

# Interns' Lightning Talks

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# GNOME Keysigning

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A tool for signing OpenPGP keys

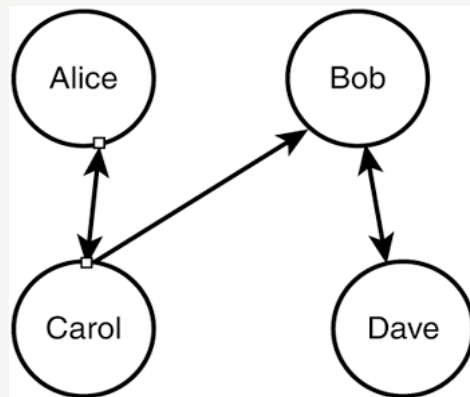
Andrei Macavei

Mentor: Tobias Mueller

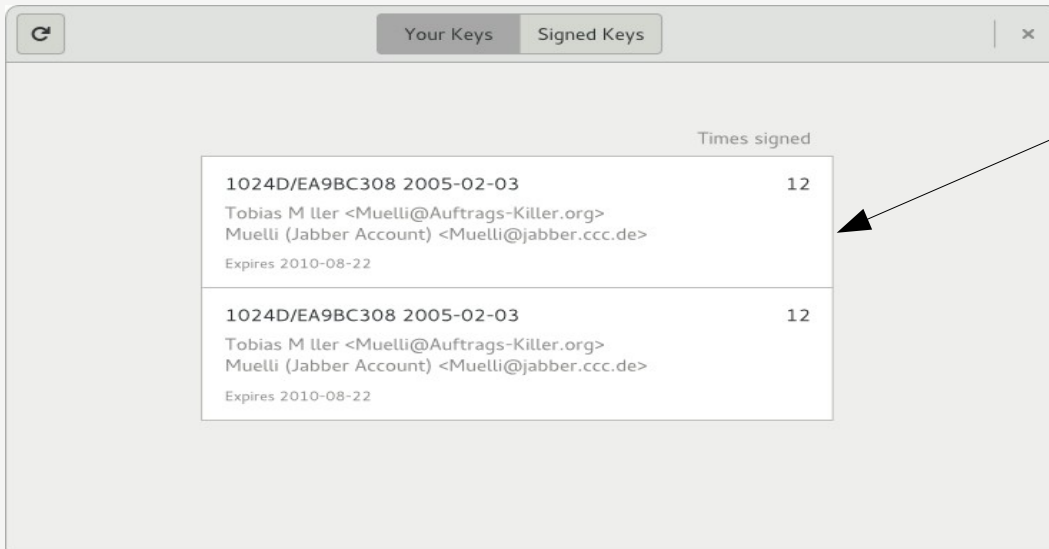


# Keysigning Parties

- Most secure way of exchanging keys - face-to-face
- Extending the Web of Trust : a decentralised trust model that doesn't use a certificate authority authority



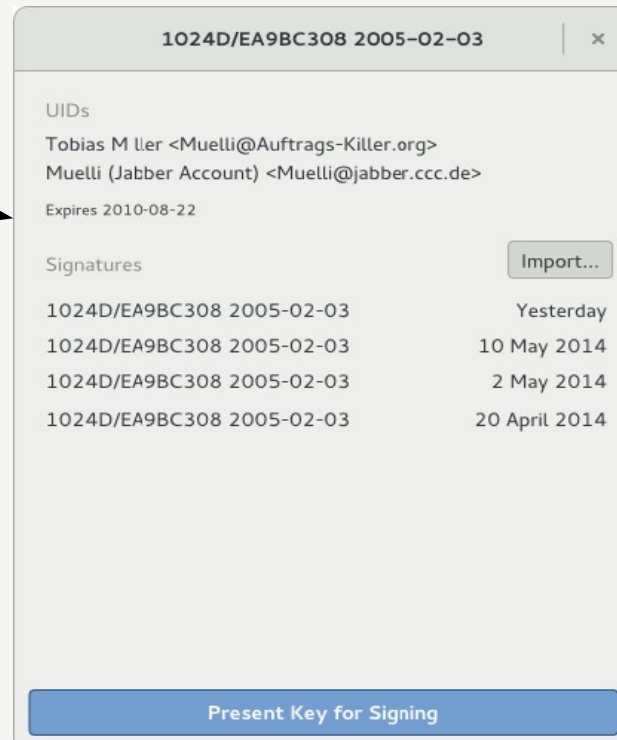
- **Drawback of Keysigning Parties :**
  - many steps involved to sign a key
  - it can last a few hours
  - not 100% sure your key will get signed after
- **Solution – GNOME Keysigning:**
  - provides a faster way of exchanging keys (through device' camera and secured local network)
  - automates the process of signing a key in a PGP standard



User's own keys to get signed.

Key about to be signed by someone else (copy fingerprint or scan its QR code)

Details for a selected key (uids, expiration date, signatures)



# GNOME Keysigning development

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- GTK+3 and Python: <http://python-gtk-3-tutorial.readthedocs.org/en/latest/>
- GStreamer – webcam integration
- DNS-SD support – DBus, avahi
- QR code
- GnuPG wrapper (monkeysign.gpg package): <http://web.monkeysphere.info/>

Project repository: <https://github.com/andreimacavei/geysigning>





"Your voice is always heard" -- NSA



## GNOME Boxes

Allow running multiple boxes,  
each in its own window

Adrien Plazas (Kekun)

Mentored by Christophe Fergeau (teuf)

Google Summer of Code 2014



# Getting started

Two main goals:

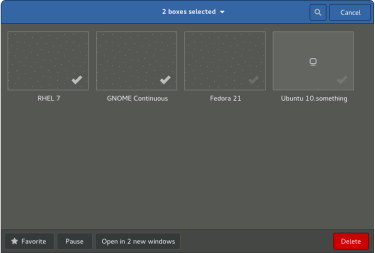
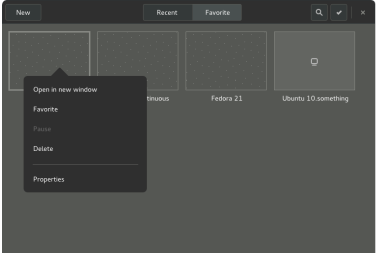
- ▶ running multiple boxes, each in its own window
- ▶ having multiple displays per machine

First weeks:

- ▶ getting customized to Boxes' code
- ▶ testing the different ideas

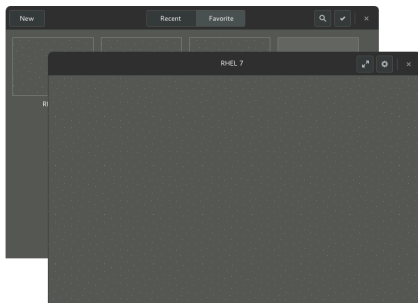
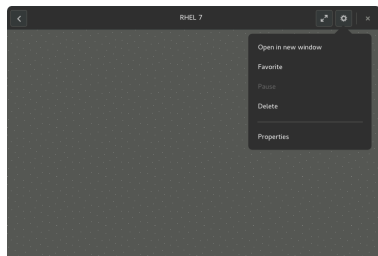
# Mockup I

We decided on running multiple boxes as the main goal  
Here are mockups by Jakub Steiner (jimmac)



# Mockup II

The main window have access to the boxes collection  
Close it and another window (if any) will become the main one



# Getting the hands dirty

**Problem** Usage of a window singleton

Multiple refactoring designs have been tested

**Solution** We choosed the design that stick the most to the actual one

Patches are being reviewed by Lasse Schuirmann (sils) and Zeeshan Ali (zeenix)

**To come** Actually implementing the mockup

# Boxes

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Hardening Sprint,  
Express Installation Improvements  
and ISO Downloading

Lasse Schuirmann

Mentor: Zeeshan Ali Khattak

# Hardening Sprint

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- Bugfixing
- Bugfiling
- Triaging
- Code Review



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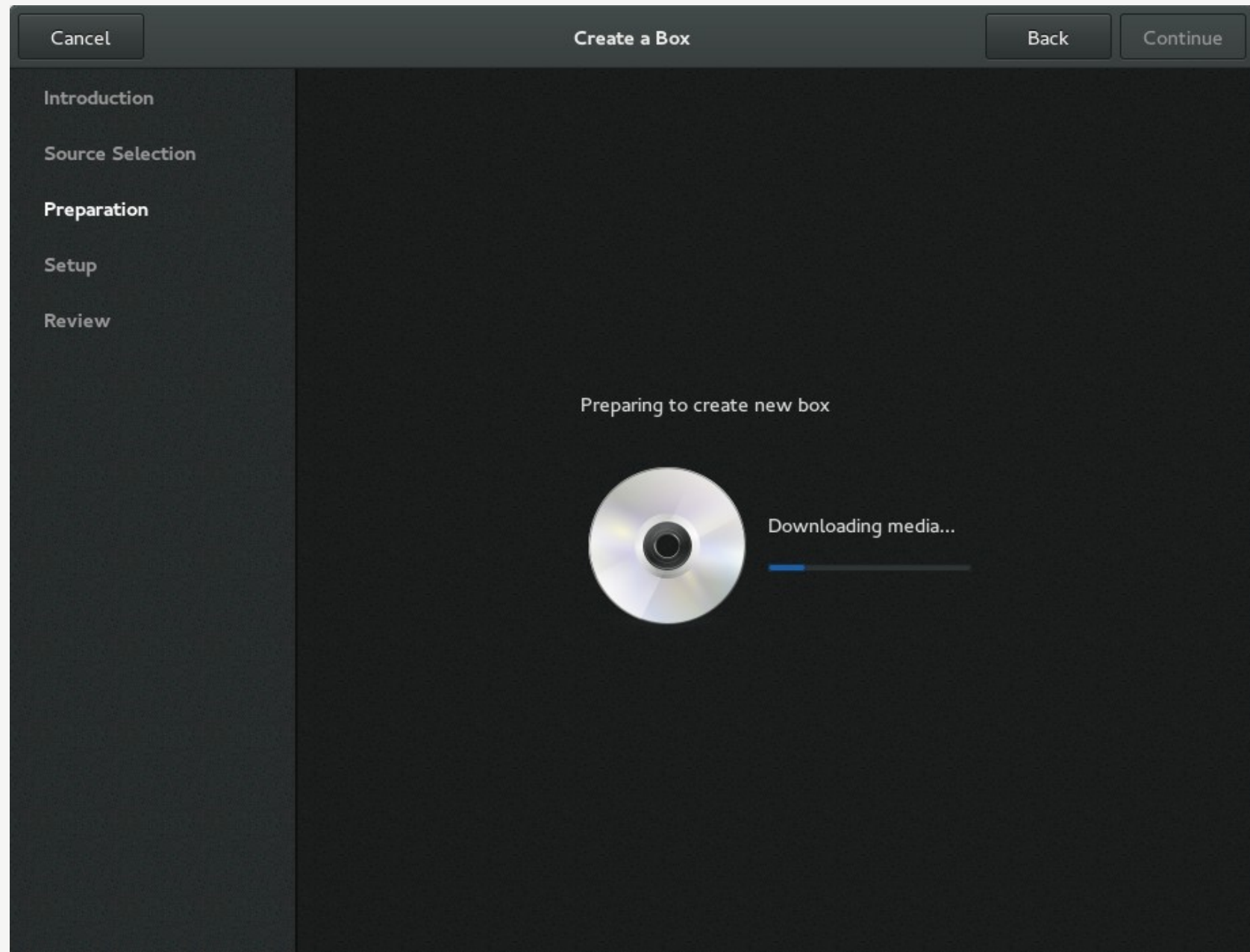


# Express Installation



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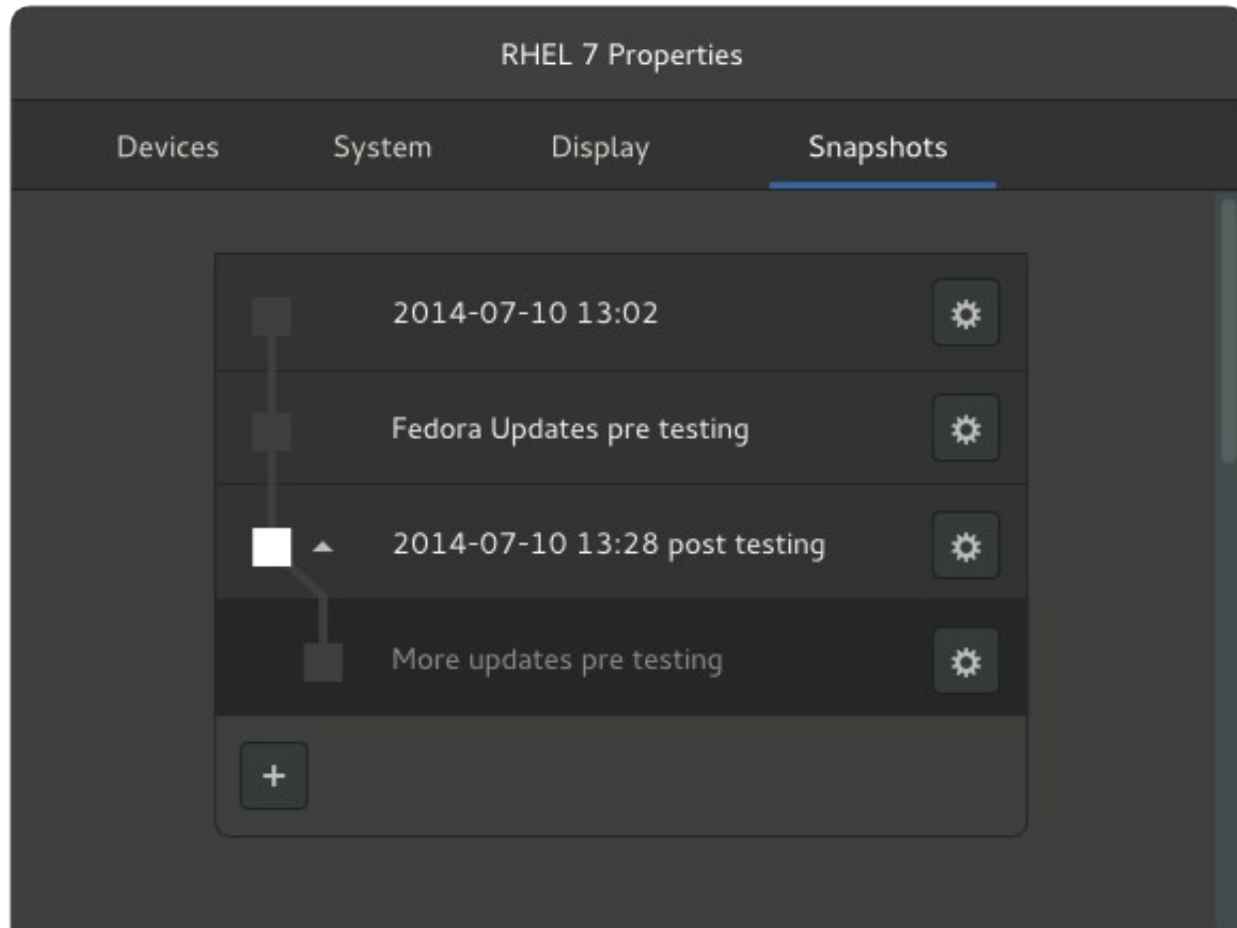




# Snapshots in Boxes

- Saves system state of a Virtual Machine (HDD, RAM, everything)
- Savegame for your VMs, in case you screw up

# Designs



# Current status

archlinux-2014 - Properties

Snapshots: 1

2014-07-22T22:44:25+0200	⚙
2014-07-22T22:44:26+0200	
2014-07-22T22:44:27+0200	⚙
2014-07-22T22:44:28+0200	⚙
2014-07-22T22:44:29+0200	⚙
2014-07-22T22:44:35+0200	⚙
2014-07-22T22:44:36+0200	⚙
2014-07-22T22:44:39+0200	⚙

Revert to this state  
Rename  
Delete

archlinux.  
Linux 3.16.0-1-ARCH

CPU: I/O: Net: Force Shutdown

# To Do

- Progress indication for various actions
- Automatic snapshots (e.g. after an unattended OS installation)
- Better error handling
- Functionality: Renaming(, dead ends)

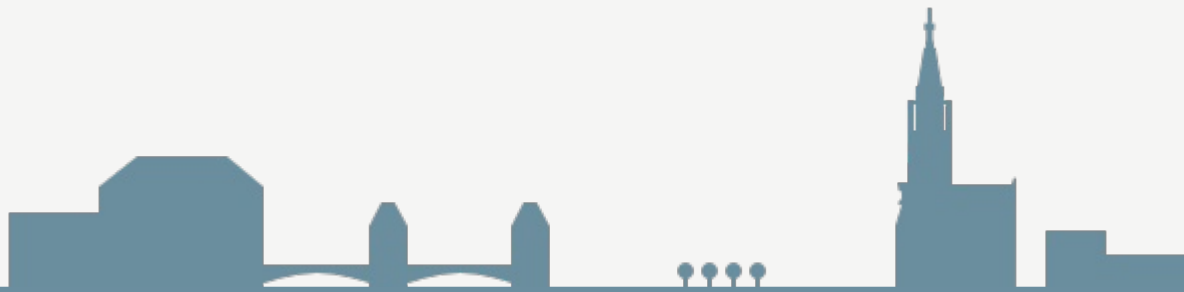
# Automated tests for applications

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## Automated tests for applications in GnomeContinuous

Martin Simon

Mentor: Vladimir Benes



# Project highlights

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- Dogtail & Behave
  - Steps and Scenarios
- Cover as much applications as possible
  - Priority list
- General tests – easy future maintenance
  - Common steps

# Results (so far)

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- **4** applications covered (some of them partially)
  - nautilus, gnome-software, gnome-clocks, gedit
- **78** test scenarios (test cases) total
- **7** bugs reported

# Automated tests for applications in GnomeContinuous

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Shivani Poddar

Mentor: Vitezslav Humpa





# Tests for gnome-weather & Evince

```
spoddar@localhost:~/gnome-weather
File Edit View Search Terminal Help

Weather
New ✓

... appears to be hung.
... appears to be hung.
... appears to be hung.
... 65 2.229s
... appears to be hung.
... 46 1.020s
... appears to be hung.
... 06 11.011s
... appears to be hung.

* Start Weather via menu # behave_common_steps.py:265 12.178s
abrt has detected a crash: types.py:113:function:gi._glib.GError: The process appears to be hung.
* Click "Quit" in GApplication menu # behave_common_steps.py:287 0.000s
abrt has detected a crash: types.py:113:function:gi._glib.GError: The process appears to be hung.
Then Weather shouldn't be running anymore # behave_common_steps.py:306
□
```

# Components to be covered

## P1

These applications are most important to cover with automated tests and should be automated at first. P1's are mostly new and core applications.

