Qt day

May 23-24 2018 | Florence, Italy

Qt Directions and Roadmap

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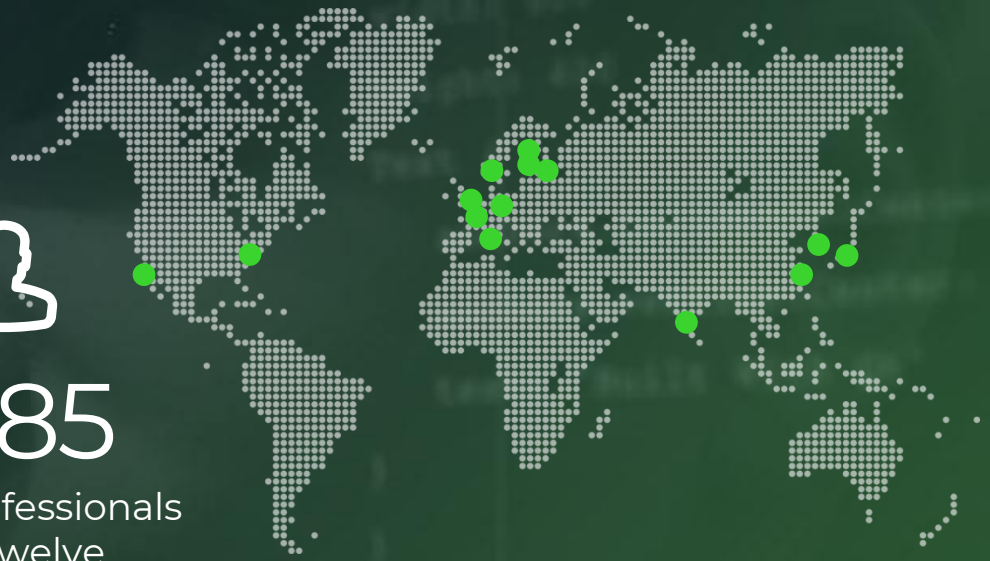
The Qt Company at a Glance

