Qt BY TROLLTECH

INTRODUCING Qt®

The Cross-Platform C++ Development Framework

OVERVIEW

1. About Trolltech
2. Introducing Qt
3. Why Qt?
4. Qt Editions and Licensing

Section One
ABOUT TROLLTECH®

About Trolltech
COMPANY INFORMATION

- **Public company, founded in 1994**
- **Offices:**
  - Oslo, Norway (HQ)
  - Palo Alto, California
  - Brisbane, Australia
  - Beijing, China
  - Munich, Berlin, Germany
- **More than 10 years of uninterrupted sales growth**

About Trolltech

PRODUCT LINES: Qt & Qtopia

- **Qt** sets the standard for high performance, cross-platform software development. Qt includes a modular C++ class library and tools for cross-platform development.

- **Qtopia** is unrivalled as the application platform for efficiently building virtually any type of Linux-based device.

About Trolltech

ADDITIONAL TROLLTECH PRODUCTS

- **Qt Solutions**
  - A growing collection of special-purpose Qt add-ons
- **Teambuilder**
  - A distributed C/C++ compilation system on Linux/Unix, delivering radical speed-up of large builds

Section Two
INTRODUCING Qt

Introducing Qt
THE CROSS-PLATFORM C++ DEVELOPMENT FRAMEWORK

- **Qt is a comprehensive, cross-platform C++ application development framework, which includes:**
  - An extensive C++ class library of over 400 classes
    - GUI, Database, Core, XML, Networking, Open GL, Multithreading, and more
  - Advanced cross-platform development tools for:
    - GUI layout and forms design
    - Internationalization
    - Documentation

Introducing Qt
THE Qt LIBRARIES

- **The Qt class library encompasses all the functions needed to build robust, high-end applications**
- **Separated into several modules, Qt's intuitive API includes:**
  - Core Classes
  - GUI Classes
  - SQL Database Classes
  - XML Classes
  - Networking Classes
  - OpenGL® 3D Graphics Classes
  - And more...

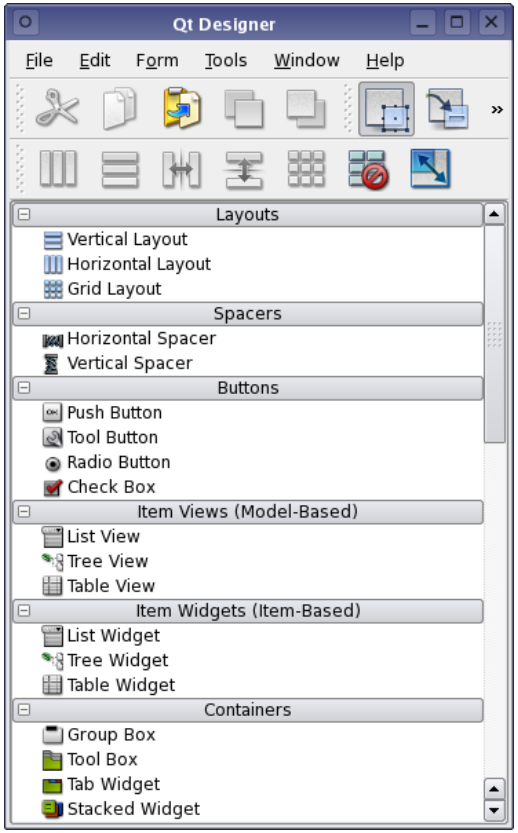
Introducing Qt

Qt DEVELOPMENT TOOLS

- **Qt Designer**
  - A powerful, drag-and-drop GUI layout and design tool
- **Qt Linguist**
  - A set of tools that enable quick, painless professional translation of Qt applications
- **Qt Assistant**
  - A customizable, redistributable help file and documentation reader
- **qmake**
  - A cross-platform makefile generator

Introducing Qt
Qt DESIGNER

- **Qt Designer is a powerful, drag-and-drop GUI layout and forms builder**
- **Features**
  - Supports forms and dialog creation with instant preview
  - Integrates with Qt layout system
  - Extensive collection of standard widgets
  - Support for custom widgets and dialogs
  - Seamless integration with Microsoft® Visual Studio .NET
- **Benefits**
  - Greatly speeds the interface design process
  - Enables native look and feel across all supported platforms
  - Developers work within the environment of their choice, leveraging existing skills



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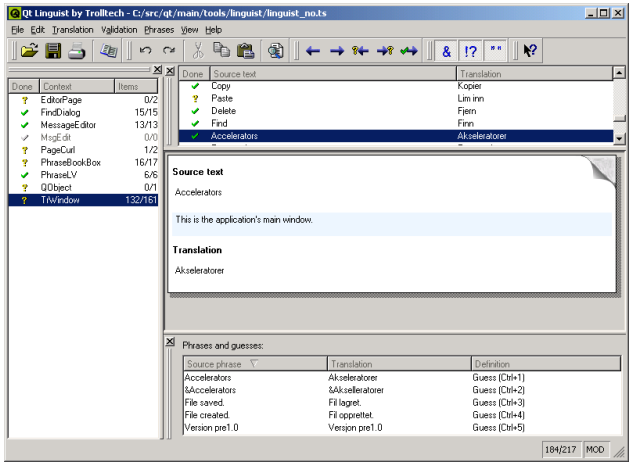
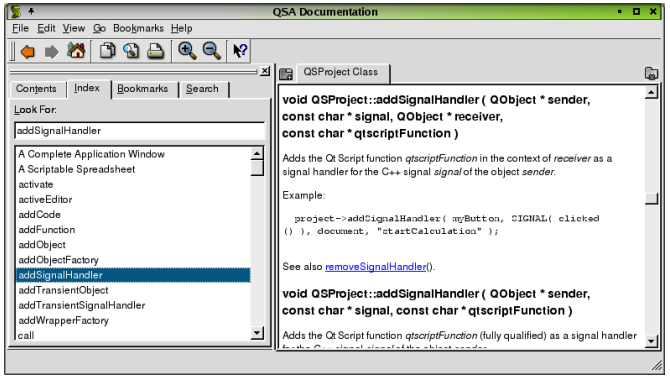
Introducing Qt
Qt LINGUIST

