



# How I use KDE software to Survive

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# A bit of history about me as a KDE contributor

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**So... how and when do I use  
KDE software**



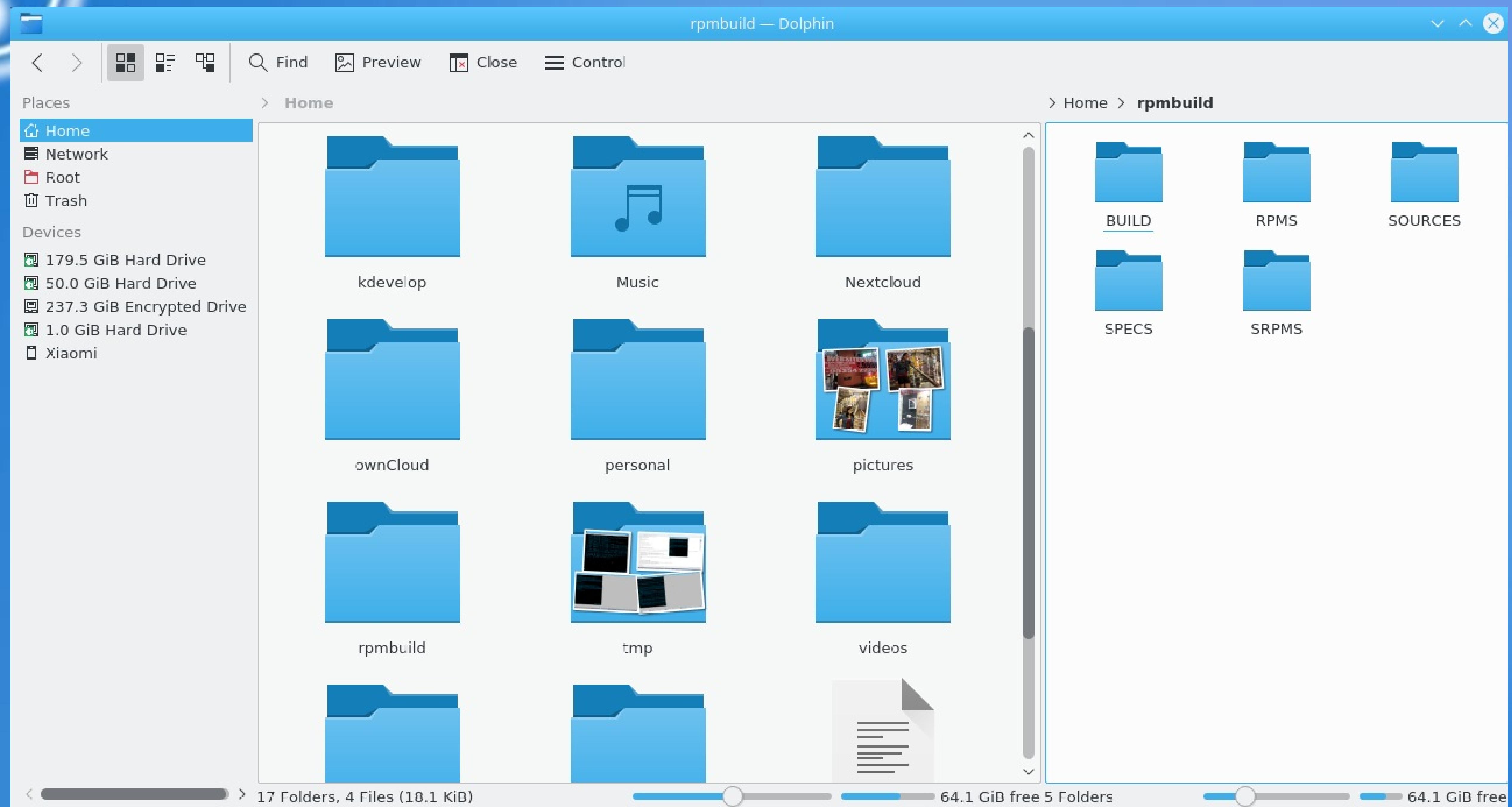


# Browsing & viewing files



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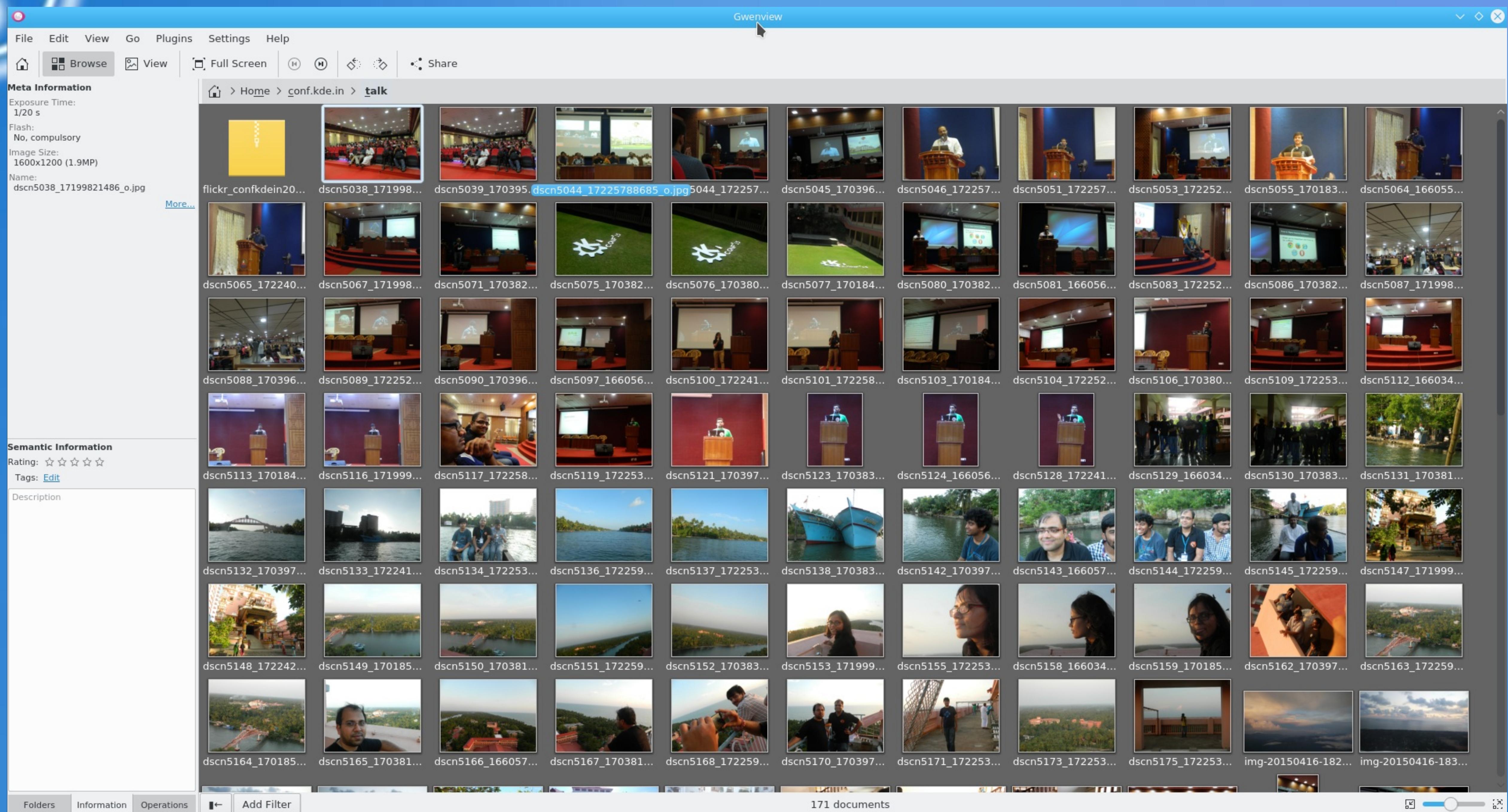
# Dolphin - File Manager



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# Gwenview - Image Viewer



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# Okular - Document Viewer

The screenshot shows the Okular Document Viewer interface. The title bar reads "How To Write Shared Libraries – Okular". The menu bar includes File, Edit, View, Go, Bookmarks, Tools, Settings, and Help. The toolbar contains buttons for Previous, Next, Fit Width, Zoom Out, Zoom In, Browse, Zoom, and Selection.

The left sidebar features a Contents tree view with sections like "Contents", "Thumbnails", "Reviews", and "Bookmarks". The "Contents" section displays a table of contents for the document:

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The main content area displays the document's title, author, and date:

## How To Write Shared Libraries

Ulrich Drepper  
drepper@gmail.com

December 10, 2011

### Abstract

Today, shared libraries are ubiquitous. Developers use them for multiple reasons and create them just as they would create application code. This is a problem, though, since on many platforms some additional techniques must be applied even to generate decent code. Even more knowledge is needed to generate optimized code. This paper introduces the required rules and techniques. In addition, it introduces the concept of ABI (Application Binary Interface) stability and shows how to manage it.