36.3 M€
2017 Revenue

11.9 %
2017 YoY Growth

-3.2 M€
2017 EBIT



285
Professionals in twelve countries, 1Q 2018

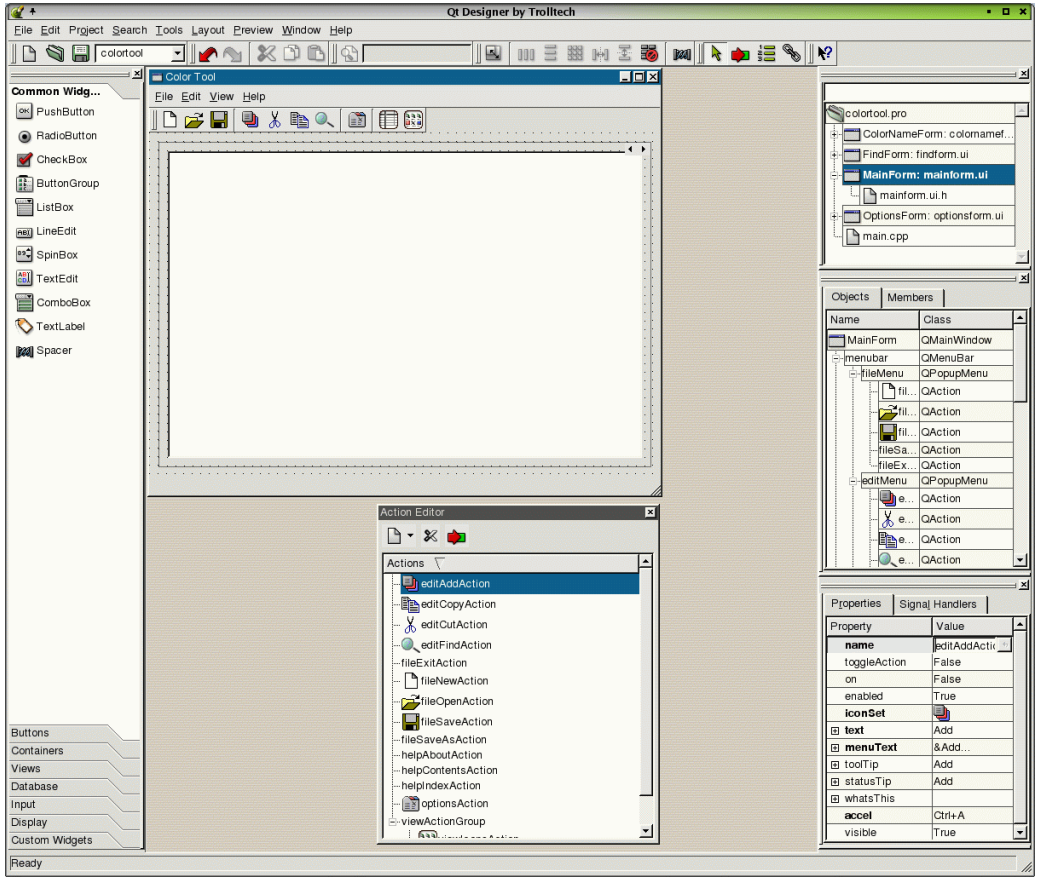
>5,000
Customers

>70
Industries

>1M
Developers

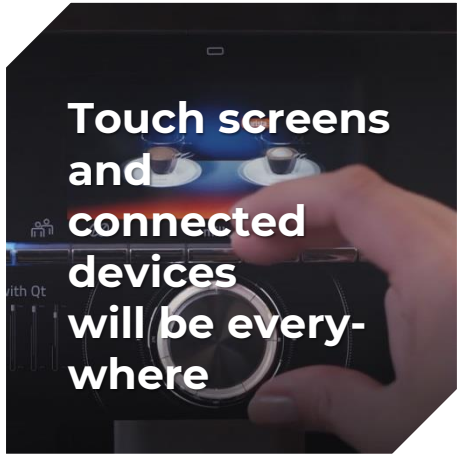
- 1995 — First public version of Qt released by Trolltech (Norway)
- 2006 — Trolltech IPO to Oslo exchange
- 2008 — Trolltech acquired by Nokia
- 2011 — Digia acquired Qt Commercial licensing business from Nokia
- 2012 — Digia acquired "All rights to Qt" from Nokia
- 2015 — "The Qt Company" becomes its own entity, a subsidiary of Digia
- 2016 — Qt Group Plc demerger from Digia, listed independently in NASDAQ Helsinki
- 2017 — Raised 15 M€ equity to fund growth investments

