



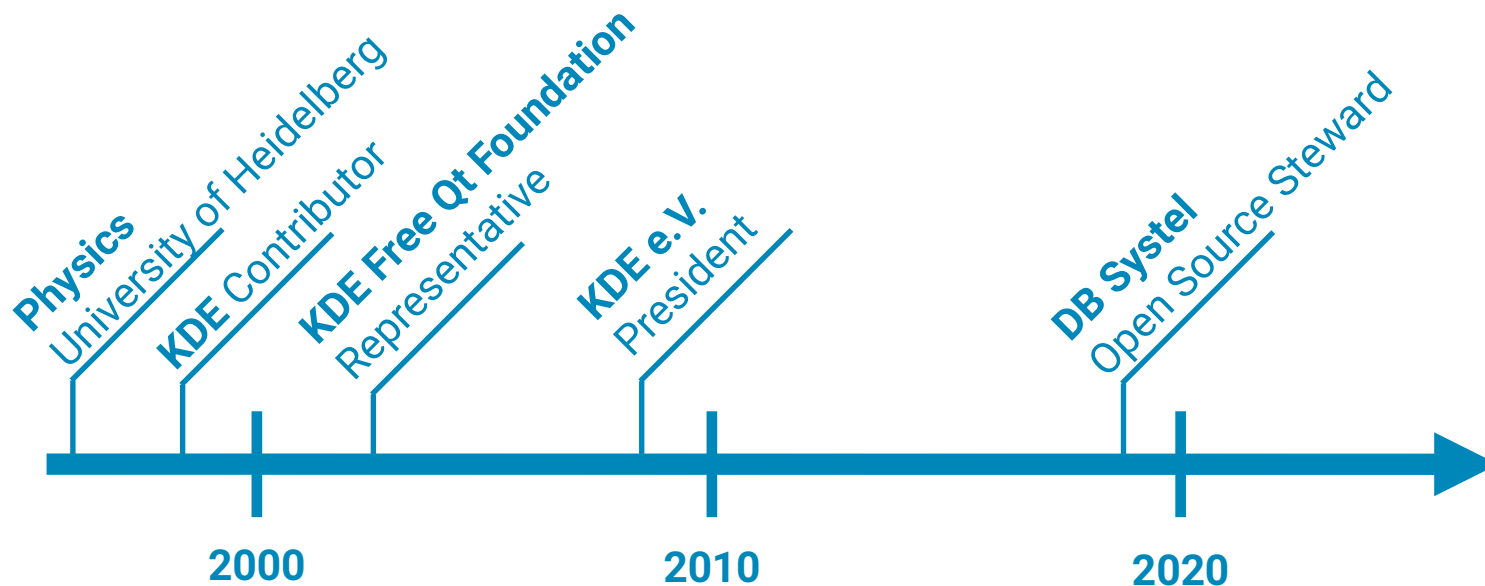
Protecting against proprietary re-licensing with a community contract

How the KDE Free Qt Foundation ensures software freedom for twenty-three years and counting

