



Developer Days 2012

The project that brings you Qt

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Software Architect, Intel OTC
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Santa Clara, Dec 6-7, 2012



ANDROID FOR INTEL ARCHITECTURE INTEL LINUX WIRELESS
TIZEN OPENSTACK POWERTOP YOCTO CONNMAN XEN GUPNP KVM POKY LINUX KE
INTEL LINUX GRAPHICS SYNCEVOLUTION SIMPLE FIRMWARE INTERFACE (SFI) ENTERPRISE SECURITY IN

Executive summary

- Qt Project is how Qt gets developed
- Open Source and commercial licenses based on it
- Participation is open to all



Who am I?

- **Open Source developer for 15 years**
- **Software Architect at Intel's Open Source Technology Center (OTC) since last year**
 - Living in Portland, Oregon
- **Maintainer of two modules in the Qt Project**
 - QtCore and QtDBus
- **MBA and double degree in Engineering**
- **Previously, led the “Qt Open Governance” project**
 - Ended with the creation of the Qt Project



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The guy to blame





The Qt Project celebrated
1 year on October 22

<http://qt-project.org>

Some numbers

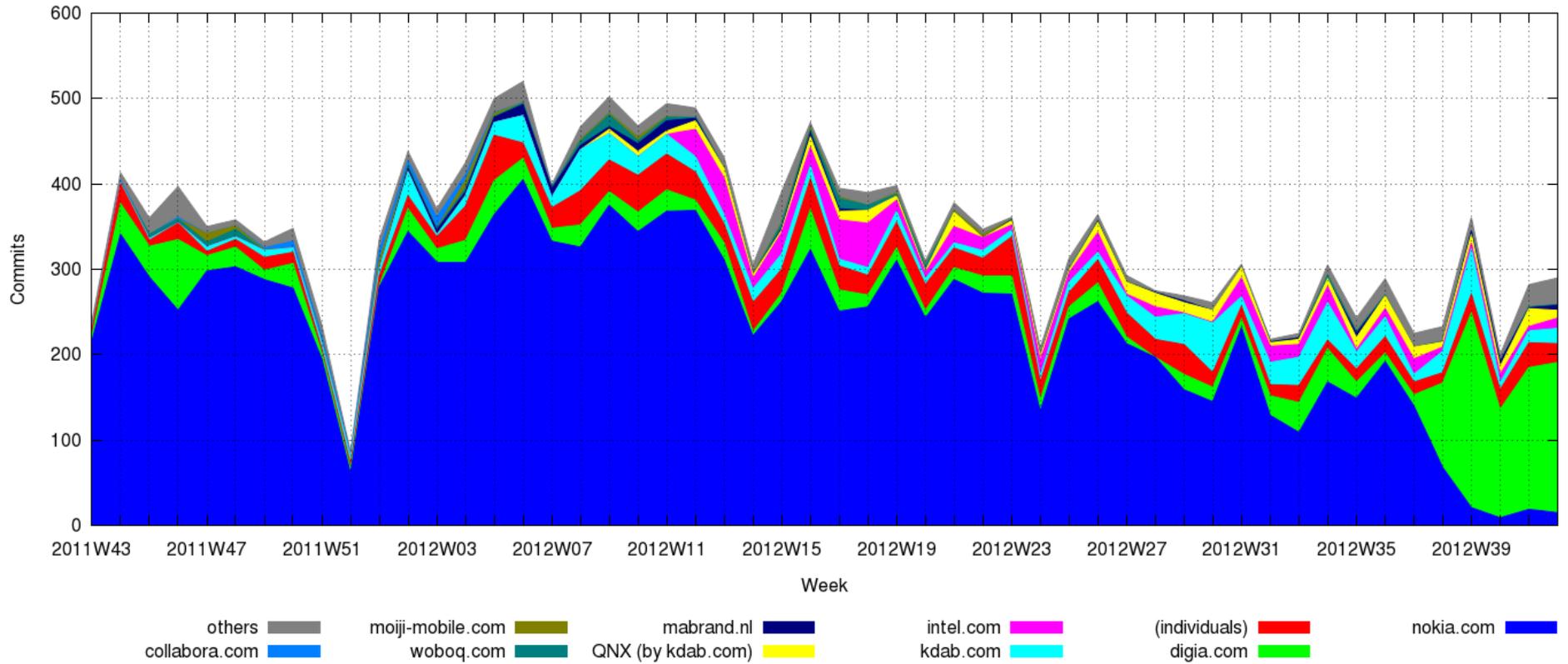
In the one year completed on Oct. 22:

