

Deploying Continuous Integration with XIFI

Gerrit, “Future Internet”, PPP, and KDE

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Who am I?

KPhotoAlbum







Trojita, a fast Qt IMAP e-mail client

In a Nutshell, Trojita...

... has had 5,618 commits made by 59 contributors representing 72,418 lines of code

... is mostly written in C++ with an average number of source code comments

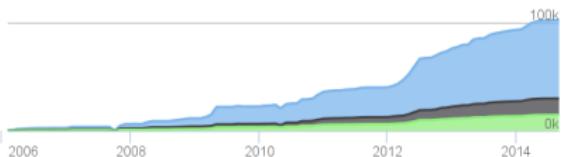
... has a well established, mature codebase maintained by a large development team with decreasing Y-O-Y commits

... took an estimated 18 years of effort (COCOMO model) starting with its first commit in February, 2006 ending with its most recent commit 23 days ago

Languages



Lines of Code



Managing Contributions

- Number of contributors grows
- Some patches are crappy
- Shuffling them around manually takes time
- All people make mistakes
 - Let computers take care of as much stuff as possible

Code Review

- ReviewBoard
 - Has been used by KDE for years
 - Not integrated with CI
 - Patches not accessible through git
- Gerrit
 - Used by Qt, Chromium, Android, OpenStack, WikiMedia,...
 - Pushes go to `refs/for/master` instead of `master`
 - Stuff available at `refs/changes/03/3/1`



Change 3 - Abandoned

Move PartWidgetFactory to UiUtils and make it not QWidget specific

Change-Id: I3e407b3b07f6a91bae5af0067a5b0195dc77071f

REVIEW: 119818

[Reply...](#)

Owner [Jan Kundrát](#)
 Reviewers [Caspar Schutijser](#)
[Karan Luthra](#)

Project [trojita](#) 
 Branch [master](#)
 Topic
 Updated 7 hours ago

Related Changes (1)

[Move PartWidgetFactory to UiUtils and make it not QWidget specific](#)

Code-Review +2

[Caspar Schutijser](#)
[Karan Luthra](#)
 -2 Jan Kundrát

Author Boren Zhang <bobo1993324@gmail.com> Aug 19, 2014 1:34 PM
 Committer Jan Kundrát <kt@flaska.net> Aug 21, 2014 11:32 PM
 Commit 08501065cafa97b79f3701008e151e79133b3460
 Change-Id I3e407b3b07f6a91bae5af0067a5b0195dc77071f

Files

[Open All](#) [Diff against: Base](#) 

File Path

Comments

Size

File Path	Comments	Size
▶ Commit Message		
CMakeLists.txt		2
src/Gui/AttachmentView.h		3
src/Gui/LoadablePartWidget.cpp		14
src/Gui/LoadablePartWidget.h		11
src/Gui/MessageView.cpp		11
src/Gui/MessageView.h		6
src/Gui/PartWidget.cpp		39
src/Gui/PartWidget.h		19
D src/Gui/PartWidgetFactory.cpp		230
D src/Gui/PartWidgetFactory.h		78
A src/Gui/PartWidgetFactoryVisitor.cpp		89
A src/Gui/PartWidgetFactoryVisitor.h		56
A src/UIUtils/PartLoadingOptions.h		47
A src/UIUtils/PartVisitor.h		61
A src/UIUtils/PartWalker.h		247
		+556, -357

History

[Expand All](#)

Jan Kundrát	Uploaded patch set 1.	Aug 21 11:32 PM
Karan Luthra	Patch Set 1: Code-Review+2	Aug 22 11:01 AM
Caspar Schutijser	Patch Set 1: Code-Review+2 I approve.	Aug 22 12:02 PM
Jan Kundrát	Patch Set 1: Code-Review-1 Testing, let's see if this mail makes it through.	Aug 22 12:27 PM
Sysadmin Testing...	Patch Set 1: Code-Review-1 This is a regular KDE user, so I can add just +1/-1. Let's see what happens when I untick that "send mail" checkbox.	Aug 22 12:33 PM
Jan Kundrát	Removed the following approvals: * Code-Review+1 by Sysadmin Testing Account <null@kde.org>	Aug 22 12:36 PM
Jan Kundrát	Patch Set 1: Code-Review-2 As we're now in the phase where approvals on this Gerrit instance will get propagated to git.kde.org, let's kill it...	11:16 AM
Jan Kundrát	Abandoned	11:16 AM