FOSDEM 2021

Cornelius Schumacher <schumacher@kde.org>

About me



1996

Wintel has 95% of PC market

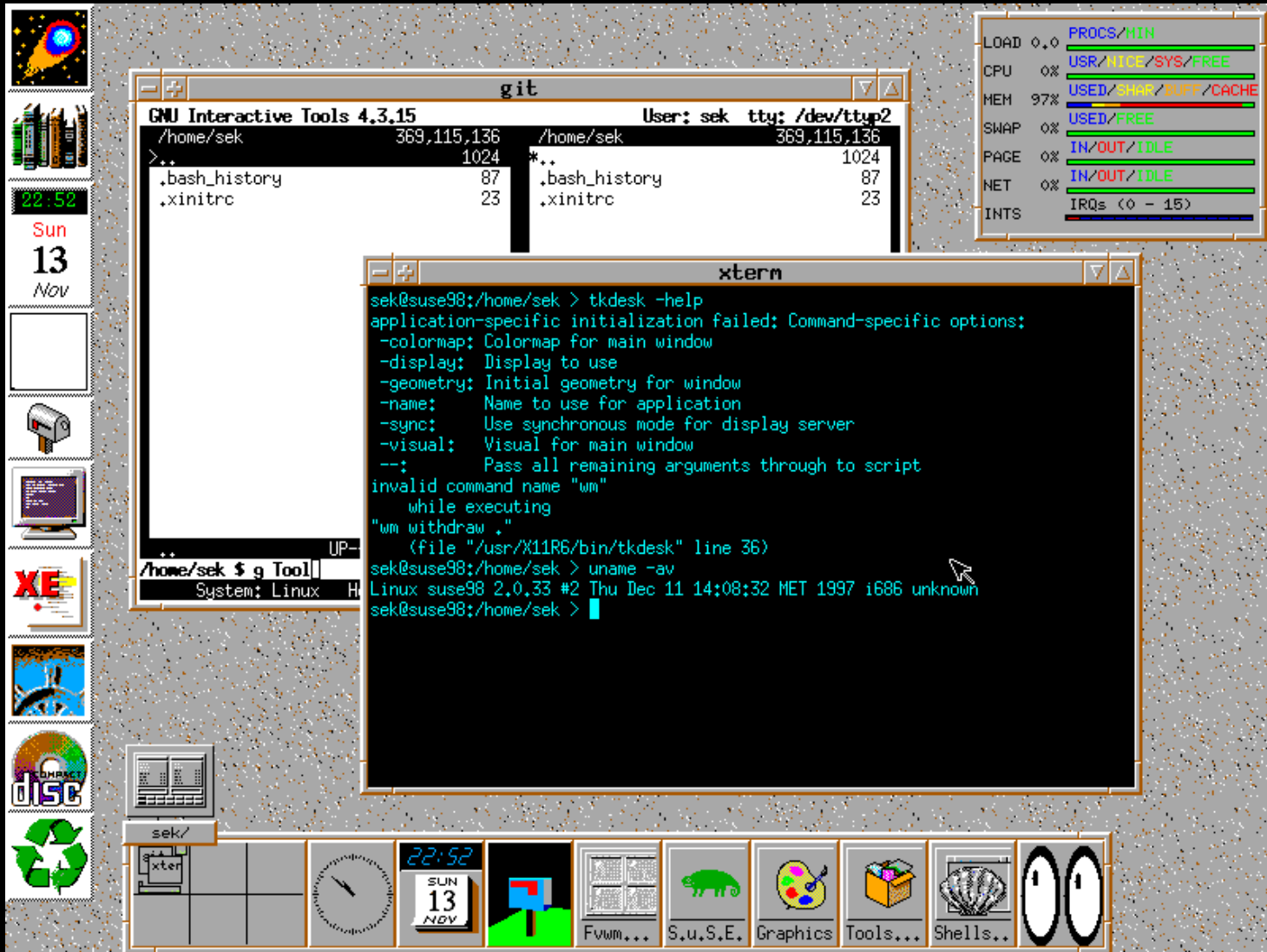
Windows 95 and Windows NT are current Microsoft systems

UNIX: Common Desktop Environment (CDE)

Linux Kernel 2.0 is released

Linux distributions: Slackware, Debian, RedHat, SUSE, ...

Linux GUI: FVWM



Left Panel (Icons):

- Star icon
- Bookshelf icon
- 22:52
- Sun 13 Nov
- Empty square icon
- Mail icon
- Monitor icon
- XE icon
- CD-ROM icon
- Compact disc icon
- Recycling icon

Top Right Panel (System Monitor):

	PROCS/MIN
LOAD	0.0
CPU	0%
MEM	97%
SWAP	0%
PAGE	0%
NET	0%
INTS	IRQs <0 - 15>

git Window:

GNU Interactive Tools 4.3.15 User: sek tty: /dev/tty2

/home/sek	369,115,136	/home/sek	369,115,136
>..	1024	*..	1024
.bash_history	87	.bash_history	87
.xinitrc	23	.xinitrc	23

xterm Window:

```
sek@suse98:/home/sek > tkdesk -help
application-specific initialization failed: Command-specific options:
-colormap: Colormap for main window
-display: Display to use
-geometry: Initial geometry for window
-name: Name to use for application
-sync: Use synchronous mode for display server
-visual: Visual for main window
--: Pass all remaining arguments through to script
invalid command name "wm"
while executing
"wm withdraw ."
(file "/usr/X11R6/bin/tkdesk" line 36)
sek@suse98:/home/sek > uname -av
Linux suse98 2.0.33 #2 Thu Dec 11 14:08:32 MET 1997 i686 unknown
sek@suse98:/home/sek >
```

Bottom Panel (Taskbar):

- sek/
- git
- xterm
- System: Linux H
- 22:52
- SUN 13 NOV
- Mail icon
- Fvwm...
- S.u.S.E.
- Graphics
- Tools...
- Shells..
- Two eyes icon

Matthias Ettrich starts KDE with a Usenet post on
14 Oct 1996

**GUI for end-users.
Programmers wanted!**

Two firm decisions and a note

*„The stuff will be distributed under the terms of the
GPL.“*

*„Everybody I'm talking to in the net would LOVE a
somewhat cleaner desktop. **Qt** is the chance to
realize this.“*