- **Qt Linguist is a set of tools that smooth the internationalization workflow**
- **Features**
  - Collects all UI text and presents it to a human translator in a simple window
  - Support for all languages, including CJK
  - Simultaneous support for multiple languages and writing systems from within a single application binary
- **Benefits**
  - Greatly speeds the translation/localization process
  - Works with Qt's language-aware layout engine for a clean, consistent interface no matter the language
  - Easily target international markets



Introducing Qt
Qt ASSISTANT

- **Qt Assistant is a fully customizable, redistributable help file/documentation browser**
- **Features**
  - Simple, web-browser-like navigation, bookmarking and linking of documentation files
  - Support for rich text HTML
  - Full text and keyword lookup
  - Can be customized and shipped with Qt applications
- **Benefits**
  - No longer have to build a help system from scratch
  - Leverage existing HTML skills
  - Deliver documentation in an easily searchable and navigable format to your end users



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Introducing Qt
qmake

- **A cross-platform application build tool**
- **Features**
  - Reads project source, generates dependency tree, generates platform specific project and makefiles
  - Integrates with Visual Studio and Xcode
- **Benefits**
  - Takes the pain out of cross-platform builds
  - Eliminates the need for manual makefile construction

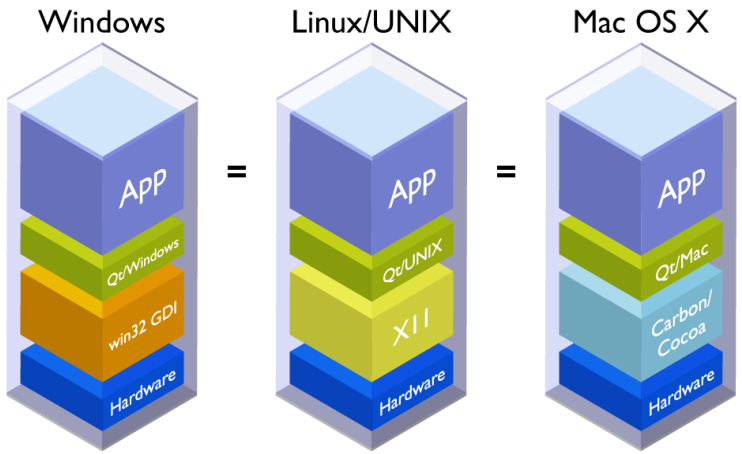
Introducing Qt
CROSS-PLATFORM DEVELOPMENT WITH Qt

- **Qt is the leading framework for cross-platform application development**
- **With Qt, development teams can create native applications for all major operating systems**
  - The Qt API and tools are identical across all supported operating systems
  - Targeting a new platform demands little more than a simple recompile of a single source code-base
- **Qt enables development teams to natively target:**
  - Windows® 98 through Vista™
  - Mac OS® X
  - Linux
  - Solaris, HP-UX, IRIX, AIX, BSD, Tru64 UNIX