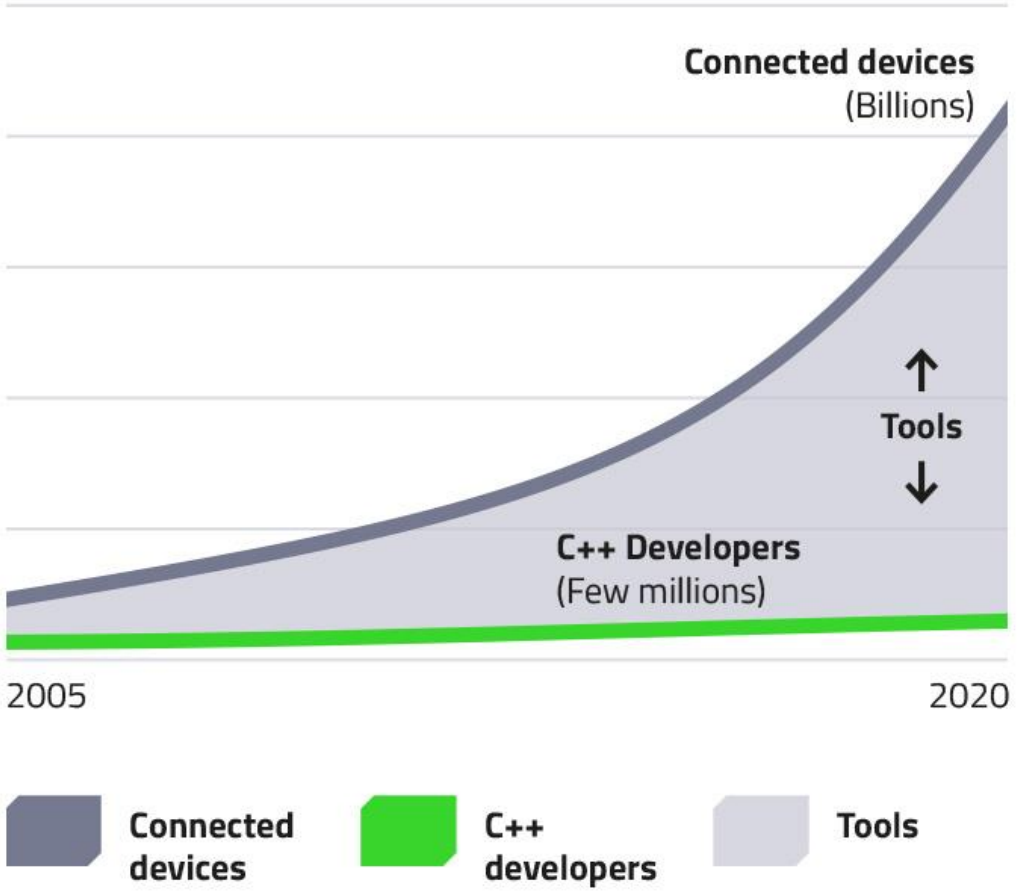
The Origins of Qt



The Origins of Qt

The future is written with Qt





Key Focus Areas for 2018

Designer – developer workflow

Performance, Quality, HW support

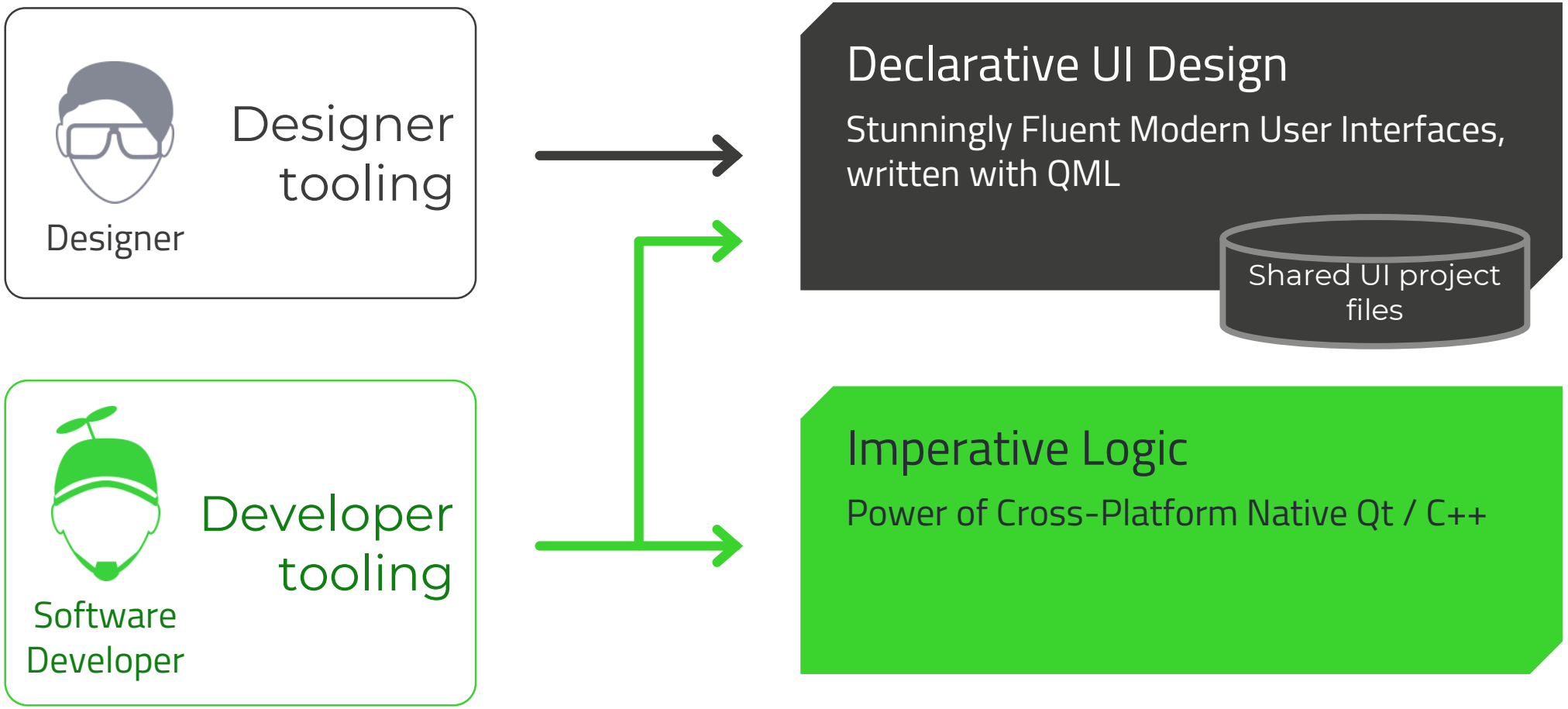
Industry specific requirements

- Tooling Evolution
- Framework Updates
- Research and Technology Preview

Tooling Evolution

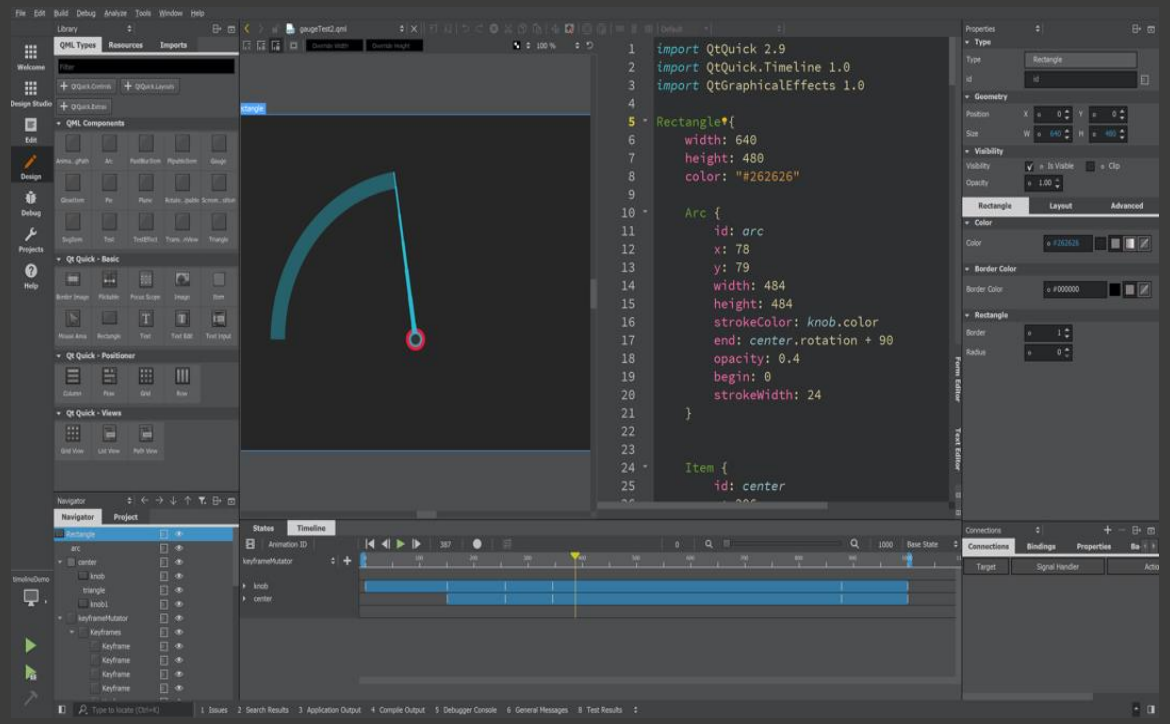
- Design Studio
- 3D Studio
- Safe Renderer

Improving the workflow between designer and developer



Qt Design Studio

Designer Friendly Qt Quick UI Tooling



- Standalone design tool
- For UI Developers and UI/UX Designers
- Test and preview on target hardware
- Extensible with plugins

Qt Design Studio – Key New Features

- Designer-friendly UX
- Import assets from Photoshop
- Timeline-based animations
- Real-time preview on device

