

PRO KDE

EVERYTHING YOU NEED TO
KNOW ABOUT KDE

PAUL MCQUADE

Pro KDE

Paul McQuade

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Preface by Paul McQuade

I began writing this book as a way to escape from the nightmare of Covid-19. As i write i wondered what can i do to make developing software easier on people. I realise that sharing my information about coding was to way to go.

I never wrote a book before and i had very little practical knowledge about KDE Plasma and KDE Frameworks. Writing a book would force me to think.

Dedications

I would like to thank my family - Peter, Breda, Caitriona and Caroline for their support down through the years especially when i was sick in hospital.

Developers

Source Code for book

This book is hosted on gitlab.com under the following link:

<https://gitlab.com/paulmcquad/prokde>

There's a mirror copy on github.com under the following link:

<https://github.com/paulmcquad/prokde>

Please fork this book today.

Issues

If you have an issue about the book you want to raise it on gitlab.com Issues can be errata and content changes.

Merge Requests

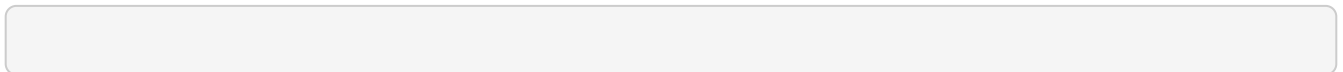
Pro KDE is always looking for developers. Feel free to submit patches through Gitlab Merge Requests.

In Gitlab go to: Left side Panel > Merge Requests > New merge request

Thank You

Since this is an Open Source book, I want to say a big thank you to the developers who have send in several errata and content changes. Here are all the people who have contributed to the English version of Pro KDE as an open source project.

Thank you everyone for helping make this a better book for everyone.



Getting Started

About KDE

KDE is an international team co-operating on development and distribution of Free, Open Source Software for desktop and portable computing. Their community has developed a wide variety of applications for communication, work, education and entertainment. They have a strong focus on finding innovative solutions to old and new problems, creating a vibrant, open atmosphere for experimentation.

KDE Projects

KDE Projects consists of three parts:

- KDE Plasma - A User Interface
- KDE Frameworks - A Collection of libraries and software frameworks
- KDE Applications - A list of Programs like Kate and Konsole

Development of KDE

A few images of process in action:

Table 1. Development of KDE



THE KDE CODE OF CONDUCT

When communicating in official KDE channels please observe the KDE Code of Conduct. Our Code of Conduct presents a summary of the shared values and common sense thinking in our community. The basic social ingredients that hold our project together include:

- Be considerate
- Be respectful
- Be collaborative
- Be pragmatic

Support others in the community Get support from others in the community The Code of Conduct can be found here : <http://www.kde.org/code-of-conduct/>

Setup an KDE Account

About KDE Identity Account

In order to submit merge requests with GitLab, you'll need a [KDE Identity Account](#).

These can be registered using the self-service Identity site. As part of this process, you will need to provide a name and email address, which has to be your own. Please note that these details will be made publicly visible on Gitlab once you have logged in there. You may therefore receive some spam as an unfortunate consequence of this.

When selecting your username, please ensure you select something which has a relation to your real name.

A Developer Account is not needed to fork repositories and submit merge requests on Gitlab.

Also note that this email address should be the same one that you use on [bugs.kde.org](#). If you don't have an account in bugs.kde.org, please create one so that it can be given usual developer rights. Closing bug reports with keywords in commit comments only works if the email address associated with your KDE Developer account and [bugs.kde.org](#) accounts match.

How to setup an KDE Identity Account

Register with KDE Identity Account at the following:

[KDE Identity](#)

Click Register > Accept KDE Code of Conduct > Fill in Name and Email

Identity with send an email called "Account activation on KDE Identity"

Something like this:

Hello {First Name, Last Name},

In order to activate your new account please follow the link below.
You will not be able to begin using your account on KDE Identity until you have activated your account.

If you did not request this, please inform the site administrator by replying to this email.

<https://identity.kde.org/index.php=LINK>

Thanks,
KDE Identity site administrators.

I removed the LINK details but you get the idea.

