

Application Development With Qt Creator

Qt Creator

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Qt Creator is a cross-platform C++, JavaScript, Python and QML integrated development environment (IDE) which simplifies GUI application development. It is part of the SDK for the Qt GUI application development framework and uses the Qt API, which encapsulates host OS GUI function calls. It includes a visual debugger and an integrated WYSIWYG GUI layout and forms designer. The editor has features such as syntax highlighting and autocompletion. Qt Creator uses the C++ compiler from the GNU Compiler Collection on Linux. On Windows it can use MinGW or MSVC with the default install and can also use Microsoft Console Debugger when compiled from source code. Clang is also supported.

Qt (software)

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Qt (/ˈkjuːt/ pronounced "cute") is a cross-platform application development framework for creating graphical user interfaces as well as cross-platform applications that run on various software and hardware platforms such as Linux, Windows, macOS, Android or embedded systems with little or no change in the underlying codebase while still being a native application with native capabilities and speed.

Qt is currently being developed by The Qt Company, a publicly listed company, and the Qt Project under open-source governance, involving individual developers and organizations working to advance Qt. Qt is available under both commercial licenses and open-source GPL 2.0, GPL 3.0, and LGPL 3.0 licenses.

Qt Group

writing Qt in 1991; since then, Qt has steadily expanded and improved. In 2002, Trolltech introduced Qtopia which is based on Qt. Qtopia is an application platform

Qt Group Plc (Qt is pronounced "cute") is a software company headquartered in Espoo, Finland. It was formed following the acquisition of Qt by Digia, but was later spun off into a separate, publicly traded company.

The company oversees the development of the Qt framework alongside the Qt Project, and provides tools for UI design, software development, quality assurance and testing, as well as expert consulting services.

Qt Quick

Qt Quick is a free software application framework developed and maintained by the Qt Project within the Qt framework. It provides a way of building custom

Qt Quick is a free software application framework developed and maintained by the Qt Project within the Qt framework. It provides a way of building custom, highly dynamic graphical user interfaces with fluid transitions and effects, which are becoming more common especially in mobile devices. Qt Quick includes a declarative scripting language called QML.

Qt Declarative is a runtime interpreter that reads the Qt declarative user interface definition, QML data, and displays the UI that it describes. The QML syntax allows using JavaScript to provide the logic, and it is often used for this purpose. It is not the only way, however: logic can be written with native code as well.

Qt Quick and QML are officially supported in Qt 4.7 (with Qt Creator 2.1), and it is a commercial option in mobile applications...

QML

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QML (Qt Meta-object Language) is a user interface markup language. It is a declarative language (similar to CSS and JSON) for designing user interface-centric applications. Inline JavaScript code handles imperative aspects. It is associated with Qt Quick, the UI creation kit originally developed by Nokia within the Qt framework. Qt Quick is used for mobile applications where touch input, fluid animations and user experience are crucial. QML is also used with Qt3D to describe a 3D scene and a "frame graph" rendering methodology. A QML document describes a hierarchical object tree. QML modules shipped with Qt include primitive graphical building blocks (e.g., Rectangle, Image), modeling components (e.g., FolderListModel, XmlListModel), behavioral components (e.g., TapHandler, DragHandler, State...

Qbs (build tool)

and Windows, with support for Universal Windows Platform applications, INTEGRITY, VxWorks, and other platforms under development. Qt Creator provides built-in

Qbs (pronounced Cubes) is a cross-platform free and open-source software for managing the build process of software. It was designed to support large, complex projects, written in any number of programming languages, primarily C/C++.

Qbs is an all-in-one tool that generates a build graph from a high-level project description (like its predecessor qmake), and additionally undertakes the task of executing the commands in the low-level build graph (like make).

Qbs was originally created by Nokia, then The Qt Company, who distributes it along with their Qt toolkit. It integrates with the Qt framework, and automates the creation of moc (meta object compiler) and rcc (resource compiler) sources, which are used in Qt's meta-object system and in the integration of binary resources (e.g. pictures)....

Graphical user interface builder

Purebasic Qt Creator SharpDevelop Softwell Maker U++ VB6 WinFBE Xcode Xojo Model-view-controller Web template system Rapid application development (RAD) Human

A graphical user interface builder (or GUI builder), also known as GUI designer or sometimes RAD IDE, is a software development tool that simplifies the creation of GUIs by allowing the designer to arrange graphical control elements (often called widgets) using a drag-and-drop WYSIWYG editor. Without a GUI builder, a GUI must be built by manually specifying each widget's parameters in the source code, with no visual feedback until the program is run. Such tools are usually called the term RAD IDE.

User interfaces are commonly programmed using an event-driven architecture, so GUI builders also simplify creating event-driven code. This supporting code connects software widgets with the outgoing and incoming events that trigger the functions providing the application logic.

Some graphical user...

KDE Gear

software development in a range of languages. It provides the tooling used to engineer KDE, and is particularly rich in tools to support Qt and C++ development

The KDE Gear is a set of applications and supporting libraries that are developed by

the KDE community, primarily used on Linux-based operating systems but mostly multiplatform, and released on a common release schedule.

The bundle is composed of over 200 applications. Examples of prominent applications in the bundle include the file manager Dolphin, document viewer Okular, text editor Kate, archiving tool Ark and terminal emulator Konsole.

Previously the KDE Applications Bundle was part of the KDE Software Compilation.

KDevelop

open-source software portal Comparison of integrated development environments List of KDE applications Qt Creator "KDevelop - News of 1999",. KDE. 1999-12-06. Archived

KDevelop is a free and open-source integrated development environment (IDE) for Unix-like computer operating systems and Windows. It provides editing, navigation and debugging features for several programming languages, and integration with build automation and version-control systems, using a plugin-based architecture.

KDevelop 5 has parser backends for C, C++, Objective-C, OpenCL and JavaScript/QML, with plugins supporting PHP, Python 3 and Ruby. Basic syntax highlighting and code folding are available for dozens of other source-code and markup formats, but without semantic analysis.

KDevelop is part of the KDE project, and is based on KDE Frameworks and Qt. The C/C++ backend uses Clang to provide accurate information even for very complex codebases.

Symbian

alternative application development language Qt, preferred development tool, both for the OS and applications, not limited to Symbian Qt Creator IDE Qt Quick

Symbian is a discontinued mobile operating system (OS) and computing platform designed for smartphones. It was originally developed as a proprietary software OS for personal digital assistants in 1998 by the Symbian Ltd. consortium. Symbian OS is a descendant of Psion's EPOC, and was released exclusively on ARM processors, although an unreleased x86 port existed. Symbian was used by many major mobile phone brands, like Samsung, Motorola, Sony Ericsson, and above all by Nokia. It was also prevalent in Japan by brands including Fujitsu, Sharp and Mitsubishi. As a pioneer that established the smartphone industry, it was the most popular smartphone OS on a worldwide average until the end of 2010, at a time when smartphones were in limited use, when it was overtaken by iOS and Android. It was notably...

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