Qt 5 Blueprints

By Symeon Huang

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Design, build, and deploy cross-platform GUI projects using the amazingly powerful Qt 5 framework

About This Book

- Develop native graphical applications that can run anywhere with one of the world's best open-source frameworks
- Learn all about signals, slots, models, and views to design a robust structure for your application
- A comprehensive tutorial with step-by-step instructions to help you extend your applications across a wide domain

Who This Book Is For

If you are a programmer looking for a truly cross-platform GUI framework to help you save your time by side-stepping the incompatibility between different platforms and building applications using Qt 5 for multiple targets, then this book is most certainly intended for you. It is assumed that you have a basic programming experience of C++ and fundamental knowledge about Qt.

What You Will Learn

- Create graphical user interface applications with a customized layout and widgets
- Explore how the Model-View-Controller architecture works and relevant classes in Qt
- Develop a configurable application that is able to save and restore its own settings
- Write both static and dynamic plugins for Qt Widgets and Qt Quick applications
- Convert your single-threaded application to a nonblocking application by moving part of the application to another thread
- Enable your applications to support other languages dynamically

In Detail

Qt is a cross-platform application development framework that provides great visual interfaces for users and intuitive APIs for developers. The current version, Qt 5, provides enormous modules, from threading to interface animations, to ease your pain when developing cross-platform applications.

Starting with the basic concepts and fundamentals of Qt 5, Qt 5 Blueprints helps you get familiarized with the layouts and widgets of Qt as you build and debug a test application in Qt Creator. You will pick up the Qt design philosophy throughout the book, which will definitely help you to script your code in a more elegant manner.

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Editorial Review

About the Author

Symeon Huang

Symeon Huang is an amateur developer who's currently doing his master's degree at Trinity College, Dublin. He has been contributing to open source projects for several years. He has worked in various areas, including the maintenance of Linux servers, desktop application development, and image recognition and analysis. Symeon has always been passionate about cool technology and elegant programming techniques. He has been programming Qt and QML applications for 2 years and has also been developing pure C and C++ programs for many years. Most of the projects he's working on can be found on his GitHub and Gitorious pages.

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