Tools

Core Tools

Git/Gitlab

About Git

Git is a free and open source version control system designed to handle everything from small to very large projects with speed and efficiency. It provides lots of tools for figuring out where you have gone as you edit files, as well as merging your changes with those made by other developers. You can find more about git (and download it if necessary) at:

<http://git-scm.com/>

Pro Git

If this is the first time hearing of Git. There's this great book called ProGit. It can be found at:

<https://git-scm.com/book>

About Gitlab

KDE uses Gitlab and hosts their own code on their private Edition of Gitlab:

<https://invent.kde.org/explore>

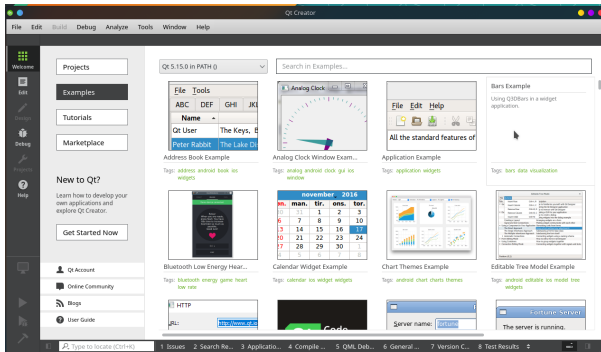
An IDE

An integrated development environment (IDE) allows you to do project management, testing, and other activities in a convenient way alongside your coding. We recommend that you install one of the following IDEs and do your KDE development work within it.

We recommend QtCreator for its ease of use and features, especially its built-in text editor. But it's nice to know, if you're familiar with KDevelop already, that you can use that for KDE development too.

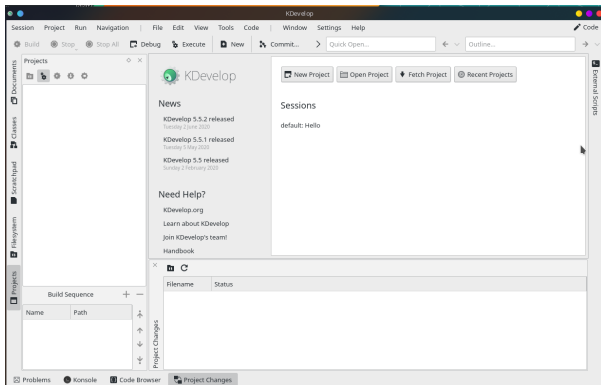
QT Creator

Qt Creator is a cross-platform C++, JavaScript and QML integrated development environment which simplifies GUI application development. It is part of the SDK for the Qt GUI application development framework and uses the Qt API, which encapsulates host OS GUI function calls.



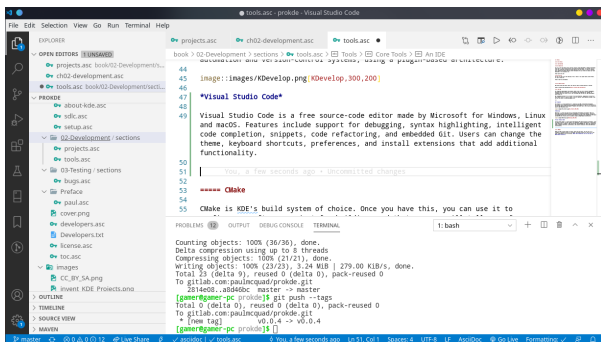
KDevelop

KDevelop is a free and open-source integrated development environment (IDE) for Unix-like computer operating systems and Windows. It provides editing, navigation and debugging features for several programming languages, and integration with build automation and version-control systems, using a plugin-based architecture.



Visual Studio Code

Visual Studio Code is a free source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.



CMake

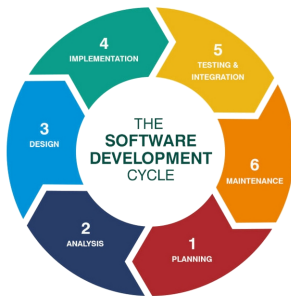
CMake is KDE's build system of choice. Once you have this, you can use it to configure a software project for building, and that process will tell you of any other requirements you are missing.

NOTE: KDE Frameworks can also be used in QMake-based projects.