Introducing Qt

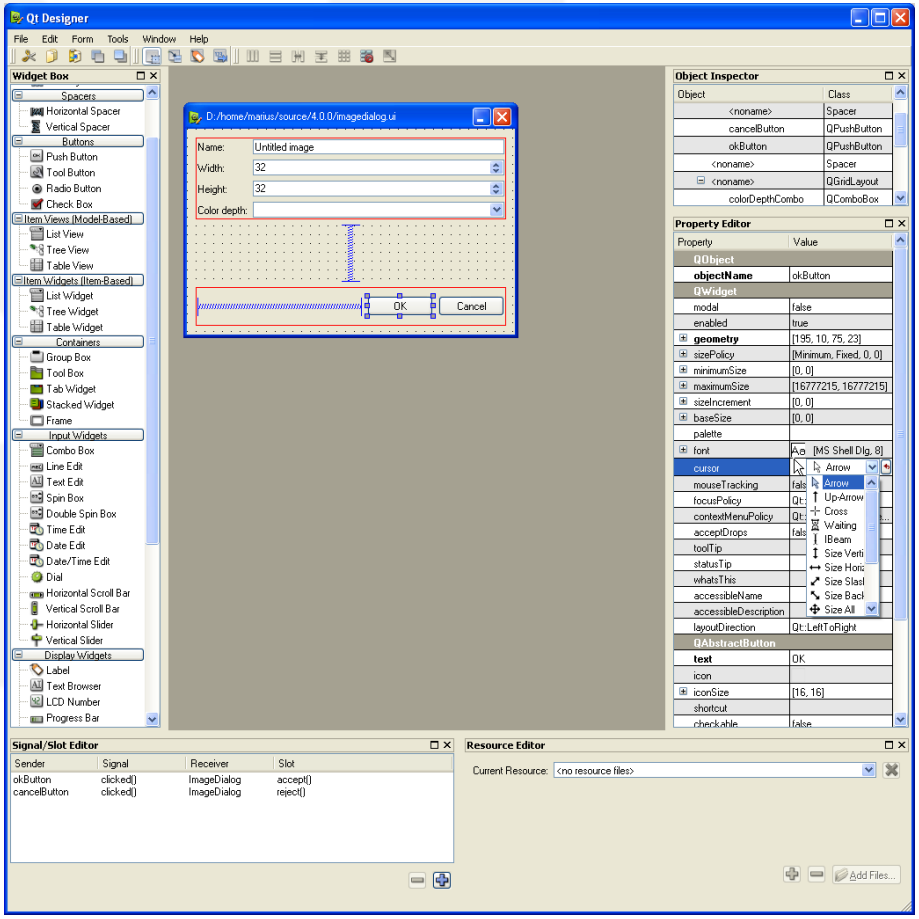
HOW Qt PROVIDES NATIVE LOOK AND FEEL

- **The Qt API is uniform across platforms**
- **Qt interfaces with platform specific APIs "under the hood".**
- **Benefits:**
  - Only one API to learn
  - High performance, memory-efficient, compiled applications
  - Native look and feel



Introducing Qt

NATIVE LOOK ON WINDOWS



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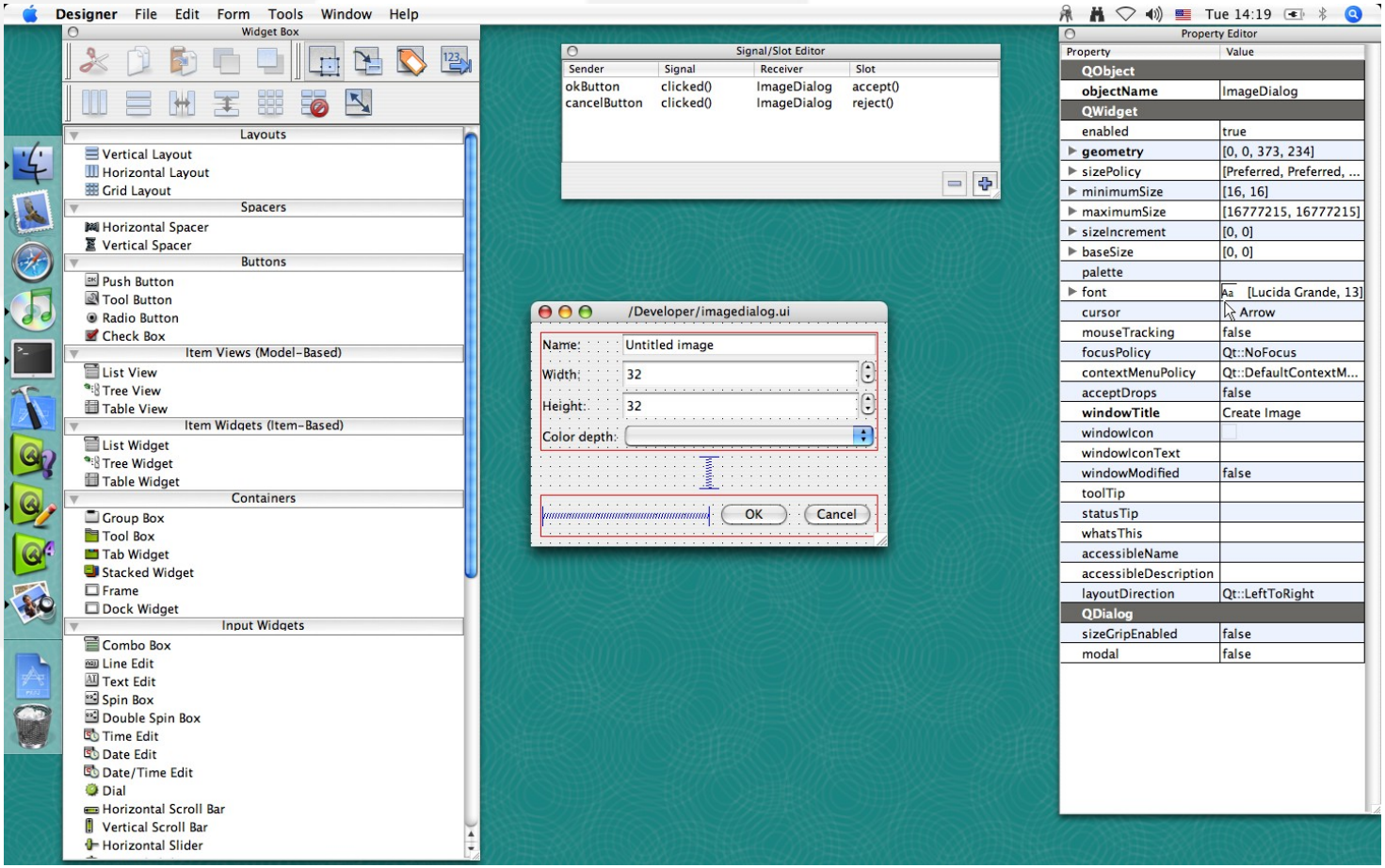
Introducing Qt
NATIVE LOOK ON MAC® OS X