- 25,224 commits reviewed & accepted
 - ~38000 submitted, 41000 approving comments
- From 451 different people (and two bots)
- Employed by 81 distinct companies or entities

- Top contributors: Nokia*, Digia*, KDAB*, Intel, RIM*

The logo for Digia, featuring the word "digia" in a lowercase, red, sans-serif font.The logo for KDAB, featuring a blue icon of a stylized 'K' followed by the letters "KDAB" in a blue, sans-serif font.The logo for RIM, featuring the letters "RIM" in a bold, black, sans-serif font with a stylized white graphic element resembling a stylized 'R' or a signal tower.The logo for Intel, featuring the word "intel" in a blue, lowercase, sans-serif font, enclosed within a blue oval shape.

Contribution graph



We want your participation too



Reasons to participate

- Learn what's going on
- Influence decisions
- Gain merit in the project
- Add features & fix bugs you need
 - You / your company keeps the copyright
- Help Qt go really everywhere



Daily snapshots
Contribution via
copyright assignment



Before

Open repository
Contribution model



2009

Qt Open Governance
discussions



2010

Qt Project launches



2011

...



Before the Qt Project

Contribution Model

- Clumsy
- Different for Qt engineers
- Not the model we wanted for ourselves

Open Governance project

- Investigated other projects
 - Linux kernel, WebKit, KDE
- Talked to a lot of stakeholders
- Discussed in the open
- Modelled ideal infra

