METODO DE INSTALACION VTK

All systems

You must turn on the following options in the advanced VTK build configuration:

With VTK 5.x:

VTK\_USE\_QT

VTK\_USE\_GUISUPPORT

BUILD\_SHARED\_LIBS

With VTK 6:

VTK\_Group\_Qt

BUILD\_SHARED\_LIBS

If your Qt was not built with Webkit, VTK\_Group\_Qt will complain. Instead, set VTK\_Group\_Qt=OFF, Module\_vtkGUISupportQt=ON, and Module\_vtkGUISupportQtOpenGL=ON. You must have configured Qt with -opengl (and maybe -multimedia?) or you will get a "Qt QTOPENGL library not found." CMake error when configuring VTK.

Note: You MUST build in Release mode.

Linux

sudo yum install qt\*

(or equivalent)

Qt Designer

To use QVTKWidget in the QT4 Designer, you must:

sudo cp ~/build/VTK/bin/libQVTKWidgetPlugin.so /usr/lib/qt4/plugins/designer

VTK6:

sudo cp ~/build/VTK/lib/libQVTKWidgetPlugin.so /usr/lib/qt4/plugins/designer

Qt Creator

cp ~/build/VTK/bin/libQVTKWidgetPlugin.so /home/doriad/bin/qtcreator-2.6.2/bin/designer

NOTE: This does NOT work with versions of QtCreator built against Qt 5.0.1. At the time of this writing, the release with the package of Qt Libraries + Qt Creator is built against Qt 5.0.1, while the release of the stand alone QtCreator is built against Qt 4.8.3. The Designer plugin will simply not be loaded.

Linux(Debian)

To use Qt under LGPL, which is recommended by VTK, you have to have Debian 6.0 (Squeeze) or later. Debian(Squeeze) has QT 4.6 and Vtk 5.4 in it.

sudo apt-get install libqt4-dev libvtk5-qt4-dev

This will install all header files and libraries that you need.

This is still recommended even if you want to build the newer version for yourself since it will install most of header files and libraries that you need to build VTK and QT. If you build your version of VTK in /usr/local (i.e VTK-5.6), you can choose which version of VTK you are using when you do cmake for your application.

Set VTK\_DIR to /usr/local/lib/vtk-5.6 (your build) or /usr/lib/vtk-5.4 (system bundle) Set QT\_QMAKE\_EXECUTABLE to /usr/local/bin/qmake-qt4 (your build) or /usr/bin/qmake-qt4 (system bundle)

It would better match QT and VTK, that is if you build your VTK with you own QT (in /usr/local), you would better use VTK\_DIR in /usr/local/lib/vtk-5.6 and QT\_QMAKE\_EXECUTABLE at /usr/local/bin/qmake-qt4.

Windows

Download and install Qt. <http://qt.nokia.com/downloads/windows-cpp-vs2008>

Add a new environment variable:

QTDIR = C:\Qt\4.X.X (or whatever path you installed QT)

Append the environment variable PATH to add

C:\Qt\4.X.X\bin

C:\VTKbuild\bin\Release

(or \bin\Debug if that is how you have built VTK)

Copy QVTKWidgetPlugin.lib and QVTKWidgetPlugin.dll from C:\bin\VTK\bin\Debug to C:\Qt\4.7.0\plugins\designer

Mac OS X 10.5

Download Qt SDK for Mac from <http://get.qt.nokia.com/qtsdk/qt-sdk-mac-opensource-2010.05.dmg> and install.

Download VTK Source from <http://www.vtk.org/files/release/5.4/vtk-5.4.2.tar.gz>.

Download VTK Data from <http://www.vtk.org/files/release/5.6/vtkdata-5.6.1.tar.gz>

Unpack VTK Source and Data and setup environment like described above.

make a directory to build VTK in and cd into that directory. run ccmake <VTK Source Dir> and make sure you Qt GUI is enabled. run make -j 2 and make install.

Setup environment as described above.