## 1 Preface

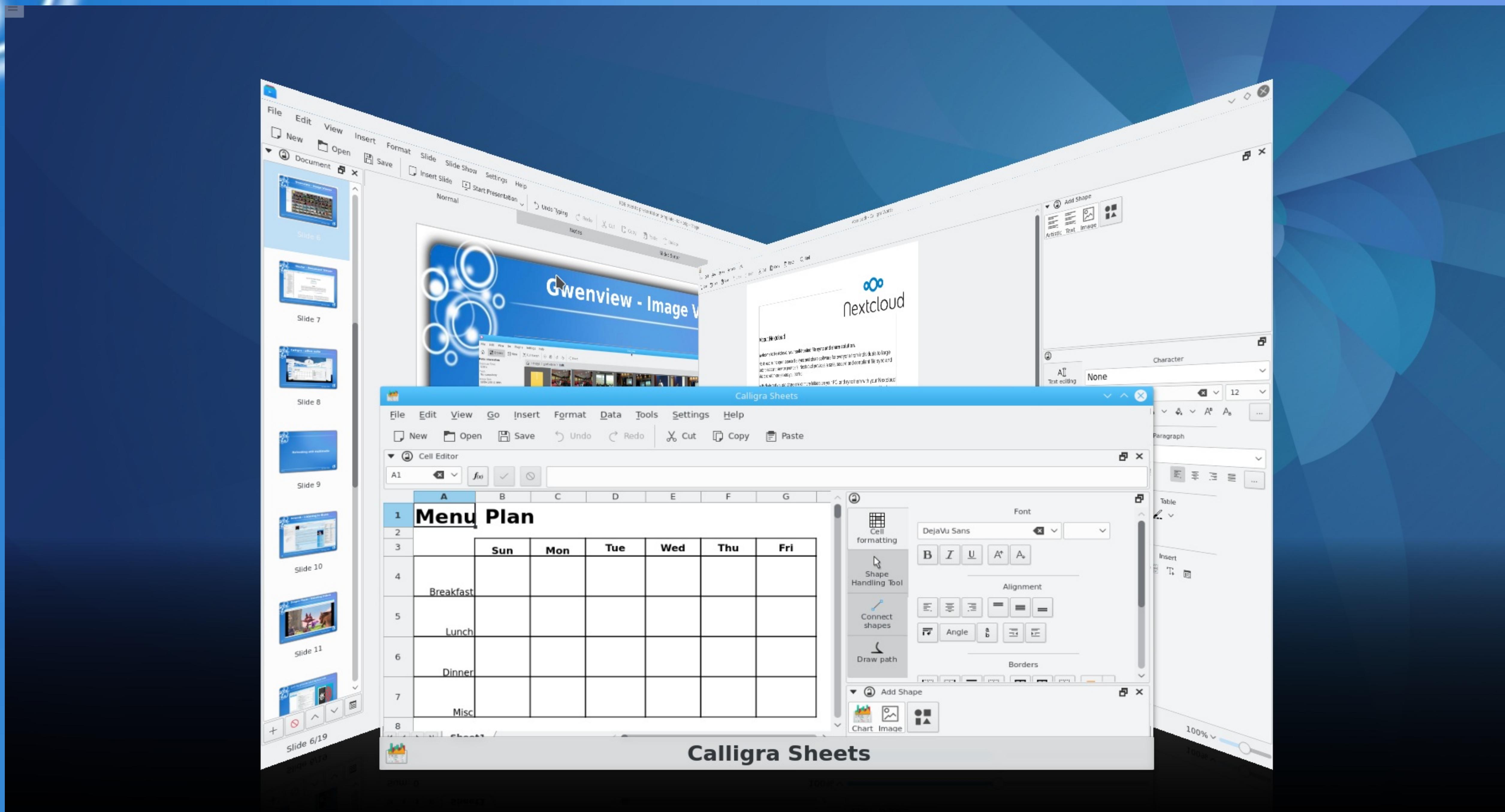
### 1.1 A Little Bit of History

For a long time, programmers collected commonly used code in libraries so that code could be reused. This saves development time and reduces errors since reused code only has to be debugged once. With systems running dozens or hundreds of processes at the same time, reusing code becomes a necessity. The binary format used initially for Linux was an `a.out` variant. When introducing shared libraries certain design decisions had to be made to work in the limitations of `a.out`. The main accepted limitation was that no *relocations* are performed at the time of loading and afterward.

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# Calligra - Office Suite



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# Refreshing with multimedia

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# Amarok - Listening to Music

Bryan Adams - Summer Of '69 :: Amarok

Amarok View Playlist Tools Settings Help

Traveller 1:51

Bryan Adams: The Best of Me

-1:40 Summer Of '69

Local Music

Search collection

Album Artist / Year - Album

Local Collection 38 tracks

Various Artists  
A. R. Rahman  
Aperture Science Psychoacoustic Laboratories  
Backstreet Boys  
blkrbt  
Bryan Adams  
Cartoon Band  
Cirrus  
Coldplay

Summer Of '69  
By Bryan Adams  
On Bryan Adams: The Best of Me

Play Count Score Last Played

0 0 Never

5 stars

Bryan Adams - Wikipedia

This article is about the Canadian singer-songwriter and photographer. For other uses, see [Bryan Adams \(disambiguation\)](#).

**Bryan Guy Adams, OC OBC** (born 5 November 1959)<sup>[1]</sup> is a Canadian singer, songwriter, record producer, guitarist, photographer, philanthropist and activist.

Adams rose to fame in North America with his 1983 album *Cuts Like a Knife* and turned into a global star with his 1984 album *Reckless* which produced some of his best known songs including "Run to You" and "Summer of '69".<sup>[2]</sup> In 1991, he released "(Everything I Do) I Do It for You" from the album *Waking Up the Neighbours* and the song became a worldwide hit which went to number 1 in many countries, including 16 consecutive weeks in the United Kingdom, a new record. Adams also had the U.S. *Billboard* Hot 100 number-one singles "Heaven", "All for Love" and "Have You Ever Really Loved a Woman?"<sup>[3]</sup>

For his contributions to music, Adams has garnered many awards and nominations, including 20 Juno Awards among 56 nominations, 15 Grammy Award nominations including a win for Best Song Written Specifically for a Motion Picture or Television in 1992. He has also won MTV, ASCAP, American Music awards, three Ivor Novello Awards for song composition and has been nominated five times for Golden Globe Awards and three times for Academy Awards for his songwriting for films.

Adams was awarded the Order of Canada and the Order of British Columbia for contributions to popular music and philanthropic work via his own foundation, which helps improve education for people around the world.<sup>[4][5]</sup>

Adams was inducted into the Hollywood Walk of Fame in March 2011 and Canada's Walk of Fame, Canadian Broadcast Hall of Fame in 1998.<sup>[6][7]</sup> and in April 2006 he was inducted into the Canadian Music Hall of Fame at Canada's Juno Awards.<sup>[8]</sup> Adams has sold over 100 million records worldwide, making him one of the best-selling music artists of all time. In 2008, Adams was ranked 38th on the list of All-Time top artists in the *Billboard* Hot 100 50th Anniversary Charts.<sup>[9]</sup> On 13 January 2010, he received the Allan Waters Humanitarian Award for his part in numerous charitable concerts and campaigns during his career,<sup>[10]</sup> and on 1 May 2010 was given the Governor General's Performing Arts Award for his 30 years of contributions to the arts.<sup>[11]</sup>

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- 1 Life and career
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  - 1.2 Early career
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  - 1.4 1990s
  - 1.5 2000s
  - 1.6 2010s
- 2 Activism and humanitarian work
  - 2.1 Humanitarian work
  - 2.2 Animal rights activism
- 3 Photography

Bryan Adams OC OBC

Adams performing in Hamburg, 2007

Born Bryan Guy Adams (1959-11-05) 5 November 1959 (age 57) Kingston, Ontario, Canada