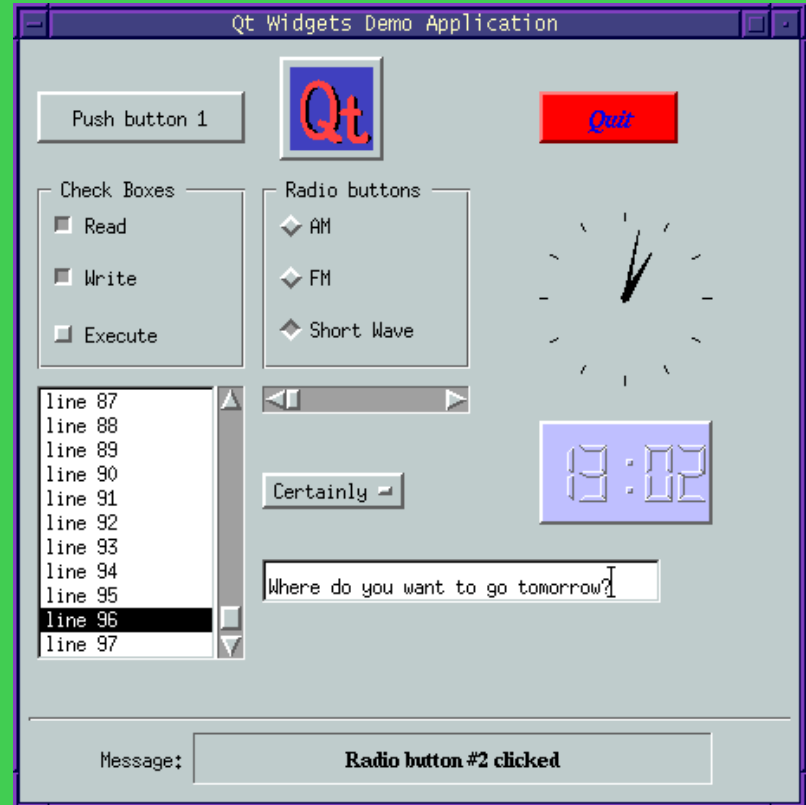
*„BTW3: I don't have any connections to Troll Tech, I just like their product
(look at the sources: really high quality!) and their kind of marketing:
free sourcecode for free software.“*

Qt conceived
by Haavard Nord and Eirik Chambe-Eng
on a park bench in Trondheim, Norway,
in 1991.

Cross-platform GUI toolkit in C++

1995

Troll Tech releases Qt 0.9



Business Model: Dual-Licensing

Qt Professional Edition (proprietary license)

commercial version for all platforms and projects

Qt Free Edition (Qt Free Edition License)

free for Free Software projects on X11 (including GNU/Linux)

How free is free?

Controversy around Qt Free Edition License

What happens if Troll Tech stops making Qt available for Free Software development?

You have to understand that in the late nineties it was not uncommon that companies were bought to shut down products. There were concerns that Microsoft could do that to Qt.

-- Kalle Dalheimer



Ein offenes Betriebssystem
kann schon mal mutieren. Bei
Windows 2000 hingegen gibt
es alle Services und Dienste
aus einer Hand. Das spart Zeit
und somit wirklich Geld. Mehr
Infos unter [www.microsoft.com/
germany/windows2000](http://www.microsoft.com/germany/windows2000)

Microsoft®

ein offenes betriebssystem hat nicht nur vorteile|

1997

28. Aug - 1. Sep

KDE One Developer Meeting in Arnsberg



The meeting takes place two weeks after GNOME was founded

Eirik and Arnt from Troll Tech travel to Germany and join

Troll Tech is 6 employees, KDE is 200 developers

The strategy works for both sides

Discussions about how to end the debate about the freedom of Qt

Troll Tech offers a legally binding agreement between the community and the company to guarantee that Qt stays free forever

Statement of Intent

This Statement of Intent is between Troll Tech AS and the K Desktop Environment e.V.i.G (herein KDE).

Eirik Eng and Haavard Nord of Troll Tech will have a Foundation set up that will have an equal number of members from Troll Tech and KDE. One of the members from KDE will have a double vote.

The Foundation will control the rights of each new release of the Qt Free Edition.

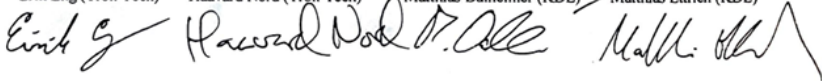
The purpose of the Foundation is to keep the Qt Free Edition available, up-to-date and usable for development of free software on the X Window System.

The mandate of the Foundation is as follows:

In the event that the Qt Free Edition is discontinued, the Foundation shall release the Qt Free Edition under the BSD License.

The parties intend to complete the formation of the Foundation by end of April 1998.

