

# QtWebKit

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## Background

- For Qt we have a high demand for a browser engine that is
  - Actively developed
  - Using Qt
  - Has a Qt style API
- We want to work in an open environment
- Doesn't KDE need/want the same?

## Goals of this presentation:

- By the end I hope you will
  - Have a better understanding of what QtWebKit is
  - Understand how the WebKit community works

## Agenda

- 1 Brief QtWebKit overview
- 2 Current status
- 3 Introducing the WebKit community

## What is QtWebKit?

- WebKit's (thin) platform abstraction layer implemented to use Qt for
  - Rendering of Graphics and Text
  - Text codecs
  - Networking

## What is QtWebKit?

- QtWebKit provides Qt quality API
- JavaScript engine extended with QObject bindings
- Easy widget embedding

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## Current status

- First release with Qt 4.4
- Since then we've been
  - Fixing tons of bugs
  - Worked on Netscape Plugin support (with Collabora)
  - Support for <audio> and <video> using Phonon
  - Urs Wolfer is working on KDE integration (GSoC)



## New WebKit Features

- QtWebKit in the next release will inherit
  - New SquirrelFish JavaScriptCore engine
  - CSS reflections, masks, animations
  - Full page zooming
  - Local database support
  - ... many more features ...

## KDE Integration

- Urs Wolfer working as part of Google Summer of Code
- Use KIO as networking backend
- Provides a component for use in Konqueror
- Picks up KDE Settings
- `trunk/playground/libs/webkitkde`

## Applications using QtWebKit

- Arora Web Browser
- Amarok
- Plasma

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## Introducing the WebKit Community

- All development happens in SVN trunk
- Documentation at <http://wiki.webkit.org/> and <http://webkit.org/>
- #webkit on Freenode
- <http://planet.webkit.org/>

## Contributions

- Bug reports
- Reductions to test cases
- Patches

## Code Rules

- Every patch needs to be reviewed
- Common coding style
- Layout engine changes require regression test cases

## Reviewer and Committers Policy

- Contributors can become committers and reviewers
- Existing reviewers nominate contributors
- Two more reviewers second the nomination
- Apple takes care of the setting up account



## Patch submission

- Patches usually start out in Bugzilla
- Helps to associate patch with review discussion

## Quality Assurance

- Build bots compile WebKit on various platforms after every commit - <http://build.webkit.org/>
- Regression tests give quick feedback

## Room for improvement

- Current testing infrastructure makes branchy development difficult
- There is no official WebKit.org source release

## Conclusion

- QtWebKit is available for everyone
- It's easy to embed into your KDE application
- WebKit is a true open source project

**Thank You!**