Application	Tester
evolution	<a href="#">Vadim Rutkovsky</a>
gnome-control-center	
gnome-software	<a href="#">Martin Simon</a>
gnome-weather	<a href="#">Shivani Poddar</a>
nautilus	<a href="#">Martin Simon</a>

## P2

As soon as P1 applications are covered with automated tests, P2 applications are the next.

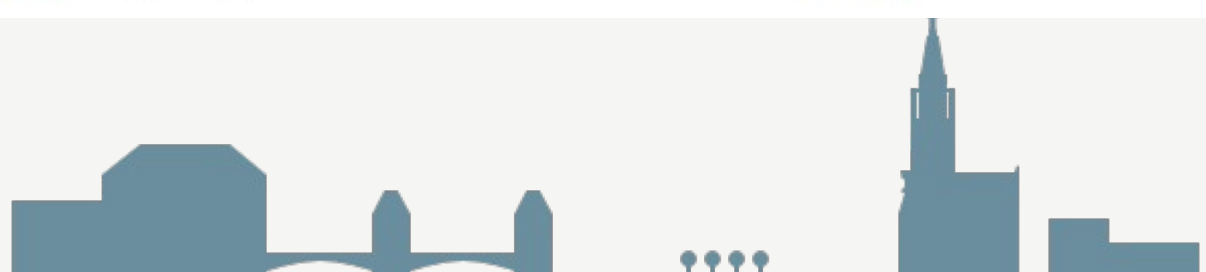
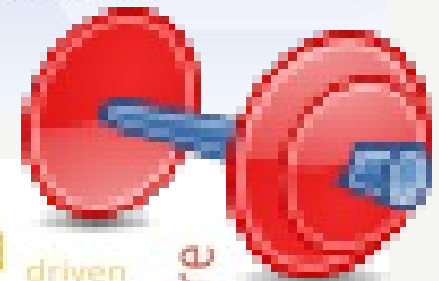
Application	Tester
empathy	
evince	<a href="#">Shivani Poddar</a>
gedit	<a href="#">Martin Simon</a>
gnome-contacts	
gnome-documents	
gnome-photos	
totem	

# Tools Used



## AT-SPI Browser

Browse your Assistive Technology-enabled desktop



Thank You :)



# Gnome shell animations

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Carlos Soriano Sánchez

Mentor: Florian Müllner



# Current state

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- Overview <--> apps, fade
  - No user feedback
- Desktop <--> apps, mix fade-zoom
  - Windows appear from nowhere
  - Overlap of zoom & fade animation

# Work to do

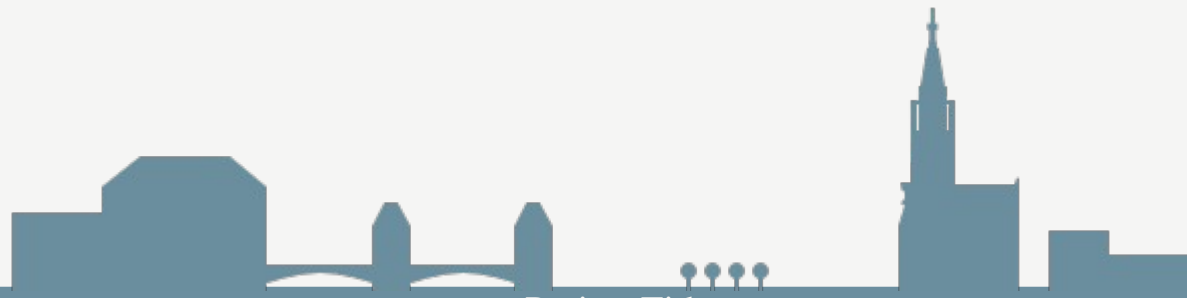
---

- Overview <--> apps
  - Swarm animation
    - Easy to make prototype
    - Medium difficulty to not trick Clutter even more
- Desktop <--> apps
  - Fade
    - Medium difficulty given current code design
- Clean up and bug fixing





Thank you!



# Evince: annotations

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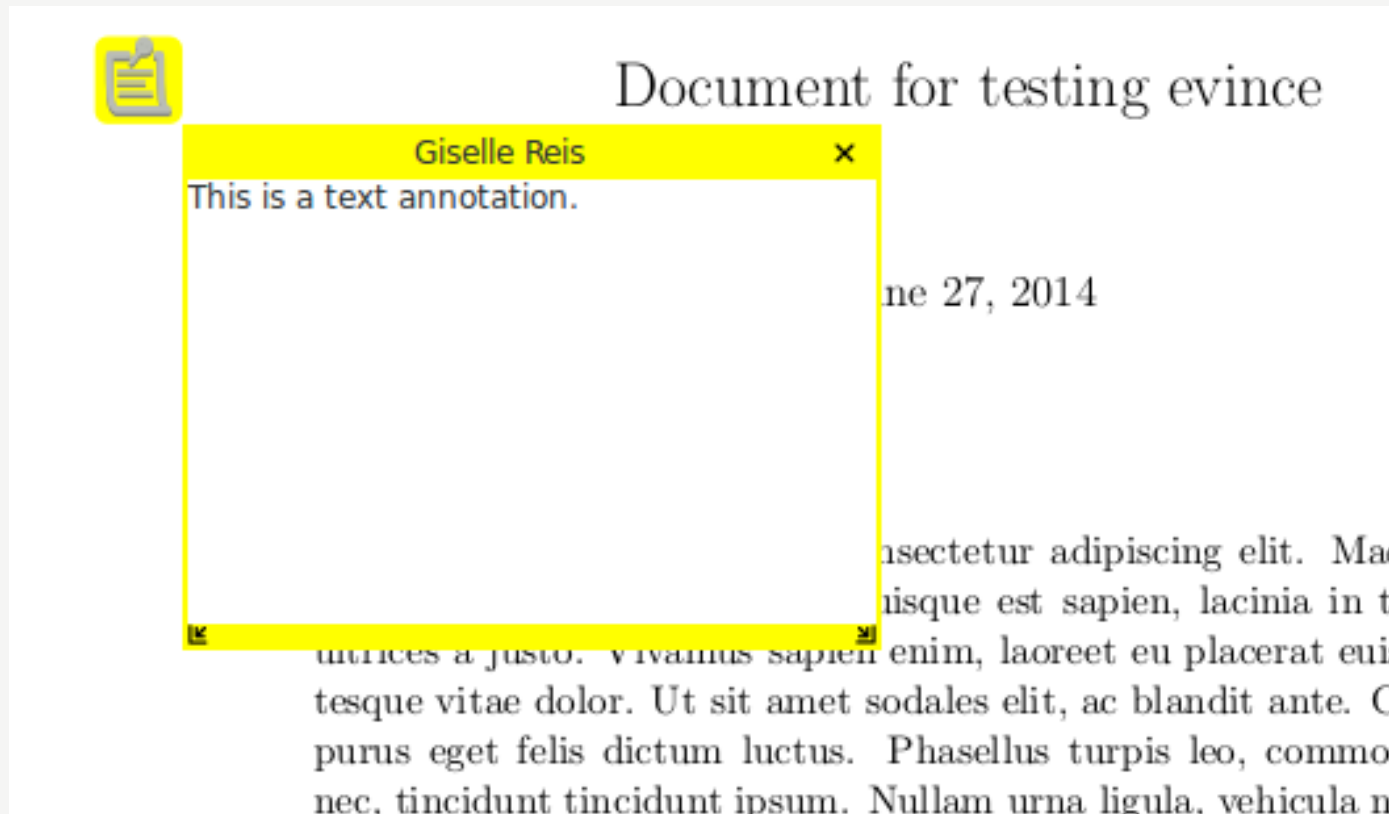
Post-it Notes-like annotations improvements

Giselle Machado

Mentor: José Aliste



# Current annotation



The screenshot shows a document viewer interface. At the top left is a document icon. The title of the document is "Document for testing evince". A yellow text annotation box is overlaid on the document. The annotation box has a yellow header with the name "Giselle Reis" and a close button "x". The text inside the box reads "This is a text annotation." Below the annotation, the document text is visible, including the date "ne 27, 2014" and several lines of Latin placeholder text: "sectetur adipiscing elit. Ma", "isque est sapien, lacinia in t", "utrices a justo. vivamus sapien enim, laoreet eu placerat eu", "tesque vitae dolor. Ut sit amet sodales elit, ac blandit ante. C", "purus eget felis dictum luctus. Phasellus turpis leo, commo", "nec, tincidunt tincidunt ipsum. Nullam urna ligula, vehicula n".



# Problems

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- Text annotation (post-it like)
  - cannot delete
  - cannot change color
  - changes on focused windows are not saved
  - hard to find
- No other annotation type available



# Future annotations

Nam viverra **volutpat augue, vel fermentum** massa fermentum sed. Quisque tincidunt posuere libero, nec aliquam risus porttitor nec. Curabitur varius vel ante et sodales. Nulla vitae odio non nibh molestie molestie. Vestibulum convallis vestibulum massa, et iaculis eros faucibus vitae. In suscipit tristique dolor, in ~~vehicula velit posuere~~ at. Vestibulum mattis dignissim orci.



# Evince

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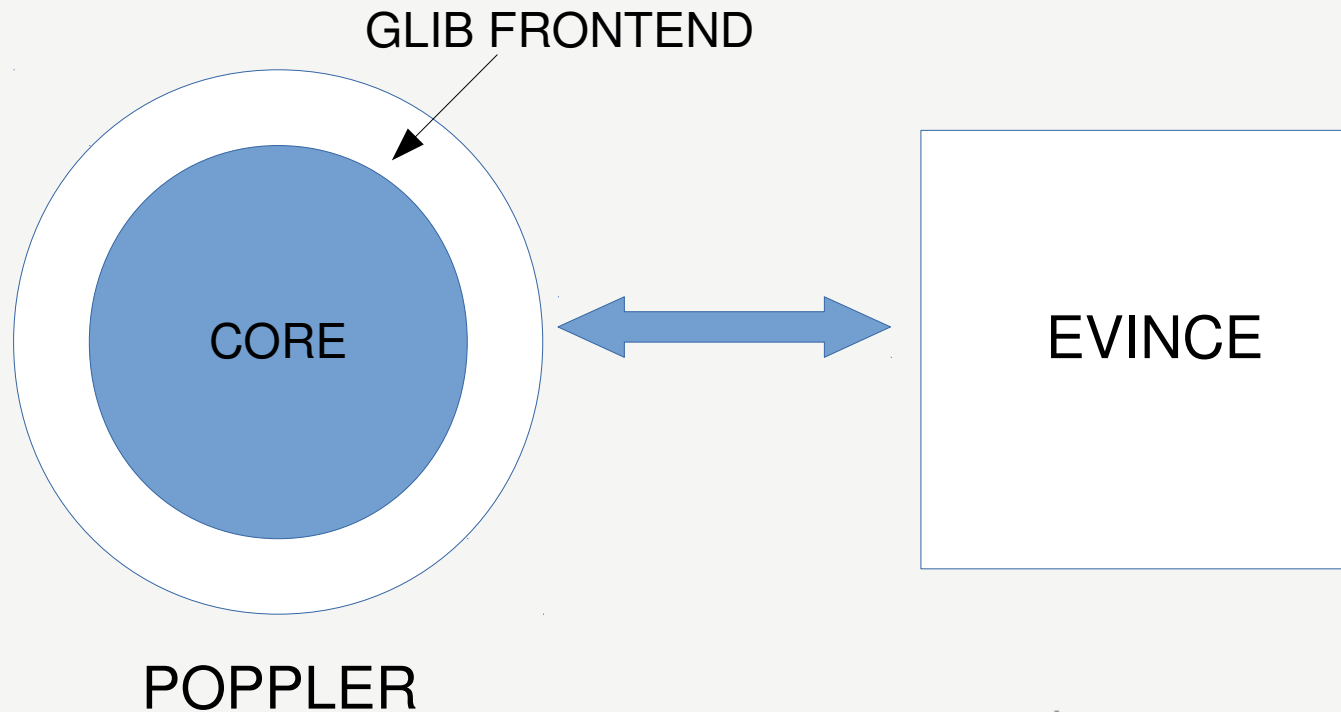
## Annotation and Form Improvements

Anuj Khare

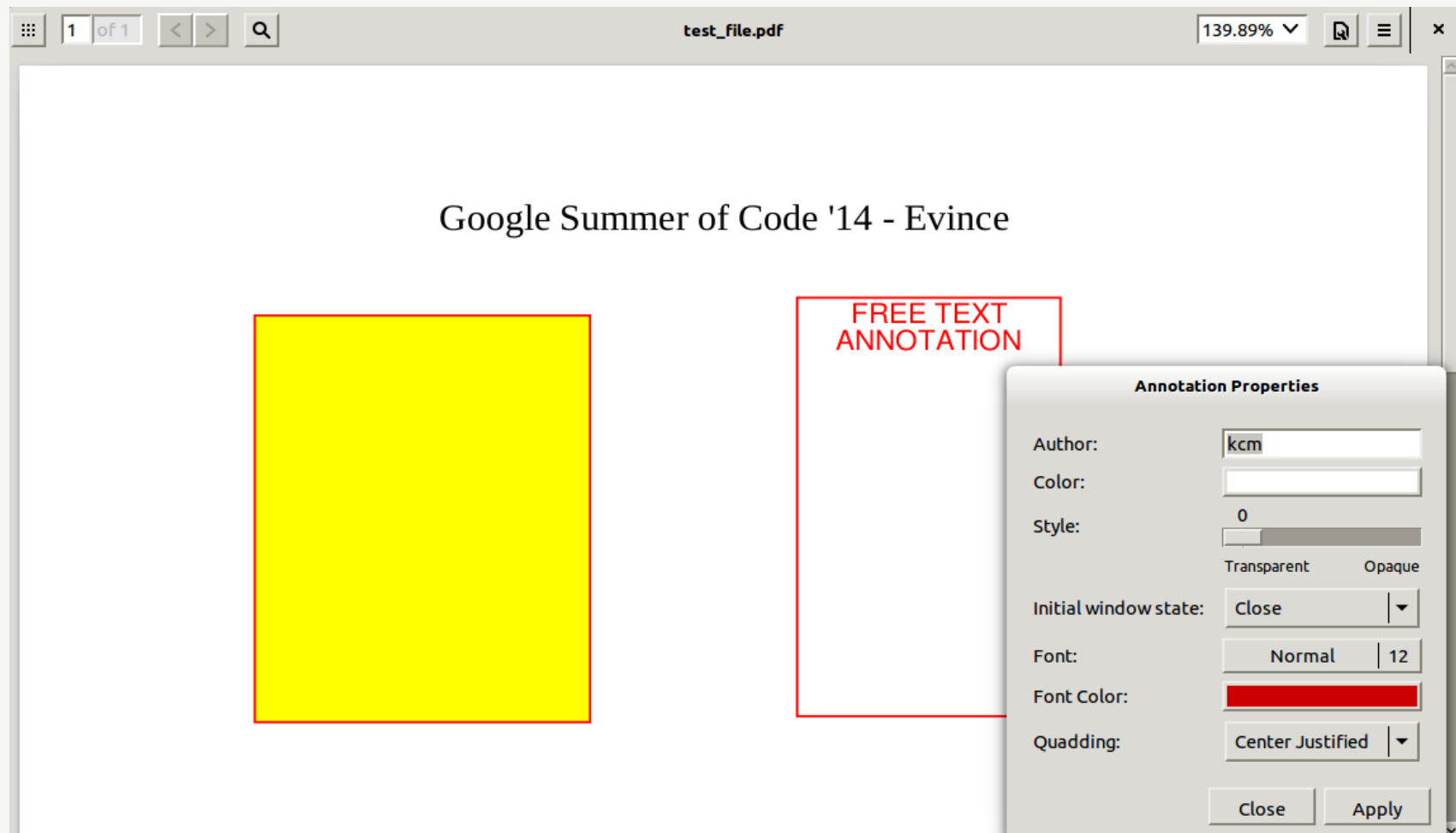
Mentor: José Aliste

# Evince and Poppler

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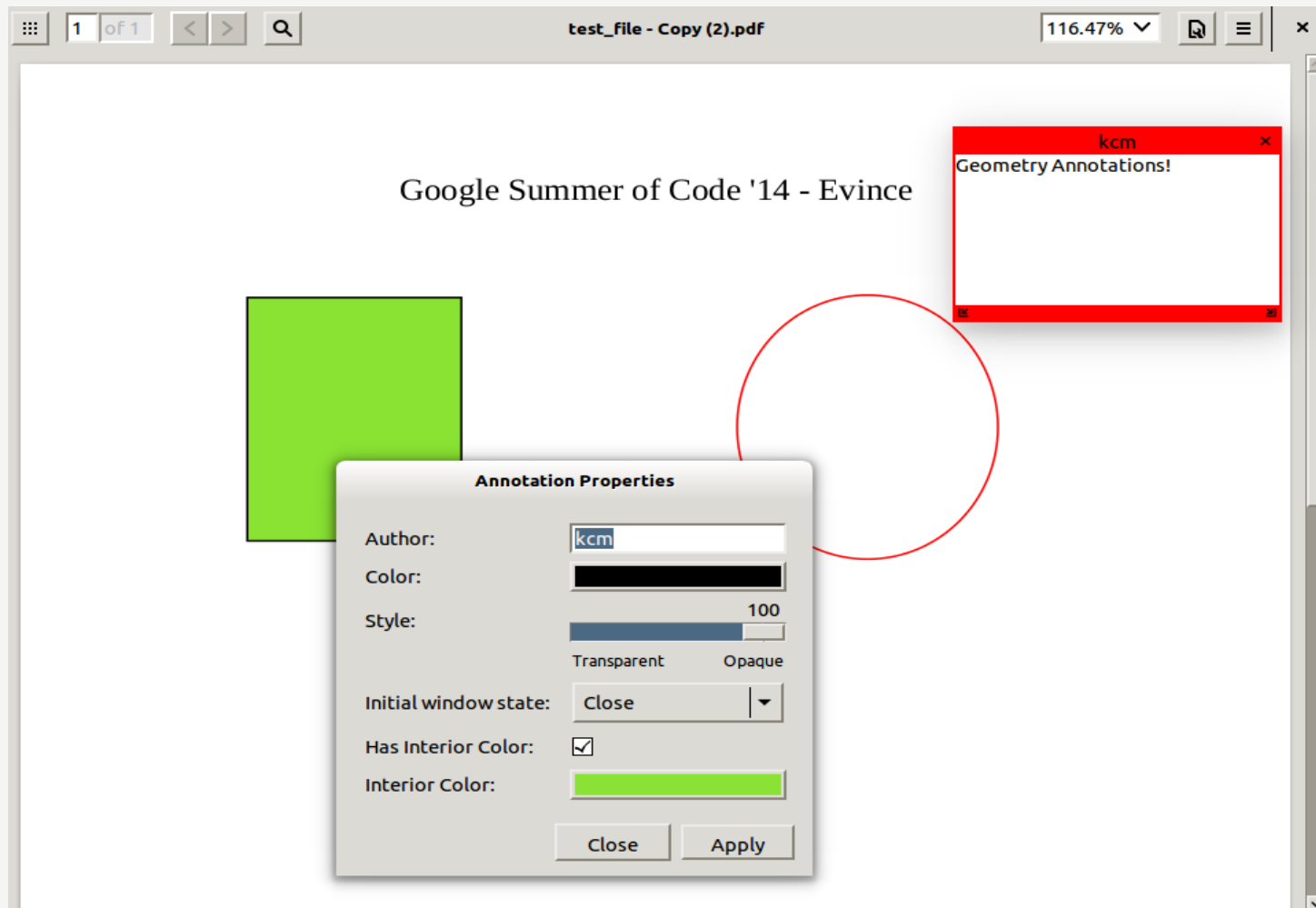