trjota / src/Gui/LoadablePartWidget.cpp

Patch Set Base 1

```
23 #include "Gui/MessageView.h" // so that the compiler knows that it's a GObject
24 #include "Impl/Model/ItemRole.h"
25 #include "Util/Formatting.h"
26
27 #include <QPushButton>
28
29 namespace Gui
30 {
31
32 LoadablePartWidget::LoadablePartWidget(QWidget *parent, Imp::Network::MsgPartNetAccessManager *manager, const QModelIndex &part,
33                                         PartWidgetFactory *factory, int recursionDepth,
34                                         PartWidgetFactory::PartRoleLoadOnShow loadingMode)
35 {
36     QStackedWidget *parentWidget = new QStackedWidget(parent);
37     parentWidget->setParent(part);
38     parentWidget->setFactory(factory);
39
40     Q_ASSERT(partIndex.isValid());
41
42     OString mimeType = partIndex.data(Imp::Mailbox::RolePartMimeType).toString().toLower();
43
44     if ((loadingMode & PartWidgetFactory::PART_IS_HIDDEN) || (loadingMode & PartWidgetFactory::PART_IGNORE_CLICKTHROUGH))
45     {
46         partIndex.data(Imp::Mailbox::RolePartOctets).fetch();
47         connect(loadButton, SIGNAL(clicked()), toBox());
48         m_loadShow = true;
49     }
50     else
51     {
52         loadButton = new QPushButton(tr("Load %1 (%2)").arg(partIndex.data(Imp::Mailbox::RolePartMimeType).toString(),
53                                                               Util::Formatting::prettySize(partIndex.data(Imp::Mailbox::RolePartOctets).toUInt())));
54         Util::Formatting::prettySize(partIndex.data(Imp::Mailbox::RolePartOctets).toUInt()));
55         connect(loadButton, SIGNAL(clicked()), this, SLOT(loadClicked()));
56         addWidget(loadButton);
57     }
58 }
59
60     ... skipped 3 common lines ...
61
62     if (loadButton)
63     {
64         loadButton->deleteLater();
65         loadButton = 0;
66     }
67
68 // We have to disable any flags which might cause recursion here
69     realPart = m_factory->createPartIndex(m_recursionDepth + 1);
70
71     if ((loadingMode & PartWidgetFactory::PART_IGNORE_CLICKTHROUGH)
72         || PartWidgetFactory::PART_IGNORE_LOAD_ON_SHOW) ^ PartWidgetFactory::PART_IS_HIDDEN);
73     addWidget(realPart);
74     setCurrentIndex(1);
75 }
76
77 OString LoadablePartWidget::quoteMe() const
78 {
79     AbstractPartWidget *part = dynamic_cast<AbstractPartWidget*>(realPart);
80     return part ? part->quoteMe() : OString();
81 }
82
83     ... skipped 36 common lines ...
84
85 }
```

Patch Set 1

```
23 #include "Gui/MessageView.h" // so that the compiler knows that it's a GObject
24 #include "Impl/Model/ItemRole.h"
25 #include "Util/Formatting.h"
26
27 #include <QPushButton>
28
29 namespace Gui
30 {
31
32 LoadablePartWidget::LoadablePartWidget(QWidget *parent, Imp::Network::MsgPartNetAccessManager *manager, const QModelIndex &part,
33                                         PartWidgetFactory *factory, int recursionDepth,
34                                         PartWidgetFactory::PartRoleLoadOnShow loadingMode)
35 {
36     QStackedWidget *parentWidget = new QStackedWidget(parent);
37     parentWidget->setParent(part);
38     parentWidget->setFactory(factory);
39
40     Q_ASSERT(partIndex.isValid());
41
42     OString mimeType = partIndex.data(Imp::Mailbox::RolePartMimeType).toString().toLower();
43
44     if ((loadingMode & QUtil::PART_IS_HIDDEN) || (loadingMode & QUtil::PART_IGNORE_CLICKTHROUGH))
45     {
46         partIndex.data(Imp::Mailbox::RolePartOctets).fetch();
47         connect(loadButton, SIGNAL(clicked()), toBox());
48         m_loadShow = true;
49     }
50     else
51     {
52         loadButton = new QPushButton(tr("Load %1 (%2)").arg(partIndex.data(Imp::Mailbox::RolePartMimeType).toString(),
53                                                               Util::Formatting::prettySize(partIndex.data(Imp::Mailbox::RolePartOctets).toUInt())));
54         Util::Formatting::prettySize(partIndex.data(Imp::Mailbox::RolePartOctets).toUInt()));
55         connect(loadButton, SIGNAL(clicked()), this, SLOT(loadClicked()));
56         addWidget(loadButton);
57     }
58 }
59
60     ... skipped 5 common lines ...
61
62     if (loadButton)
63     {
64         loadButton->deleteLater();
65         loadButton = 0;
66     }
67
68 // We have to disable any flags which might cause recursion here
69     realPart = m_factory->createPartIndex(m_recursionDepth + 1);
70
71     if ((loadingMode & QUtil::PART_IGNORE_CLICKTHROUGH)
72         || QUtil::PART_IGNORE_LOAD_ON_SHOW) ^ QUtil::PART_IS_HIDDEN);
73     addWidget(realPart);
74     setCurrentIndex(1);
75 }
76
77 OString LoadablePartWidget::quoteMe() const
78 {
79     AbstractPartWidget *part = dynamic_cast<AbstractPartWidget*>(realPart);
80     return part ? part->quoteMe() : OString();
81 }
82
83     ... skipped 36 common lines ...
84
85 }
```