Software Development Life Cycle

The 6 steps to Software Development Life Cycle are:

1. Planning - Talk to other developers.
2. Analysis - Break the problem into smaller parts.
3. Design - Put a plan together and create mockups if needed.
4. Implementation - Write code.
5. Testing & Integration - Report and fix bug issues.
6. Maintenance - Apply patches and release software.



Who is this book for?

This book is aimed at software testers and developers who want to know more about KDE. It may also reach a wider audience but I wrote this book is to learn about KDE from a developers side.

Implementation

Projects

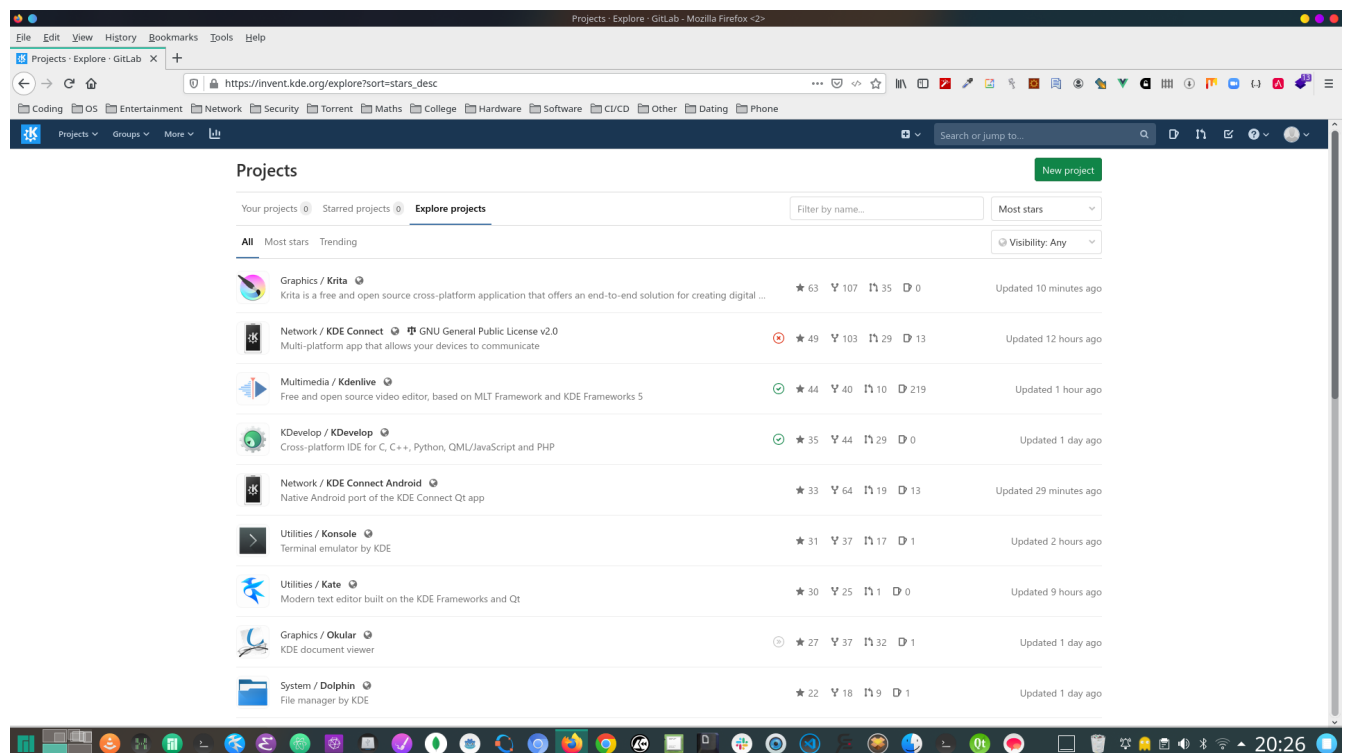
Once you setup an KDE Identity Account (see Getting Started > Setup an KDE Account). You can use your account to login to invent.kde.org/explore.

Choosing a Project

When you come to KDE as a developer, you may already have a favorite project and know how you want to contribute. But it's worth looking over the various projects listed in this chapter, to find out all the ways you may be able to help. And even if you're really only interested in one project, it's useful to know what others are active because your work may interact with them.