# Free Text Annotation





# Square/Circle Annotations



# That's it?

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- Polygon/Polyline Annotations
- Forms Improvements

# GNOME Games

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## New AI for Four-in-a-Row and libgames-scores

Nikhar Agrawal

Mentor: Michael Catanzaro



# What was wrong with the AI?

Very hard...  
Consequently, not so fun!

ubuntuforums.org/showthread.php?t=1454432

### View Poll Results: How do you do in Gnome Games?

Voters: 7. You may not vote on this poll

'Easy' Mode is Too Hard	6	85.71%
I Can Beat Easy Mode	1	14.29%
I Can Beat Normal Mode	0	0%
I Can Beat Hard Mode	0	0%
'Hard' Mode is Too Easy	0	0%

Results 1 to 10 of 19 Page 1 of 2 1 2 Last

**Thread: I'm Officially \*\*\*\* at Four-in-a-Row**

Like Be the first of your friends to like this.

Thread Tools Display

April 14th, 2010 #1

**Penguin Guy**   
100% Pure Ubuntu 

**Join Date:** Mar 2009  
**Beans:** 927  
**Distro:** Ubuntu 12.04 Precise Pangolin

 **I'm Officially \*\*\*\* at Four-in-a-Row**

I've just been playing some four-in-a-row vs the easiest AI there is, and I lost every game I played 😊. I did play one last game however, just holding down the down arrow key and, weirdly enough, I won 😊.

Anyone else want to share their experiences vs Gnome Games?

HyperTurtle - HTML6 - Ocelots Are Awesome

## What about the new AI?

- Much simpler
- And definitely much more fun
- Easy mode plays in a way to help the user win, hard provides a fair challenge
- And yet, doesn't make extremely stupid moves



## New Scores Library

- C games and Vala games store scores differently.
- Redundant code across games
- Aim: a new library written in Vala to be used across all GNOME games
- Much simpler API, just 3 public functions.
- The library handles everything else for you.



# GNOME Sudoku

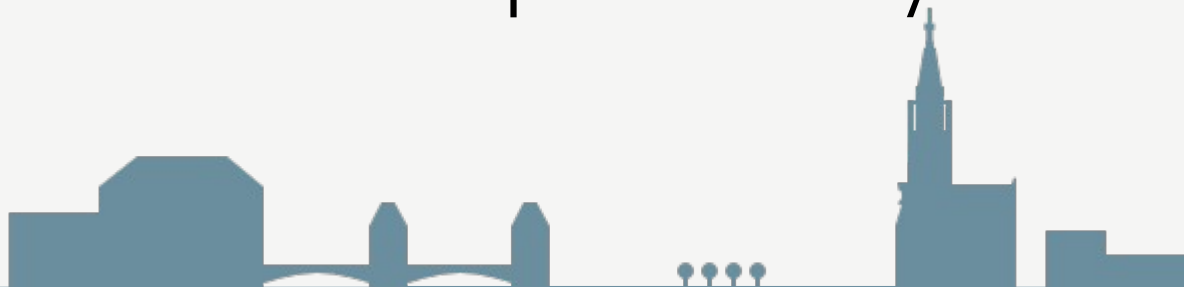
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Modernize and Simplify

Parin Porecha

Mentor: Michael Catanzaro

Mockups: Allan Day



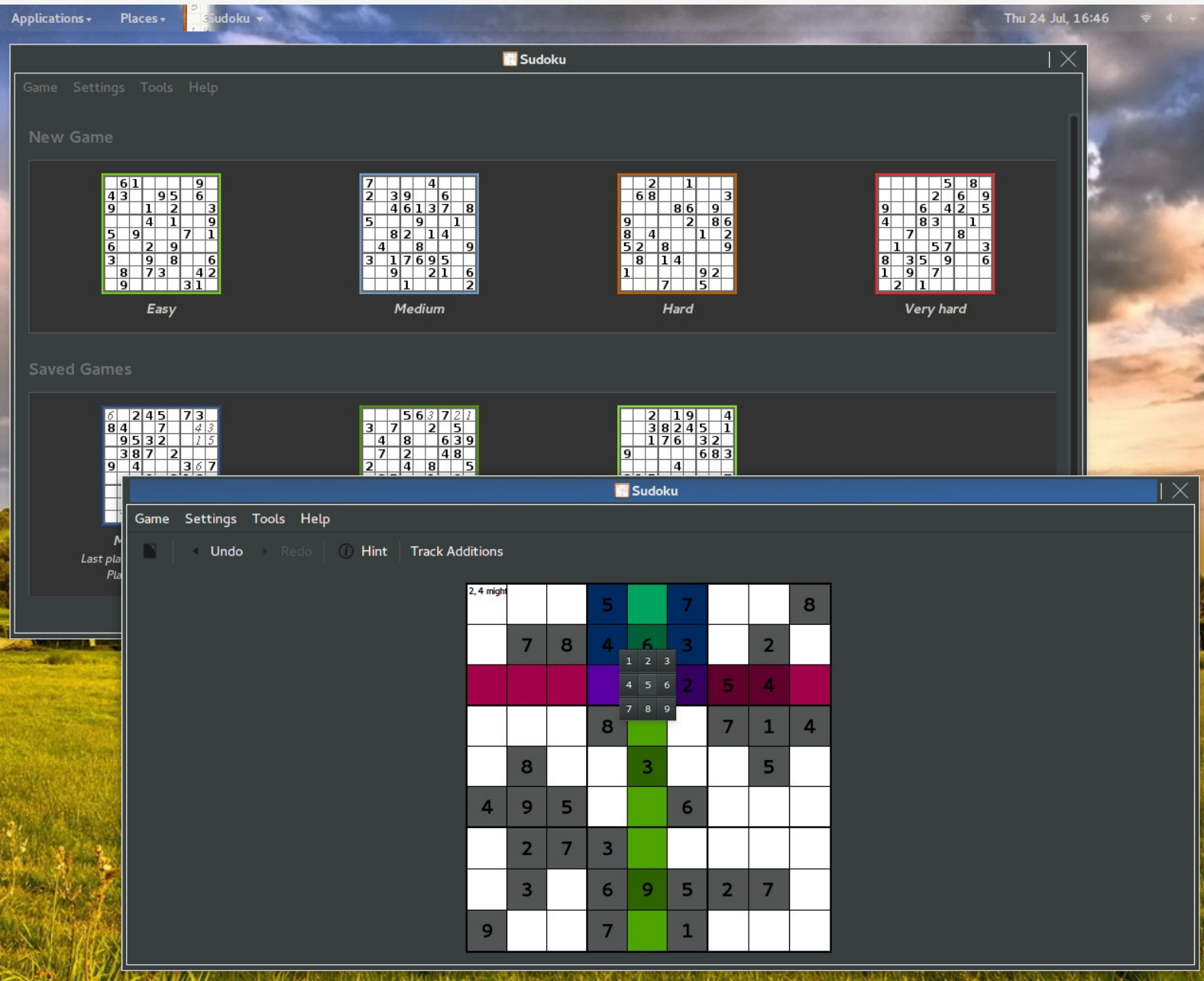
# Progress

---

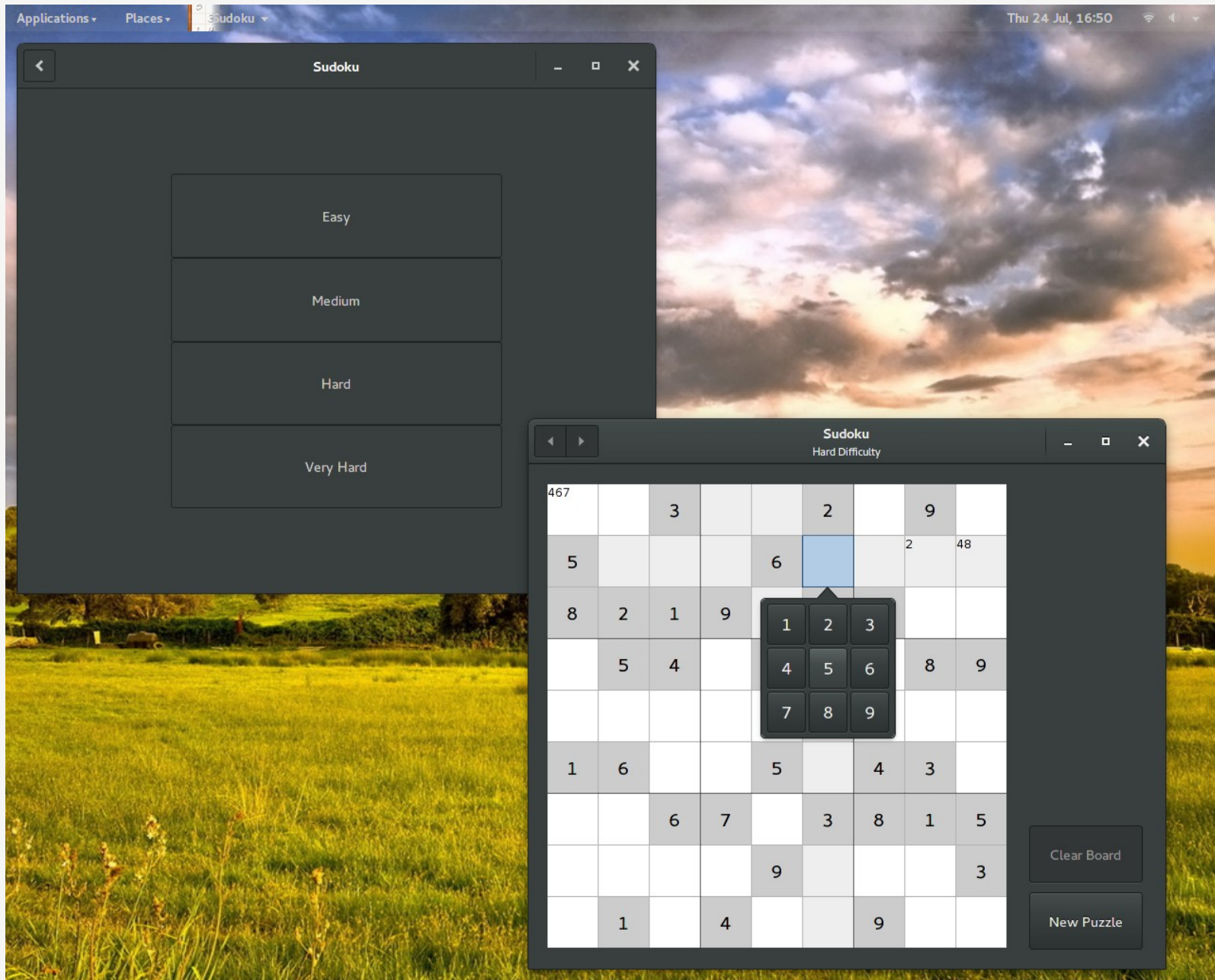
- Complete port to Vala ✓
- Redesign UI ✓
  - Menubar, Toolbar → Headerbar ✓
  - Hand-written notes → Earmarks ✓
  - Popup number-picker → Popover ✓



# Before



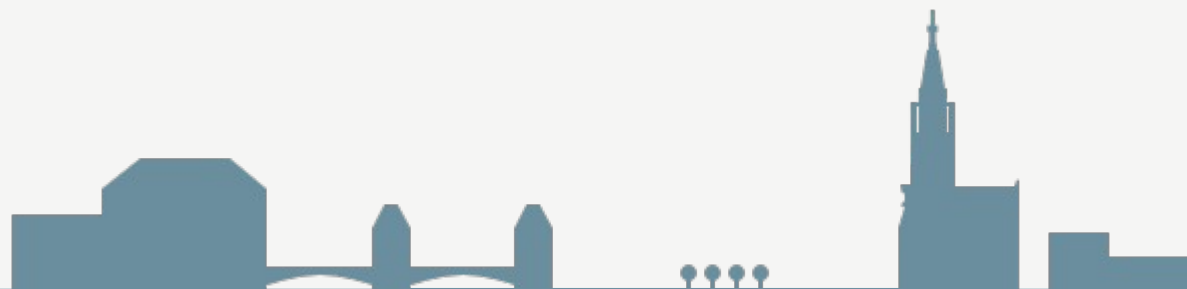
# Now



# What's next ?

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- SudokuGenerator → QQwing 60%
- Simplify Tracker 30%



# Gnome Maps



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Add support to via points in Gnome Maps  
Start adding support to routing alternatives in Gnome Maps

Dario Di Nucci

Mattias Bengtsson

# Support via points in Maps

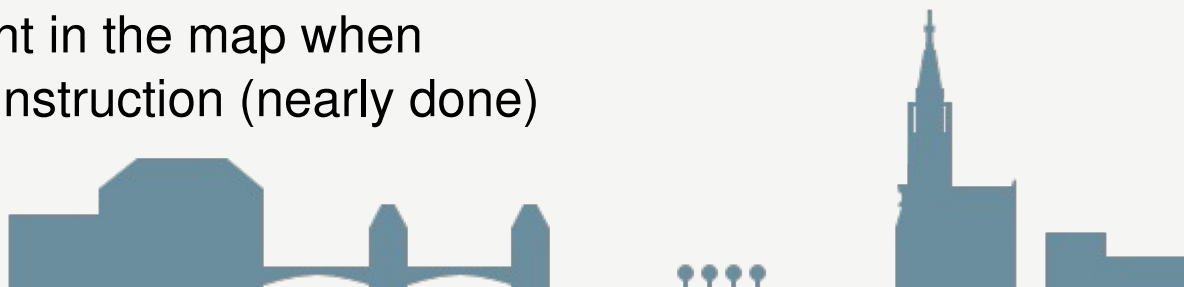
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## What is already done?

- Interface with GH service
- Fix sidebar for working with via points
- Include buttons in the sidebar for adding and removing via points
- Make via points draggable on the map
- Add some markers for each via point
- Show a point in the map when clicking on instruction (nearly done)

## What will come?

- Make possible to reorder via points
- Make possible to add via points by clicking on the map



# Alternatives paths in Maps

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## What is already done?

- Evaluating best algorithms
  - k-shortest path
  - pareto optimality
  - penalty approach
  - plateau method
- Basic algo implementation
- Optimization
- Testing

## What will come?

- More real world testing
- More optimization
- Add some graphical interface in maps for displaying alternatives



# New sidebar and turn point markers

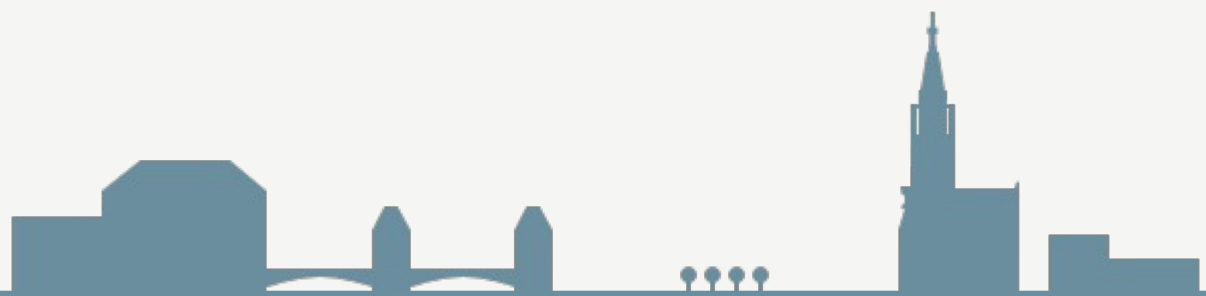
A screenshot of a navigation application's sidebar. At the top, there are three icons for walking, cycling, and driving. Below these are three input fields: 'From' with 'Isernia', 'Via' with 'Roma, Italia', and 'To' with 'Strasburgo, Alsazia, Francia'. The estimated time is '13 h 23 min' and the distance is '1236 km'. The sidebar contains a list of turn instructions, each with a directional icon and text: 'Start!', 'Continua su Corso Garibaldi', 'Gira leggermente a sinistra su Via 24 Maggio', 'Gira nettamente a sinistra su Via Michele Fortini', 'Gira a sinistra su Corso Garibaldi', 'Gira a destra su Via Alcide de Gasperi', 'Continua su Via Don Luigi Sturzo', 'Gira leggermente a sinistra su Via Santo Spirito', 'Gira leggermente a sinistra', and 'Gira leggermente a destra su'.