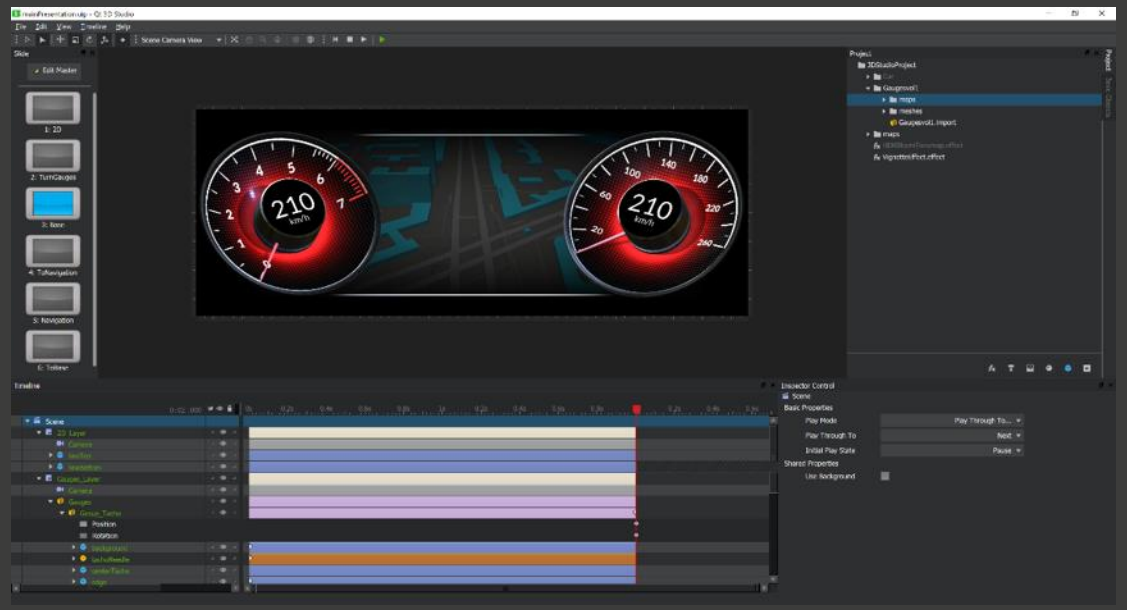
Qt Design Studio

Public Tech Preview

Initial Release (1.0)

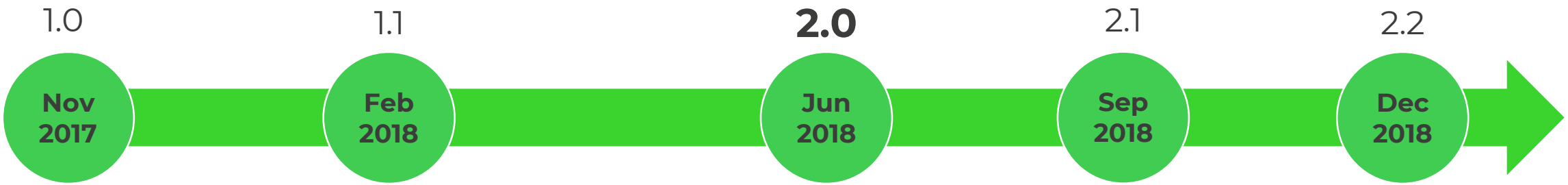
Qt 3D Studio

Rapid 3D UI creation



- Import 3D assets in FBX and COLLADA formats
- WYSIWYG 3D editing
- Timeline-based animations
- Supports layers and states
- Combine 2D and 3D UIs
- Extend with your own materials and effects

Qt 3D Studio - Release Roadmap



Qt 3D Studio 2.0 – Key New Features

- New runtime based on Qt 3D
- Interoperability with Qt Creator and Qt Design Studio
- Improved examples and documentation
- Instrument cluster design templates

Qt Safe Renderer 1.0

Convenience for Safety Critical UI Creation

- Seamless design of both safe and non-safe UI
- Certified runtime component
- Safety manual and certification artifacts