Occupation Singer, songwriter, record producer, guitarist, photographer, philanthropist, activist

Years active 1975–present

Musical career

Genres Rock

Instruments Vocals, guitar, bass guitar, harmonica, piano

Labels Polydor, Universal

Website bryanadams.com

Notable instruments

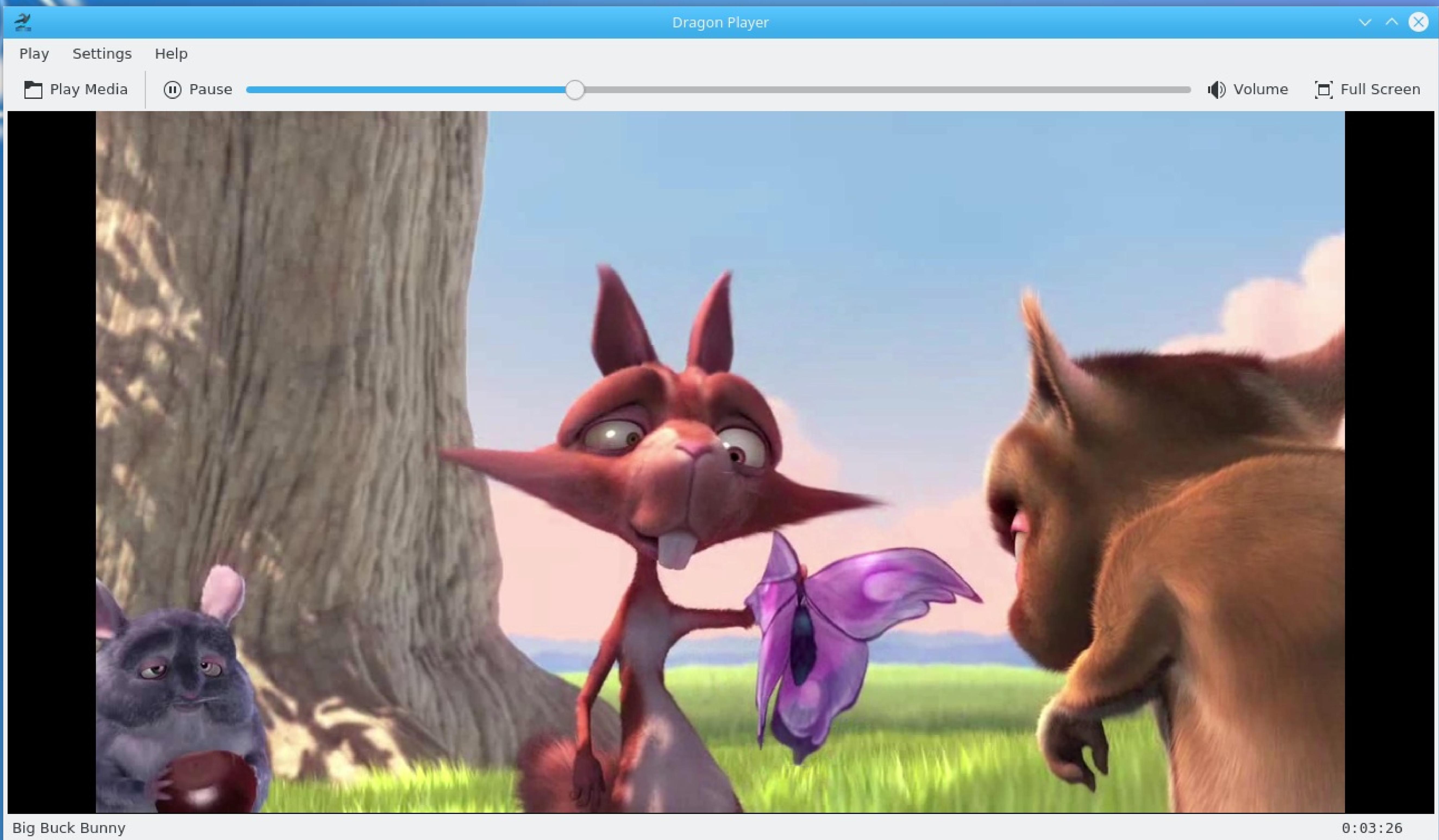
Current Track Wikipedia Lyrics

38 tracks (2:50:40)