# Strasbourg, FR • GUADEC • July 26 – August 1

A map of Europe showing a route from Bern, Switzerland to Naples, Italy. The route is marked with a red line and includes major cities such as Paris, Stuttgart, Milan, Rome, and Naples. The map interface includes a search bar at the top, zoom controls on the left, and a navigation panel on the right. The navigation panel shows the starting point as Bern and the destination as Naples. The estimated time for the journey is 13 hours and 23 minutes, covering a distance of 1236 km. The navigation instructions are as follows:

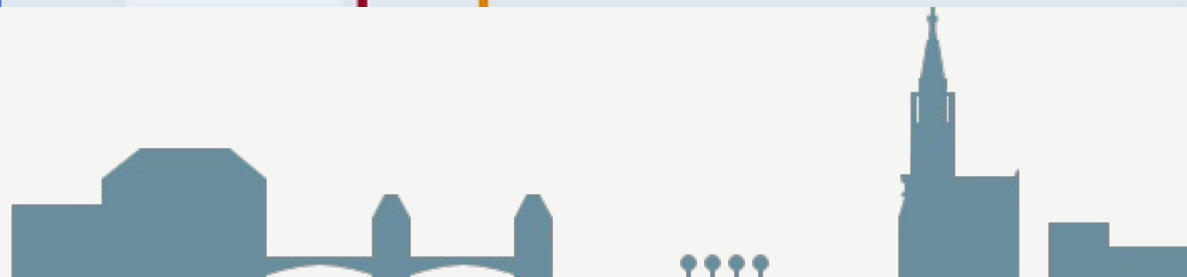
- Start!
- Continua su Corso Garibaldi
- Gira leggermente a sinistra su Via 24 Maggio
- Gira nettamente a sinistra su Via Michele Fortini
- Gira a sinistra su Corso Garibaldi
- Gira a destra su Via Alcide de Gasperi
- Continua su Via Don Luigi Sturzo
- Gira leggermente a sinistra su Via Santo Spirito
- Gira leggermente a sinistra
- Gira leggermente a destra su







Thank you for your attention!



# GNOME Maps

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## Point of Interests (POIs)

Rishi Raj Singh Jhelumi

Mentor: Mattias Bengtsson

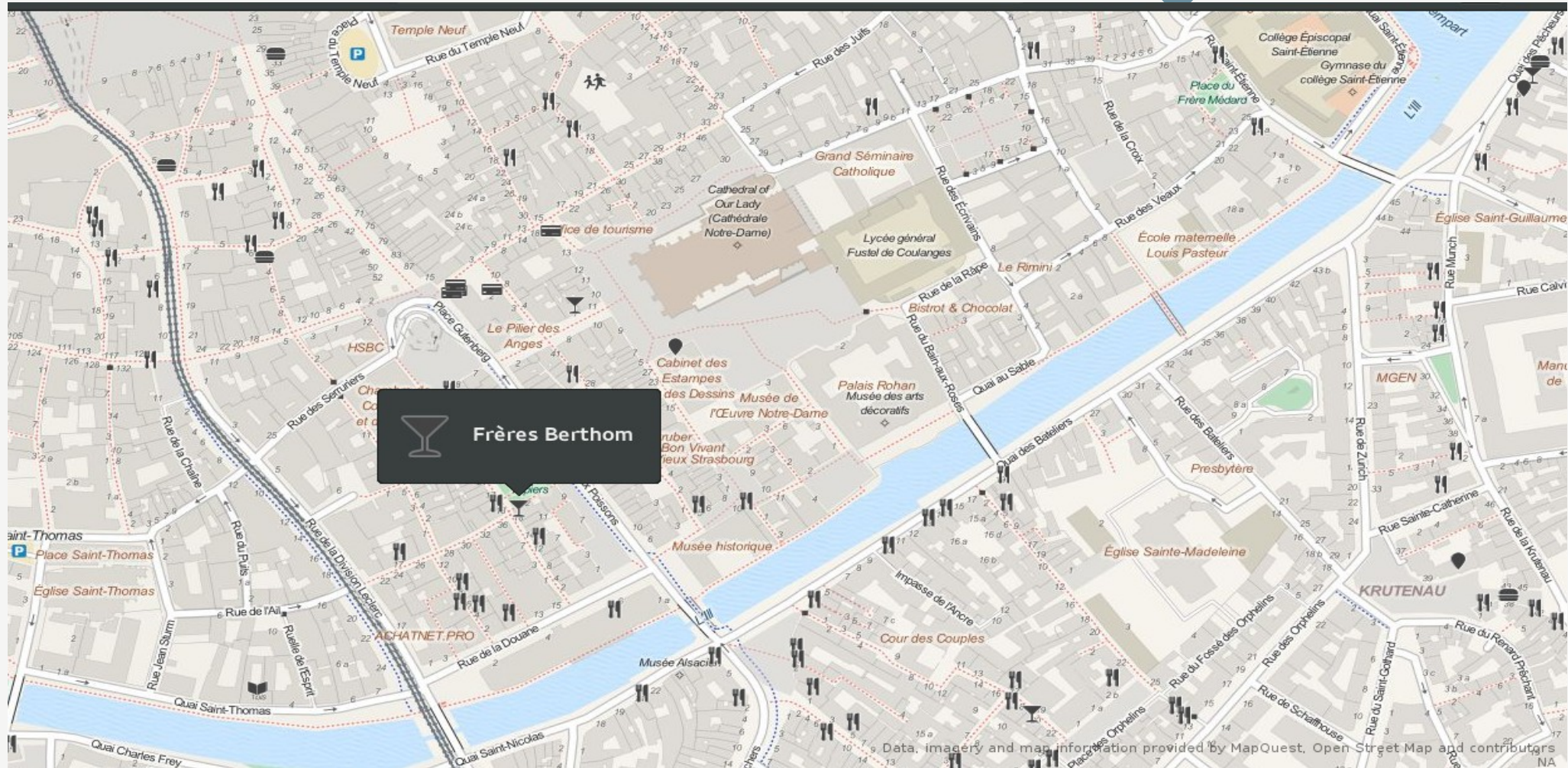


# Features

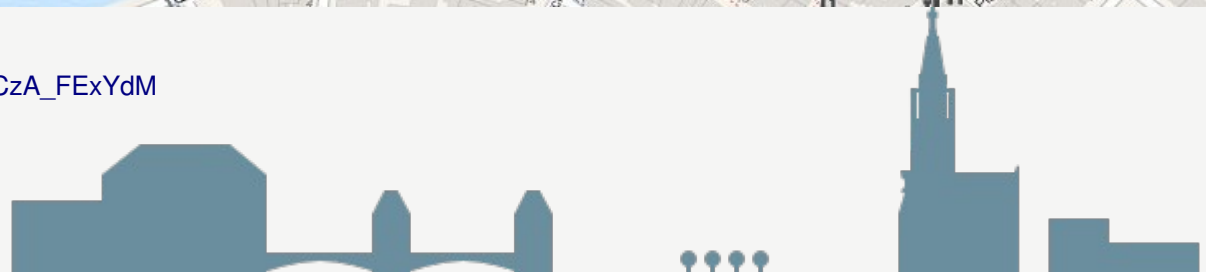
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- Uses Overpass API based on OSM
- Overpass Query Wrapper
- Only on Inner zoom levels
- Specific POIs and Maki Icons
- Caching ( Memory and File )

# A view of Strasbourg



Demo Video : [http://youtu.be/1CzA\\_FExYdM](http://youtu.be/1CzA_FExYdM)



# Whats Next !!

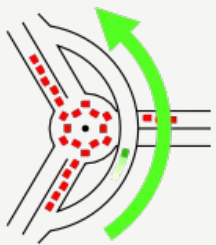
---

- Getting POI information from Wikipedia
- Adding buttons that do some stuff
  - Select a point for Routing
  - Bookmarking
  - Sharing and Checking In





Thanks !!  
Questions ??



**Overpass**  
**API**



**libchamplain**



# GNOMECAT

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Marcos Chavarría Teijeiro

Mentor: Sean Burke



# This summer work

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- UI Redesign
- Finish Gettext-po library bindings
- Shortcuts
- Plugins
- Documentation





# What is done??

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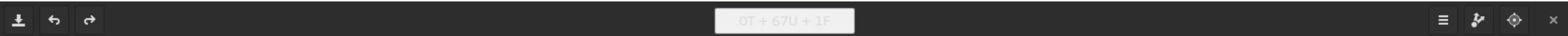
- UI Redesign
- Finish Gettext-po library bindings
- Shortcuts
- Plugins
- Documentation

# Next steps...

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- Improve program performance with big files.
- Write some plugins (Translation Memory)
- Polish UI
- Documentation
- Details, details and more details.





0T + 67U + 1F

Search input field with refresh and navigation icons.

- Translated Messages
- Untranslated Messages
- Fuzzy Messages
- Original Text
- Translated Text
- Plurals Text
- Search in Current Project

- Messages:**
- × Welcome to GNOME CAT. To
  - × Create Profile
  - × Singular (%s)
  - × Plural %i (%s)
  - × Untranslated
  - × There is %i info tip
  - × Ther is %i warning tip
  - × There is %i error tip.
  - × Select a file to open.
  - × Cancel
  - × Open
  - %iT + %iU + %iF

**Tips:**

**Original Text:**  
\_Preferences

**Translated Text:**

**Context:**

**Hints:**

\_Preferences

DEMO



Edit

Profiles

Plugins

Done ×

**Text Display**

- Highlight message syntax
- Make whitespace visible
- Use custom font

Editor font:  12

**Contents**

Message Changed State:

- Check spelling



Moitas Grazas!!  
Muchas Gracias!!  
Muito Obrigado!!  
Thank You Very Much!!



# Banshee

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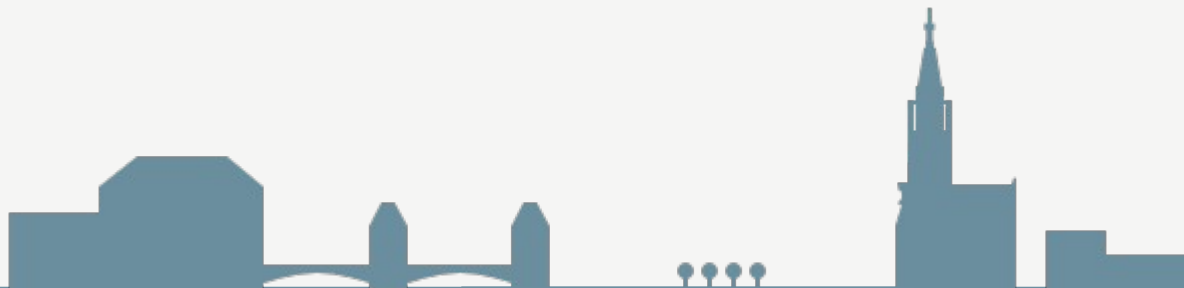
## Integrate with AcoustID

Marcin Kolny

Mentor: Andrés G. Aragoneses



# What are fingerprints?



# Final solution

The screenshot shows the Banshee Media Player interface. The main window title is "5. Na rogu by T.Love - Banshee Media Player". The playback area shows the current track "5. Na rogu" by T.Love from the album "Chlopaki nie placza". A metadata fixer dialog box is open, displaying a list of tracks with checkboxes for fixing missing artist and titles. The tracks listed are:

Fix?	Missing Artist and Titles Fix	Track details
<input checked="" type="checkbox"/>	Woodkid - Shadows	file:///media/loganek/Dokumenty/Moj_folder/Muzyka/Woodkid/Golden%20Age%20%5B2013%5D/08%20Woodkid%20-%2...
<input checked="" type="checkbox"/>	Varius Manx - Kiedy mnie malujesz	file:///media/loganek/Dokumenty/Moj_folder/Muzyka/Varius%20Manx/End%20%5B1997%5D/varius%20manx%20-%20En...
<input checked="" type="checkbox"/>	T.Love - Jest super	file:///media/loganek/Dokumenty/Moj_folder/Muzyka/T.Love/1997%20-%20Chlopaki%20nie%20placza/04.%20Jest%20su...
<input checked="" type="checkbox"/>	Stratovarius - Uncertainty	file:///media/loganek/Dokumenty/Moj_folder/Muzyka/Stratovarius/1996%20-%20Episode/06%20-%20Uncertainty.mp3
<input checked="" type="checkbox"/>	Sonata Arctica - Wolf & Raven	file:///media/loganek/Dokumenty/Moj_folder/Muzyka/Sonata%20Arctica/Silence%20%5B2001%5D/Sonata%20Arctica%20...
<input checked="" type="checkbox"/>	Sonata Arctica - Kingdom for a Heart...	file:///media/loganek/Dokumenty/Moj_folder/Muzyka/Sonata%20Arctica/Ecliptica%20%5B1999%5D/Sonata%20Arctica%2...
<input checked="" type="checkbox"/>	Ryan Lewis, Macklemore - My Oh My	file:///media/loganek/Dokumenty/Moj_folder/Muzyka/Macklemore/The%20Heist%20(Deluxe%20Edition)/17%20My%20O...
<input checked="" type="checkbox"/>	Lindsey Stirling - Anti Gravity	file:///media/loganek/Dokumenty/Moj_folder/Muzyka/Lindsey%20Stirling/Lindsey%20Stirling%20%5B2012%5D/111-linds...
<input checked="" type="checkbox"/>	Kimbra - Something in the Way You Are	file:///media/loganek/Dokumenty/Moj_folder/Muzyka/Kimbra/Vows%20(Deluxe%20Edition)%20(US%20Version)/02%20So...
<input checked="" type="checkbox"/>	Charlie Winston - Kick the Bucket	file:///media/loganek/Dokumenty/Moj_folder/Muzyka/Charlie%20Winston/Hobo%20%5B2009%5D/03%20Kick%20The%2...

At the bottom of the dialog, the "Problem Type" is set to "Missing Artist and Titles Fix" and the "Apply Selected Fixes" button is highlighted. A "Repeat Off" button is also visible in the bottom right corner.

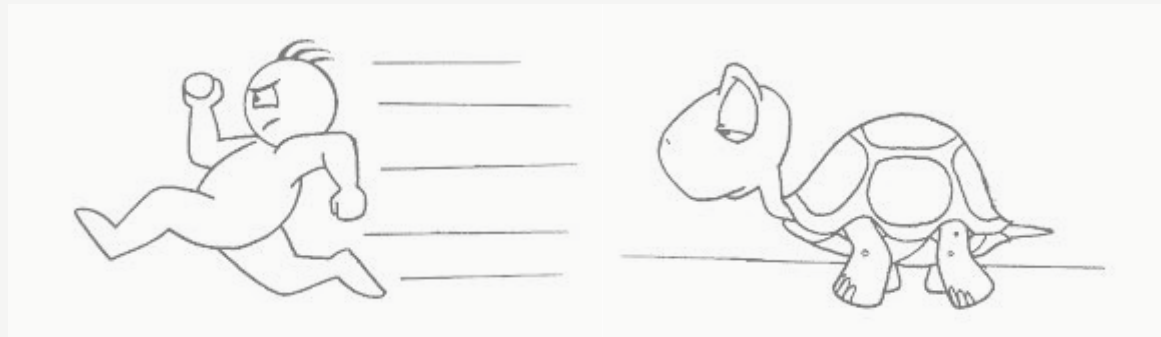




# Disadvantages

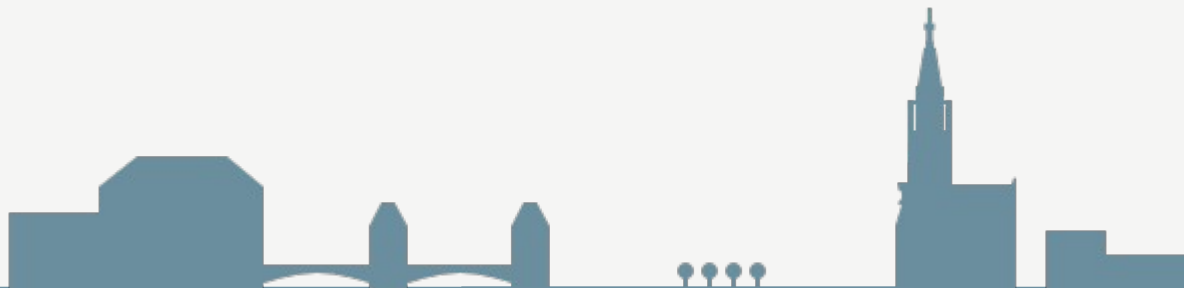
---

- Slowness, but...
  - fingerprint computing might work in background!