Erik Eng (Troll Tech) Haavard Nord (Troll Tech) Matthias Dalheimer (KDE) Matthias Ettrich (KDE)

The block contains four handwritten signatures in black ink, each corresponding to the name above it. From left to right: Erik Eng, Haavard Nord, Matthias Dalheimer, and Matthias Ettrich. The signatures are fluid and cursive.

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Troll Tech's lawyer:

“So, you are saying that you want to pay me to create a bulletproof setup so that you can never stop giving something away for free?”

Eirik's answer:

„Yes!“

KDE e.V.

License
Agreement

Troll Tech

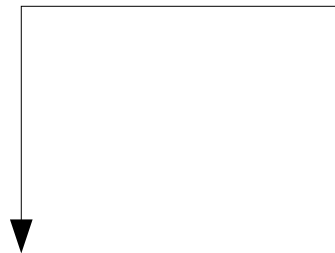
Representatives



KDE Free Qt Foundation



Representatives



- KDE needs a legal entity to be a contract partner
 - KDE e.V. is founded on 27. Nov 1997
- KDE Free Qt Foundation
 - Entity to hold special license agreement on Qt
 - Separate entity to protect against bankruptcy of Troll Tech
- Board of the foundation
 - Two KDE and two Troll Tech representatives
 - KDE decides in case of ties
- License agreement between KDE Free Qt Foundation and Troll Tech:
 - If no major updates of the Qt Free Edition are released for 12 months, the foundation can release it under the BSD license

Consequences

Protects Qt against bankruptcy, takeover, and change of plans

BSD license allows:

- The use of Qt for any project, free software as well as proprietary
- To build a new company with a similar dual-license business model

1998

22. June

First agreement between Troll Tech and the KDE Free Qt Foundation is signed.

„We believe the founding of the KDE Free Qt Foundation to be an unprecedented ground-breaking step, ushering in a new era of software development, allowing the KDE project, the free software community, all free software developers as well as commercial software developers to **prosper in a mutually supportive fashion.**“

-- from the announcement

AGREEMENT

between Troll Tech AS
and the KDE Free Qt Foundation

Agreement between Troll Tech AS and the KDE Free Qt Foundation

1. Background and purpose

Troll Tech AS (hereinafter TT) has all rights to the Qt toolkit.

The Qt Free Edition (hereunder the latest version 1.40) is made available to all users according to the Qt Free Edition License.

Exhibit 1: The Qt Free Edition License

Troll Tech AS and members of the K Desktop Environment e.V.i.G (hereinafter KDE) have founded the KDE Free Qt Foundation (hereinafter the Foundation).

Exhibit 2: The statutes of the Foundation

The purpose of the Foundation is to secure that the Qt Free Edition is made available, up-to-date and usable for the development of free software on the X Window System.

The purpose of this agreement is to grant the Foundation the right to release the Qt Free Edition under circumstances specified in section 3.

2. The Qt Free Edition License

The use of the Qt Free Edition is regulated by the Qt Free Edition License (see exhibit 1). The said license covers private use, use of third-party application programs based on Qt, and development of free software for the free software community.

This agreement does not in any way change the said license.

3. The right of the Foundation to grant a BSD license

The Foundation shall have a non-exclusive, irrevocable right to grant a license based on the BSD license (exhibit 3) on the latest version of the Qt Free Edition, in the event of stoppage or discontinuation for more than 12 - twelve - months of the release of the Qt Free Edition under the Qt Free Edition license. The Foundation shall have the same right if the license is unilaterally terminated or changed.

Exhibit 3: The license based on the BSD license.

Such right will also come into existence if no new edition of importance (major release) is launched within 12 - twelve - months, and the Foundation regards the said edition for stopped or discontinued.

Furthermore, whenever unanimously decided by the Board, the Foundation shall have the same non-exclusive, irrevocable right to grant a license based on the BSD license.

5. Governing law and arbitration

This agreement shall be governed by the laws of Norway.

Disputes, if not settled amicably, shall be referred to Oslo City Court, Norway.


