

Archived: Useful Porting Examples

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See Fundamental use cases for porting iPhone and Android applications to Qt and Mapping iPhone and Android UI Concepts to Qt

Useful features for porting

This page covers some most common features and examples for porting cases, grouped by typical applications. Application sketches on the left side of this document are purposed to illustrate common application types on iPhone and Android devices. UI component images on the right show some of the most common Maemo/Nokia N900 elements used for building native-like user experiences.



Class: QListView QListView class provides a list or icon view onto a model. Read more Feature: Grouped items Grouping items helps controlling the UI layouts. Once grouped, the items will move together, and all transformations are propagated from parent to child Read more F

Class: Linear layout QGraphicsLinearLayout class provides a horizontal or vertical layout for managing widgets in Graphics View Read more №

Example: Dynamic linking Plug & Paint example demonstrates how to write Qt applications that can be extended through dynamically loaded plugins Open 🗗

Example: Server Fortune Server example shows how to create a server in Qt for a simple network service Open \blacksquare

Feature: State Framework State Machine framework provides an API and execution model that can be used to easily create UI functionality in Qt applications Read more ☑

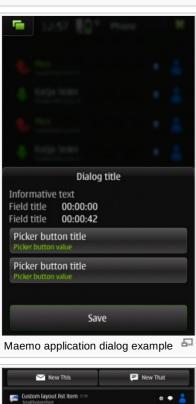
Example: State transitions Event Transitions example shows how to use event transitions, a feature of The State Machine Framework Open &











Maemo landscape list and buttons





Feature: View transform By applying a transformation to the view, you can easily add support for common navigation features such as zooming and rotating Read more &

Example: Drawing Basic Drawing example shows how to display basic graphics primitives in a variety of styles Open 4

Example: Complex paths Painter Paths example shows how painter paths can be used to build complex shapes for rendering Open 🗗

Example: Path stroke Path Stroke example demonstrates various types of pens that can be used in Qt for paths Open 4

Example: Advanced drawing Advanced Drawing example shows how to use advanced vector techniques to draw text using a QPainterPath Open 4



Example: Advanced composition Composition demo shows some of the more advanced composition modes supported by Qt Open 4

Example: SVG viewer SVG Viewer example shows how to add SVG viewing support to applications for great scalable UIs and graphics. Open ©

Example: State toggle Two-way button example shows how to use State Machine Framework to implement a logic that toggles state when a button is clicked Open &

Example: State animations Move Blocks example shows how to animate items in a QGraphicsScene using State Machine Framework with a custom transition. Open ©

Example: State animations Application Chooser example shows how to use the Qt state machine and the animation framework. Open &

Class: Syntax highlighting Syntax highlighters are often used when the user is entering

text in Exam enviror input Exam string Exam QNet

text in a specific format and help the user to read the text. Read more №

Example: Auto completer Auto-complete makes forms easier to use in mobile environments. Completer example shows how to provide string-completion facilities for an input widget based on defined data. Open 🗗

Example: Custom completer Custom Completer is an other example of how to provide string-completion facilities for an input widgetOpen

Example: Google suggest Google Suggest example demonstrates how to use the QNetworkAccessManager class to obtain a list of suggestions from the Google search engine as the user types into a QLineEdit Open ©

Example: HTTP Client Qt provides network-transparent features for many media and content classes, but HTTP interaction is still the very basic of modern development. HTTP example demonstrates a how to fetch files specified by URLs from remote hosts Open

Example: Web view Web view is a powerful tool for easy content handling. DOM Traversal example shows how to use the QWebElement class to access the structure of web view's HTML page Open

Example: Web view selector Simple Selector example shows how to use QWebElement to access the Document Object Model (DOM) in a Web page Open 4



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Class: QTableView QTableView class provides a default model/view implementation of a table view Read more №

Example: Sorting Custom Sort/Filter Model example illustrates how to perform advanced sorting and filtering in Qt Open 4

Example: Localization Qt makes localization easy. Internationalization (I18N) example demonstrates Qt's support for translated text Open 4

Example: Regexps Regular Expressions (RegExp) example shows how regular expressions in Qt are used with strings Open 4

Example: SQL query Query Model example shows how to make customized versions of data obtained from a SQL query Open 4

Example: SQL drill-down Drill Down example shows how to read data from a database as well as submit changes Open 4



Example: Audio output QAudioOutput class provides an interface for sending audio data to an audio output device. Audio output example demonstrates use of this class. Open 4

Example: Music player Music Player Example shows how to use Phonon - the multimedia framework that comes with Qt - to create a simple music player. Open 4

Example: Bearer management Bearer Cloud example shows how to use the Bearer Management API to monitor the connectivity state of the local device, i.e. for loading offline content only while WLAN is available Open ©



Example: Audio input Audio Input example shows how to use QAudioInput class, that provides an interface for receiving audio data from an audio input device. Open



Feature: Embedded widgets Graphics View provides seamless support for ଞିଳାଞ୍ଚିଣ୍ଡ 1-07-30 any widget into the scene. This makes it possible to combine highly branded UIs and common Qt widgets. Read more 🗗



Example: Drag'n'drop icons Drag'n'drop is the basic feature in modern user interfaces. Draggable Icons example shows how to drag and drop image data between widgets in Standard view Open

Example: Drag'n'drop text Draggable Text example shows how to drag and drop textual data between widgets in Standard view Open 4

Example: Fetch more Fetch More example shows how two add items to an item view model on demand, commonly used by applications with a list view Open 4

Example: FTP Client FTP Client example demonstrates how Qt can be used to list the available files on an FTP server and download them. Open 4

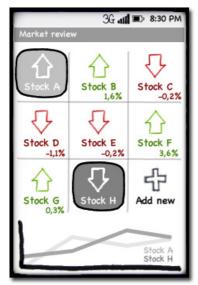
Example: P2P chat Network Chat example demonstrates a stateful peer-to-peer Chat client that uses broadcasting with QUdpSocket and QNetworkInterface to discover its peers.

Open 🗗



Example: Inline-SVG Text Object example shows how to reduce layout work and insert an SVG file (such as status icons, emoticons etc) into a QTextDocument Open 4

Example: Undo framework Undo Framework example shows how to easily implement advanced undo/redo functionality with the Qt undo framework Open 4



Example: Generated icons Qicon class in Qt creates automatically different button states from the given image object. Widget Icons example demonstrates how to use this great feature. Open 🗗

Feature: Painter rotate Adjusting coordinate system on-the-fly makes drawing of custom layouts easier in some cases. QPainter's rotate functionality rotates the coordinate system the given angle clockwise. [1]

How to Proceed with Porting

To proceed with porting, the following guides are recommended (part of this "Porting mobile application to Qt" article series):

- Porting to Qt Library . Reference library. Covers porting from android and iphone etc.
- Fundamental use cases for porting iPhone and Android applications to Qt a few powerful modules and how to port those to Qt
- Qt Quick examples for porting examples for creating fancy UI elements with Qt Quick
- Porting iPhone web app to WRT on Nokia devices, if your existing iPhone application is based on a server-side web implementation or is mostly implemented in HTML/CSS and JavaScript™ in the client side.
- Wordpress developer story describes the real-life experience of porting an application from iPhone to Qt. Both iPhone and Qt sources of the Wordpress client are also available as open source.
- See also Nokia Developer Design and User Experience Guide for ideas on how to achieve the best possible user experience when porting your application for Nokia devices.

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