Thanks for your attention



# GNOME Books

---

An eBooks application based on Documents

Marta Milaković

Mentor: Cosimo Cecchi



# Project description

---

- Application for listing, searching and reading eBooks → gnome-books
- Integrate gnome-books with an existing online eBook store
- Based off of the gnome-documents application codebase

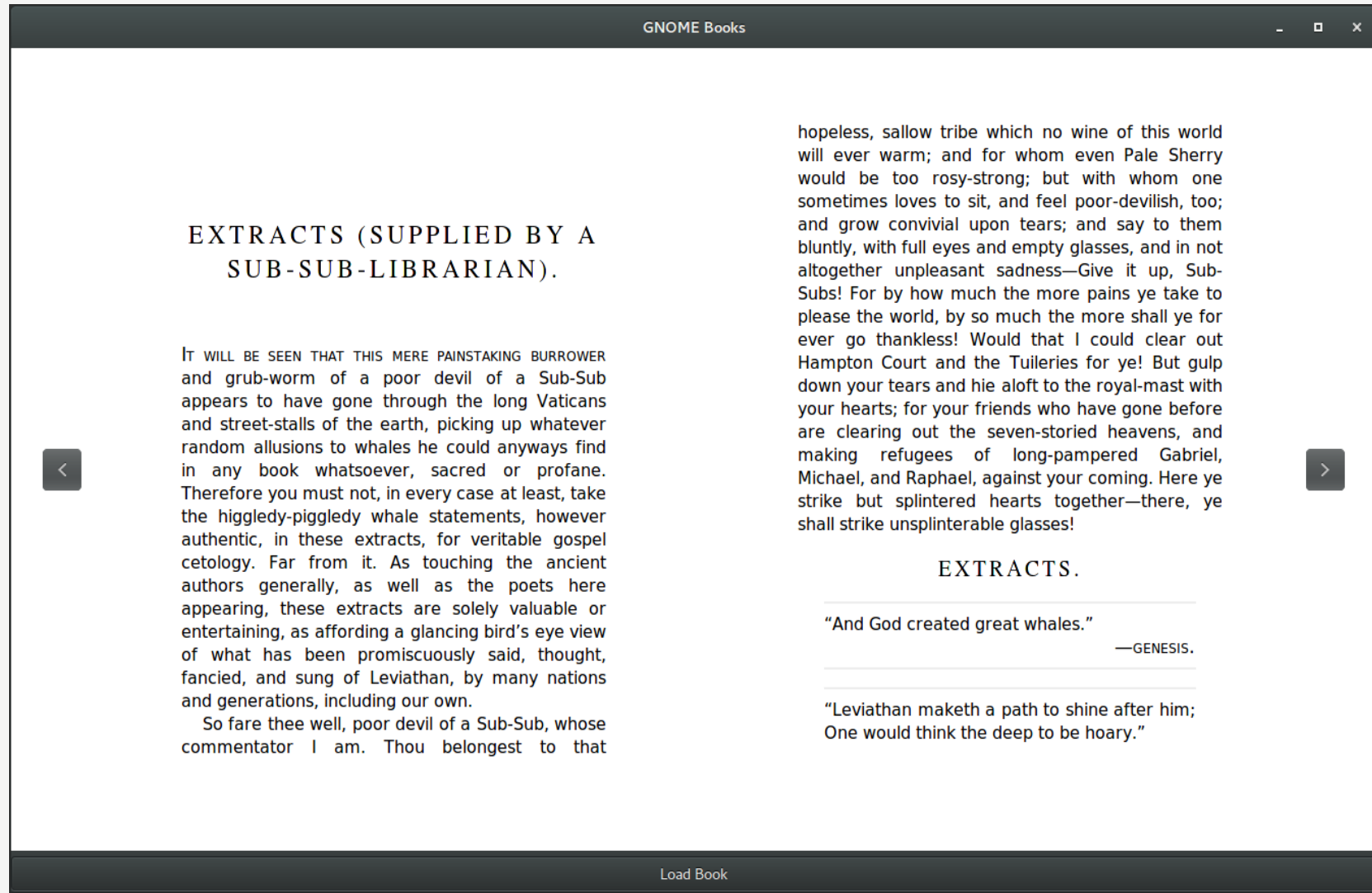


# Application modes

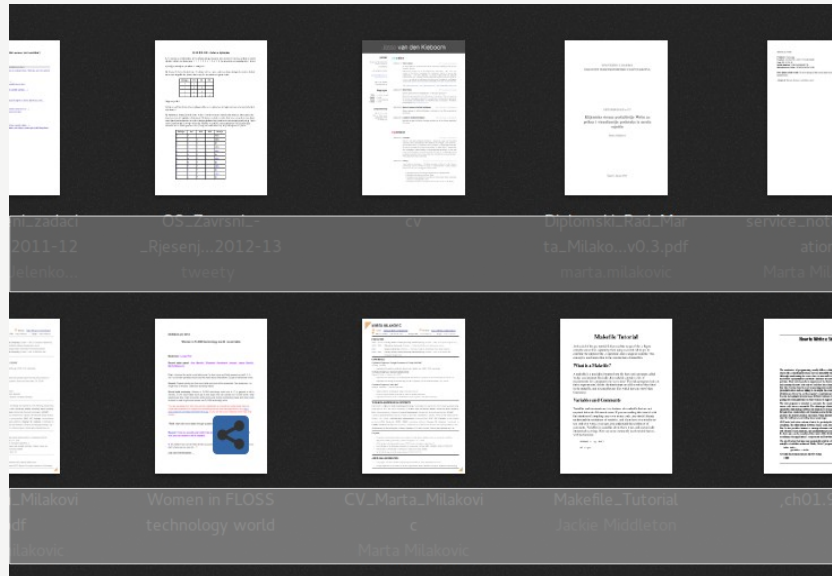
---

- Overview mode
  - the list of eBooks, local and from the online eBook store
- Read mode
  - read the eBooks from collection
- EbookStore mode
  - browsing and buying new items

# GNOME Books' Read mode



# Features



Contents Bookmarks Close

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Upravljanje energijom	7
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S  
USER-FRIENDLY  
T M  
O P  
R L  
GNOME ELEGANT  
B  
DOCUMENTS  
O  
K





# GNOME Music

---

## Advanced Search and Remote Resources

Arnel Borja

Mentor: Vadim Rutkovsky

# Goals

---

- Make searching easier
- Add capability to play music files from remote sources
- Rewrite playlist backend to use Tracker

# Search View

The screenshot shows a music application interface with a search bar containing 'tamura yukari'. The search results are displayed in a list on the left, and a filter menu is open in the center. The filter menu has two columns: 'Sources' and 'Match'. The 'Sources' column has options: All, Local (selected), Magnatune, and Jamendo. The 'Match' column has options: All (selected), Artist, Album, Track Title, and Playlist. The search results list includes:

- Songs**
  - Cordless☆Tere☆PHONE**  
Kusakabe Yuka (CV: Tamura Yukari)
  - Fantastic future**  
Tamura Yukari
  - Himitsu no Tobira kara Ai ni Kite**  
Tamura Yukari
  - W:Wonder tale**  
Tamura Yukari
- Playlists**
  - Favorites**

The playback bar at the bottom shows the song 'Cordless... Yukari) Cordless...PHONE' with a progress bar at 1:55 / 4:52.

The image shows a screenshot of a music player application window. The window title is "Josh Woodward". The main content area displays the album "Breadcrumbs" with a cover image of a rope knot. Below the album name, there is a "Breadcrumbs" section with a track list containing one item: "1 Swansong". At the bottom of the window is a playback control bar. It includes buttons for previous, play/pause, and next. The current track is identified as "Josh Woodward Swansong". A progress bar shows the current time as 0:34 out of a total duration of 4:21. There are also buttons for repeat and volume control.

# Playlists

The screenshot shows a music player interface with a 'Favorites' playlist. The window title is 'Favorites' and it contains 31 songs. The current song playing is 'Kyoukai no Kanata' by Chihara Minori. The playback progress is 0:14 / 4:51. The interface includes standard playback controls (play/pause, stop, next, previous) and a volume slider.

▶	Song Title	Duration	Artist	Album
	Kyoukai no Kanata	4:51	Chihara Minori	Kyoukai no Kanata
	Daisy	4:35	STEREO DIVE FOUNDATION	Daisy
	いつかの、いくつかのきみとの...	4:06	fhana	Itsuka no, Ikutsuka no Kimi to no...
	My Sweet Shelter	4:03	河合 律(CV.花澤香菜), 錦野 ...	My Sweet Shelter
	Cordless☆Tere☆PHONE	4:52	Kusakabe Yuka (CV: Tamura Yuka...)	Cordless☆Tere☆PHONE
	Himitsu no Tobira kara Ai ni Kite	3:37	Tamura Yukari	Himitsu no Tobira kara Ai ni Kite

Chihara Minori  
Kyoukai... Kanata  
0:14 / 4:51

# Grilo Ampache Plugin

---

Extending Gnome Music to the web

Sai Suman Prayaga

Mentor: Vadim Rutkovsky

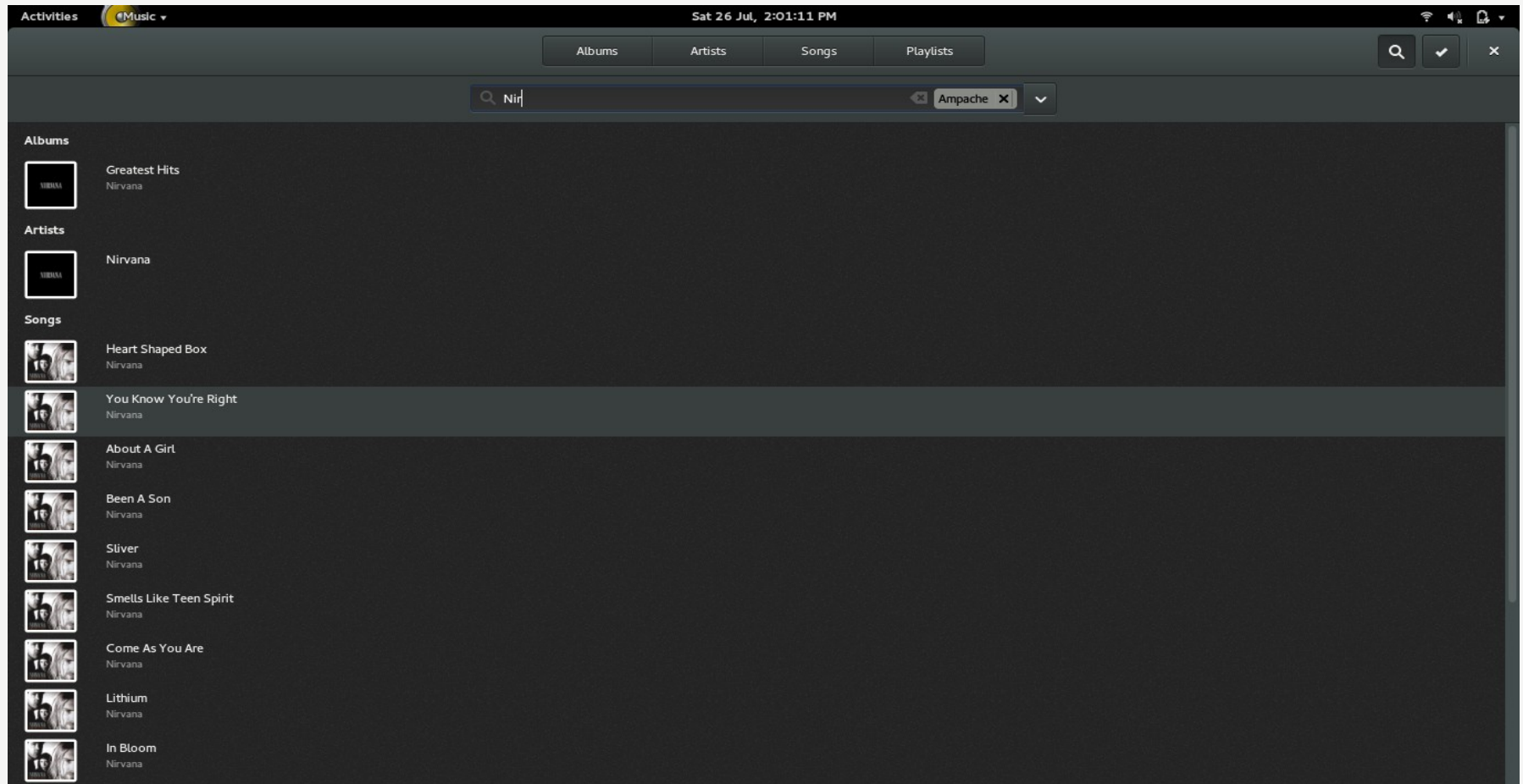


# What's done

---

- Code Cleanup and fixing UI bugs
- Ampache Plugin
  - Search
  - Browse
  - Resolve

# Searching on Ampache



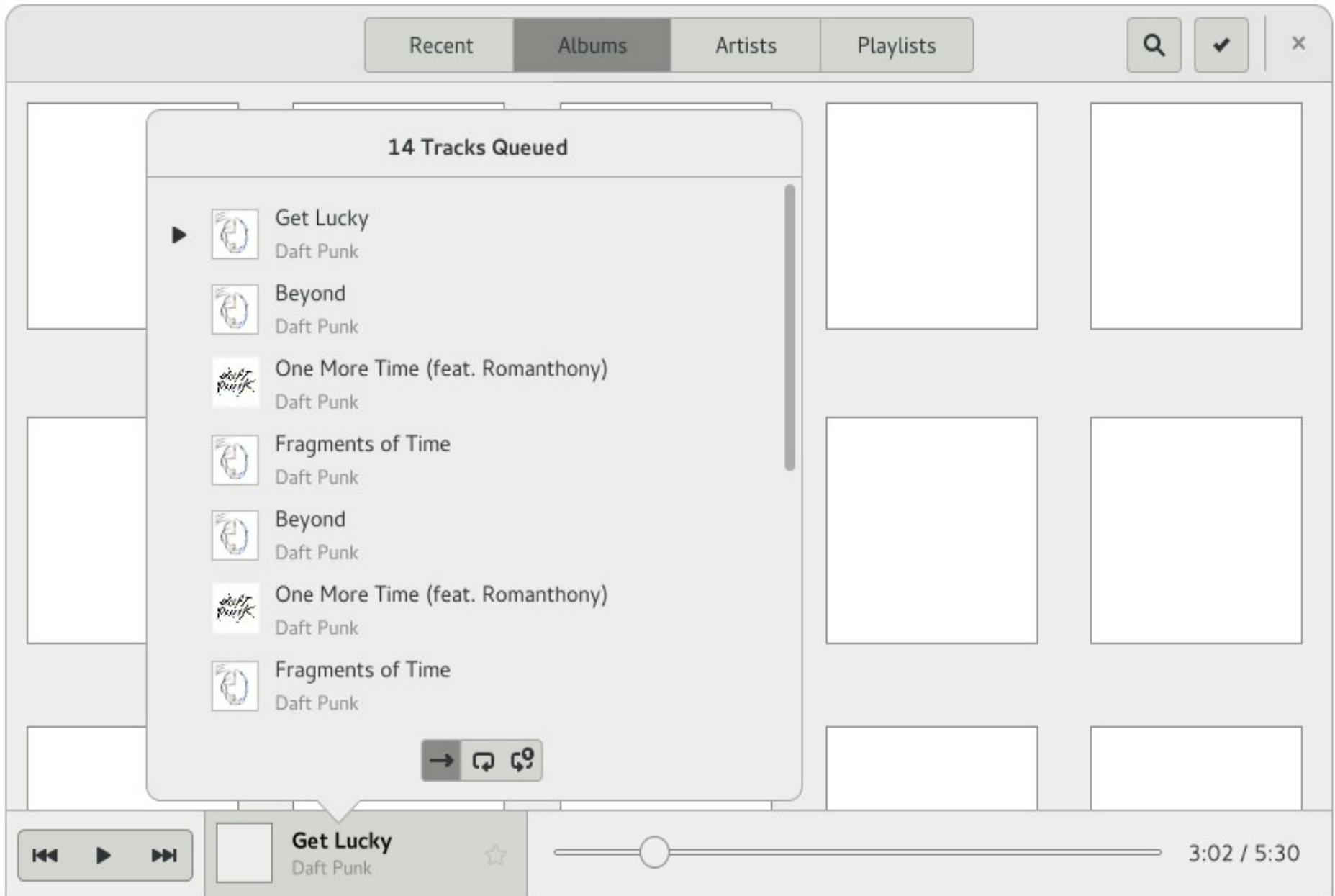


# What needs to be done

---

- Smart Playlists
- Implementing the new Design
  - Recently tab
  - Playback Buffer





Playback populated from anywhere but the album view. Currently playing song on top, gets cleared away.