22 June 1998.

For Troll Tech AS


Haavard Nord


Eirik Eng

For K Desktop Environment e.V.i.G


Kalle Dalheimer


Matthias Ettrich

First agreement between Troll Tech and the KDE Free Qt Foundation

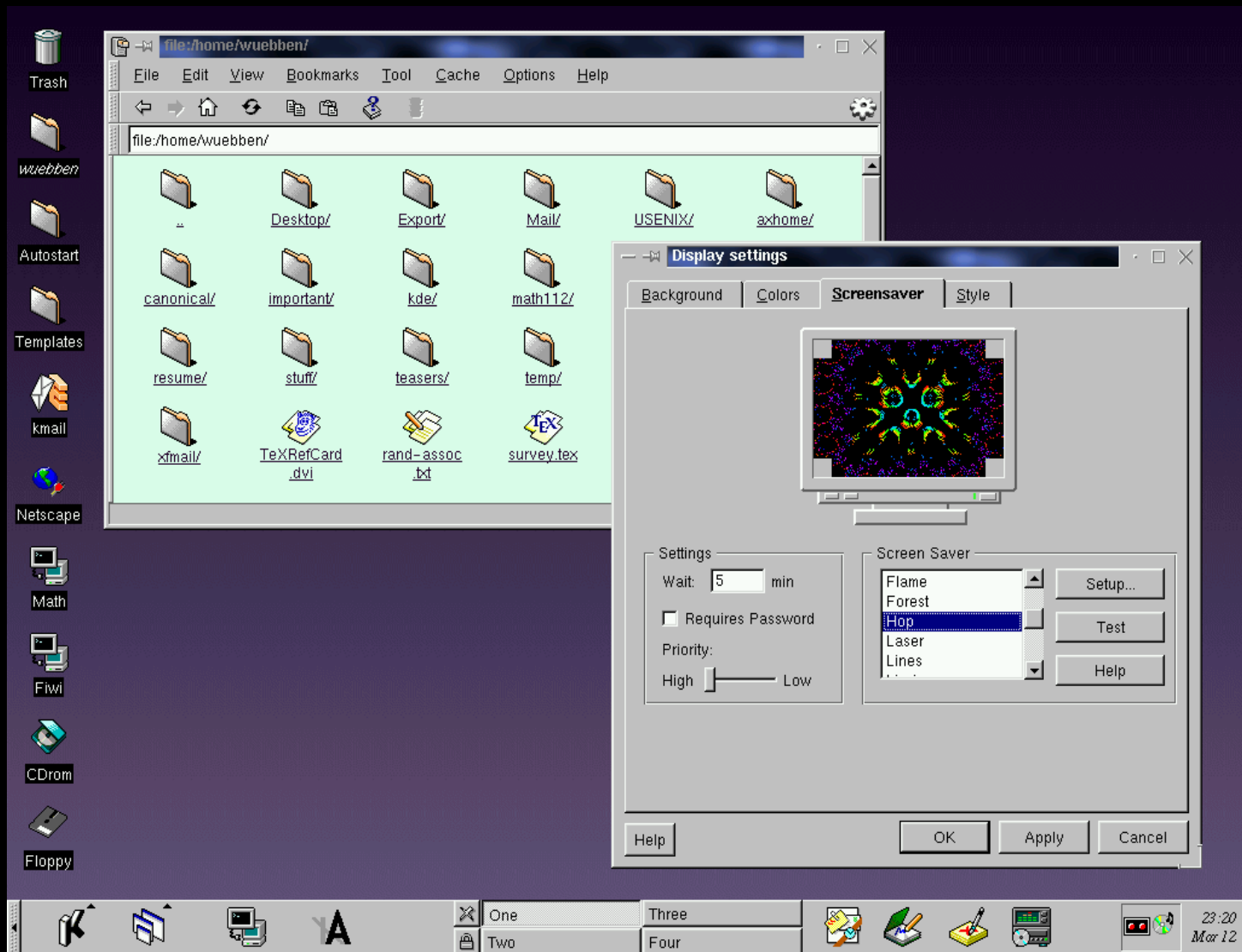
1998

12. July

KDE 1.0 is released

Based on Qt 1.2





Evolution

26 Jun **1999**

Qt 2.0 under QPL

23 Oct **2000**

KDE 2.0

7 Dec **2000**

Qt 2.2 under GPL

3 Apr **2002**

KDE 3.0

28 May **2004**

Second agreement

28 Jun **2005**

Qt 4.0 with GPL for Windows

What is the Qt Free Edition?

Challenge: Future-proof definition of what the Qt Free Edition is

- What means discontinued?
- What means major update?
- What modules are part of Qt?
- What platforms are covered by the agreement?
- What licenses are acceptable?

2008

28. January

KDE e.V. gets an email

BIZ & IT —

Nokia to buy Trolltech, will become a patron of KDE

Trolltech, the company behind the popular Qt open-source software development ...

RYAN PAUL - 1/28/2008, 8:21 PM

**TROLLTECH**

An announcement issued by Trolltech today reveals that the software company is being acquired by Nokia for \$153 million. Trolltech is the company behind Qt, a cross-platform application development toolkit that is available under both commercial and open-source licenses. Trolltech also develops a Linux-based mobile platform called Qtopia that includes a mobile Qt stack.

