

Qt6 C++ Course

What is QtQuick

The Qt Quick module is the standard library for writing QML applications. While the Qt QML module provides the QML engine and language infrastructure, the Qt Quick module provides all the basic types necessary for creating user interfaces with QML.

What is .pro file

.pro file is used to list the source files that are involved in a project.

What is Q_OBJECT Macro

The Meta-Object Compiler, moc, is the program that handles Qt's C++ extensions. The Meta-Object Compiler tool reads a C++ header file. If it finds one or more class declarations that contain the Q_OBJECT macro, it produces a C++ source file containing the meta-object code for those classes. Among other things, meta-object

code is required for the signals and slots mechanism, the run-time type information, and the dynamic property system.

What is QApplication

QApplication specializes QApplication with some functionality needed for QWidget-based applications. It handles widget specific initialization, finalization. For any GUI application using Qt, there is precisely one QApplication object, no matter whether the application has 0, 1, 2 or more windows at any given time.

What is QApplication::exec()

Enters the main event loop and waits until exit() is called, then returns the value that was set to exit() (which is 0 if exit() is called via quit()). It is necessary to call this function to start event handling. The main event loop receives events from the window system and dispatches these to the application widgets.