# Pitivi

---

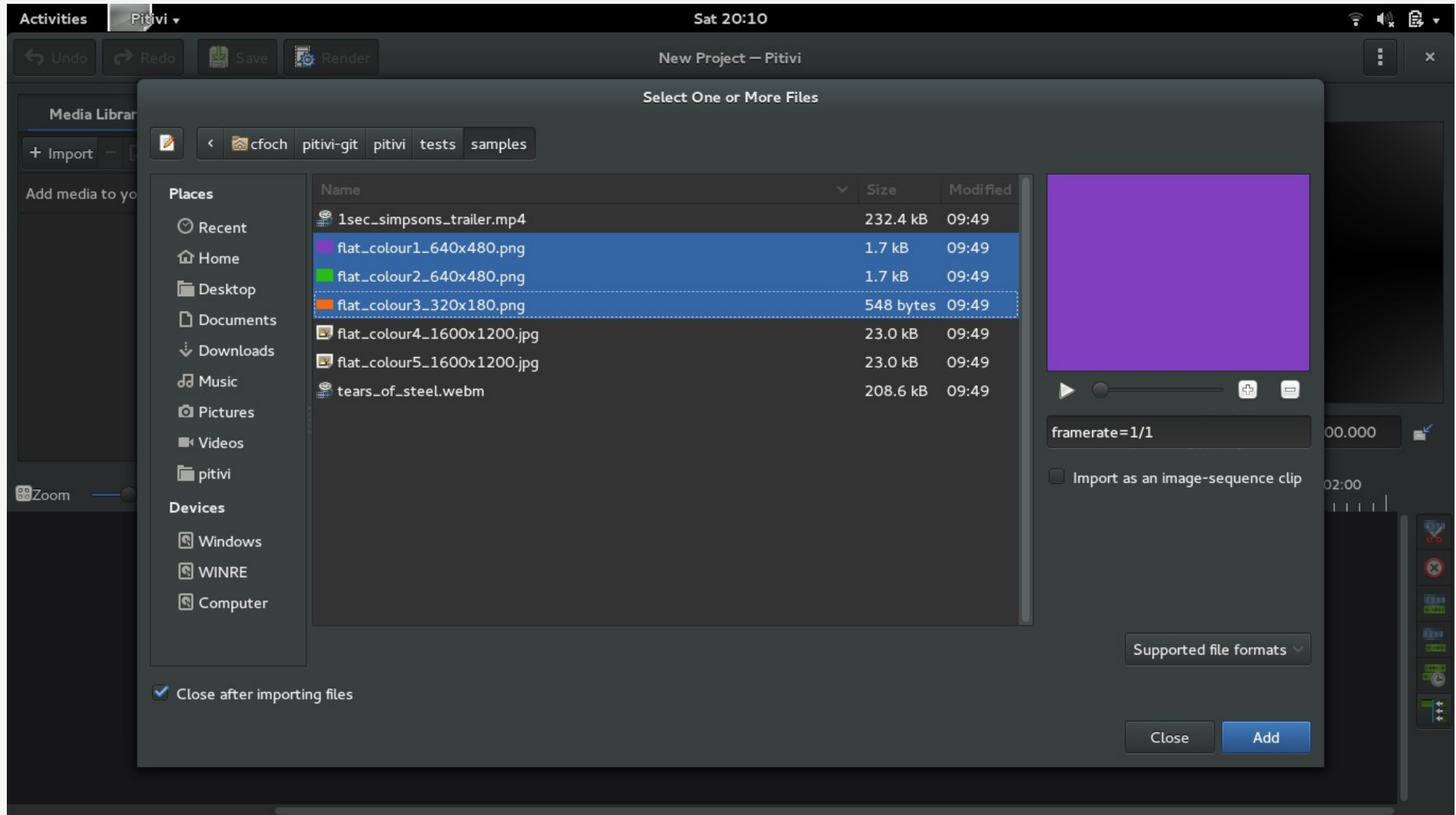
## Adding Image Sequences support

Fabián Orccón

Mentor: Alexandru Băluț (aleb)



# Importing sequences



## **Gstreamer**

GstImageSequenceSrc

## **GES**

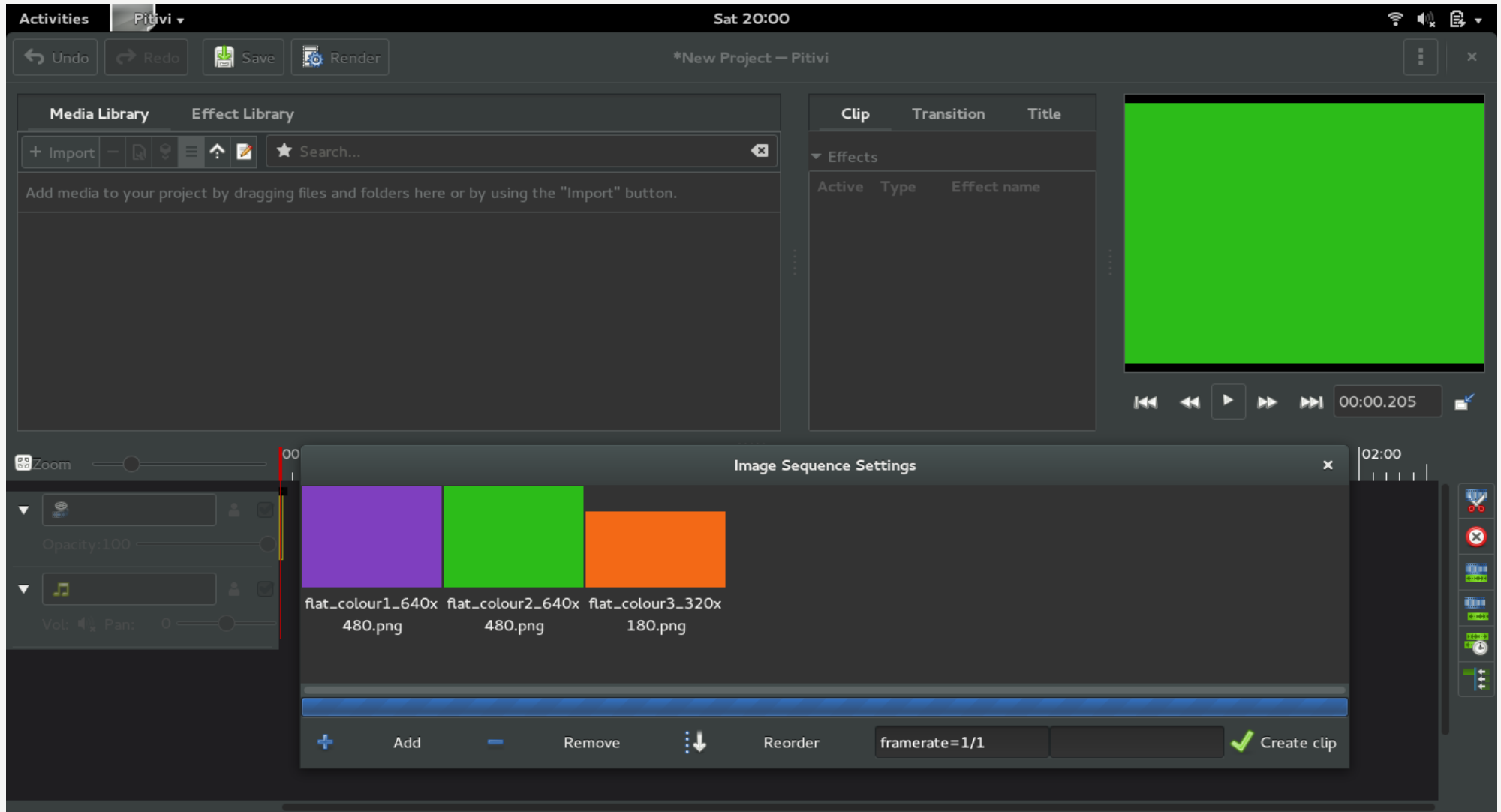
GESImageSequenceSrc

## **Pitivi**

UI to handle these image sequences clips



# Editing the image sequence



# Pitivi

---

Improve Video Transformation and Viewer Interaction in Pitivi

Lubosz Sarnecki

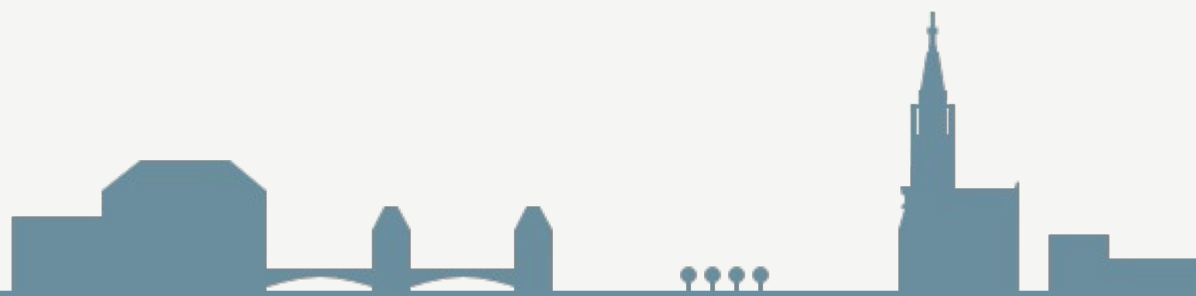
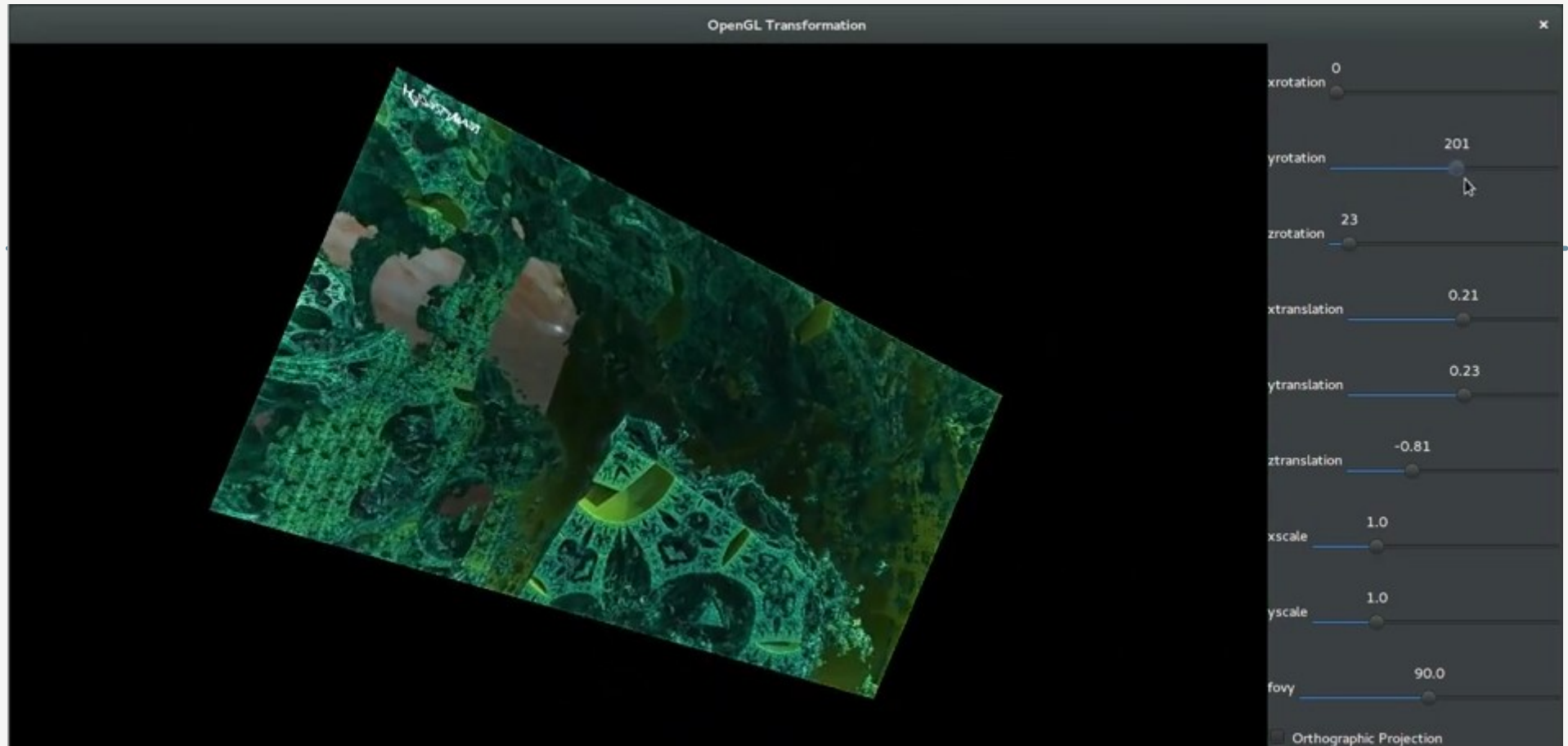
Mentors:

Mathieu Duponchelle

Thibault Saunier

Matthew Waters





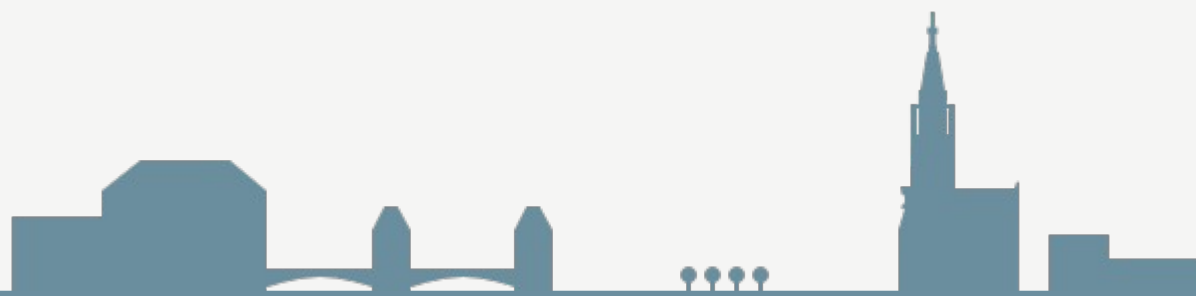
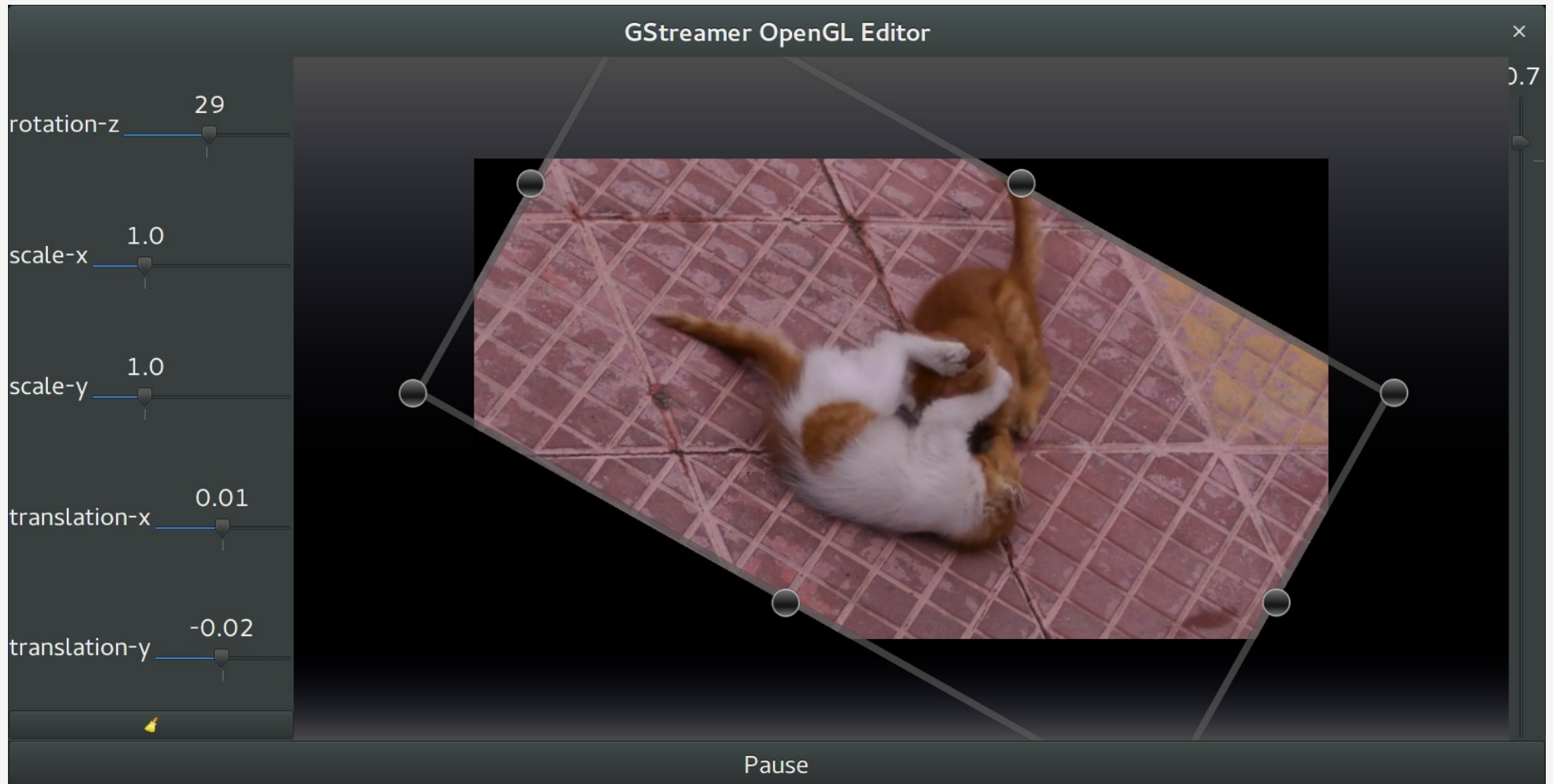


## Transformation Plugin in GStreamer OpenGL

---

- Modern OpenGL pipeline
- Translation, Rotation, Scale
- Capable of Transformation in 3D
- Already upstream





# Transformation Editor

---

- Low level OpenGL with cairo in Python
- Smooth
- Introduces new Viewer with Zoom
- Soon in Pitivi