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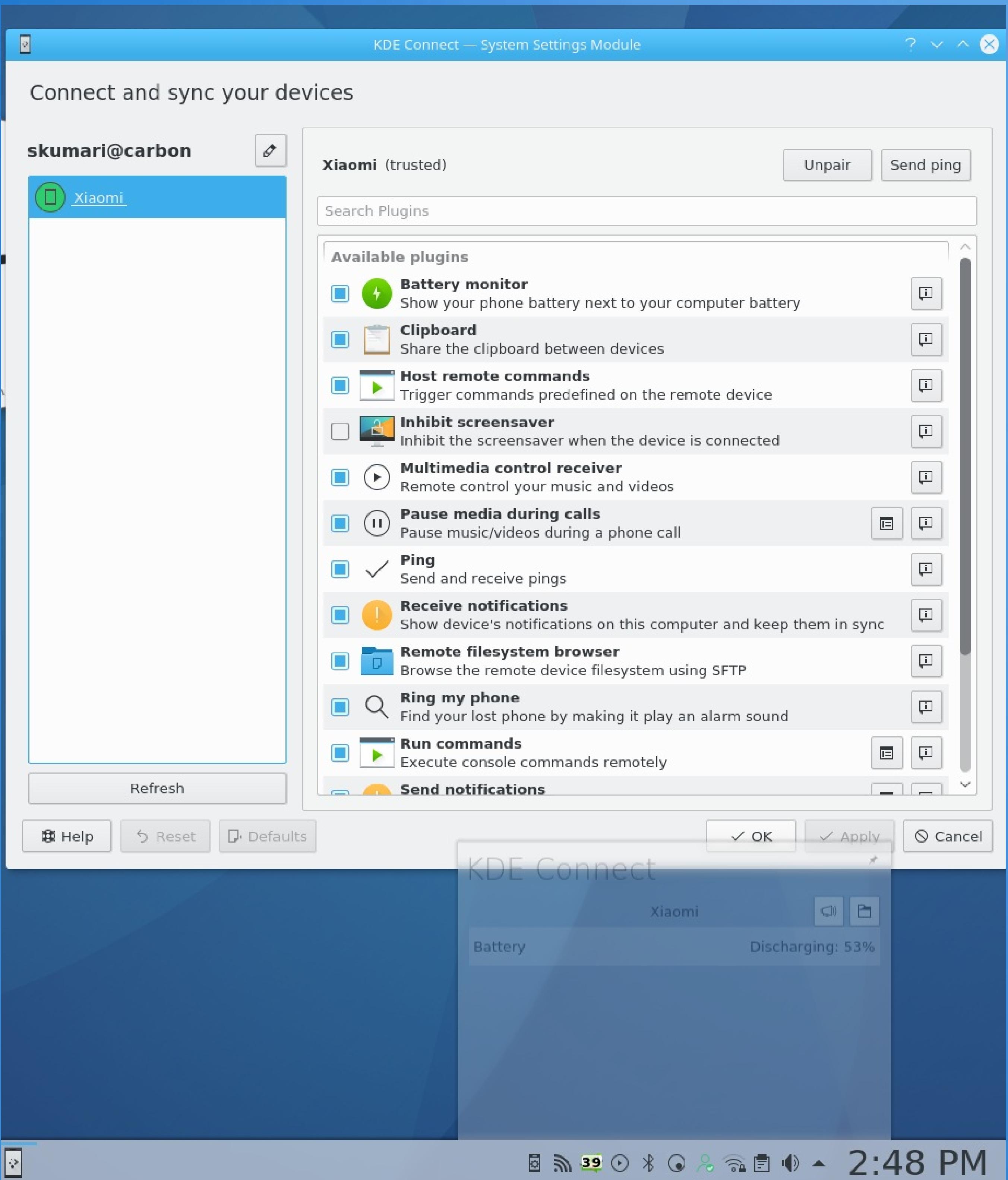
# Dragon Player - Watching Videos



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# Let my phone and laptop talk