KDE Projects

These are general components underlying the applications and other visible parts of KDE. The team is working hard to make the libraries modular, clarify the dependencies, simplify, and increase the quality and stability.



The QT Framework

To start developing on the KDE Development Platform you will need to get familiar with the Qt framework, which is one of building blocks of KDE development.

Qt (pronounced officially as cute) is a cross-platform application framework based on C++, that is widely used for developing application software with a graphical user interface (GUI). Thus, it is largely a widget toolkit, but is also used for developing non-GUI programs such as command-line tools and consoles for servers.

Besides the KDE Development Platform, Qt is most notably used in Autodesk Maya, Adobe Photoshop Elements, OPIE, Skype, VLC media player, VirtualBox, and Mathematica, and by the European Space Agency, DreamWorks, Google, HP, Lucasfilm, Panasonic, Philips, Samsung, Siemens, Volvo, and Walt Disney Animation Studios.

Advantages of QTs

Writing code once to target multiple platforms

Qt allows you to write advanced applications and UIs that you can deploy across different desktops and embedded operating systems without rewriting the source code, saving time and development cost.

Creating amazing user experiences

Whether you prefer C++ or JavaScript, Qt provides the building blocks for modern, interactive interfaces: a broad set of customizable widgets, graphics canvas, style engines, and more. You can incorporate 3D graphics, multimedia audio or video, visual effects, and animations to set your application apart from the competition.

Doing more (and faster!) with less

Qt is fast to learn and to use, particularly when used together with the new Qt Creator cross-platform IDE. And Qt's modular class library provides much of the necessary infrastructure for interactive applications.

Blending web and native code in a single application

Qt's integration with the WebKit web rendering engine means that you can quickly incorporate content and services from the Web into your native application, and can use the web environment to deliver your services and functionality. To learn how to use Qt, we recommend the tutorials here:

<https://doc.qt.io/>

QT Developers site:

<https://www.qt.io/developers>

KDE API

KDE has a set of API's that can be found at:

<https://api.kde.org/>

API

An Application Programming Interface (API) is a set of functions exposed by a program or library that can be invoked by other programmers. An API greatly extends a program by allowing third-party developers to add new functionality. It is an ideal way to allow new features to be added without the need to modify the existing, core code.

Build Prerequisites

This section details the software requirements you must install on your system before you can start building the KDE platform. For most of these requirements, it is best to use the packages provided by your operating system distribution, but in some cases you will need to build these requirements yourself.

Fork a Project

Once you have made some local changes that you would like to submit to KDE, you need to create a personal fork of the project and push your changes to the forked copy.

Navigate to <https://invent.kde.org/kde> and locate the project.

Plasma

Plasma is a group on [Invent](#) with many different projects that deal with the graphical workspaces environment or User interface(UI). It describes the group as:

Desktop environment for a wide range of devices and user needs:

Plasma Projects

The top three Plasma projects are:

[KWin](#) - Easy to use, but flexible, X Window Manager and Wayland Compositor

[plasma-desktop](#) - Plasma for the Desktop

[plasma-workspace](#) - Various components needed to run a Plasma-based environment

For more Plasma Projects see:

invent.kde.org/plasma

Testing & Integration

Issue Reporting

If you've found a problem with a piece of KDE software or have an idea for an improvement, report it to the developers! QA is critically important to ensure quality, and you can be involved in an effort to make sure that our users are happy with the final products. [Find out more about issue reporting](#).

Issue reporting involves responsibility

Before you report a Bugzilla ticket, please make sure that you are:

- using relatively recent versions of KDE software (≤ 1 year old) or an LTS supported version
- willing to do whatever is necessary to get the bug to happen again (if reporting a bug)
- willing to correspond with KDE developers about the issue, potentially over an extended period of time
- prepared to gather and report a lot of additional information
- ready to potentially use a terminal program to execute command line debugging tools

If those points all apply to you, then we can move on! Let's see now make sure that the issue you're experiencing is something that can be reported.

Step 0: Is it a security issue?

Do not file bug reports for security issues, as this makes the vulnerability public and could expose users to exploits. Instead, send an email to security@kde.org. For more information, see <https://kde.org/info/security/>.

