

# Qt Core and Widgets

## Training Course

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Produced by Integrated Computer Solutions

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# Qt Fundamentals

- Fundamentals of Qt
  - The Story of Qt
  - Developing a Hello World Application
  - Hello World using Qt Creator
  - Practical Tips for Developers

# Objects and Core Types

- Core Classes
  - String Handling
  - Container Classes
  - File Handling
  
- Objects
  - Qt's Object Model
  - Variants
  - Properties
  
- 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

# Applications and Painting

- Application Creation
  - Main Windows
  - Designer: Main Windows, Menus, and Actions
  - Settings
  - The System Clipboard
  - Drag and Drop
  - Resources
  - Translation for Developers
  - Deploying Qt Applications
- 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

# GraphicsView

- Graphics View
  - Using GraphicsView 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