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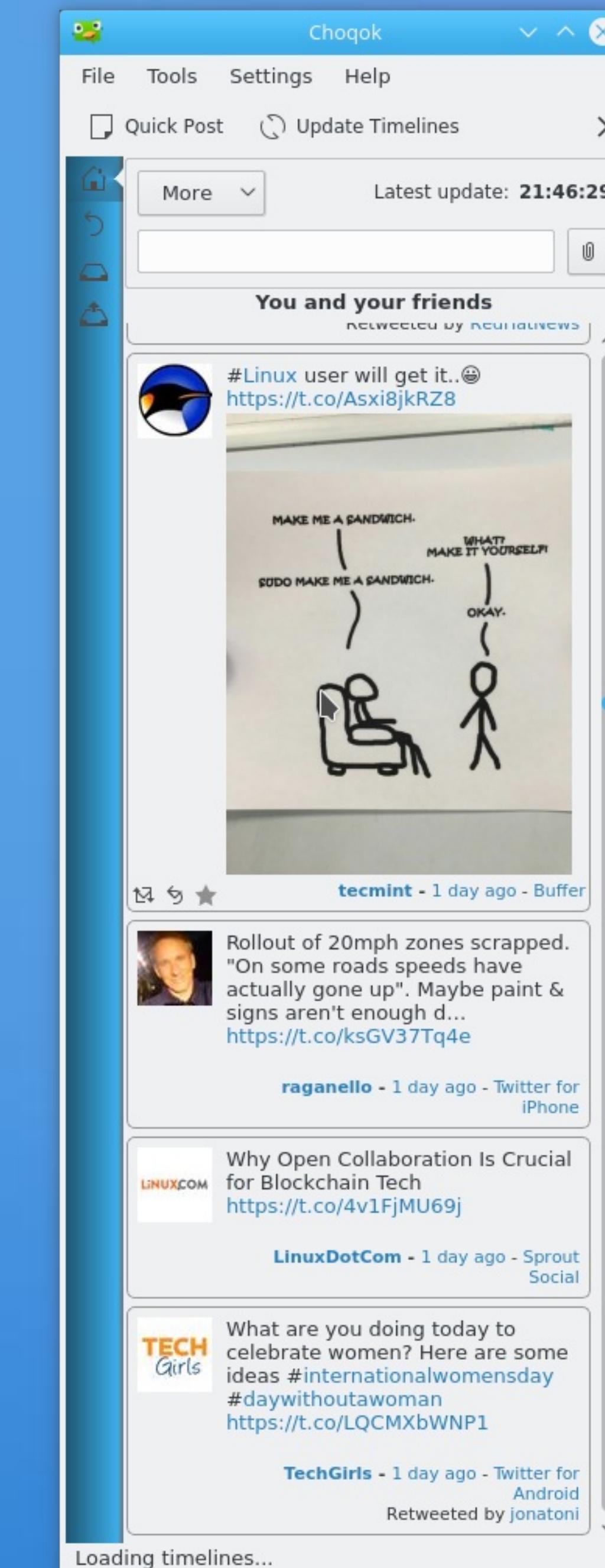
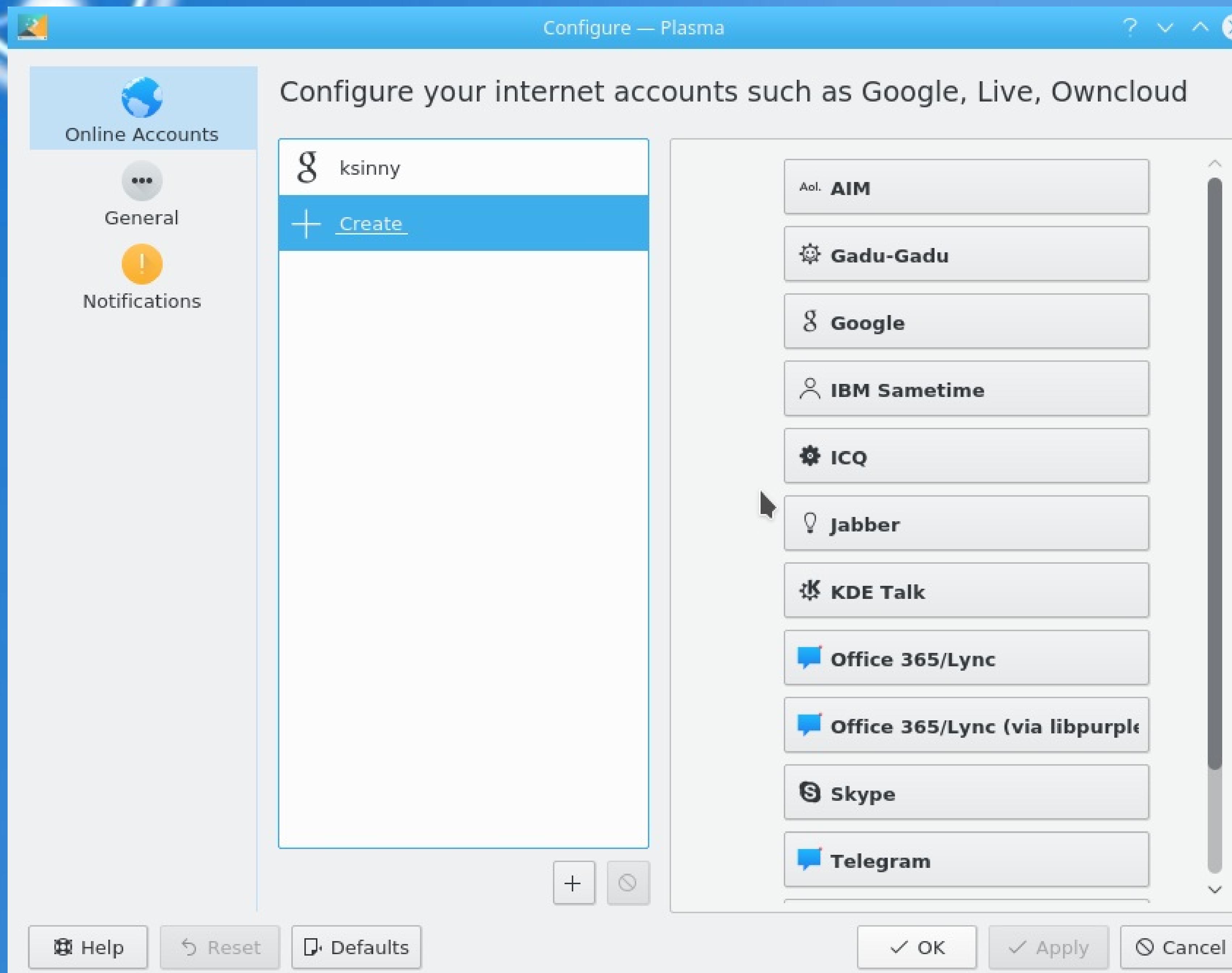
# What's happening around the world

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# Instant messaging & Choqok



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# Akregator - Getting news feeds

S

Akregator

File Edit View Go Feed Article Settings Help

Fetch Feed Fetch All Feeds Cancel Feed Fetches Mark Feed as Read

Feeds

All Feeds (24)

- Red Hat (1)
  - RHD Blog (1)
- linux (17)
  - Phoronix (7)
  - Linux.com (10)
- Fedora (5)
  - F Fedora Quality Planet
  - F Planet Fedora (5)
- KDE (1)
  - K KDE Dot News
  - K Planet KDE (1)

Search articles...

Title	Author	Date
Stay with Free Software, City of Munich!	nightrose	2/14/17 9:00 PM
Beautiful New Design on kde.org	jridzell	2/11/17 2:55 PM
Beautiful New Design on kde.org	jridzell	2/10/17 4:39 PM
Plasma 5.9 Kicks off 2017 in Style	jridzell	1/31/17 6:01 PM
KDE and Slimbook Release a Laptop for KDE Fans	thomaspfie...	1/26/17 6:45 AM
Meet KDE at FOSDEM Next Month	jridzell	1/17/17 4:29 AM
KDE releases Kirigami UI 2.0	thomaspfie...	1/13/17 12:54 AM
KDE Plasma 5.9 Beta Kicks off 2017 in Style	jridzell	1/12/17 10:14 PM
Conf.kde.in 2017	bshah	1/12/17 10:54 AM
KDE releases beta of Kirigami UI 2.0	thomaspfie...	1/2/17 7:16 PM
Randa Meetings Team Announces Community Partnership with KDE e.V.	valoriez	12/28/16 11:18...
Plasma Meets Nextcloud	jospoortvliet	12/13/16 6:35 AM

Conf.kde.in 2017  
Date: 1/12/17 10:54 AM  
Author: bshah

Carrying on the successful tradition of conf.kde.in since 2011, we are moving to the north-east region of India for this year's conf.kde.in. Join us for conf.kde.in 2017 on 10, 11, and 12 March at Guwahati in Assam, India. conf.kde.in 2017 will focus on the promoting Free and Open source including but not limited to Qt and KDE software.