Nokia describes its acquisition of Trolltech as a way to move its cross-platform software strategy forward and also alludes to the potential for increasing the value of its S60 and Series 40 mobile platforms. "The technology landscape evolves and, for Nokia, software plays a major role in our growth strategy for devices, PCs and the integration with the Internet... Common cross-platform layers on top of our software platforms attract innovation and enable Web 2.0 technologies in the mobile space," said Nokia executive vice president of devices Kai Oistamo in a statement. "Trolltech's deep understanding of open-source software and its strong technology assets will enable both Nokia and others to innovate on our device platforms while reducing time-to-market. This acquisition will also further increase the competitiveness of S60 and Series 40."

Nokia clearly intends to incorporate Qt support into its mobile software platforms, but the intended scope of such plans remains unclear. Nokia could potentially reinvent S60 and Series 40 as Linux-based Qtopia platforms and ditch the Symbian underpinnings. The company could also potentially port Qt to those platforms and provide it as an additional layer for third-party software development. Support for Qt would vastly simplify the process of developing third-party applications for those platforms, encouraging the growth of a richer software ecosystem.

NOKIA
Connecting People

Another significant factor is the inherent portability of Qt, which provides robust support for all three major desktop operating systems and is actively being ported to Windows CE and Windows Mobile by Trolltech developers. Qt already provides a very clean glide path between desktop and mobile developments. Developers using Qt will be able to use a single code base to produce an application that runs on a variety of mobile and desktop

KDE e.V. is at the table
Meetings with Nokia management in Frankfurt
and Helsinki

Qt 4.5 adds LGPL

Third agreement

Qt 5 is developed under open governance

More Evolution

2011 – 2012

Digia acquires Qt

Dec 2012

Qt 5.0

13 Apr 2013

Fourth agreement

Sep 2014

Digia forms The Qt Company

28 Dec 2015

Fifth agreement

May 2016

The Qt Company goes public

December 2020

Qt 6.0

BIZ & IT —

Microsoft buys Nokia's phone business for \$7.1 billion

Nokia's Devices & Services moves to Microsoft; mapping, NSN remain behind.

PETER BRIGHT - 9/3/2013, 6:53 AM



Erkka Petäo

A Nokia building in Finland.

365

f

t

Microsoft and Nokia announced today that Nokia's Devices & Services business—the part of the company that builds all Nokia's phones (both smart and otherwise)—is changing hands. Microsoft is paying €5.44 billion (\$7.17 billion) for the **struggling Nokia division**. The deal, subject to shareholder and regulatory approval, is expected to close in the first quarter of 2014.

In the transaction, all of Nokia's device business, including design, manufacturing, sales, marketing, and support, becomes a part of Microsoft. This includes 32,000 staff, of which 4,700 are in Finland.

Remaining behind is Nokia Solutions and Networks (formerly Nokia Siemens Networks), which builds telecommunications equipment and manages **networks** (NSN). Nokia also

Where are we today?



KDE Free Qt Foundation exists for more than 20 years
and counting

Qt stayed free through sometimes turbulent times

KDE and Qt both had a lot of success and impact

License guarantees **present** freedom

Community contract guarantees **future** freedom

Community contract fosters
dialogue and balancing
between community and commercial interests

What about a fork?

GPL allows forking

but

it would split community

it wouldn't allow to use the proprietary dual-
license business model on the fork