Other Tools

Boot2Qt

Embedded Linux Stack

Prototype on target hardware from day one

Qt Lite

Customize Qt Libraries

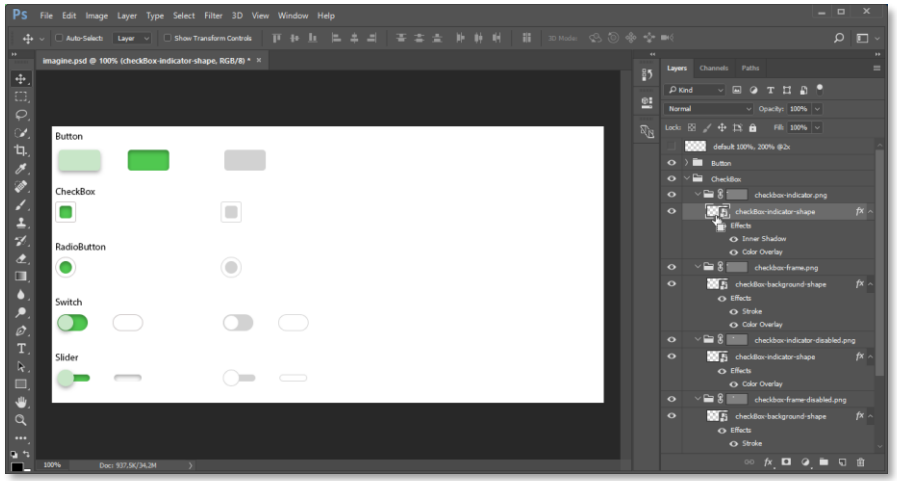
Reduce memory footprint and scale down

- Tooling Evolution
- Framework Updates
- Research and Technology Preview

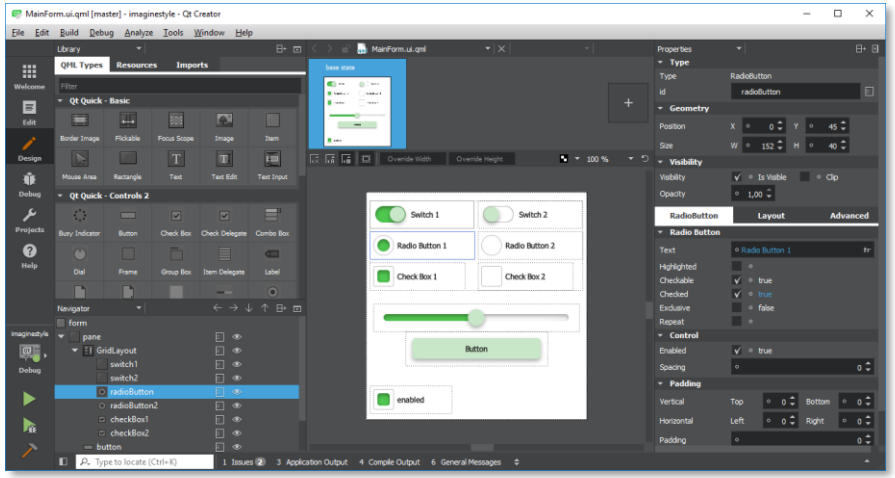
Image Based Style for Qt Quick Controls 2