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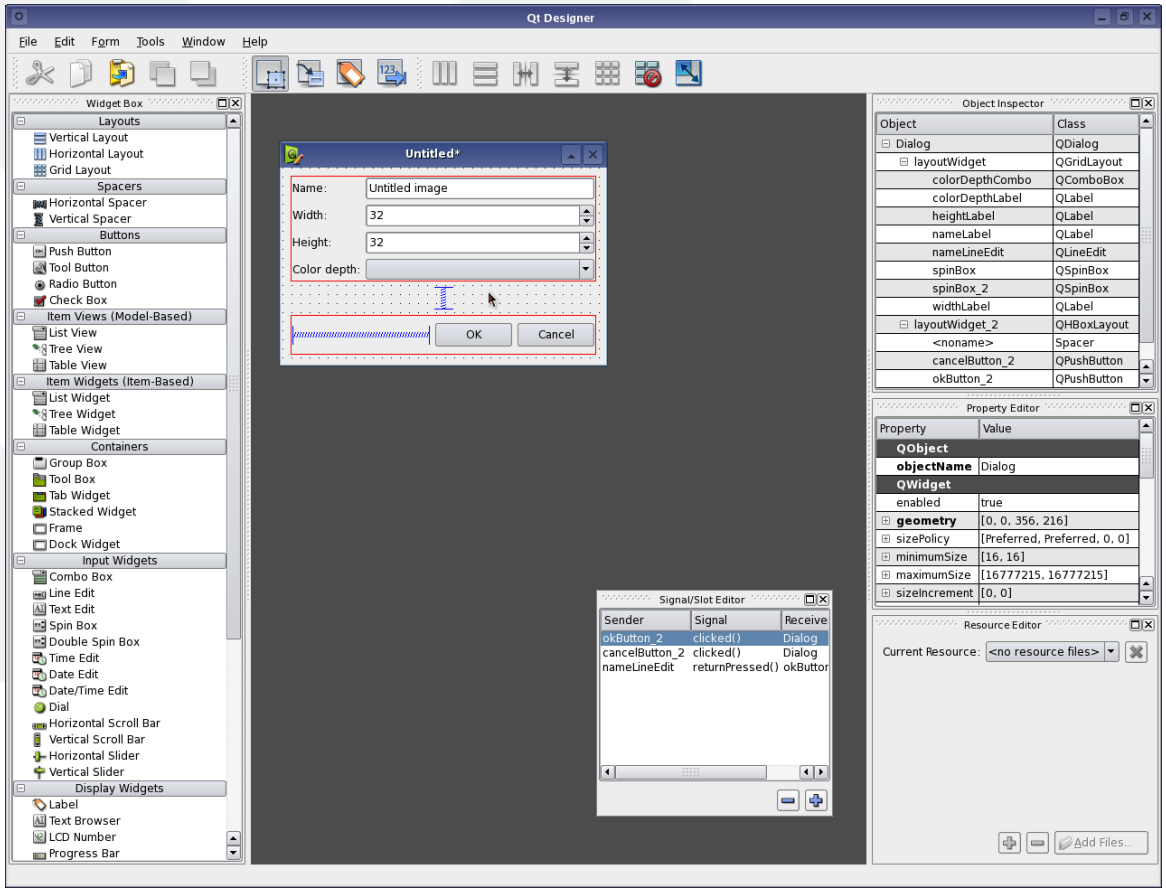
Introducing Qt
NATIVE LOOK ON LINUX



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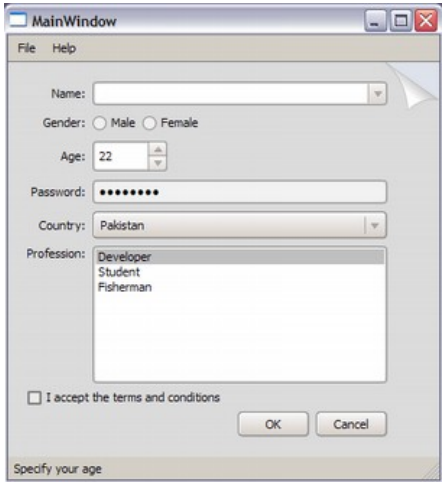
Introducing Qt
CODE ONCE, DEPLOY ANYWHERE

- **With Qt, development teams can:**
  - Target multiple platforms from a single source
    - Shorter development time – faster time to market
    - Reduced maintenance expense
    - Avoid OS-subgroups in development organization
  - Enjoy true platform independence
    - Target a new platform in weeks, not months
    - Rapidly respond to evolving market requirements
  - Remain insulated from platform changes
    - Qt is actively maintained and developed to support all new mainstream OS variants
    - Focus development efforts instead on value-adding innovation