### The Venue

Event will be held at IIT Guwahati, Assam. IIT Guwahati is the sixth Indian Institute of Technology established in the India by the Government of India. Indian Institute of Technology Guwahati's campus is on a sprawling 285 hectares of land on the north bank of the river Brahmaputra around 20 km from the heart of the city. With the majestic Brahmaputra on one side, and with hills and vast open spaces on the other, the campus provides an ideal setting for learning.



IIT Guwahati

### About conf.kde.in

conf.kde.in started in 2011 at RVCE in Bangalore as a 5 day event with 300 participants, initiating a series of such KDE events in India. There was a KDE Meetup in 2013 and conf.kde.in 2014 at DA-IICT, in 2015 at Amrita university, Kerala, in 2016 at LNMIIT Jaipur, which brought in members of the KDE Community from all over the world to attend the event, give talks, and share the spirit of KDE. The 2017 conference will cater to new members of KDE as well as seasoned developers, providing updates about what is going on in the KDE Community and teaching newcomers how to start making meaningful contributions. These events have been successful in attracting a lot of Indian students to mentoring programs such as Google Summer of Code (GSoC), Season of KDE and Google Code-In.

This year, the conf.kde.in 2017 organizers intend to generate even more interest and participation by creating a fertile environment for people to get started with KDE, Qt and FOSS through numerous talks, hands-

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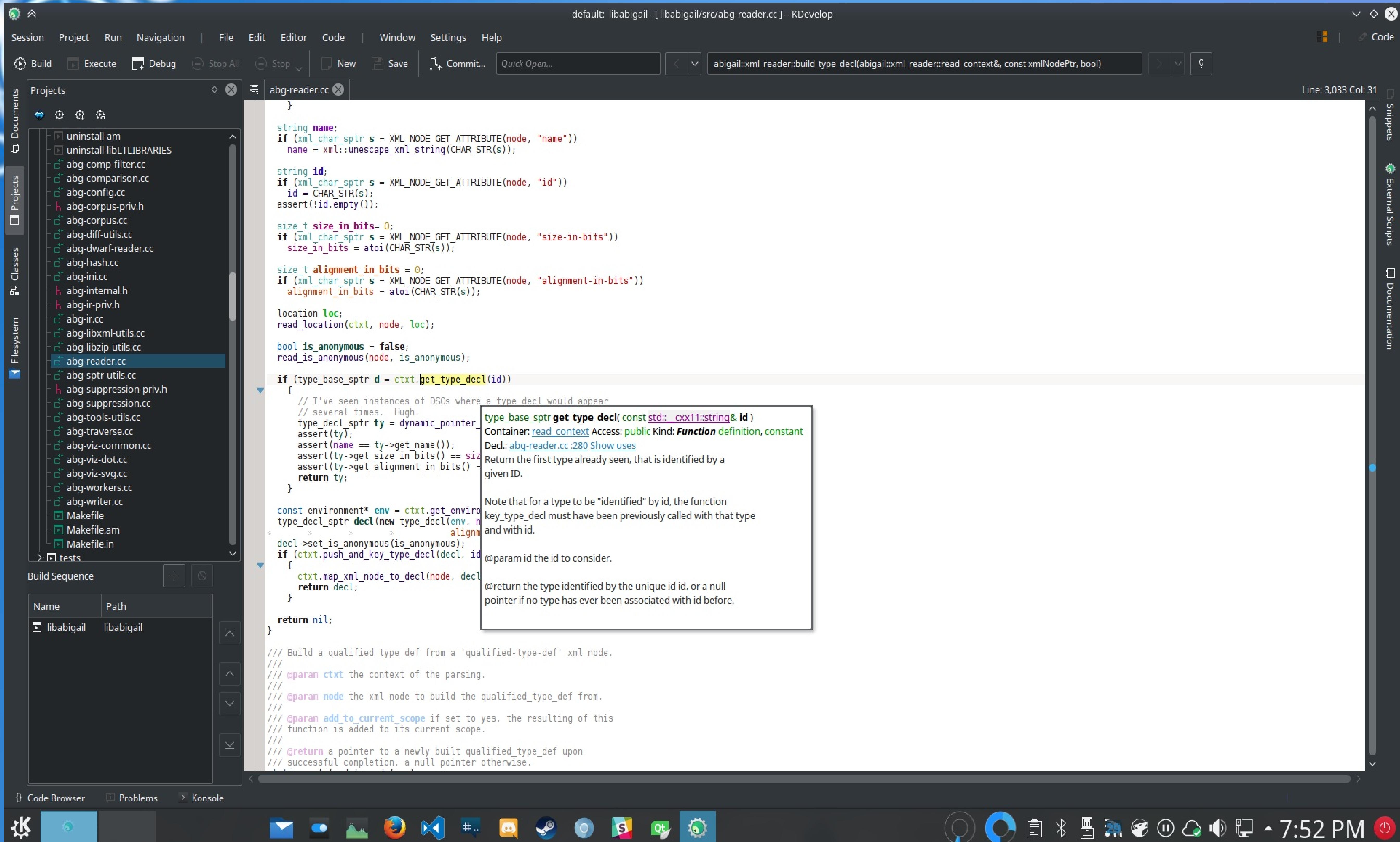
# While working on projects