AttachmentView.h

Up to change

LoadablePartWidget.h

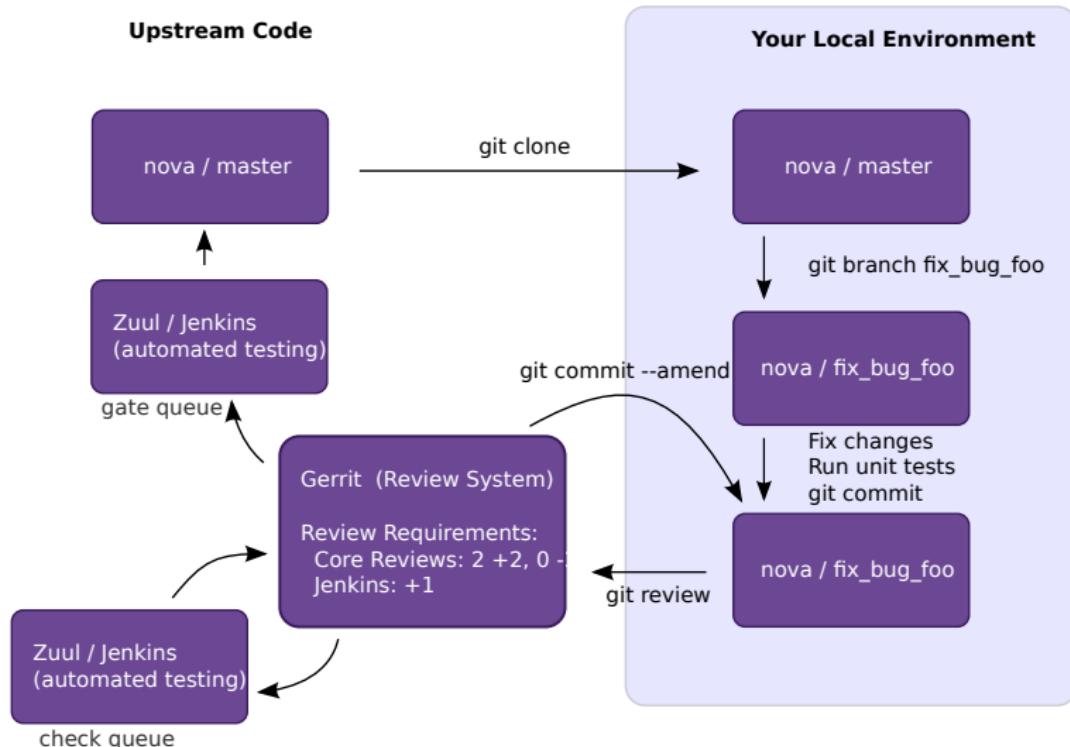
LG Patch Set (-) Base 1 ②

LG Patch Set (+) ① ②

```

diff --git a/src/Gui/LoadablePartWidget.cpp b/src/Gui/LoadablePartWidget.cpp
index f5a250a..a623990 100644
--- a/src/Gui/LoadablePartWidget.cpp
+++ b/src/Gui/LoadablePartWidget.cpp
@@ -23,31 +23,31 @@

 23 #include "Gui/MessageView.h" // so that the compiler knows that it's a QObject
 24 #include "Imap/Model/ItemRoles.h"
 25 #include "Utils/Formatting.h"
 26
 27 #include <QPushButton>
 28
 29 namespace Gui
 30 {
 31
 32 LoadablePartWidget::LoadablePartWidget(QWidget *parent, Imap::Network::MsgPartNetAccessManager *manager, const QModelIndex &part,
 33                                         PartWidgetFactory *factory, int recursionDepth,
 34                                         const PartWidgetFactory::PartLoadingOptions loadingMode):
 35                                         UIUtils::PartWalker<QWidget> *factory, int recursionDepth,
 36                                         const UIUtils::PartLoadingOptions loadingMode):
 37                                         QStackedWidget(parent), manager(manager), partIndex(part), m_factory(factory),
 38                                         m_recursionDepth(recursionDepth), m_loadingMode(loadingMode), realPart(0), loadButton(0), m_loadOnShow(false)
 39
 40     {
 41         Q_ASSERT(partIndex.isValid());
 42
 43         QString mimeType = partIndex.data(Imap::Mailbox::RolePartMimeType).toString().toLower();
 44
 45         if ((loadingMode & PartWidgetFactory::PART_IS_HIDDEN) ||
 46             (loadingMode & PartWidgetFactory::PART_IGNORE_CLICKTHROUGH) ||
 47             (loadingMode & UIUtils::PART_IS_HIDDEN) ||
 48             (loadingMode & UIUtils::PART_IGNORE_CLICKTHROUGH) ||
 49             partIndex.data(Imap::Mailbox::RoleIsFetched).toBool()) {