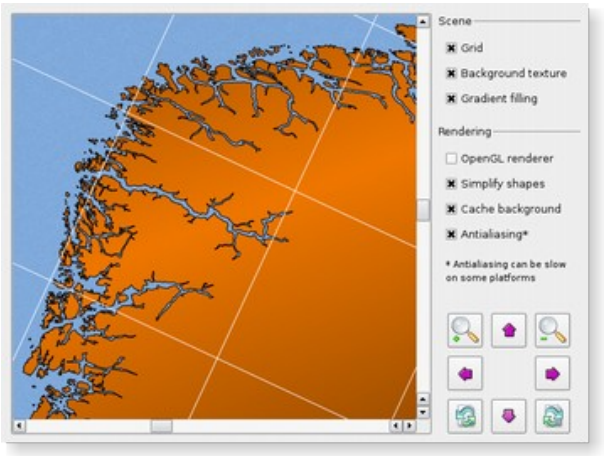
Introducing Qt

NEW IN 4.2: WIDGET STYLESHEETS

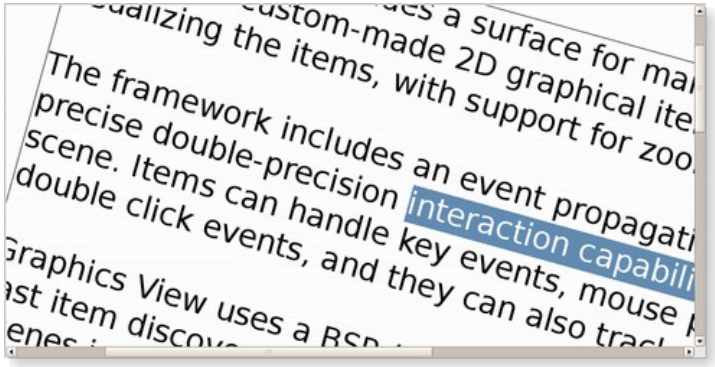
- **Rapid UI styling through simple CSS syntax**
  - Complex styles can be defined in a few lines of Cascading Style Sheet (CSS)-like code
  - Define styles in a fraction of the time and code traditionally needed
  - Style to the right created in 50 lines



Introducing Qt
NEW IN 4.2: GRAPHICS VIEW



- **Powerful 2D graphics canvas**
  - Handles millions of objects
  - Support for collision detection, otimized level-of-detail rendering, affine item transformations
  - Enhanced control for animations and drag and drop features



Section Three
WHY Qt?

Why Qt?
THE Qt COMPETITIVE ADVANTAGE

- **Qt delivers real, lasting competitive advantage**
  - Qt increases the productivity of developers by making C++ programming faster, easier and more intuitive
  - Qt development tools eliminate common bottlenecks in the development process:
    - GUI Design & Layout - Qt Designer
    - Translation/Localization - Qt Linguist
    - Documentation - Qt Assistant
    - Cross-platform build system - qmake

Why Qt?
THE Qt COMPETITIVE ADVANTAGE

- Qt delivers true platform freedom – targeting a new platform is measured in days or weeks, not months or years
- One source code base means less maintenance time and expense – multiplying results of development efforts
- Full access to complete source code on all platforms enables development teams to adapt and extend Qt to meet their unique needs, expediting the development process.

Optimized for Microsoft Visual Studio .net

Why Qt?
VISUAL STUDIO .NET INTEGRATION

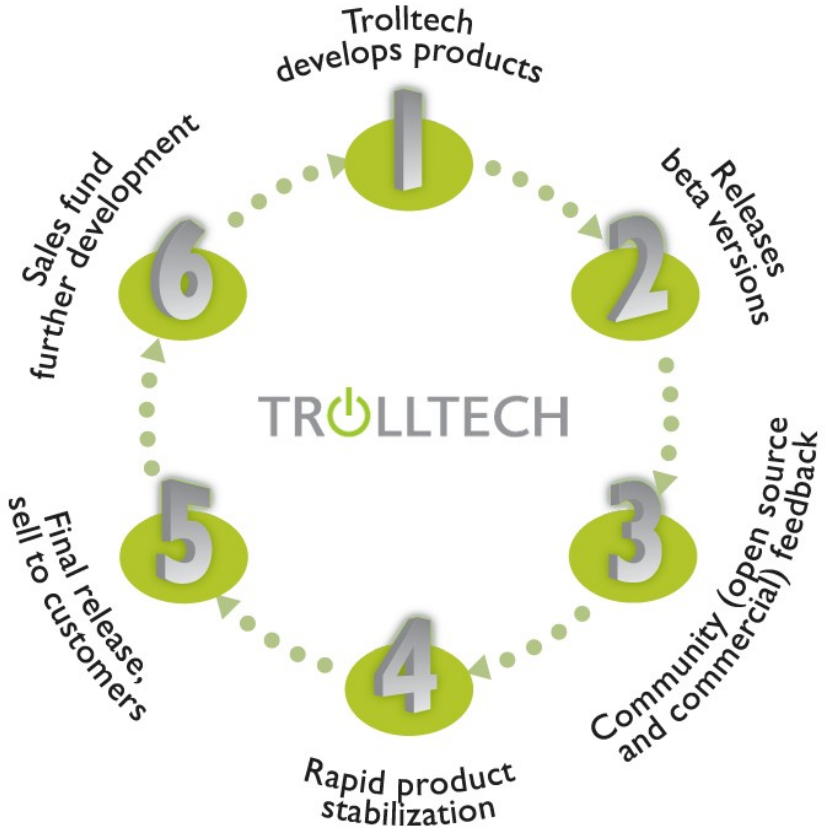
- **Qt 4 is seamlessly integrated with Microsoft® Visual Studio .NET**
  - Qt now enables Windows developers to leverage their skills to target multiple operating systems from a familliar environment
  - Qt's integration with Visual Studio includes:
    - Code completion and syntax highlighting, boosting developer productivity using the intuitive Qt API
    - Powerful GUI layout system and forms design using integrated Qt Designer
    - Qt documentation integrated with Visual Studio online help
    - Templates for the most common Qt application types