Step 1: Make sure it's a valid bug or feature request

Real issues involve any of the following:

- Crashes
- Broken functionality
- Anything that causes data loss
- Design issues, such as faulty paddings/margins, misplaced content, lack of consistency with the rest of the desktop, incorrect icon/image rendering, or other user interface anomalies
- Translation problems, where certain words or expressions are inappropriate for a given context, or a part of a program that was not properly translated or is lacking translation
- Typographic errors (typos), unclear instructions or general communication, inappropriate grammar or style, or not conveying a program's functionality correctly
- Usability issues, such as inappropriate default window sizes, excessive or non-optimal amount of clicks to achieve a task, and others

- Accessibility issues, such as text or software itself that cannot be used with a text-to-speech interface or screen reader
- Request for missing features or ideas about how something that's already working could be further improved

If your issue is on this list, **proceed onto step 2**.

By contrast, here are some examples of issues that are almost never real issues:

- Vague and subjective matters of aesthetics or personal preference (e.g. "The program is ugly")
- Design choices too broad to be changed by a Bugzilla ticket (e.g. "The program should work more like this other program that I'm used to")
- Anything caused by user or vendor configuration choices (e.g. "The program disappeared after I did a system update")
- Support questions ("How do I change such-and-such behavior of the program?")
- Development assistance requests ("Can you help me compile the program?")

Do not file **Bugzilla tickets for these kinds of issues**. Instead, you might try bringing up the matter on the [KDE forum](#) or another online discussion group of your choice.

Here are examples of issues that *may* be valid, but require some more investigation:

- "The program is really slow" (It could be a bug in the software, or it could be an issue with your computer or its configuration)
- "Some of the program's icons are inconsistent" (If you're using a 3rd-party icon theme, that could be causing the problem)
- "The program did something unexpected in response to an action that I took" (this could be a bug or a usability issue, or it could just be that the program's operation is unfamiliar to you)
- "The label for one of the program's user interface controls doesn't clearly indicate what it does" (It could be a badly-worded or badly-translated piece of text, or it could be a 3rd-party widget theme mangling the user interface)

If your issue is on this list, **proceed to Step 2**, but be prepared for the issue to be caused by configuration or hardware issues, or simply be an example of unfamiliar behavior.

Step 2: Make sure it hasn't already been fixed

Bug triaging

Summary

The KDE Bugsquad keeps track of incoming bugs in KDE software, and goes through old bugs. They verify that a bug exists, whether it is reproducible, and that the reporter has given enough information. Their goal is to save developers from doing this, **which helps them fix bugs more quickly and do more work on KDE software**.

Getting involved in the Bugsquad is a good place to start. An existing member will help you out and mentor you. One of the great things about the Bugsquad and bug triaging is that **you do not need any programming knowledge!**

That said, experience has shown that members of this team learn a lot about KDE and Qt programming during the course of dealing with bug reports, and many move on to developing the software itself. If you are just starting to learn programming, bug triaging is a great way to gain familiarity with the components and give practical support to the KDE community.

Live chat

For live chat, we have the [#kde-bugs](#) IRC channel on [Freenode](#). Please feel free to stop by! You can also connect via [Matrix](#) if you prefer.

Reporting Bugs

Report bugs to the the KDE Bugtracking System at:

<https://bugs.kde.org/>

ID	Product	Comp	Assignee	Status	Resolution	Summary	Changed
423426	kmail2	general	kdepim-bugs@kde.org	REPO	---	POP3 setup wizard defaults to unencrypted connections.	11:53:02
369029	valgrind	general	mark@klomp.org	ASSI	---	WARNING: unhandled amd64-linux syscall: 315 (sched_getattr)	11:53:01
414002	krita	General	krita-bugs-null@kde.org	CONF	---	Fill tool can use different blend mode than brush tool. Currently the blend mode is synced across both.	11:47:31
375785	krita	General	dimula73@gmail.com	ASSI	---	Processing layers/filters inside groups with pass through could be disabled if group is invisible	11:44:21
424139	amarok	Notifica	amarok-bugs-dist@kde.org	CONF	---	HTML in KDE Panel	11:44:21
413317	krita	Filters	griffinvalley@gmail.com	ASSI	---	Height to normal map radius settings don't work properly	11:30:34
424744	xdg-desk	general	jgrulich@redhat.com	REPO	---	xdg-desktop-portal-kde used with flatpak version of OBS Studio crashes on neon unstable	11:12:58
364231	digikam	Plugin-F	digikam-bugs-null@kde.org	REPO	---	Support JPEG2000 using OpenJPEG to replace LibJasper	11:12:31
424742	korganiz	general	kdepim-bugs@kde.org	REPO	---	Korganizer crashes when editing categories colors	11:09:47
422615	kdeconne	common	albertvaka@gmail.com	REPO	---	kde connect daemon crashes on clicking 'Laserpointer'-Button in Presentation Mode	10:38:33
406811	kdenlive	Effects	vpinon@kde.org	CONF	---	first 23 frames of freeze effect render as blank white	10:31:57
424741	dolphin	general	dolphin-bugs-null@kde.org	REPO	---	Add secure delete to Dolphin/Plasma Desktop	10:31:38
419369	krita	Resource	boud@valdyas.org	ASSI	---	custom brush tags gone / tag creation unstable	09:51:39
424740	ark	plugins	rthomsen6@gmail.com	REPO	---	[libzip] Incorrect access time (atime) for extracted folder	09:45:17
424738	konsole	history	konsole-devel@kde.org	CONF	---	Scrollbar buffer gets partially deleted after pressing "Ctrl+L"	09:36:33

Logs

Build Logs

When building KDE for the first time it can be a little hard to see the problem.

If you use the tool [kdesrc-build](#) it will build to a log file directory.

Following the guide here - https://community.kde.org/Get_Involved/development

The Log directory will be at `~/kde/src/log/` and it will be timestamped.

KDE Bugsquad

The KDE Bugsquad keeps track of incoming bugs in KDE software, and goes through old bugs. They verify that a bug exists, whether it is reproducible, and that the reporter has given enough information. Their goal is to save developers from doing this, which helps them fix bugs more quickly and do more work on KDE software.

The screenshot shows the Phabricator web interface. On the left is a navigation sidebar with links to Home, Code Review, Mockups, Tasks, Repositories, Wiki, Projects, Calendar, More Applications, and Edit Menu. The main content area is divided into three sections:

- Welcome:** A message welcoming users to KDE's instance of Phabricator and providing a link to the KDE event page for hosting requirements.
- Recent Reviews:** A table listing recent code reviews. Each row includes a status icon (Open, Accepted, Closed), a bug ID, a title, reviewers, and the author with a timestamp.

Open	Accepted	Closed			
<>			D29282 QuickEditor: Allow to take screen region screenshot under Wayland	Mon, Jul 27, 5:19 PM	Author: meven
			Reviewers: Spectacle, davidedmundson, davidre, bport		
			D29871 Enable option to show hidden folders in sidebar, plus small sidebar code fixes (eg: scrollbar display)	Sat, Jul 25, 4:47 PM	Author: mrosch
			Reviewers: dfaure		
			D22074 Add image annotation via libKImageAnnotator	Fri, Jul 24, 3:12 PM	Author: nicolasfella
			Reviewers: Spectacle, dporobic, ngraham		
<>			D29444 (KDevelop/PHP) Implement Grouped namespaces	Thu, Jul 23, 6:03 PM	Author: hmitoneau
			Reviewers: No Reviewers		
			D18668 Add showFloatingMessage to the View Python API	Thu, Jul 16, 8:21 AM	Author: NMaghfarUsman
			Reviewers: Krita, rbreu, rempt		
<>			D22535 Make kimppanel a system tray applet	Wed, Jul 15, 6:14 PM	Author: guoyunhe
			Reviewers: ngraham, VDG, Plasma, xueltianweng		
			D29178 (dolphin) : Mac integration	Sun, Jul 12, 11:48 PM	Author: rjbb
			Reviewers: Dolphin, elvisangelaccio, feverfew		
			D13854 Refactor Profile and ColorScheme	Sat, Jul 11, 8:52 PM	Author: tcanabrava
			Reviewers: Knsola, hirshenburs		
- Recent Activity:** A feed of recent events, including bug updates, project additions, and comments.
 - paulmcquade is attending E686: Plasma 5.19.4.
 - PhilipB created T13454: T13078 Application Menu Mock up.
 - paulmcquade added a member for Bugsquad: paulmcquade.
 - manueljin added a project to T13451: Combine the best aspects from the various Breeze style proposals: VDG.
 - delkumar added a comment to T13128: Add multiple datasets to All operations memory game activity.
 - @timotheegiet @echarnuai Please review the multiple datasets description if its all good.
 - delkumar updated the task description for T13128: Add multiple datasets to All operations memory game activity.
 - abetts added a comment to T13442: Tweak the design of context menus.