 50                 m_loadOnShow = true;
 51
 52             loadButton = new QPushButton(tr("Load %1 (%2)").arg(partIndex.data(Imap::Mailbox::RolePartMimeType).toString()),
 53                                         UIUtils::Formatting::prettySize(partIndex.data(Imap::Mailbox::RolePartMimeType).toString()),
 54                                         olePartOctets.toInt()), this);
 55             connect(loadButton, SIGNAL(clicked()), this, SLOT(loadClicked()));
 56             addWidget(loadButton);
 57         }
 58     }
 59
 60     @@ -59,23 +59,23 @@ loadButton->setEnabled(false);
 61
 62     return;
 63 }
 64
 65 if (loadButton) {
 66     loadButton->deleteLater();
 67     loadButton = 0;
 68 }
 69
 70 // We have to disable any flags which might cause recursion here
 71 realPart = m_factory->create(partIndex, m_recursionDepth + 1,
 72                               (m_loadingMode | PartWidgetFactory::PART_IGNORE_CLICKTHROUGH
 73                               | PartWidgetFactory::PART_IGNORE_LOAD_ON_SHOW) ^ PartWidgetFactory
 74                               .PART_IS_HIDDEN);
 75
 76     realPart = m_factory->walk(partIndex, m_recursionDepth + 1,
 77                               (m_loadingMode | UIUtils::PART_IGNORE_CLICKTHROUGH
 78                               | UIUtils::PART_IGNORE_LOAD_ON_SHOW) ^ UIUtils::PART_IS_HIDDEN);
 79
 80     addWidget(realPart);
 81     setCurrentIndex(1);
 82 }
 83
 84 QString LoadablePartWidget::quoteMe() const
 85 {
 86     AbstractPartWidget *part = dynamic_cast<AbstractPartWidget*>(realPart);
 87     return part ? part->quoteMe() : QString();
 88 }
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... but that needs plenty of CPU cycles

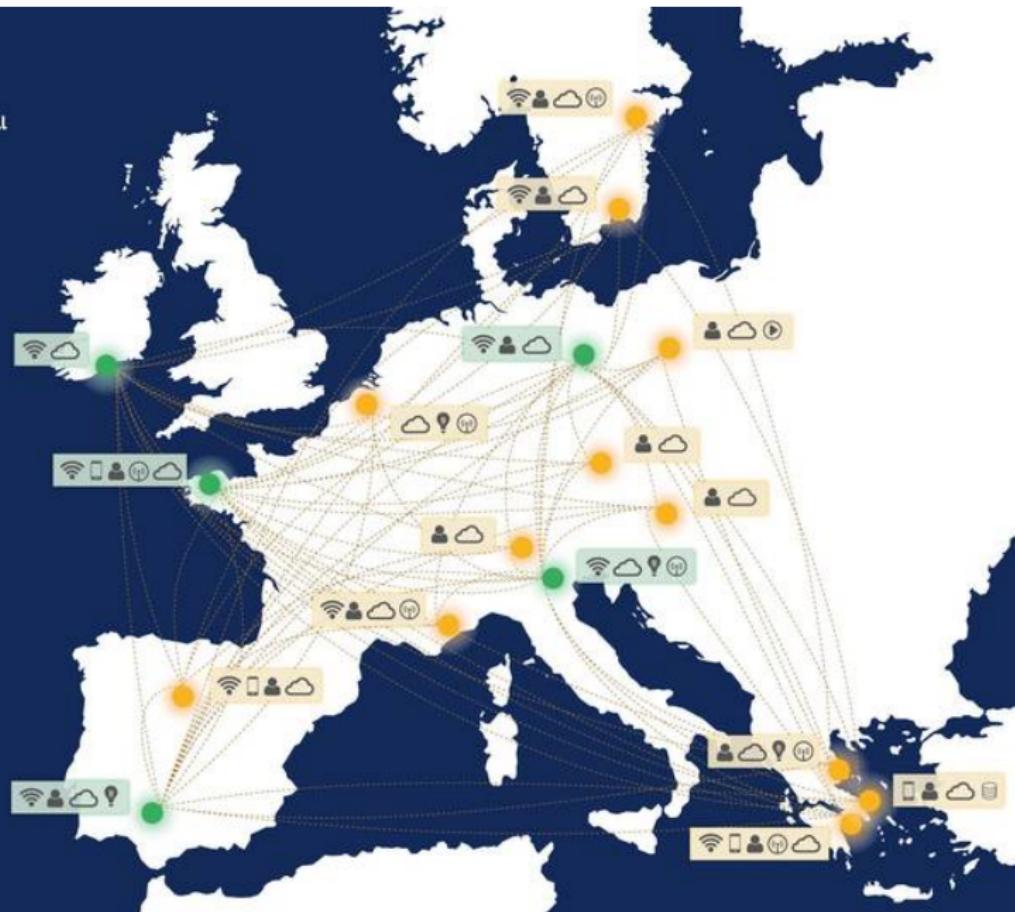


XIFI is a project of the European Public Private Partnership on Future Internet (FI-PPP) programme.