Why Qt?
DUAL LICENSING

- **Qt offers all the benefits of Open Source...**
  - Extensive QA from a large, active developer community
  - Complete code transparency – including on Windows
  - See "under the hood" – customize Qt to fit the unique needs of development teams
- **...in a commercially-supported framework.**
  - Customer-acclaimed professional support
  - Dedicated Qt development team
  - Growing ecosystem of 3rd party tools, components & services
  - 4500 companies actively developing commercial applications with Qt

Why Qt?

DUAL LICENSING: THE VIRTUOUS CYCLE



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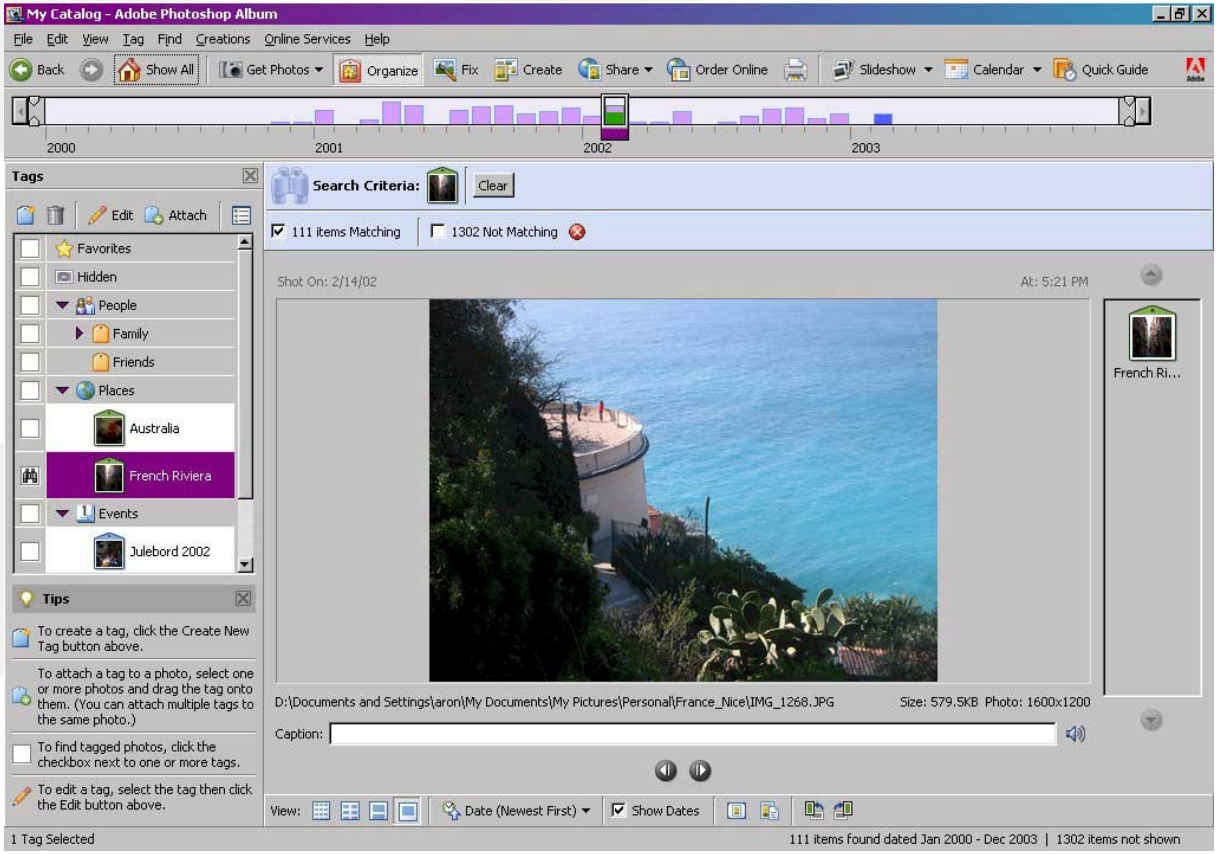
WHY Qt?
THE Qt ECOSYSTEM

- **Partners**
  - Add-on providers
  - Services providers
  - Local resellers
- **Large User Community**
  - Web forums, mailing lists
  - Thousands of Qt developers worldwide – commercial and open source
  - Expanding and evolving Qt talent pool

WHY Qt?

ADOBE PHOTOSHOP® ELEMENTS



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Why Qt?