Linux



Principles of an Open Source project

Fair

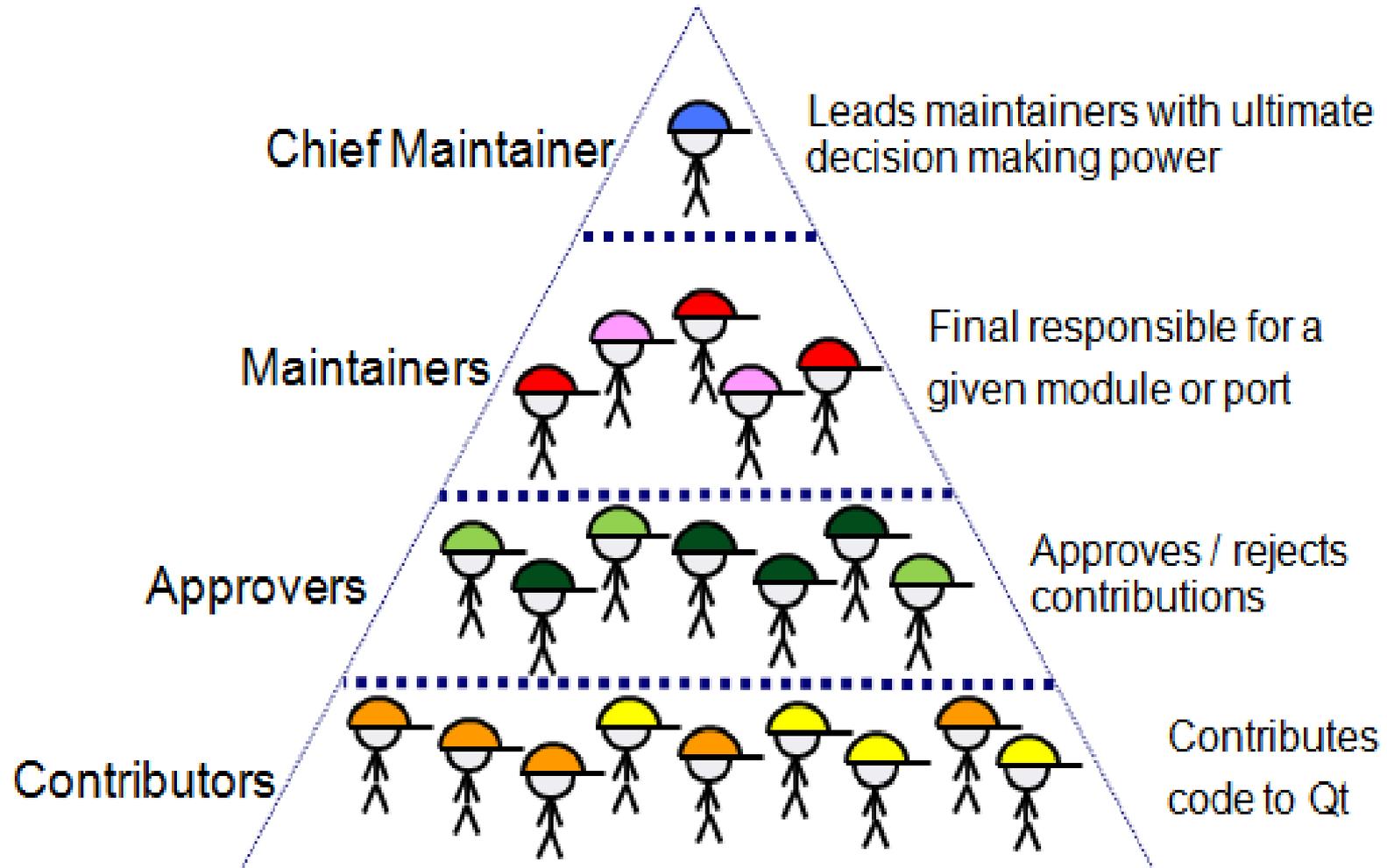
Transparent

Inclusive

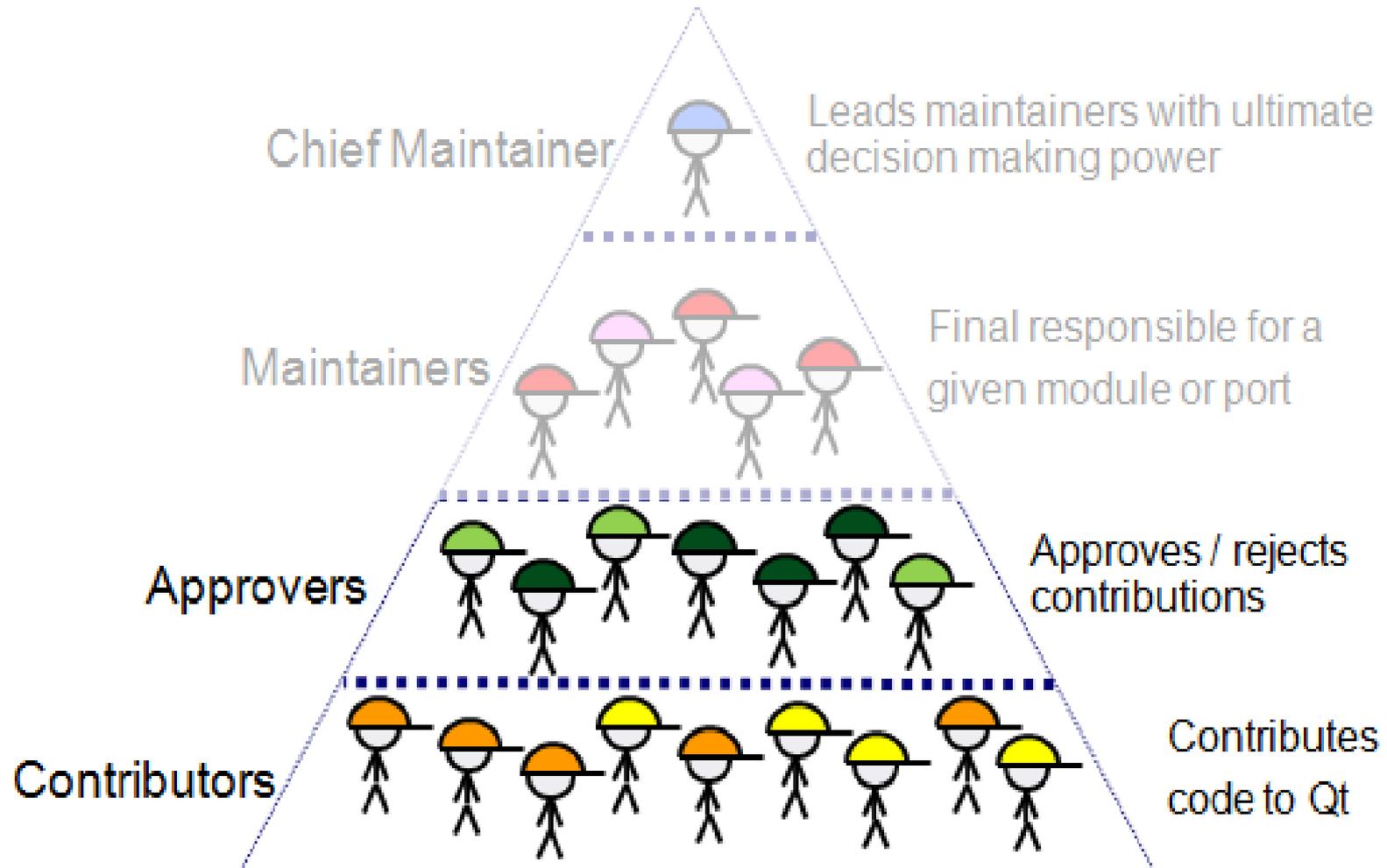
Meritocratic



Meritocracy: Project roles



Meritocracy: Project roles



Meritocracy: Maintainers

They have a duty

- Must ensure all contributions are reviewed
- Must ensure the quality is good
- Must ensure the rules are followed

They get some rights

- Right to set direction
- Right to override approvals and denials



Fairness: same rules for everyone

Technical fit

- Does it build?
- Is it documented?
- Is the API reviewed?
- Does it follow the coding style?
- Does it work as intended?
 - (at least on reference platforms?)
- ...

Spirit fit

- Is it the right implementation?
- Is it the right time?
- Does it take Qt in the right direction?
- ...

