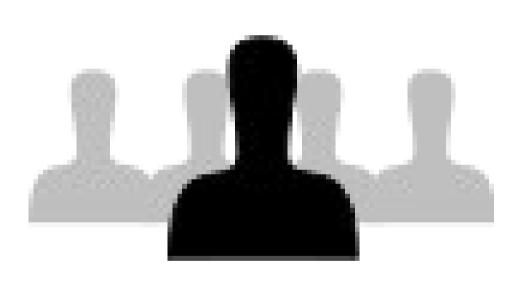


An Introduction to Qt

Jeremy Katz <jeremy.katz {at} nokia.com> Qt Development Frameworks - Nokia



About me



Qt developer for < 1 year

Focus: Embedded Linux development

An Oslo troll



What is Qt?

- History: Development started around 1993
- Used by KDE since inception
- Proven in industry



Qt in the field

- HP printers
- HGZ coffee machines
- Autodesk Maya 2011
- Roku Netflix player
- Videolan vlc
- Asus Skype phones



Platform support

Linux

- Display options: X11, Qt Windowing System (QWS)
- CPU options: X86, x86_64, ARM, PPC, MIPS

Mac OS X

Carbon and Cocoa

Windows

- Desktop: XP, Vista
- Mobile: CE

Symbian

Solaris, AIX, HPUX, vxWorks, ...



Licensing options

- GPL 3.0
- LGPL 2.1
- Commercial



Can we help you?

Support is available in several forms

- Commercial: available for all license models
- Large user community
- Qt training
 - And certification





What is Qt?

Technical level:

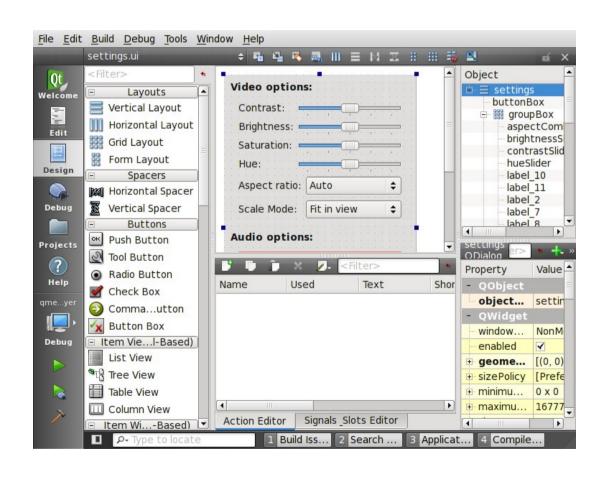
- An application framework
 - Written in C++
 - Other language bindings exist
- An IDE for all desktop platforms



Qt Creator

An IDE built on and for Qt

- •UI Design
- •Edit
- Compile
- Deploy & Debug
- API Help







What is Qt?

Technical level:

- An application framework
 - Written in C++
 - Other language bindings exist
- An IDE for supported desktop platforms
- Platform independent build tools



Open development model

- Git access
- Transparent Development Process
 - Development staff blogs
 - Developers regularly available on IRC



On to the good stuff



Code less. Create more. Deploy everywhere.



Ready to use

Embed a web browser in an application:





Ready to use

Embed a web browser in an application:

```
1 #include <QtGui/QApplication>
2 #include <QWebView>
3
4 int main(int argc, char *argv[])
5 {
6    QApplication a(argc, argv);
7    QWebView webView;
8    webView.show();
9    webView.load(QUrl("http://labs.trolltech.com"));
10    return a.exec();
11 }
```



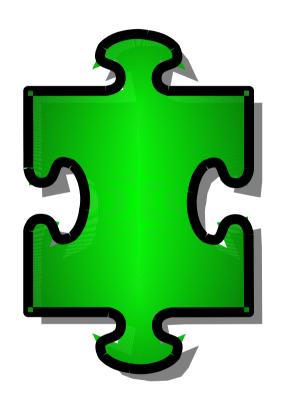
Capture

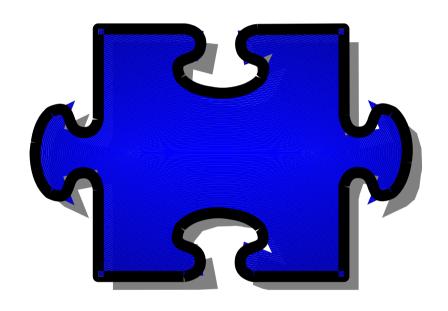
Capture that web page to SVG:

```
#include <QtSvg/QSvgGenerator>
#include <QtGui/QPainter>
...
QsvgGenerator generator;
generator.setFileName(...);
Qpainter painter(&generator);
webView.render(&painter);
```



The pieces you need







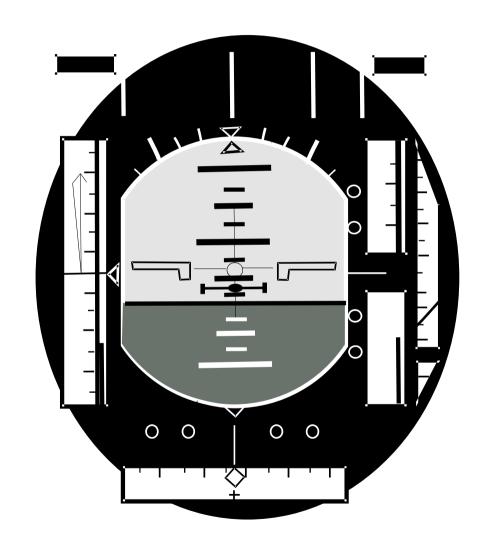
The pieces you need

- Core
- Gui
- Multimedia
- Networking
- OpenGL

- Scripting
- SQL
- Webkit
- XML
- SVG



UI Development options





UI Development options

Html Javascript QML



QML?

A declarative UI language Javascript for logic A Qt language binding



A Quick QML Demo

Demo source can be found under demos/declarative/ in the Qt 4.7 technology preview.

http://qt.nokia.com/developer/qt-qtcreator-prerelease



More information

General Information: http://qt.nokia.com

Source Code: http://qt.gitorious.org



Questions?