GOOGLE EARTH

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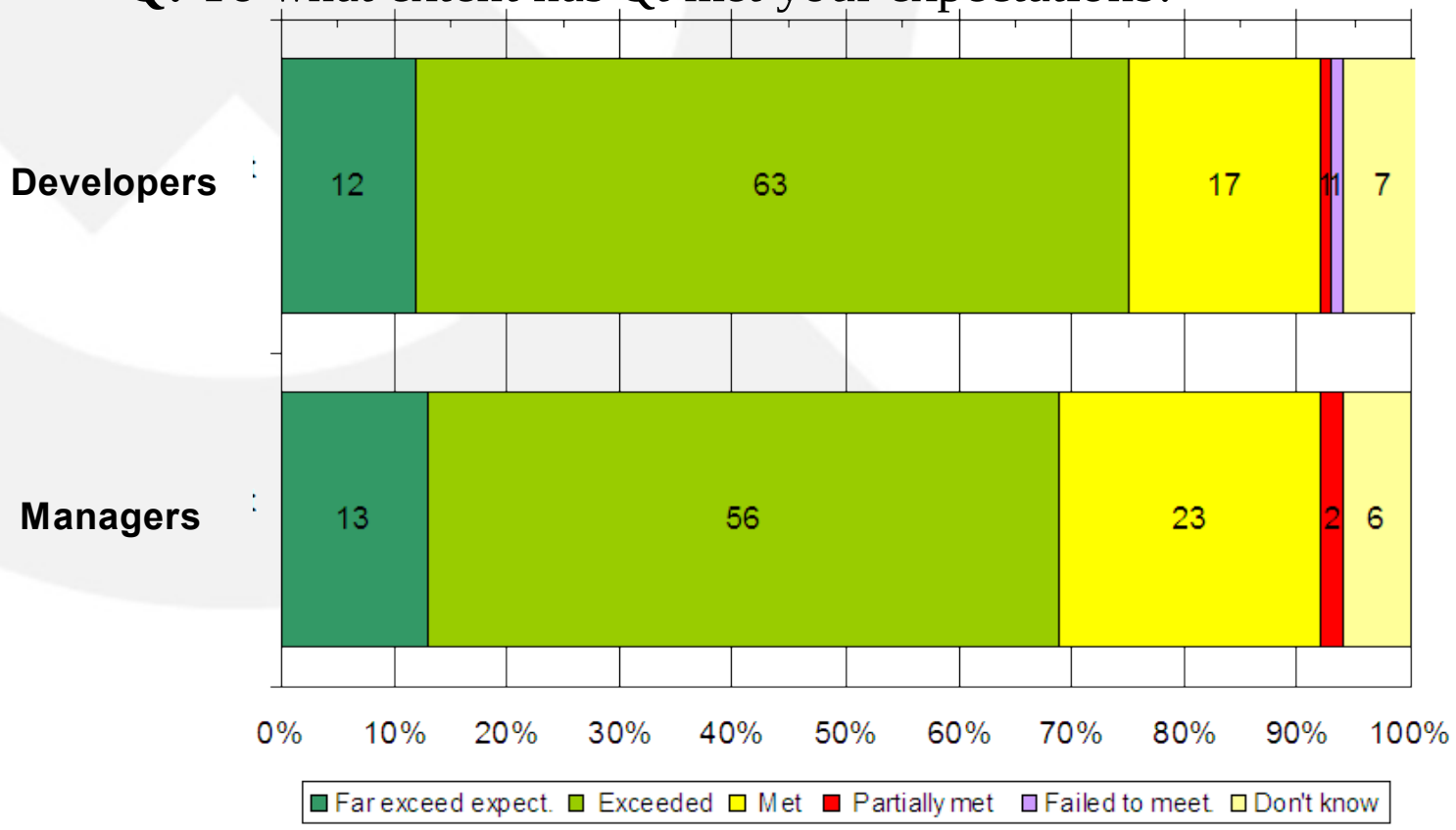
WHY Qt?
WHAT OUR CUSTOMERS THINK*

Q: To what extent has Qt met your expectations?



* Source: 2006 Trolltech Customer Survey

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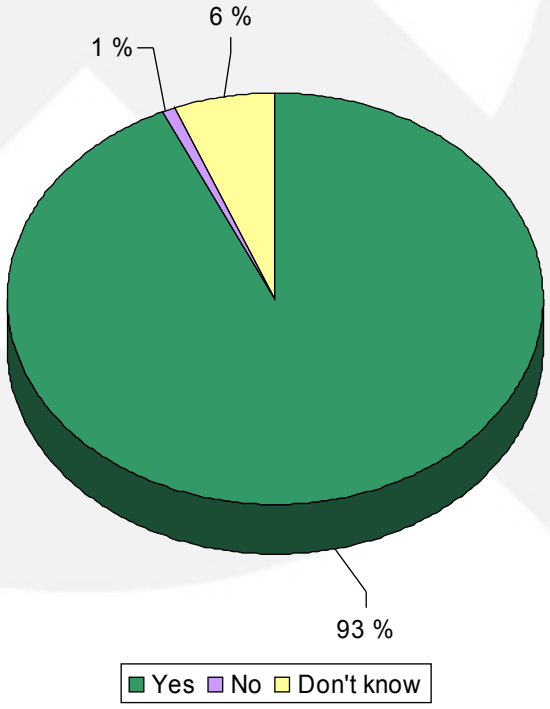
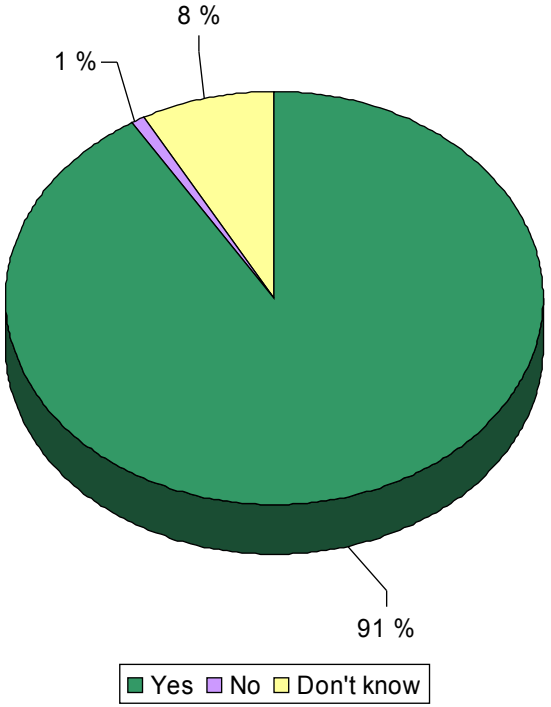
WHY Qt?
WHAT OUR CUSTOMERS THINK*

