QML across all UI Stacks
Support for Widgets

Kevin Krammer
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Agenda

- Motivation for DeclarativeWidgets
- Demo of pure QML Widget UI
- Porting
  - From designer/C++ UI to QML
  - Adding a BB10/Cascades UI
- Q&A
- Resources
Motivation
Situation

- **Widgets**
  - Widely used, well understood
  - Static UI, compiled code
  - Often tightly coupled with core logic

- **QML**
  - Relatively new, misunderstood as QtQuick
  - Runtime loadable, adjustable
  - Encourages separation core/UI
Goal

- Widgets with QML
  - No user-visible change
  - Apply existing developer knowledge
  - Core independent of UI
  - UI replaceable
    - QtWidgets -> QtWidgets (update/customize)
    - QtWidgets -> QtQuick
    - QtWidgets -> Cascades
Demo
Porting

• Step 1: Declarative Widgets
  – Create QML files for windows/dialogs
  – Make core API exposable

• Step 2: Mobile UI
  – Create QML files for target platform
  – Re-use core API from Step 1
Step 1

Final Result
Step 2

Demo
Step 2

Final Result
Thank you for your attention!

Any Questions?

- https://github.com/KDAB/DeclarativeWidgets
- Free Software / Open Source Software
- Works with Qt4
- Work in progress

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