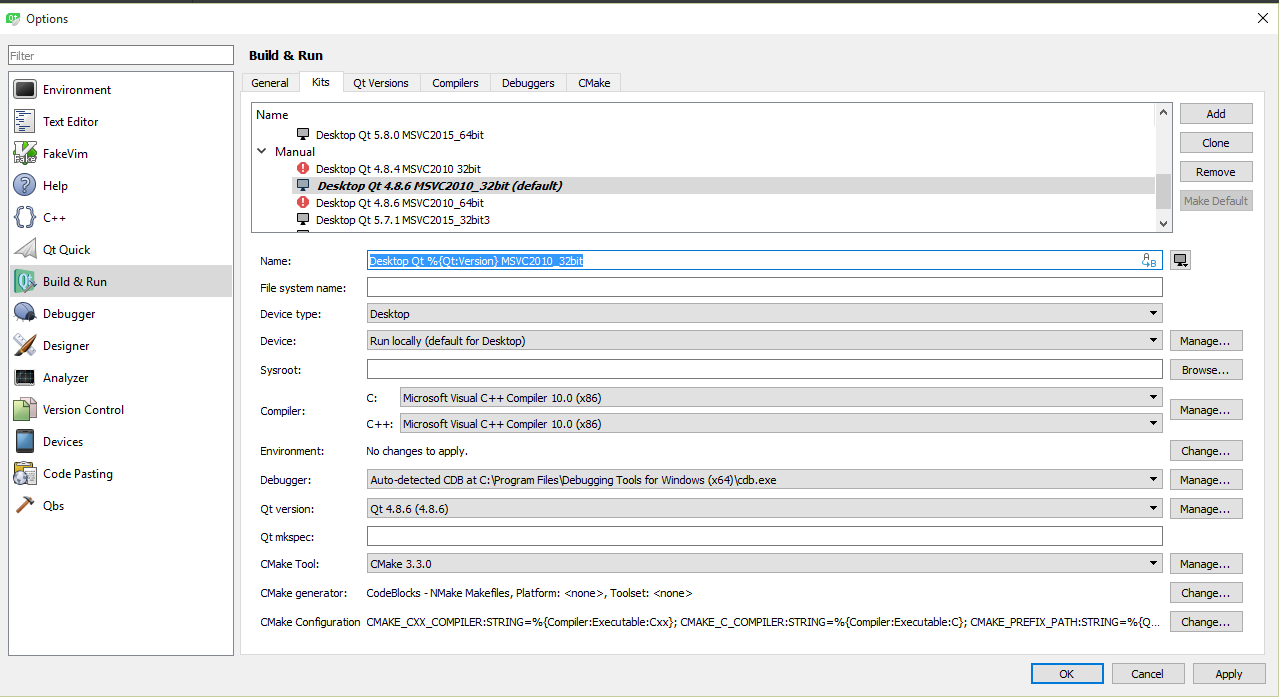
MergeBathy\_Qt

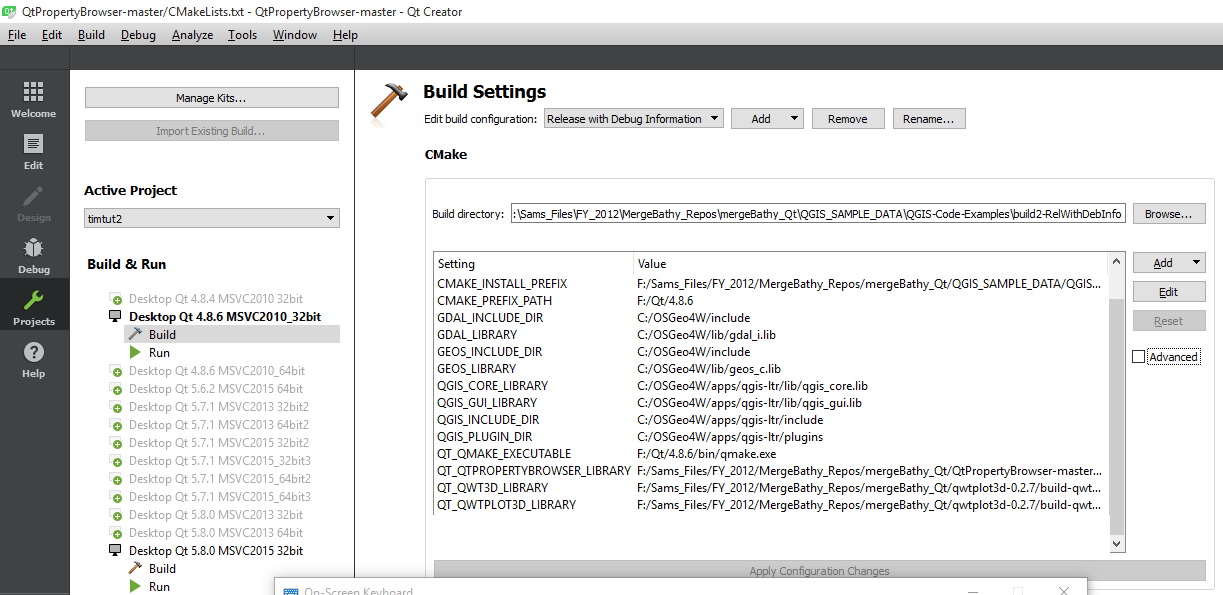
Instructions to setup Qt Creator development environment for MBGuiApp