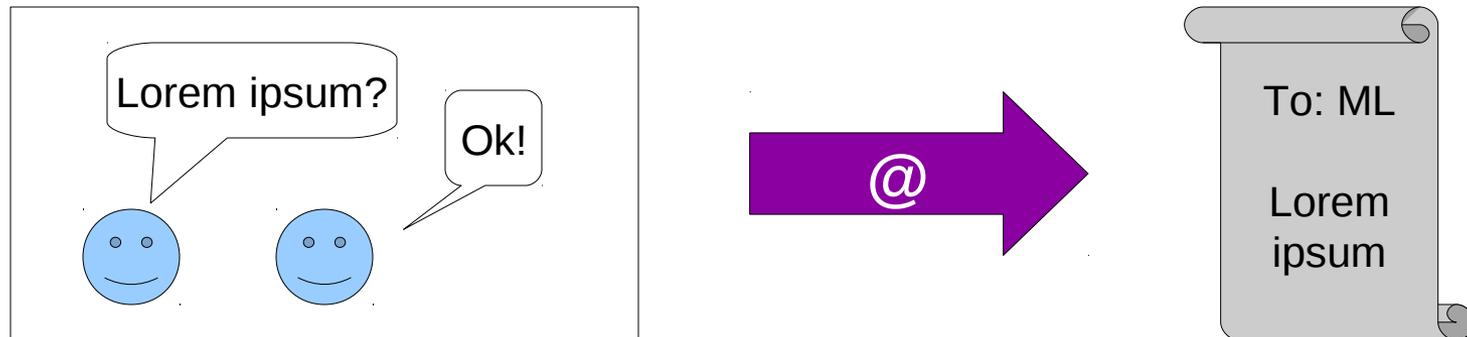


Transparency: decisions in the mailing list

Face to face discussions are permitted

All decisions must be posted to the mailing list

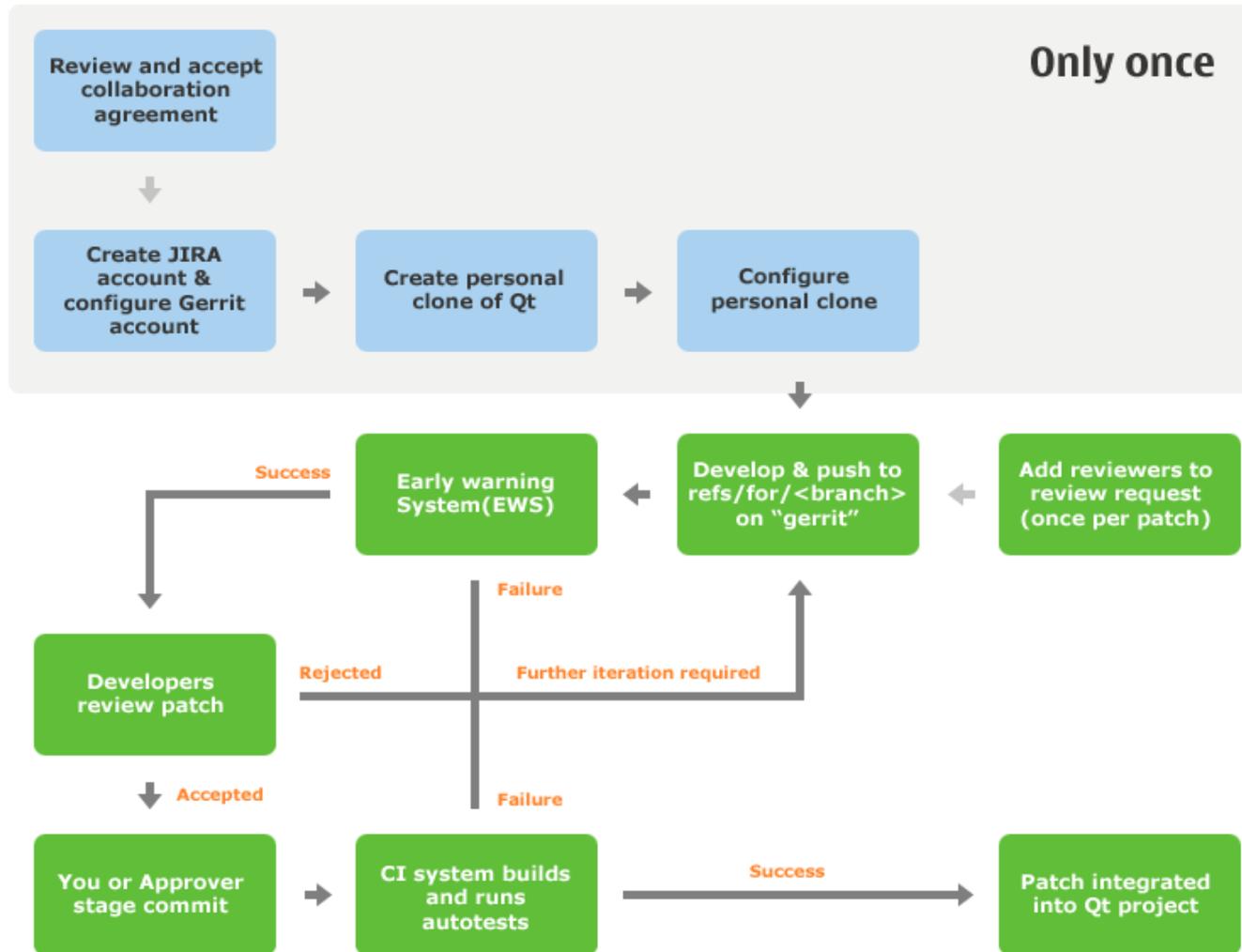
- Others can review / offer new insights



Inclusive: contributor summits



Very simple to contribute



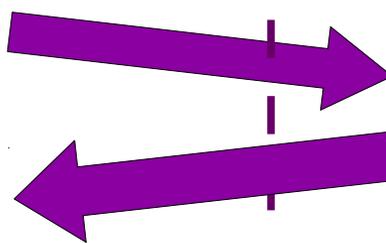
No, really, very simple to contribute



1. Create contribution



3. Update & improve

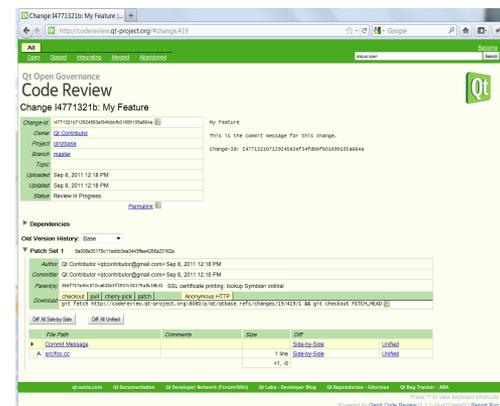
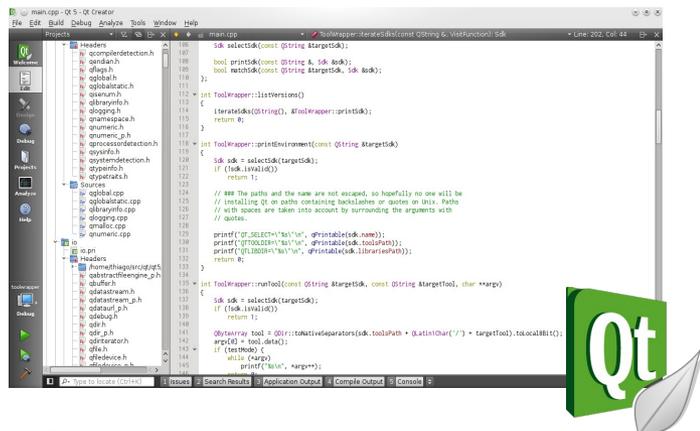