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# Kdevelop - Writing Code



The screenshot shows the KDevelop IDE interface. The main window displays the file `abg-reader.cc` with the following code snippet:

```
        }
        string name;
        if (xml_char_ptr s = XML_NODE_GET_ATTRIBUTE(node, "name"))
            name = xml::unescape_xml_string(CHAR_STR(s));

        string id;
        if (xml_char_ptr s = XML_NODE_GET_ATTRIBUTE(node, "id"))
            id = CHAR_STR(s);
        assert(!id.empty());

        size_t size_in_bits= 0;
        if (xml_char_ptr s = XML_NODE_GET_ATTRIBUTE(node, "size-in-bits"))
            size_in_bits = atoi(CHAR_STR(s));

        size_t alignment_in_bits = 0;
        if (xml_char_ptr s = XML_NODE_GET_ATTRIBUTE(node, "alignment-in-bits"))
            alignment_in_bits = atoi(CHAR_STR(s));

        location loc;
        read_location(ctxt, node, loc);

        bool is_anonymous = false;
        read_is_anonymous(node, is_anonymous);

        if (type_base_ptr d = ctxt.get_type_decl(id))
        {
            // I've seen instances of DSOs where a type decl would appear
            // several times.  Hugh.
            type_decl_ptr ty = dynamic_pointer<type_decl>{&d};
            assert(ty);
            assert(name == ty->get_name());
            assert(ty->get_size_in_bits() == size_in_bits);
            assert(ty->get_alignment_in_bits() == alignment_in_bits);
            return ty;
        }

        const environment* env = ctxt.get_environment();
        type_decl_ptr decl(new type_decl(env, name, id, alignment_in_bits));
        decl->set_is_anonymous(is_anonymous);
        if (ctxt.push_and_key_type_decl(decl, id))
        {
            ctxt.map_xml_node_to_decl(node, decl);
            return decl;
        }

        return nil;
    }

    /// Build a qualified_type_def from a 'qualified-type-def' xml node.
    /// @param ctxt the context of the parsing.
    /// @param node the xml node to build the qualified_type_def from.
    /// @param add_to_current_scope if set to yes, the resulting of this
    /// function is added to its current scope.
    /// @return a pointer to a newly built qualified_type_def upon
    /// successful completion, a null pointer otherwise.
    qualified_type_def* build_qualified_type_def(xml_node_ptr node, bool add_to_current_scope)
```

A tooltip is displayed over the line `type_base_ptr get_type_decl(const std::cxx11::string& id)`, providing documentation for the function:

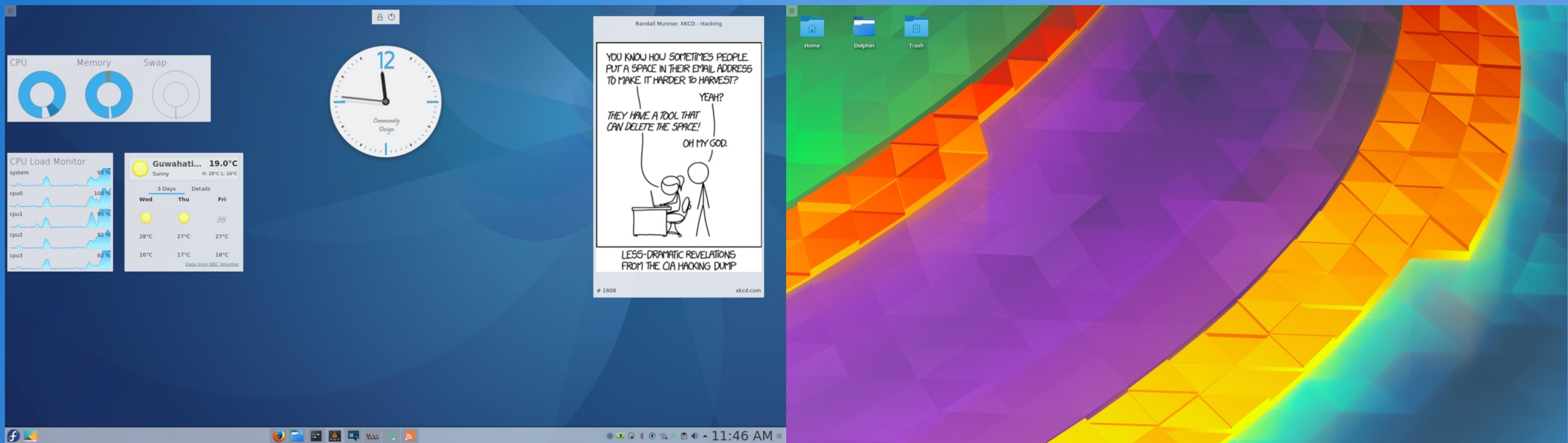
`type_base_ptr get_type_decl(const std::cxx11::string& id)`  
Container: `read_context` Access: `public` Kind: `Function definition, constant`  
Decl: `abg-reader.cc:280 Show uses`  
Return the first type already seen, that is identified by a given ID.

Note that for a type to be "identified" by id, the function `key_type_decl` must have been previously called with that type and with id.

The KDevelop interface includes a Projects panel on the left showing the project structure, a Build Sequence panel, and a status bar at the bottom with system icons and the time (7:52 PM).

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# Kscreen - Working on Multiple Monitors



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# Summary

- Install KDE desktop if you haven't done yet!
  - ✓ Get it from any distributions like Fedora, Kubuntu, OpenSUSE, CentOS
- Try to use it and enjoy the cool and fancy features it provides
- Goto software center and install other KDE software which you might be interested like krita, digikam, kstars, kdevelop, etc
- If you feel something is missing or found some bugs, file a bug or even talk to respective project mantainer(s) saying that you want to fix it!
- Encourage your neighbours/friends to use cool KDE software
- Here you go, now you are a KDE user/contributor/developer :)





Thanks!  
<http://sinny.io/>

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