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1. QGIS 2.14.13 Opensource files
   1. <http://www.qgis.org/en/site/forusers/download.html> (added by David Lewis)
      1. Then download (Download for Windows: Long term release (eg. For corporate users): QGIS Standalone Installer Version 2.14 (32 bit))
2. QtCreator
   1. <https://www.qt.io/download-open-source>
3. Qt 4.8.6
   1. <https://download.qt.io/archive/qt/4.8/4.8.6/qt-opensource-windows-x86-vs2010-4.8.6.exe>
4. OSGeo4W Network Installer
   1. <http://www.qgis.org/en/site/forusers/download.html>
   2. Use noadmin.bat to run without admin (must be in same directory as installer)
   3. Advanced Install:
      1. Search:
         1. qgis
            1. Desktop > qgis-ltr (2.14)
            2. Library > qgis-ltr-common (not sure if this is needed)
         2. qwt
            1. Library > qwt-devel-qt4
5. MSVC-2010 Compiler(X86 redistributable)
   1. <https://www.microsoft.com/en-us/download/details.aspx?id=8328>
6. CMake > 3.0 (currently running with 3.3)
7. Run qt4\_env\_startup\_qgis-ltr.bat
   1. This starts sets up the environment from which QtCreator runs.
8. Configure Kit in Qt
   1. Tools > Options… > Build & Run >
   2. Make sure you have
      1. Qt 4.8.6 in Qt Versions
      2. MSVC 2010 in Compilers
      3. A debugger in debuggers
      4. Cmake.exe in CMake
      5. Kits > clone > update fields to match the fig below:



1. Third-party Libraries
   1. QtPropertyBrowser-master\_Qt4.7
      1. Runs examples and places libraries in build\*/lib
      2. Unzip QtPropertyBrowser-master\_Qt4.7 > open > qtpropertybrowser.pro > run qmake > Qt4.8.6 MSVC 2010 Kit > release > run release (with debug info) to run examples
   2. QtPropertyBrowser-master \_Qt5.0
      1. This is a fork of qt-solutions for Qt5 support
2. Building Notes:
   1. Must start QtCreator from the appropriate script
      1. Qt4: qt4\_env\_startup\_qgis-ltr.bat
      2. Qt5: qt5\_env\_startup\_qgis-ltr.bat
   2. May receive error regarding max character limit reached for build directory: change build directory to > build-Qt\_5\_8\_0\_2015\_32bit-RelwDeb
   3. Qt5 does not work yet but to fix you may only need to replace QGIS 2.14.13 ui files with those from QGIS 2.99 (or at least newer than 2.14.13 which do not use files appended with v2)
3. Load Project
   1. Open
   2. Check Qt 4.8.6 MSVC 2010 > configure
   3. Set as Active Project
   4. Run Clean
   5. Run Cmake & Fix Cmake errors:
      1. Project > Set missing paths to qgis libs and include directories > Apply configurations > edit > run cmake > repeat until no more errors





* + 1. If project does not load and you cannot run CMake
       1. Restart QtCreator via batch file > Delete cmakeLists.txt.user (to reconfigure)
       2. Tools > Options > Build & Run > CMake > Make sure cmake.exe is in and is set in kit properly
  1. Make sure Desktop Qt 4.8.6 MSVC2010\_32bit > ReleaseWithDebugInfo is selected
  2. Both Run and Debug buttons work
  3. Displays window

qt4\_env\_startup\_qgis-ltr\_RUN\_ME.bat

ECHO Setting up QGIS DEV ENV

set PYTHONPATH=C:\Python27;C:\Python27\Scripts;C:\Python27\libs;

set OSGEO4W\_ROOT=C:\OSGeo4W

call "%OSGEO4W\_ROOT%\bin\o4w\_env.bat"

set GISF=qgis-ltr

@set QMAKESPEC=win32-msvc2010

@set PATH=%OSGEO4W\_ROOT%\bin;%OSGEO4W\_ROOT%\apps\%GISF%\bin;%PATH%

@set INCLUDE=%INCLUDE%;%OSGEO4W\_ROOT%\include;%OSGEO4W\_ROOT%\apps\%GISF%\include

@set LIB=%LIB%;%OSGEO4W\_ROOT%\lib;%OSGEO4W\_ROOT%\apps\%GISF%\lib

path %OSGEO4W\_ROOT%\bin;%SYSTEMROOT%\System32;%SYSTEMROOT%;%SYSTEMROOT%\System32\wbem;C:\Progra~1\Git\bin;C:\Qt\Tools\QtCreator\bin;%PATH%

set VS100COMNTOOLS=C:\Program Files (x86)\Microsoft Visual Studio 10.0\Common7\Tools\

call "C:\Program Files (x86)\Microsoft Visual Studio 10.0\VC\vcvarsall.bat" x86

start "Qt Creator" /B F:\Qt\Tools\QtCreator\bin\qtcreator.exe %\*