

Steps for installing QT, VTK, ITK for Microsoft Visual Studio 2008

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1. Get the source files
 - a. QT version: 4.6.4 for msvc (source) qt-win-opensource-4.6.4-vs2008.exe
 - b. VTK version: 5.6.1
 - c. ITK version: 3.20.0
 - d. Insight Application version: 3.20.0
2. Install Microsoft visual studio 2008. Easy and no need to explain.
3. Build QT for msvc 2008

Reference (<http://johnhforrest.com/2010/01/installing-qt-4-6-on-windows/>)

 - a. Run the exe, and select the installation folder to C:\Libs\Qt\4.6.4-msvc2008 (minutes)
 - b. Add qmake to PATH
To do this, go to
"Control Panel -> System and Security -> System -> Advanced System Settings -> Environment Variables -> System Variables (it's a table)"
Copy and paste the path of your Qt bin folder to the end of PATH variable.
C:\Libs\Qt\4.6.4-msvc2008\bin.
Use a semicolon (;) to separate any other path variables.
 - c. Configure qt before building it (several minutes)
Open up the Visual Studio 2008 command prompt.
Navigate to Qt folder using a command that should look something like this:
cd C:\Libs\Qt\4.6.4-msvc2008
run configure.exe provided by Nokia.
It has several options, but here is the configure command that I use generally:
configure -release -platform win32-msvc2008 -qt-sql-mysql (if you want database)
 - d. Build the framework
Command:
nmake
takes about 1.5 hrs
 - e. open up Visual Studio 2008 and click on Tools -> Options -> VC++ Directories
Include Files, add: C:\Libs\Qt\4.6.4-msvc2008\include
Library Files, add: C:\Libs\Qt\4.6.4-msvc2008\lib
Source Files, add: C:\Libs\Qt\4.6.4-msvc2008\src
 - f. install qt4 visual studio add-in version 1.1.10 (qt-vs-addin-1.1.11-opensource.exe).
After that, in the visual studio, there will be a Qt tab in the menu (at the top).
4. Build VTK for msvc 2008

And testing, reference

(<http://www.qtforum.org/article/18473/tutorial-for-using-qt-with-vtk.html>)

- a. Cmake to create project file
Select the source and build directory for vtk.
Source: C:\Libs\VTK\vtk5.6.1
Build: C:\Libs\VTK\vtkbin
Click "configure"
Make sure the
 VTK_USE_QT and VTK_USE_GUISUPPORT
are true.
Click configure until there is no red variables, then click generate.
- b. Open VTK.sln, select release and build solution.
5. Test Qt with VTK
 - a. Test them with the example in VTK source (../Examples/GUI/Qt/Imageviewer). Copy this code (only the cxx file) to a new directory.
 - b. Cmake to generate project file.
 - c. Open QtImageViewer.sln and test.
6. Build ITK
 - a. Cmake select source and build directory
Source: C:\Libs\ITK\InsightToolkit3.20.0
Build: C:\Libs\ITK\ITKbin
 - b. Select release. Build the solution.
7. Build Insight Applications
 - a. Cmake select source and build directory
Source: C:\Libs\ITK\InsightApplications3.20.0
Build: C:\Libs\ITK\ITKApplicationsbin
 - b. Select release, build the solution.
8. Test