# gnome-photos

---

## Browse DLNA Media Servers

Pranav Kant

**Affected modules:** gnome-online-accounts, gnome-online-miners, *gnome-photos*

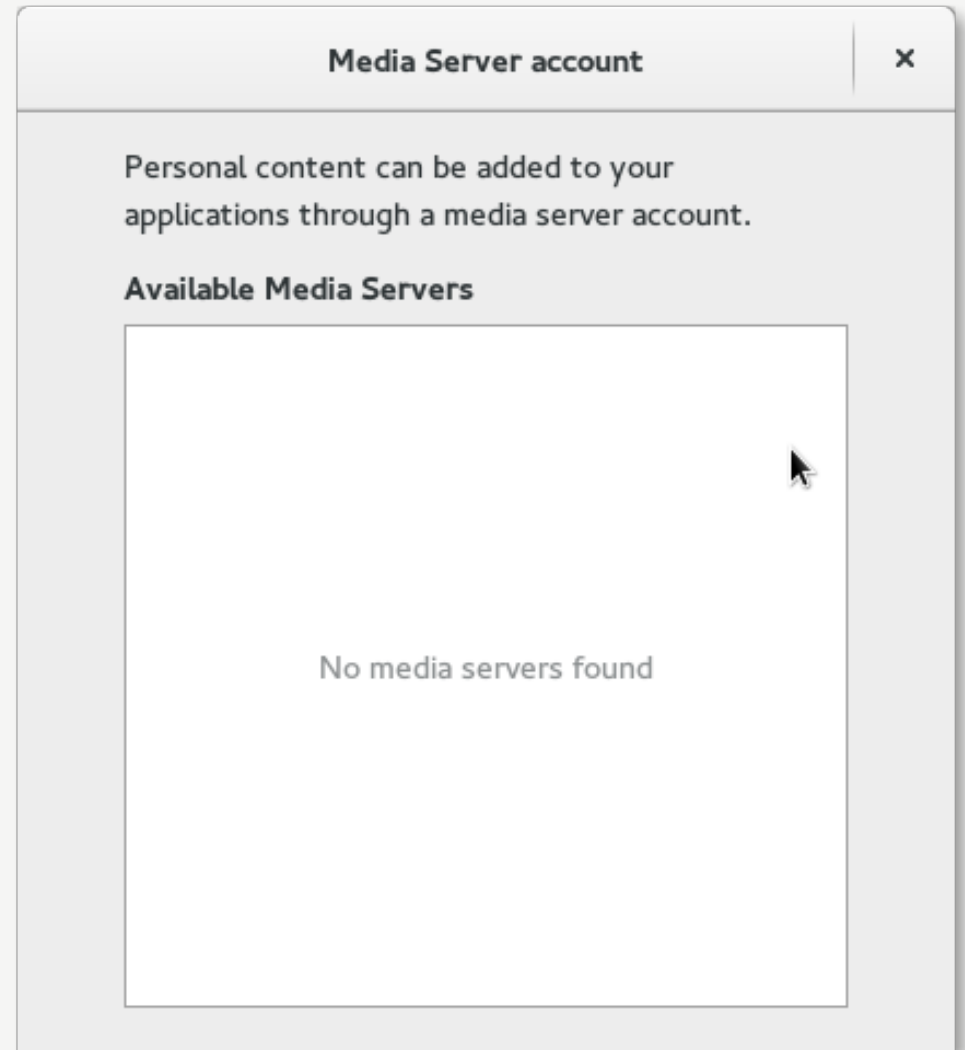
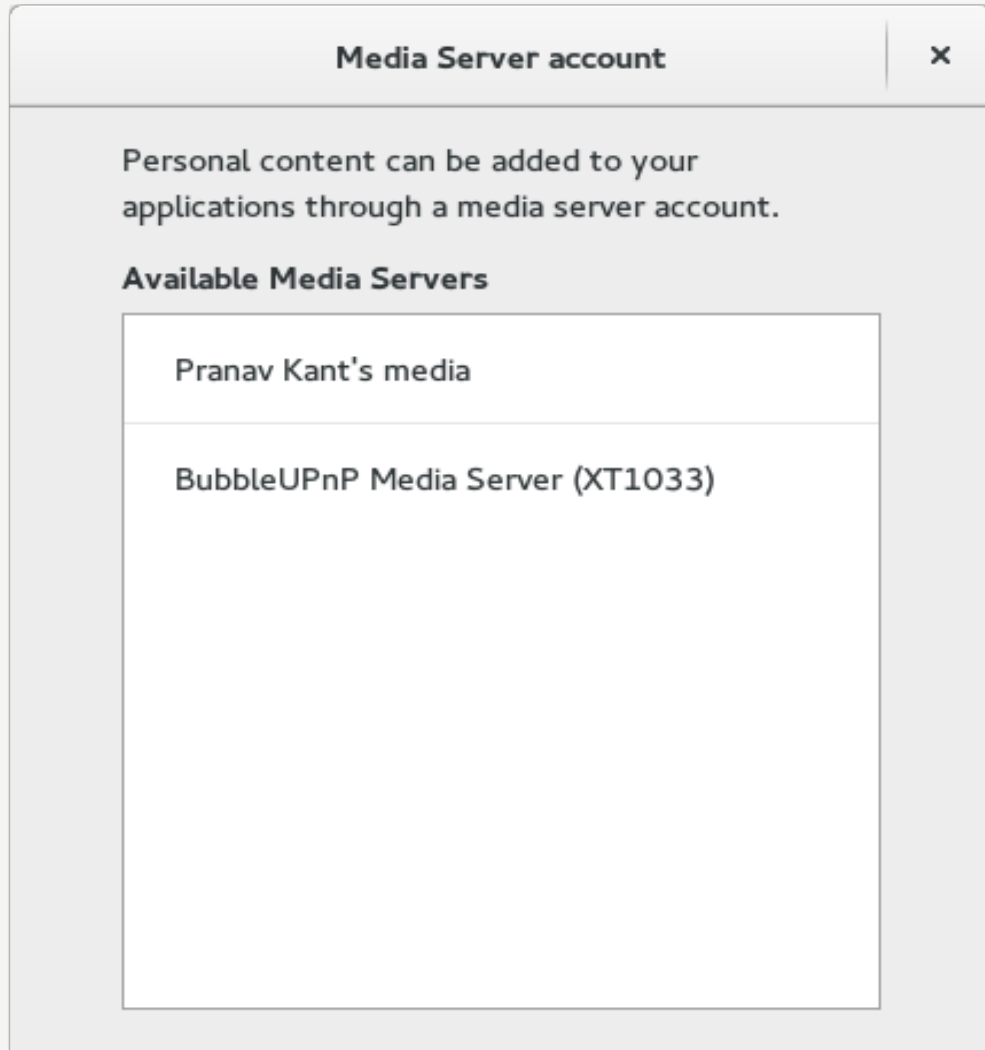
Mentor: Debarshi Ray

# Important Keywords

---

- DLNA server – serves the media content
- DLNA renderer – renders the media content
- DLNA controller – controls the flow of media content between server and renderer
- Libraries
  - dleyna-server - Provides a D-Bus API to browse available servers and contents
  - dleyna-renderer - Provides a D-Bus API to browse available renderers and push contents

# gnome-online-accounts

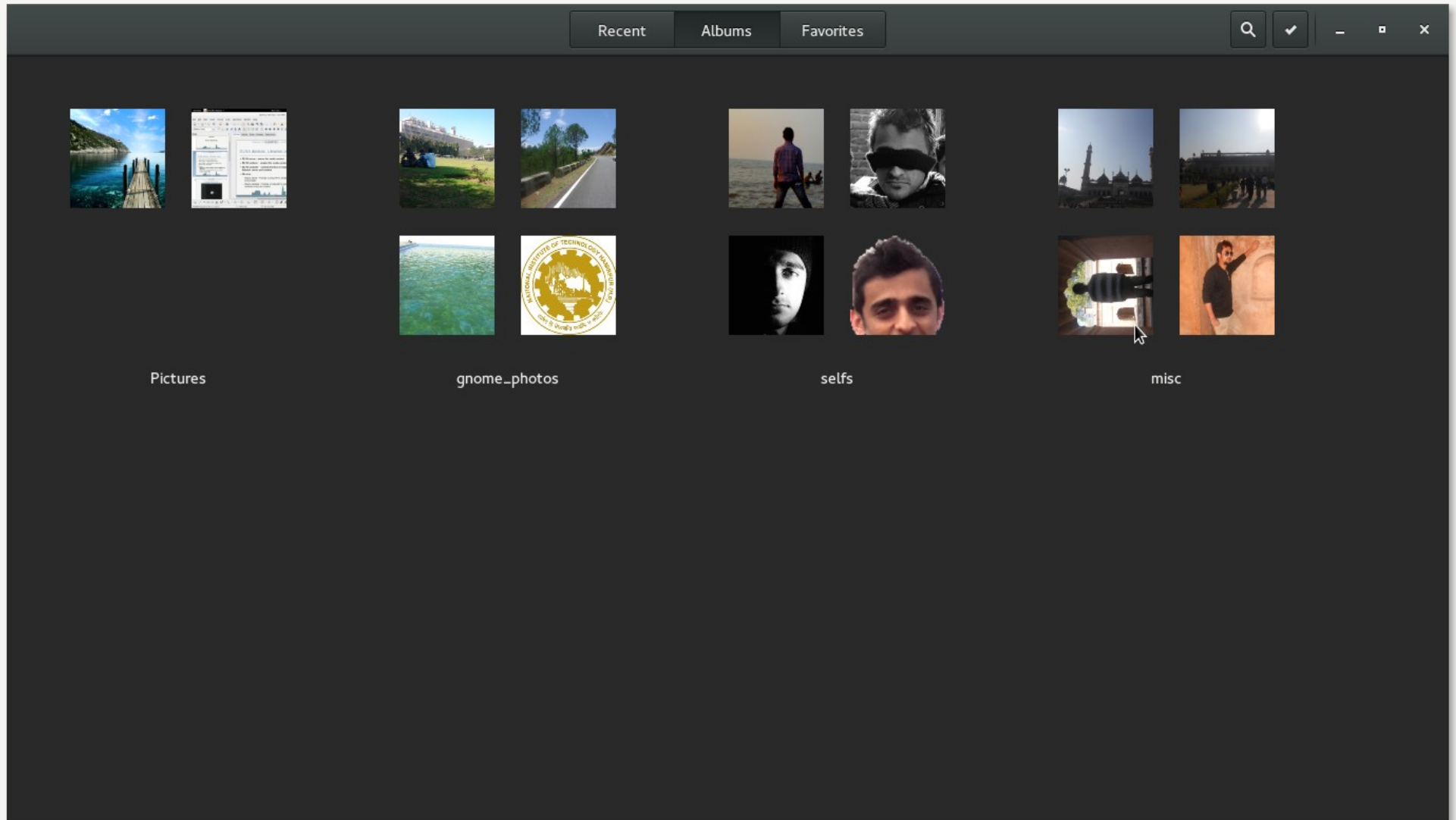


# gnome-online-miners

---

- Core of the project lies under this module
- Interacts with dleyna-server and puts the data into tracker.
- Searchable and non-searchable DLNA devices
- Efficiency in mining non-searchable DLNA devices
- Parsing the directory structure and creates collections in tracker

# gnome-photos





# GTG: Revamp backend's experience

Parth P Panchal (prth)

Mentor: Nimit Shah



# Google tasks



## Getting Things Gnome



# Authentication



**Getting Things Gnome** ▾

This app would like to:



Manage your tasks



Getting Things Gnome and Google will use this information in accordance with their respective terms of service and privacy policies.

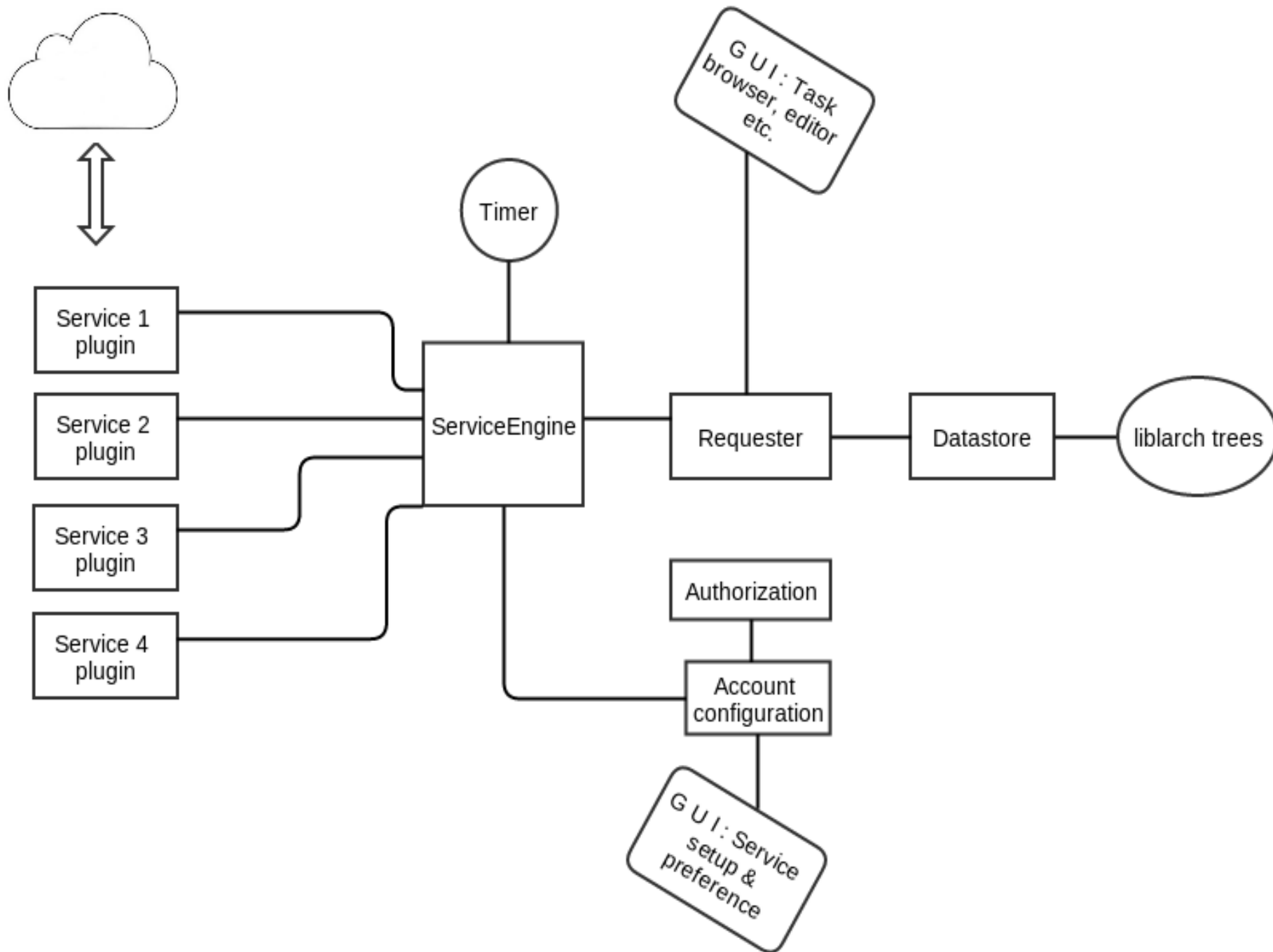
Cancel

Accept

The multi-colored Google logo is displayed on a light grey rectangular background.

Please copy this code, switch to your application and paste it there:





# Help Documentation

---

## GNOME Music

Shobha Tyagi

Mentor: Ekaterina Gerasimova



# Music Help

Page View Go Bookmarks

⏪ ⏩  ☆ ▾

## Music

[Introduction to Music](#)  
A simple and elegant replacement for using files to show the music directory.

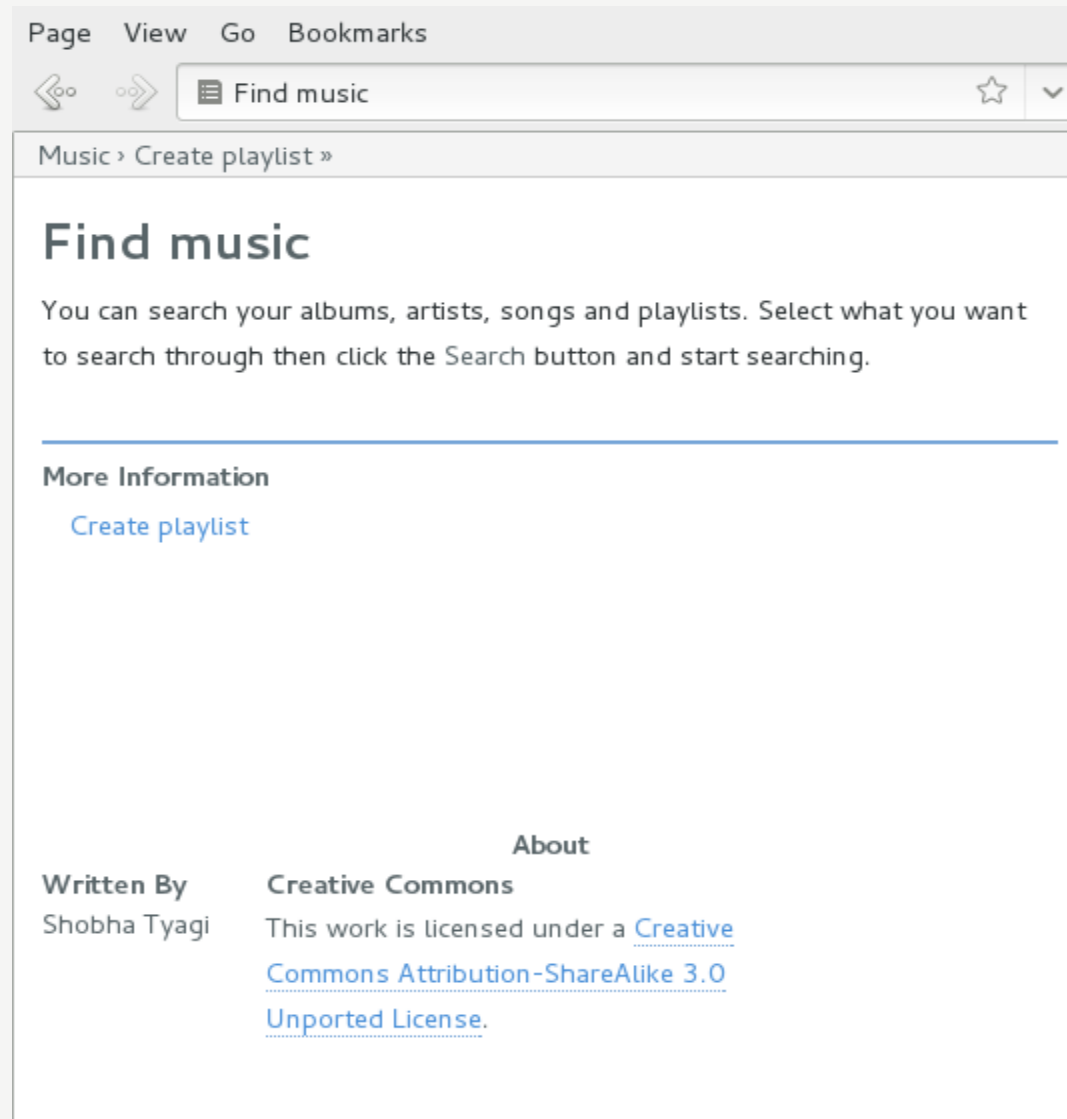
### Create playlist

<a href="#">Create a playlist using albums</a> Add songs to playlists using albums.	<a href="#">Create playlists using songs</a> Create playlist by selecting your favorite songs.
<a href="#">Create playlists using artists</a> Create playlist by selecting your favorite artists.	<a href="#">Find music</a> Search through your music collection.

### Play a song

<a href="#">How do I play songs on repeat?</a> Repeat all songs in the playlist or only the current song.	<a href="#">Play music</a> Play your favorite songs.
<a href="#">How do I shuffle my songs?</a> Shuffle songs in the playlist.	

