Tizen and Qt together can do more

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Why Qt and Tizen?
Why Tizen?

- Security
- Web
- Desktop
- IVI
- Wearable
- Open Source Community
- Store
- Mobile
- Tv
Why Qt?

- Qt Creator IDE
- GUI Components
- Web
- Performance
- Open Source Community
- Flexibility
- Wayland
- Multimedia
- Qt Creator IDE
Freedom of choice
Overview of Qt (FAQ)
## Recent Qt history

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>Nokia bought Qt</td>
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<tr>
<td>2009</td>
<td>Qt became free to use for open source and commercial projects (LGPL 2.0 license)</td>
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<tr>
<td>2011</td>
<td>Qt Project under open governance started</td>
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<tr>
<td>2012</td>
<td>Digia bought Qt trademark from Nokia, thus Nokia lost any rights to Qt</td>
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<tr>
<td>December 2012</td>
<td>Long awaited Qt 5.0 released</td>
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<tr>
<td>September 2014</td>
<td>The Qt Company founded (LGPL 3.0)</td>
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Supported platforms

- Windows
- Linux
- Mac OS X
- Android
- iOS
- Blackberry
- Sailfish OS
- Win RT and Phone
- QNX
- VxWorks
- INTEGRITY
Community ports

- TIZEN
- webOS
- Amazon Kindle DX
- Ubuntu
- Amiga OS
- OpenSolaris
- Haiku
- OS/2
Licensing Model

- LGPL 2.1
- LGPL 3.0
- Indie Mobile
- Professional
- Enterprise
Qt modules/technologies

- **QtCore** - Core non-graphical classes used by other modules.

- **QtTest** – Classes for unit testing Qt applications and libraries.

- **QtSql** - Classes for database integration using SQL.

- **QtQML** - The Qt QML module provides a framework for developing applications and libraries with the QML language.

- **QtWebkit/QtWebEngine** - Classes for a WebKit2/blink based implementation and a new QML API.

- **QtGui** – Base classes for graphical user interface (GUI) components. Includes OpenGL.

- **QtNetwork** - Classes to make network programming easier and more portable.

- **QtWidgets** - Classes to extend Qt GUI with C++ widgets.

- **QtQuick** – A declarative framework for building highly dynamic applications with custom user interfaces.

- **QtMultimedia** - Classes for audio, video, radio and camera functionality.
Qt modules/technologies

Addons:

- Qt D-Bus
- Qt Positioning – maps and geolocation integration
- Qt Sensors
- Qt Concurrent
- Qt Bluetooth
- Qt NFC
- Qt WebSockets
- Qt Graphical Effects – OpenGL shader based components for use with Qt Quick

- Qt Image Formats - plugins for additional image formats: TIFF, MNG, TGA, WBMP.
- Qt Print Support
- Qt SVG
- Qt Serial Port
- Qt Xml Patterns - support for XPath, XQuery, XSLT.
- Enginio - a Backend-as-a-Service solution to ease the backend development for connected and data-driven applications.
Qt for Tizen
What is Qt for Tizen?

The Qt for Tizen project was founded in May 2013. Initiative is addressed to developers and by developers. It exists under Qt Project umbrella.

The main goal is to enable Qt for 3rd parties, developers and project founders involved in Tizen by:

- Support Tizen Community (blog, G+, twitter, facebook, irc)
- Deliver Qt binaries
- Deliver Qt integration
- Deliver Qt Creator based SDK
Achievements

Qt ported to Tizen Mobile RD-210 and RD-PQ device and emulator
Achievements

Qt Quick Controls Tizen Mobile style
Achievements

Qt for Tizen enabled submission of many applications to Tizen App Challenge

Integration with Tizen Mobile sensors
Achievements

Qt Creator integration with Tizen Mobile, IVI and Common

12 Qt repositories available for all public Tizen 3.0 profiles and mobile 2.2.1
Future challenges

- Full Qt Creator integration including remote debugging
- Integration with future Tizen's security enhancements
- Compliance with Tizen Store policy
- Qt Quick Automotive Message Broker plugins
- Qt Web Engine
- Qt Wayland Compositor API
- Further integration: maps, nfc, bluetooth...
- You choose!
Thank You
References

- http://en.wikipedia.org/wiki/Qt_(software)
- http://qt-project.org/wiki/Tizen
- http://fc06.deviantart.net/fs71/f/2012/283/3/a/desktop_computer_icon_by_ivprogrammer-d5hefue.png
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- http://openclipart.org/detail/90709/tv-icon-by-jhnri4