Gerrit

2. Review in Gerrit



4. CI tests & commits

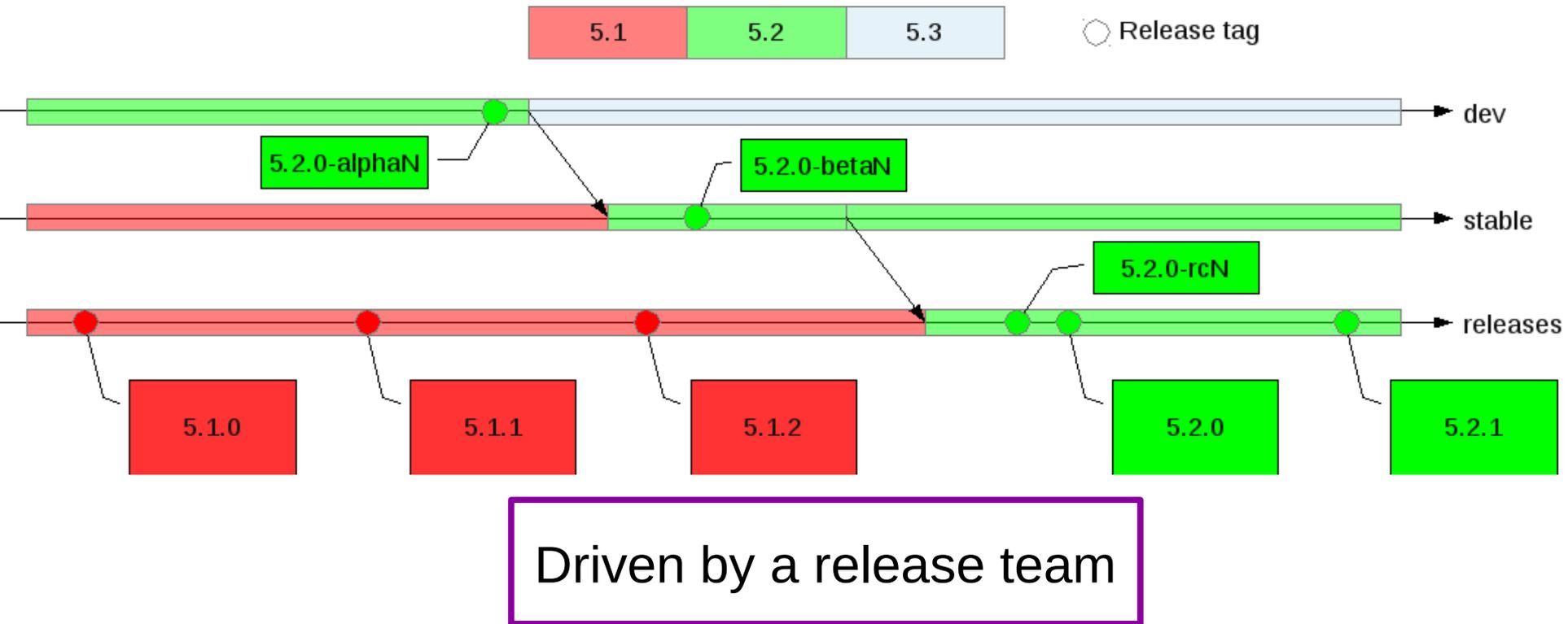


Live contribution demo!



Release process

Hybrid time-based & quality based



Other activities

Marketing

- Going to events together, as Qt Project
- Social media

Infrastructure

- Running the bug tracker, continuous integration, mailing lists, ...



A success story?

- Survived Nokia changes
- Developed Qt 5 with contributions from many
- Released several Qt versions
 - 4.8.1, 4.8.2, 4.8.3, 4.8.4, 5.0 alpha 1, 5.0 beta 1, 5.0 beta 2
- Good cooperation between partners
- Developer Days 2012



Developer Days 2012



Success case: maintainers

Four base libraries, four different companies

QtCore



QtGui



QtNetwork



QtWidgets



Questions?

Thiago Macieira

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Links:

Website: <http://qt-project.org>

Mailing lists: <http://lists.qt-project.org>

IRC: #qt and #qt-labs on Freenode



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**INTEL OPEN SOURCE
TECHNOLOGY CENTER**