Programming with Qt for Embedded Linux

Qt Essentials - Training Course

Produced by Nokia, Qt Development Frameworks Material based on Qt 4.7, created on August 13, 2010



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Part 1

- Fundamentals of Ot
 - . The Story of Qt
 - · Developing a Hello World Application
 - · Hello World using Qt Creator
- · Practical Tips for Developers Objects in Ot
 - Common Features of Ot's Object Models
 - · Object Communication using Signals & Slots
 - · Signal & Slot Variations
 - · Handling Events in Qt
- Ot Embedded Introduction
 - Embedded Setup
 - Fonts
 - Interprocess Communication



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Part 2

- Core Classes
 - String Handling Item Container
 - File Handling
 - Variants
- Widaets
 - Common Widgets
- Lavout Management
- · Guidelines for Custom Widgets
- · Painting and Styling
 - · Painting on Widgets
 - Color Handling
 - · Painting Operations
 - Style Sheets



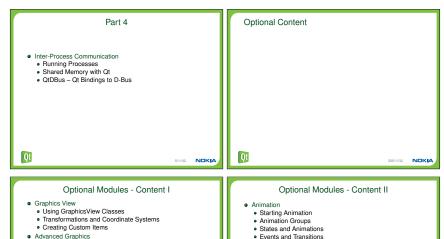




Part 3

- Application Creation
 - Main Windows
 - Settings Resources
 - Translation for Developers
 - Deploying Qt Applications
- Dialogs and Designer
 - Dialogs
 - Common Dialogs
 - Qt Designer
- Qt Embedded Adaptation
 - Display Management
 - · Pointer handling Key Handling
 - Window decoration
- · Feature configuration Performance Tuning

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Multitouch
Starting Multitouch
Touch Events

Introduction to Gestures

· Recognizing Gestures

Gestures









Optional Modules - Content III

- Development Process
 - OMake
 - · Some Thoughts About Portability
 - · Qt Debugging Aids
 - · Development Tools for Linux
 - Qt Licensing
 - · Shipping Qt With Your Application
 - · Unit Testing with QTestLib
- Other IDEs
 - · Visual Studio Integration
 - · Eclipse Integration
 - KDevelop



Optional Modules - Content IV

- Model/View
- Item Widgets
 - Model/View Concept
 - Custom Models
 - Item Views
- Application Scripting
 - Qt Script Debugging Scripts
- Multithreading

 - Multithreading I
 - QtConcurrent (Multithreading II)
- Multithreading III



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Optional Modules - Content V

- Specialized Widgets
 - · Emulating MDI with QMdiArea Scroll Areas
- · Native System Integration
 - ActiveOt
 - · Migration Techniques
- · Migrating Motif programs to Qt
- Widget Styles

 - Widget Styles · Custom Widget Styles
 - · Translucent and Shaped Windows

Optional Modules - Content VI

- Advanced Xml Processing
 - XQuery, XPath and XSLT XML Schema
- Network Programming
- The Network Module
 - Protocols
- · Request / Reply
- TCP/LIDP Sockets
- SSI Sockets
- DNS and Proxies
- The Event System Synthetic Events









Optional Modules - Content VII

- WebKit
 - WebKit
 - QWebView
 - Settings
 - Accessing the DOM
- Text Processing
 - Validating Input
 - · Rich Text Editing and Processing
- Other Topics
 - Memory mapped files
 - Timers



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