XIFI is the project responsible for the capacity building part of the programme.

– <https://www.fi-xifi.eu/about-xifi/what-is-xifi.html>

- Origin nodes
- Nodes selected by Open Call
- Wireless access
- Customer devices
- User community
- Cloud
- Energy measure
- Sensor network
- Open data
- Media services





6 regions



1584 core



4896581 Mb



40252 Gb

80 Million € for SMEs

Through open calls, the third phase calls for SMEs and Web entrepreneurs to develop highly innovative services and applications.

The 16 selected “accelerator projects” will publish Open Calls for the distribution of grants to SMEs and Web entrepreneurs as of September 2014. SMEs and Web entrepreneurs may submit proposals to one (or perhaps more) of these Open Calls, in accordance with the requirements defined by the projects launching the Open Calls.

– <http://www.fi-ppp.eu/fi-ppp-phase-3-projects-and-their-calls-for-smes/>

KDE's Gerrit

- Gerrit at <https://gerrit.vesnicky.cesnet.cz/>
 - Use KDE Identity for login
- Approved changes are pushed to KDE's git
 - Everyone can submit a patch
 - Any KDE developer can approve anything
 - No countermeasures against self-approvals
- Use `dummy.git` for testing
- **Ask me if you want your project in there**
 - In person here at Akademy
 - `jkt` on `#kde-sysadmin` at Freenode
 - `jkt@flaska.net`

Future Plans

- Set up pre-merge CI
- Don't bother reviewers until the patch at least builds
- Fancy stuff
 - IRC hooks, Bugzilla,...
- **Do you want to help?**
 - Write tutorials
 - Report bugs
 - Become a Gerrit admin

“Social Issues”

Do we want to limit approvals to project maintainers?

Is the current situation where everyone can commit and push everywhere a goal, or a way towards some other goal?

What is the **actual goal**?

Q&A

Thanks for listening

Questions?