Join the Bugsquad

To join the [Bugsquad](https://phabricator.kde.org/), become a member of our project on <https://phabricator.kde.org/>. We organize Bug Days, where we focus on a specific product, with the goal of reviewing all open bugs by the end of the day. These meetings occur primarily on [#kde-bugs](#).

Bugsquad Calendar

The following is a link to the Bugsquad Calendar:

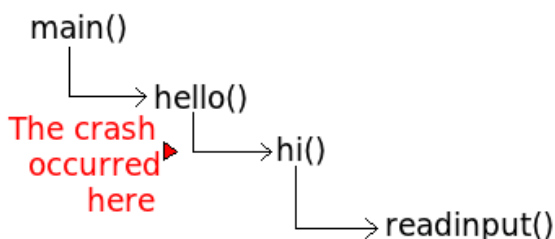
[Bugsquad Calendar](#)

Reading Backtraces

A backtrace (also called a stack trace or stack traceback) is a report of how the program has called different functions as it goes along. It is commonly used during interactive and post-mortem debugging. It can also be displayed to the user of a program as part of an error message, which a user can report to a programmer.

Each function puts a stack frame on the stack containing its arguments and other information it needs to run. The active stack frames reflect a certain point in time during the execution of a program. A stack trace allows you to track the sequence of nested functions called up to the point where the stack trace is generated. In a post-mortem scenario, the stack trace goes up to, and includes, the function where the failure occurred. Be aware, however, that the function where the failure occurred might not be responsible for the failure; an error could well have been embedded in a higher function (for instance, by passing an incorrect value to the function where the program failed).

The following figure illustrates a stack frame, where `main()` called `hello()`, which called `hi()`, which called `readinput()`. A stack trace is likely to work down from the last call to the first, so that `readinput()` might appear first.



Backtraces are essential. They may look meaningless to you, but they might actually contain a wealth of useful information. A backtrace describes which functions were called prior to the crash, so that developers may track down in which function the mess started. Exact memory addresses can also help locate problematic data, such as in a core dump (a file left behind when a program fails, containing the contents of live memory at the time of the failure). But producing good backtraces has a downside: libraries and executables occupy much more disk space than their optimized counter parts that can't provide the information to produce a backtrace.