Qt 5.10

Adobe Photoshop



Qt Quick Designer



› Custom styling with image assets

› No QML coding needed for styling

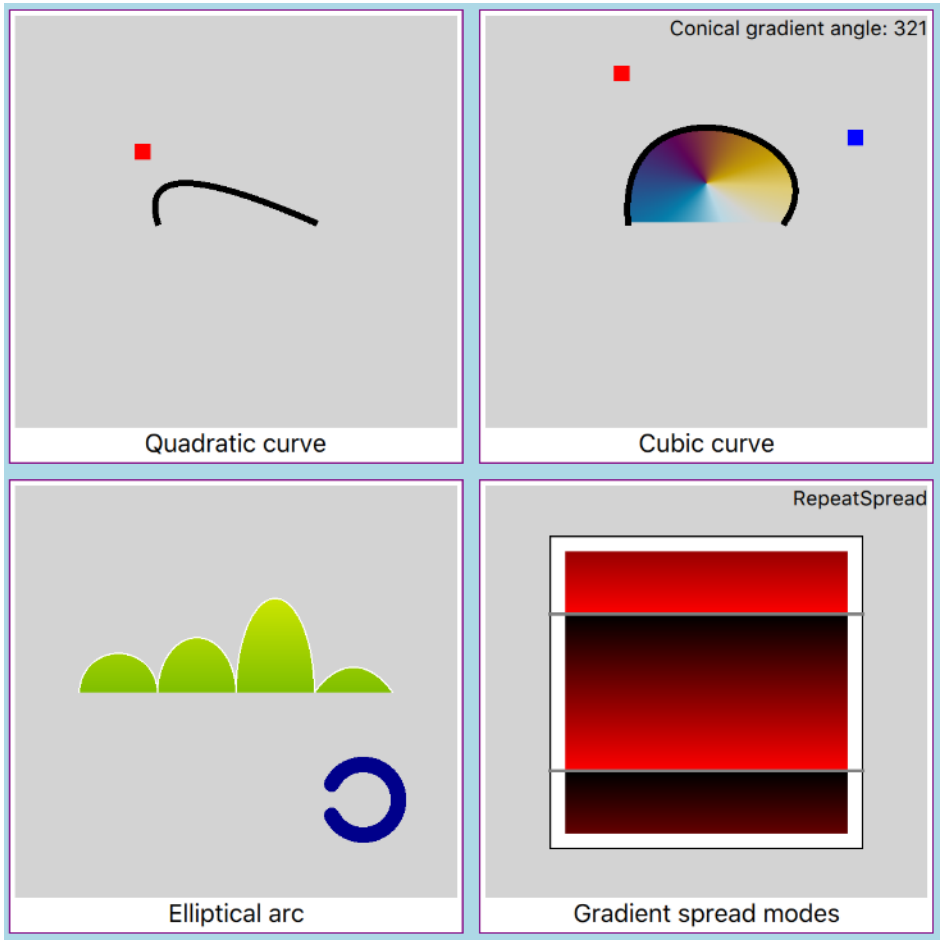
› Easy start with provided templates

Qt Quick – New shape types

Qt 5.10

- Easy and efficient way of rendering vector graphics in Qt Quick
- Easy to create new shapes:

```
Shape {
    ShapePath {
        strokeColor: “red”
        PathLine { x: 10; y: 10 }
        PathArc { x: 20; y: 20; radiusX: 60 }
    }
}
```



Qt 5.10 – other new features

- Vulkan enablers
- Qt Network Authorization (OAuth)
- Qt Speech (text-to-speech)

Loading of Compressed Textures

Qt 5.10 & 5.11

- Qt Quick
  - PKM, KTX container formats
  - ETC1, ETC2 and ETC2_EAC compression formats
- Qt 3D
  - PKM, DDS container formats
  - ETC1, ETC2 and ETC2_EAC compression formats
- Qt 3D Studio 1.0
  - DDS container format
  - Some compression formats