agreement can be terminated
if KDE stops using Qt

**Is the
KDE Free Qt Foundation
a good model for other projects?**

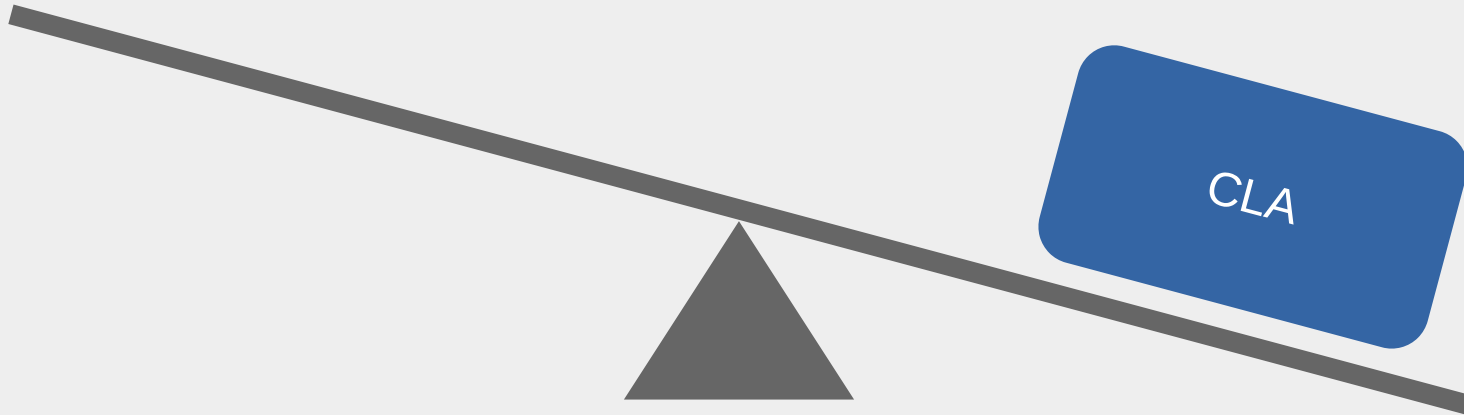
Imbalance in single-vendor projects

Typical use case:

- Single-vendor holds all rights
- Proprietary/copyleft dual-licensing business model
- Contributor License Agreement (CLA) required for contributions

Problem:

- Asymmetric towards company
- Company has rights the community hasn't



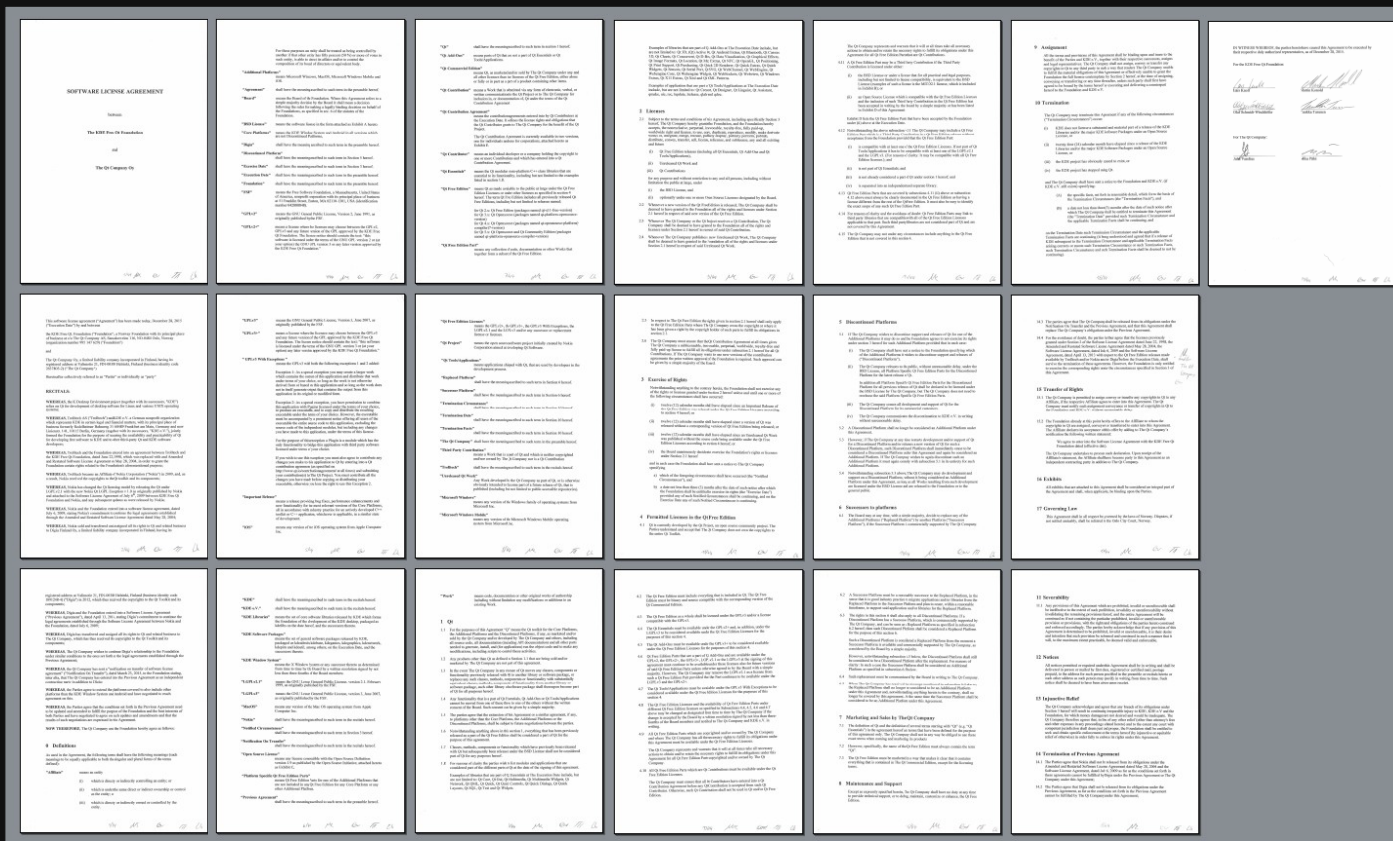
Balanced setup

KDE Free Qt Foundation style community contract:

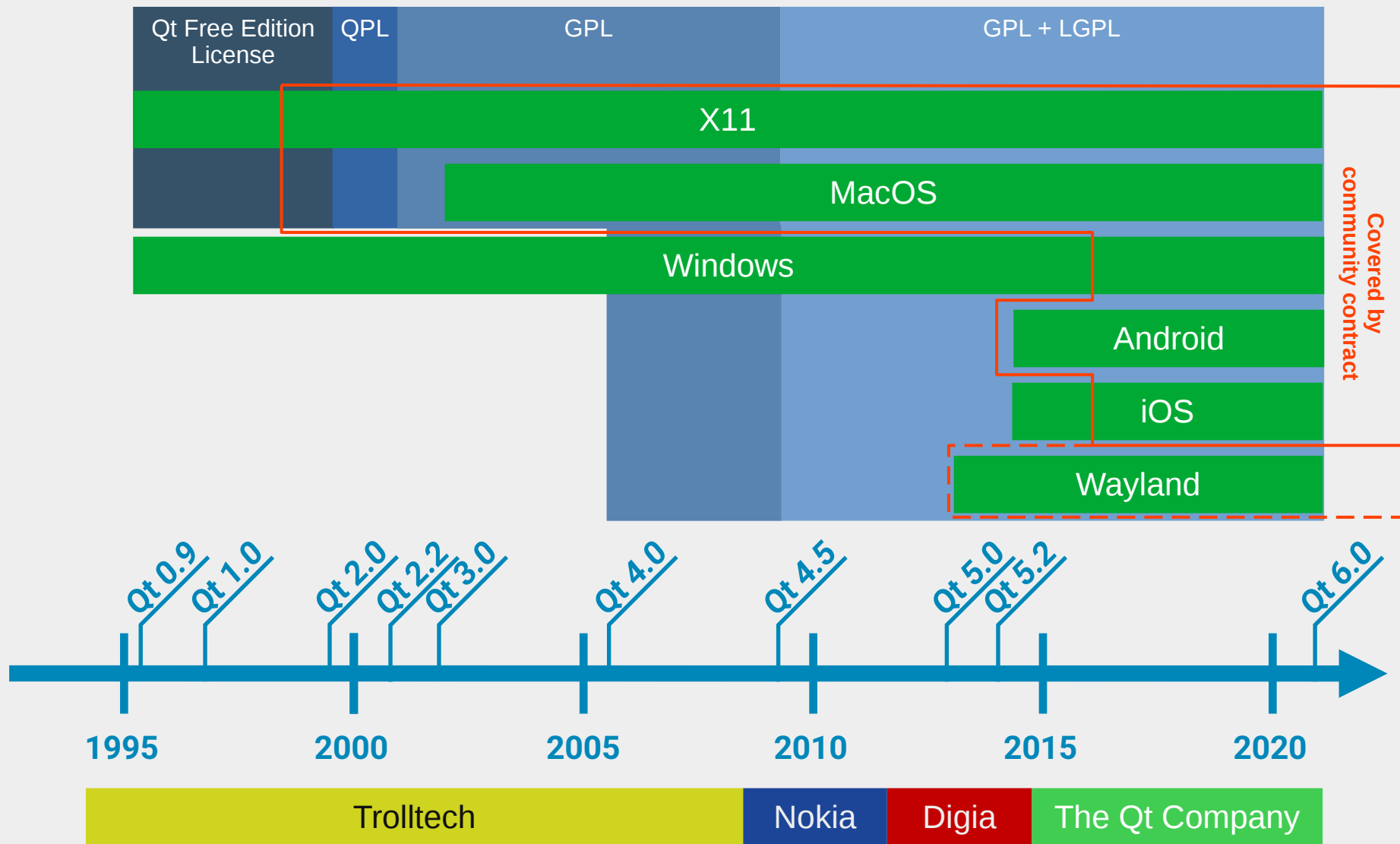
- Balances out asymmetry (community has majority in foundation)
- Shared pledge for the future (going beyond open source license)
- Motivation for contributors (safe future perspective)



Maintenance required



Fifth KDE Free Qt
Foundation agreement
from 28 Dec 2015



Courage

KDE Free Qt Foundation

Freedom

Freedom

good for business
good for community
good for the world

The background is split diagonally from the bottom-left to the top-right. The upper-left portion is a solid blue color, and the lower-right portion is a solid green color.

prosper in a mutually supportive fashion