A Backtrace looks like this:

```
Using host libthread_db library "/lib/libthread_db.so.1".
[Thread debugging using libthread_db enabled]
[New Thread -1232783168 (LWP 7604)]
[KCrash handler]
#6 0x0806be76 in TreeM apItem::parent (this=0x0)
at /home/bram/KDE/kde3/kdeaddons/konq-plugins/fsview/treemap.h:285
#7 0x08065fea in TreeM apItemList::compareItems (this=0xbfec04a8, item1=0x0,
item2=0x0)
at /home/bram/KDE/kde3/kdeaddons/konq-plugins/fsview/treemap.cpp:720
#8 0xb7281619 in Q G List::operator== () from /usr/qt/3/lib/libqt-mt.so.3
#9 0x0806d498 in Q PtrList<TreeM apItem>::operator== (this=0xbfec04a8,
list=@ 0xbfec0468) at /usr/qt/3/include/qptrlist.h:74
#10 0x08062e18 in TreeM apWidget::mousePressEvent (this=0xbfec03ac,
e=0xbfebff1c)
at /home/bram/KDE/kde3/kdeaddons/konq-plugins/fsview/treemap.cpp:1840
#11 0xb7004a63 in Q Widget::event () from /usr/qt/3/lib/libqt-mt.so.3
#12 0xb6f6bca7 in Q Application::internalNotify ()
from /usr/qt/3/lib/libqt-mt.so.3
#13 0xb6f6ca88 in Q Application::notify () from /usr/qt/3/lib/libqt-mt.so.3
32
#14 0xb7725a84 in KApplication::notify (this=0xbfec055c, receiver=0xbfec03ac,
event=0xbfebff1c)
at /home/bram/KDE/kde3/kdelibs/kdecore/kapplication.cpp:550
#15 0xb6f0bfd2 in Q ETWidget::translateMouseEvent ()
from /usr/qt/3/lib/libqt-mt.so.3
#16 0xb6f0b8b0 in Q Application::x11ProcessEvent ()
from /usr/qt/3/lib/libqt-mt.so.3
#17 0xb6f1b761 in Q EventLoop::processEvents () from /usr/qt/3/lib/libqt-mt.so.3
#18 0xb6f82831 in Q EventLoop::enterLoop () from /usr/qt/3/lib/libqt-mt.so.3
#19 0xb6f826b6 in Q EventLoop::exec () from /usr/qt/3/lib/libqt-mt.so.3
#20 0xb6f6b72f in Q Application::exec () from /usr/qt/3/lib/libqt-mt.so.3
#21 0x0805181e in main (argc=134673960, argv=0xffffffff)
at /home/bram/KDE/kde3/kdeaddons/konq-plugins/fsview/main.cpp:55
```

Appendix A: Getting Help

KDE IRC Channels

The main IRC Channels on Freenode are:

Table 2. Developer/Support Channels

Channels:
Developer
#kde - Main channel for users of KDE software
#kde-bugs - For KDE BugSquad
#kde-devel - For general KDE development
#kde-docs - Official KDE Documentation Project
#kde-quality - For KDE quality assurance
Project
#plasma - Plasma team
Support
#kde-chat - For Off-Topic discussions
#kde-i18n - Localization team
#kde-promo - Promotion and communication team
#kde-soc - The channel for Google Summer of Code and Code In students
#kde-vdg - KDE V Design Group channel
#kde-women - Women who use KDE software
#kde-www - The channel for discussion regarding the KDE community web sites

Table 3. Communities by Country

#kde-ar - KDE software in the Argentine
#kde-be - KDE software in Belgium
#kde-brasil - KDE software in Brazil
#kde-cn - KDE software for Chinese speakers
#kde-de - KDE software in Germany
#kde-el - KDE software in Greece
#kde-es - KDE software in Spain
#kde-fi - KDE software in Finland
#kde-fr - KDE software for French speakers
#kde-gl - KDE software for Galician speakers
#kde-in - KDE software in India
#kde-ir - KDE software in Iran
#kde-italia - Italian user support
#kde-latam - KDE software in Latin America
#kde-nl - KDE software in the Netherlands
#kde-pt - KDE software in Portugal
#kde.hu - KDE software for Hungarian speakers
#kde_ru - KDE software for Russian speakers
#kdehispano - KDE software for Spanish speakers
More IRC Channels found:
IRC_Channels

KDE Mailing Lists

The KDE mailing lists are one of the main communication channels in the KDE Community. This is a list of general mailing lists to give a quick overview. For application specific lists, please see the application's page. For a complete overview, see the full list of all mailing lists at:

[KDE Mailing Lists](#)

General User Lists

- kde - for KDE users with questions strictly about KDE applications ([subscribe kde](#), [archive of kde](#))
- kde-announce - announcements of new KDE releases, security announcements, and notification of new KDE applications (very low traffic) ([subscribe kde-announce](#), [archive of kde-announce](#))

General development lists

- kde-devel - for application developers (both applications in central KDE packages and contributed applications) ([subscribe kde-devel](#), [archive of kde-devel](#))

Project development lists

- Plasma - plasma-devel@kde.org

Appendix B: Fixing Bugs

KDE Bugtracking System

File a bug:

<https://bugs.kde.org/>

Search for bugs at:

<https://bugs.kde.org/query.cgi>

KDE Bugsquad

Search KDE Bugsquad for Comfirmed bugs:

<https://phabricator.kde.org/>

Become a member of the KDE Bugsquad at:

<https://phabricator.kde.org/project/update/290/join/>

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