Q: Would you recommend Qt to others?



Developers

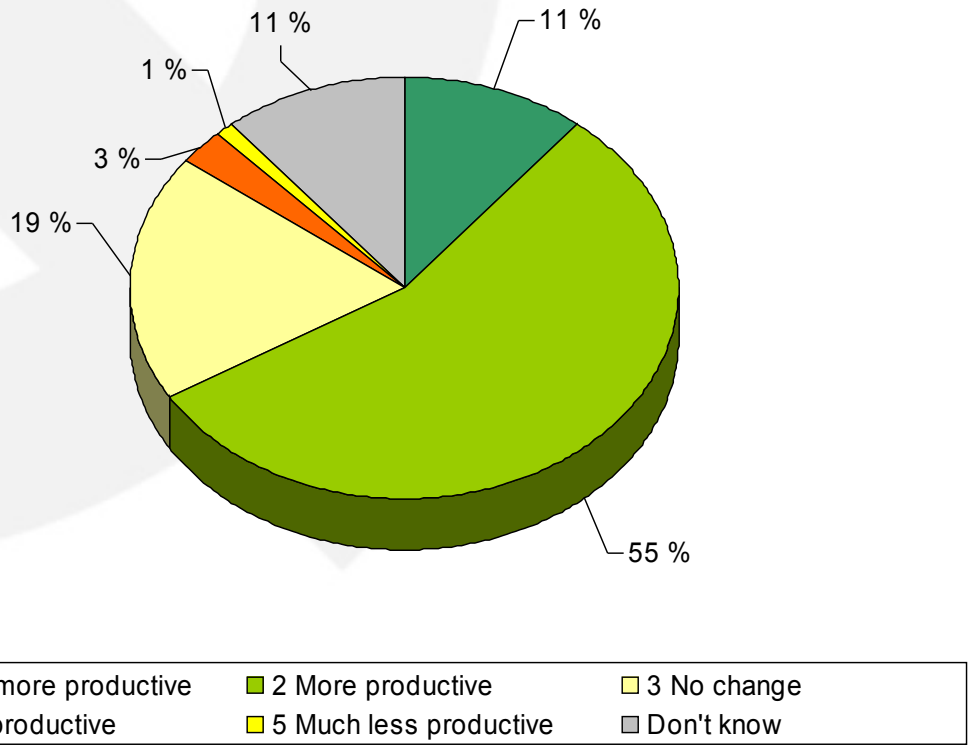


Managers

* Source: 2006 Qt Customer Survey

WHY Qt?
WHAT OUR CUSTOMERS THINK*

Q: Have your developers become more productive as a result of using Qt?



- Source: 383 Managers, 2006 Qt Customer Survey

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Section Four
EDITIONS & LICENSING

Editions & Licensing

Qt EDITIONS

- **Qt is available in three editions, each optimized for a unique purpose:**
  - Qt Console Edition
  - Qt Desktop Light Edition
  - Qt Desktop Edition

Editions & Licensing

Qt CONSOLE EDITION

- **An edition of Qt optimized for the development of GUI-independent back-end and server applications**
- **The Qt Console Edition includes:**
  - Qt Core classes
  - Database module
  - Network module
  - XML module

Editions & Licensing

Qt DESKTOP LIGHT EDITION

- **An edition of Qt that provides all the features and capabilities required for cross-platform GUI application development**
- **The Qt Desktop Light Edition includes:**
  - Qt Core classes
  - Qt GUI module
  - Qt Designer
  - Qt3Support module
  - Microsoft® Visual Studio integration (Qt/Windows)

Editions & Licensing

Qt DESKTOP EDITION

- **A comprehensive edition of Qt that provides full access to the entire range of Qt features**
- **The Qt Desktop Edition includes:**
  - Qt Core module
  - Qt GUI module
  - Qt Designer
  - OpenGL® 3D Graphics module
  - Database module
  - Network module
  - XML module
  - Qt3Support module
  - Microsoft® Visual Studio .NET integration

THANK YOU!

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