

Introduction to Qt/QML for Embedded Development

Based on Qt 5.6

The logo for AKDAB, featuring a stylized blue 'A' with a lightning bolt and wavy lines, followed by the letters 'K', 'D', 'A', and 'B' in a blue, sans-serif font.

AKDAB

Fundamentals of Qt for Embedded Linux

- Fundamentals of Qt for Embedded Linux
 - The Story of Qt
 - "Hello World" with QtQuick
 - Qt for Embedded Linux Overview
 - Supported Platforms
 - EGL
 - Introduction to Wayland
 - Building Qt for Embedded Linux
 - Introducing Qt Creator
 - Developing for Embedded Linux with Qt Creator
 - Practical Tips for Developers

Introduction to QtQuick

- Introduction to Qt Quick
- Composing User Interfaces
 - Graphical Elements
 - Text Elements
 - Anchor Layout
- User Interaction
 - Mouse Input
 - Touch Input
 - Keyboard Input
- Components
- Presenting Data
 - Arranging Items
 - Simple Data Models
 - Views
 - Customizing the Views
 - The Path View

QtQuick and C++

- Objects in Qt
 - Common Features of Qt's Object Model
 - Object Communication Using Signals & Slots
- Variants and Properties
 - Variants
 - Properties
- Integrating QML with C++
 - Exporting C++ Objects to QML
 - Creating New QML Elements
 - Creating Non-GUI Elements
 - Creating GUI elements
 - Using Custom Types
 - Attached Properties
 - Tips and Tricks

Supplemental Topics

QML Topics

- QtQuick Controls
- WebEngine
- Animations
- States and Transitions
- Declarative State Machines
- Painting and Effects
- The Loader Element
- Drag and Drop

Mixed C++/QML Topics

- Internationalization
- Unit Testing
- Plug-ins
- Platform, device, locale or resolution specific files
- Wayland Compositor

Supplemental Topics

C++ Topics

- The Event System
- Customized Drawing
- Resources

Model/View

- Model/View Concept
- Custom Models
- Model from C++
- Tree Models
- Value-based Models
- Proxy Models
- ObjectModel