Qt Core and Widgets

Training Course

Visit us at http://www.training.gte-india.com

Material based on Qt5.2, created on August 18, 2014

Qt Fundamentals

➲ Fundamentals of Qt

    ✎ The Story of Qt

    ✎ Developing a Hello World Application

    ✎ Hello World using Qt Creator

    ✎ Practical Tips for Developers

Qt

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Objects and Core Types

- ➲ Core Classes
  - ↳ String Handling
  - ↳ Container Classes
  - ↳ File Handling
  - ↳ Practical Tips for Developers

- ➲ Objects
  - ↳ Qt's Object Model
  - ↳ Variants
  - ↳ Properties

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Objects and Core Types

➲ Object Communication

    ↳ Signals & Slots

    ↳ Event Handling

Widgets and Designer

➲ Widgets

    ↳ Designer Introduction

    ↳ Common Widgets

    ↳ Layout Management

    ↳ Guidelines for Custom Widgets

➲ Dialogs

    ↳ Dialogs

    ↳ Common Dialogs

    ↳ Designer Forms and Code Integration

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Applications and Painting

⮞ Application Creation

    ↳ Main Windows

    ↳ Designer:

       Main Windows, Menus

       and Actions

    ↳ Settings and Resources

    ↳ The System Clipboard

    ↳ Drag and Drop

    ↳ Translation for Developers

    ↳ Deploying Qt Applications

Applications and Painting

➲ Painting and Styling

   ↳ Painting on Widgets

   ↳ Color Handling

   ↳ Painting Operations

   ↳ Style Sheets

Models and Views

➲ Model/View

↳ Model/View Concept
↳ Showing Simple Data
↳ Proxy Models
↳ Custom Models

➲ Model/View II

↳ Delegates
↳ Editing item data
↳ Data Widget Mapper
↳ Drag and Drop
↳ Custom Tree Models

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Graphics View

- Graphics View
  - Using Graphics View Classes
  - Coordinate Systems and Transformations
  - Creating Custom Items

- Graphics View 2
  - Widgets in a Scene
  - Drag and Drop
  - Effects
  - Performance Tuning

Other Topics

➲ Animation
  ↳ Starting Animation
  ↳ Animation Groups
  ↳ States and Animations
  ↳ Events and Transitions

Qt Additional Modules

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MultiThreaded Programming and Multimedia in Qt

➲ Multithreaded Programming

 ↳ Qt Multithreading

 ↳ Threading Primitives

 ↳ Qt Concurrent

➲ Multimedia Programming

 ↳ Qt Multimedia

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Inter-Process Communication

➲ Interprocess Communication

- ✥ QProcess
- ✥ Shared Memory with Qt
- ✥ Network Programming
- ✥ QNetworkAccessManager Request / Reply
- ✥ Bearer Management API
- ✥ TCP/UDP Sockets
- ✥ SSL Sockets
- ✥ DNS and Proxies
- ✥ QtDBus – Qt Bindings to D-Bus
- ✥ QtDBus - Advanced Topics

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Other Topics

➲ Extending Qt with Plugins

    ↳ Qt Plugins

    ↳ Plugin Example: Custom Image Formats

➲ Data Processing

    ↳ Basic XML APIs

    ↳ SQL Database API

    ↳ SQL Models

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Other Topics

➲ XML Patterns

      ✎ XPath, XQuery and XSLT

      ✎ QtXmlPatterns

      ✎ XML Schema