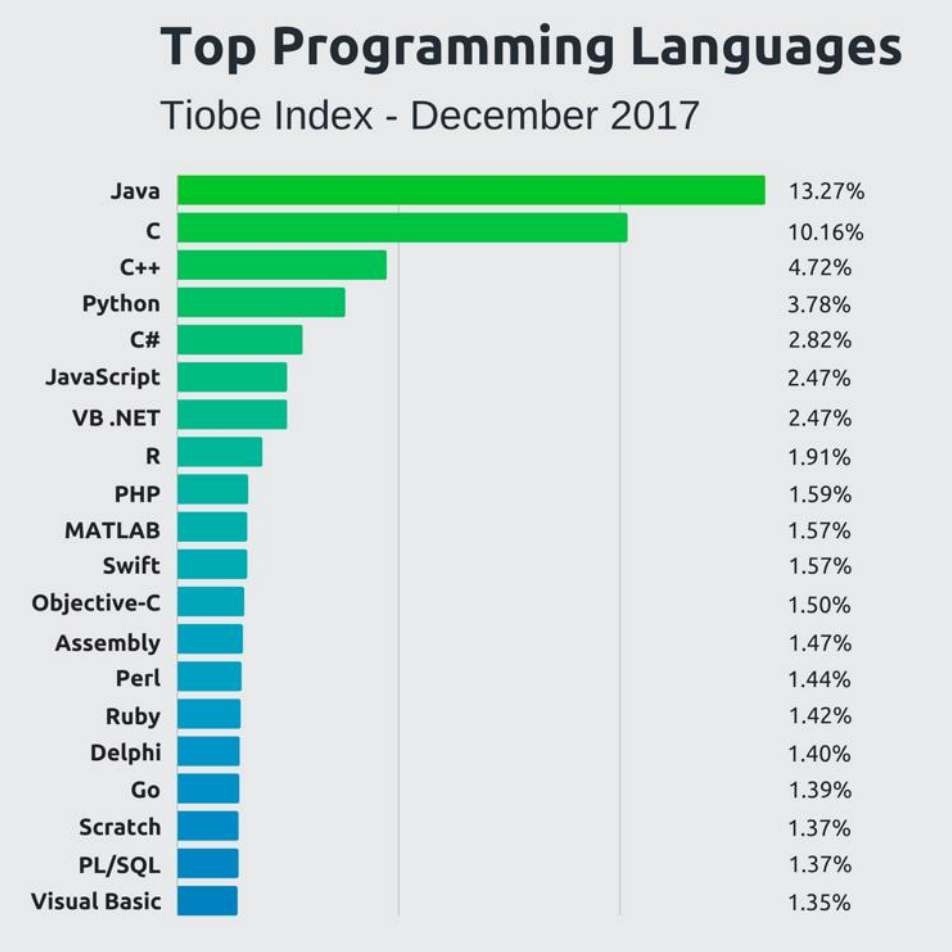
Qt 5.11 – other new features

- Improved QML compiler
- Windows:
  - New Accessibility backend
  - Improved high DPI support
- Many improvements in Qt Location
- Qt KNX: home automation protocol

- Tooling Evolution
- Framework Updates
- Research and Technology Preview

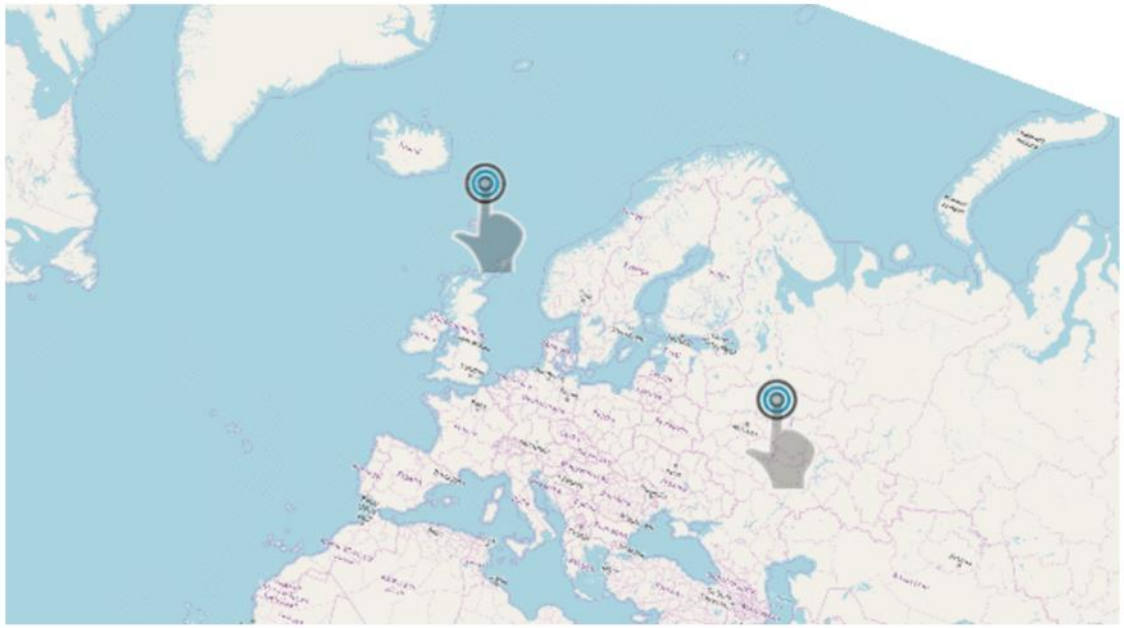
Qt for Python

- Python bindings for Qt
- Technology Preview in Qt 5.11
- Fully supported in Qt 5.12 LTS



Qt Quick – Gestures Done Right

- Major improvement in handling input gestures
- Multiple UI controls can track multiple fingers or pointer devices at the same time
- Technology preview in Qt 5.10
- Fully supported in Qt 5.12 LTS



Research: Qt for Microcontrollers

- Proof of concept on STM32 F7 (ARM Cortex M7)
- RTEMS real-time operating system
  - Provides full POSIX support (key importance for Qt)
- QML examples running with 8MB and 16 MB of RAM

Others

- Qt for WebAssembly
- Remote applications with WebGL streaming
- Qt Remote Objects
- Qt Quick Controls 2: TableView
- QHttpServer
- Metal Support

Questions?

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