# A help page



The screenshot shows a web browser window with a menu bar containing 'Page', 'View', 'Go', and 'Bookmarks'. The address bar contains 'Find music' with a search icon, a star icon, and a dropdown arrow. The page content is titled 'Music > Create playlist »' and features a main heading 'Find music'. Below the heading is a paragraph: 'You can search your albums, artists, songs and playlists. Select what you want to search through then click the Search button and start searching.' A horizontal line separates this from a 'More Information' section containing a link 'Create playlist'. At the bottom, there is an 'About' section with 'Written By Shobha Tyagi' and 'Creative Commons' information: 'This work is licensed under a Creative Commons Attribution-ShareAlike 3.0 Unported License.'

Page View Go Bookmarks

Find music

Music > Create playlist »

## Find music

You can search your albums, artists, songs and playlists. Select what you want to search through then click the Search button and start searching.

---

### More Information

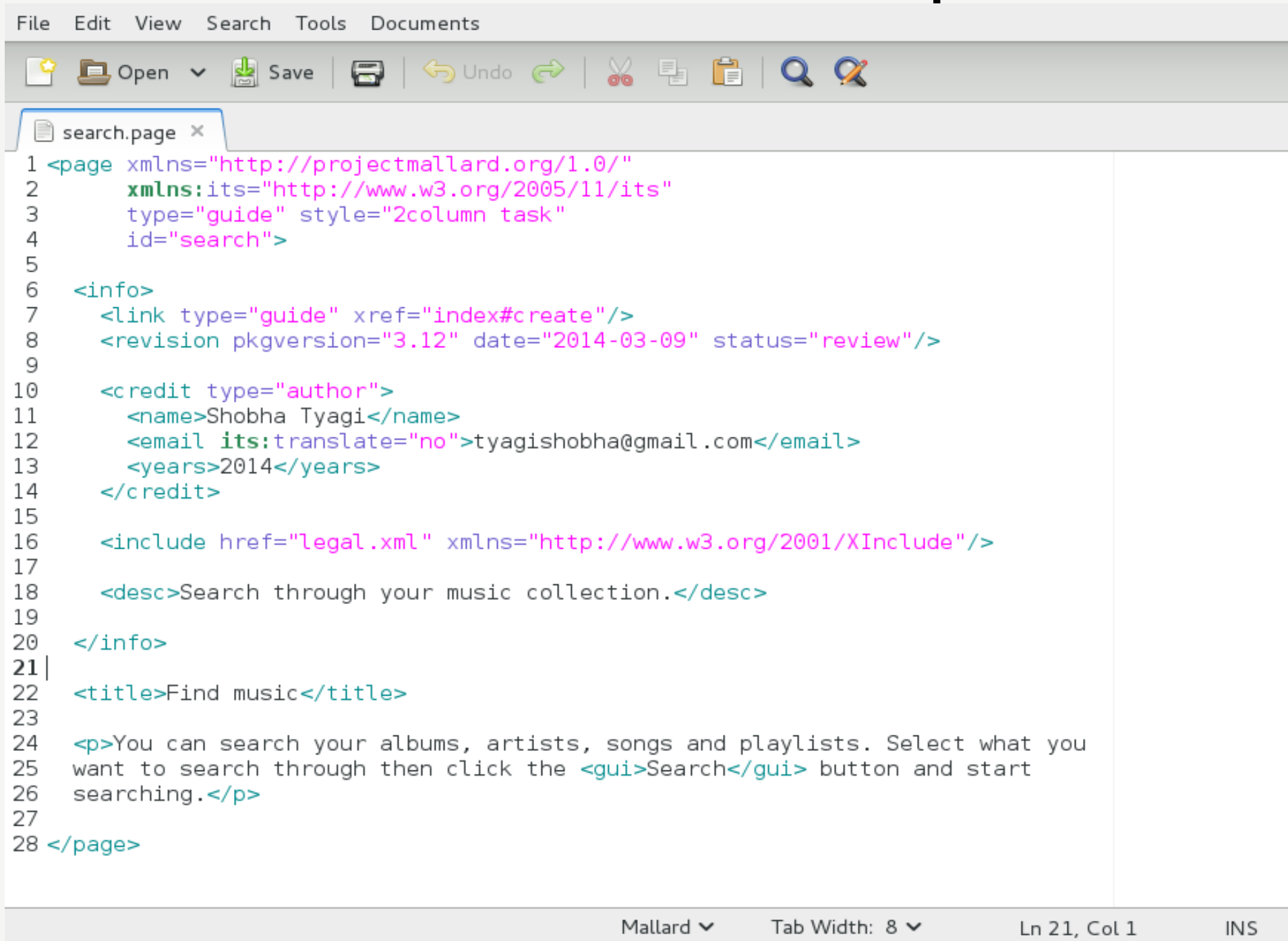
[Create playlist](#)

### About

**Written By**  
Shobha Tyagi

**Creative Commons**  
This work is licensed under a [Creative Commons Attribution-ShareAlike 3.0 Unported License](#).

# How we create help?



The image shows a text editor window with a menu bar (File, Edit, View, Search, Tools, Documents) and a toolbar with icons for Open, Save, Print, Undo, Redo, Cut, Copy, Paste, Find, and Undo. The editor has a single tab titled 'search.page'. The code is XML, with line numbers 1 through 28 on the left. The code defines a page with a title 'Find music' and a paragraph of text. The code is as follows:

```
1 <page xmlns="http://projectmallard.org/1.0/"
2     xmlns:its="http://www.w3.org/2005/11/its"
3     type="guide" style="2column task"
4     id="search">
5
6 <info>
7   <link type="guide" xref="index#create"/>
8   <revision pkgversion="3.12" date="2014-03-09" status="review"/>
9
10  <credit type="author">
11    <name>Shobha Tyagi</name>
12    <email its:translate="no">tyagishobha@gmail.com</email>
13    <years>2014</years>
14  </credit>
15
16  <include href="legal.xml" xmlns="http://www.w3.org/2001/XInclude"/>
17
18  <desc>Search through your music collection.</desc>
19
20 </info>
21 |
22 <title>Find music</title>
23
24 <p>You can search your albums, artists, songs and playlists. Select what you
25 want to search through then click the <gui>Search</gui> button and start
26 searching.</p>
27
28 </page>
```

The status bar at the bottom shows 'Mallard', 'Tab Width: 8', 'Ln 21, Col 1', and 'INS'.



# My Internship taught me

---

- JHBuild
- Git
- Mallard
- Yelp

# F-Spot

---

Finishing the port to use GTK3

Valentín Barros <valentin@sanva.net>

Mentor: Stephen Shaw

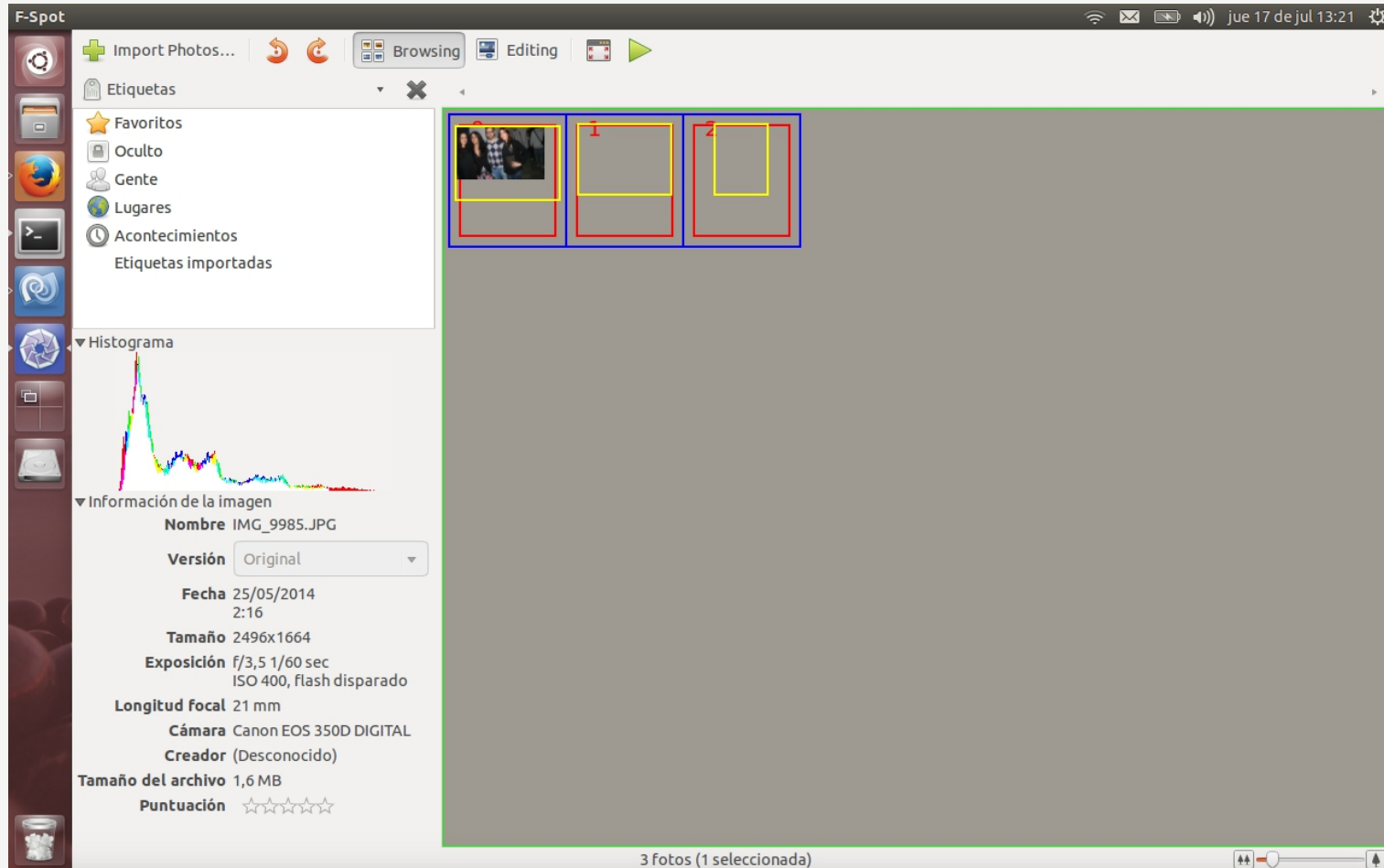


# Port *@todo* tasks (1/2)

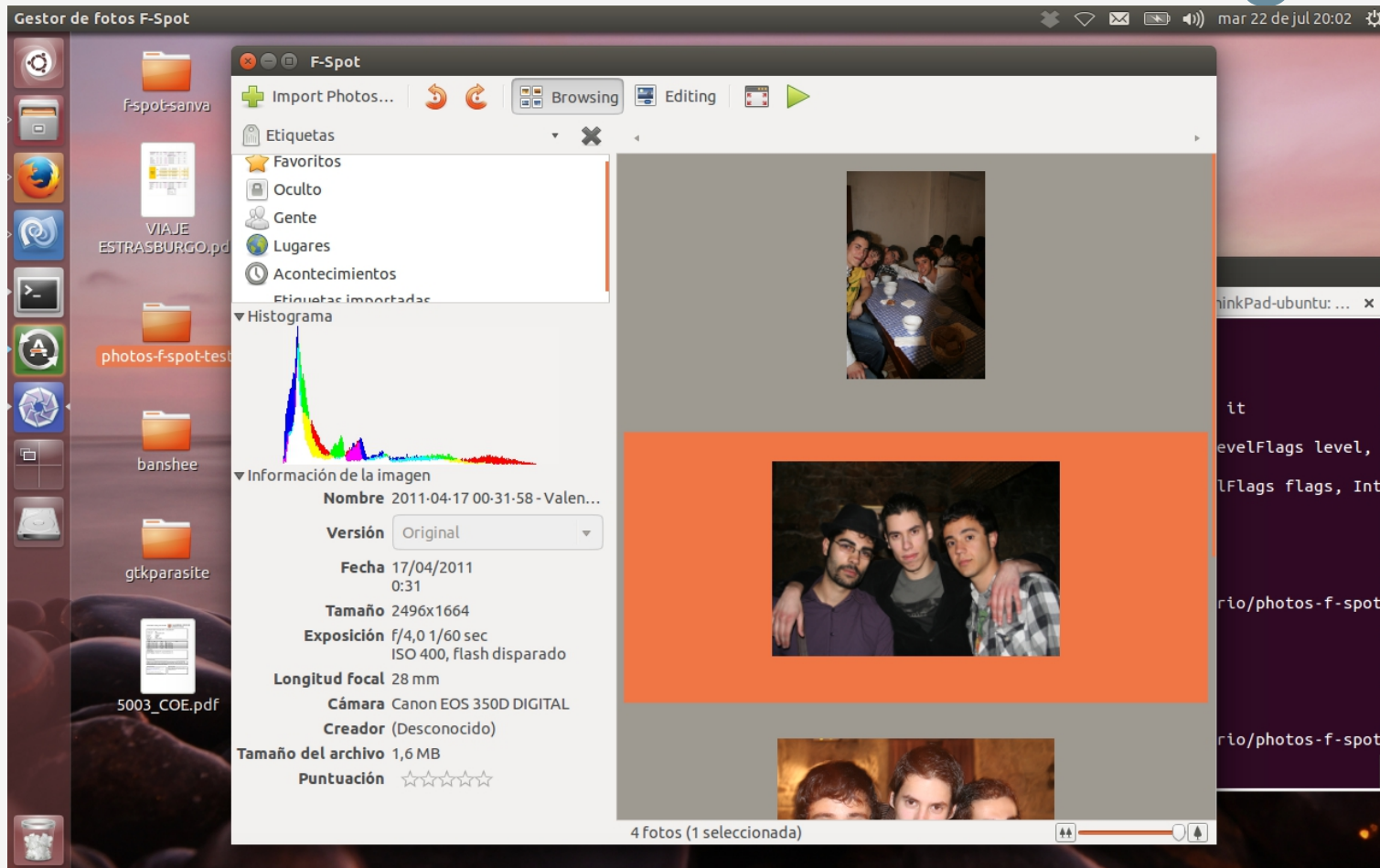
---

- Done tasks
  - Being able to compile the program
  - Being able to run the program
- Doing tasks
  - Fix all kind of deprecation warnings
  - Restore missing behavior —even image painting...

# 3 photos (1 selected)



# Now we have thumbnails again



# Port *@todo* tasks (2/2) and thanks

---

- More tasks...
  - Investigate and fix lots of crashes
  - End port of libunique to GtkApplication

(: **Thanks** a lot to Google, GNOME Foundation and Mono Project for accepting me again :)

# Google Summer of Code 2014

---

TV Shows support in GNOME Videos and  
MusicBrainz in GNOME Music with Grilo

Victor Toso de Carvalho

Mentor: Bastien Nocera



# TV Show with The TVDB

---

- Open database for tv shows
- Description, actors, posters, release date, etc.
- Cache with GOM
- Upstream: grlthetvdb



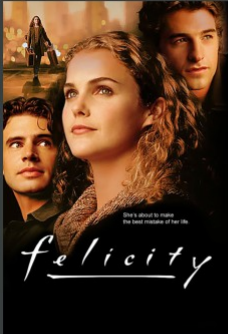


# UI Integration with GNOME Videos

## Current

## Goal

Totem TV Shows
✕



Felicity
Forward →

**Summary**

Felicity and Ben begin a community service assignment at the student health center. Felicity chooses that assignment because she wants to help others, while Ben just wants to be around Felicity. The head of the clinic, Greg, acts very rude and condescending toward them. He tries to get Felicity to convince Ben to leave because he is getting in the way. Ben quits, but Felicity decides to stick around because she enjoys working with the patients. Ruby learns that she is indeed pregnant, and plans to have an abortion. Ben finds out what is going on when he processes Ruby's file. He tries to see Noel and tell him that he has been in a similar situation, but Noel just orders him to butt out. Felicity doesn't know what to say when she sees Noel in the clinic's waiting room. Ruby cannot go through with the abortion, and runs out in tears. She decides to have the baby and raise it herself. Noel is terrified by the prospect of fatherhood. Felicity tries to calm him. Erik stands up f

**Cast**

Keri Russell, Amy Jo Johnson, Scott Speedman, Scott Foley, Amanda Foreman, Ian Gomez, Greg Grunberg, Jennifer Garner, Tangi Miller

**Directors**

Robert M. Williams Jr.

**Guests**

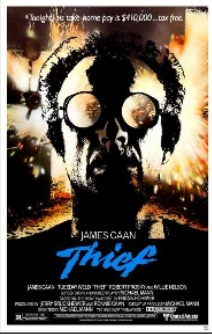
Bruce Nozick, Adam Rodriguez, Kevin G. Sutherland

Watch now

Released 2000

Runtime 50 min

Thief
☆ ⚙



**Summary**

Michael Mann directs James Caan as a professional safecracker named Frank, who specializes in high-profile diamond heists. Frank plans to use his ill-gotten income to retire from crime and build a nice life for himself complete with a home, wife and kids. To accelerate this process, he signs on with a top gangster (Robert Prosky) for a big score. But when Frank tries to quit the job, the mob comes after him and his girlfriend (Tuesday Weld).

**Cast**

James Caan, Tuesday Weld, Willie Nelson.

**Director**

Michael Mann

**Writers**

Michael Mann (screenplay), Frank Hohimer (novel)

Watch Now

Released 1981

Runtime 122 min



# AcoustID

---

- Free database for audio fingerprints
- Provides MusicBrainz IDs
- GStreamer + Chromaprint plugin
- Not upstream yet... a few fixes needed!



# Next

---

- TVDB integration with GNOME Videos
- Polishing AcoustID source
- MusicBrainz as Grilo source
- Fanart.tv as Grilo source
- Bug fixes!



# Evolution

---

A PKCS#11 module to fetch X509 certificates

Watson Yuuma Sato

Mentor: David Woodhouse



# Send S/MIME encrypted email

---

- Evolution can send S/MIME encrypted mail
- Recipient Certificate
  - NSS Certificate Store
  - Evolution Addressbook
    - Vcard
    - LDAP repository
- NSS uses PKCS#11 modules

# Current Status

---

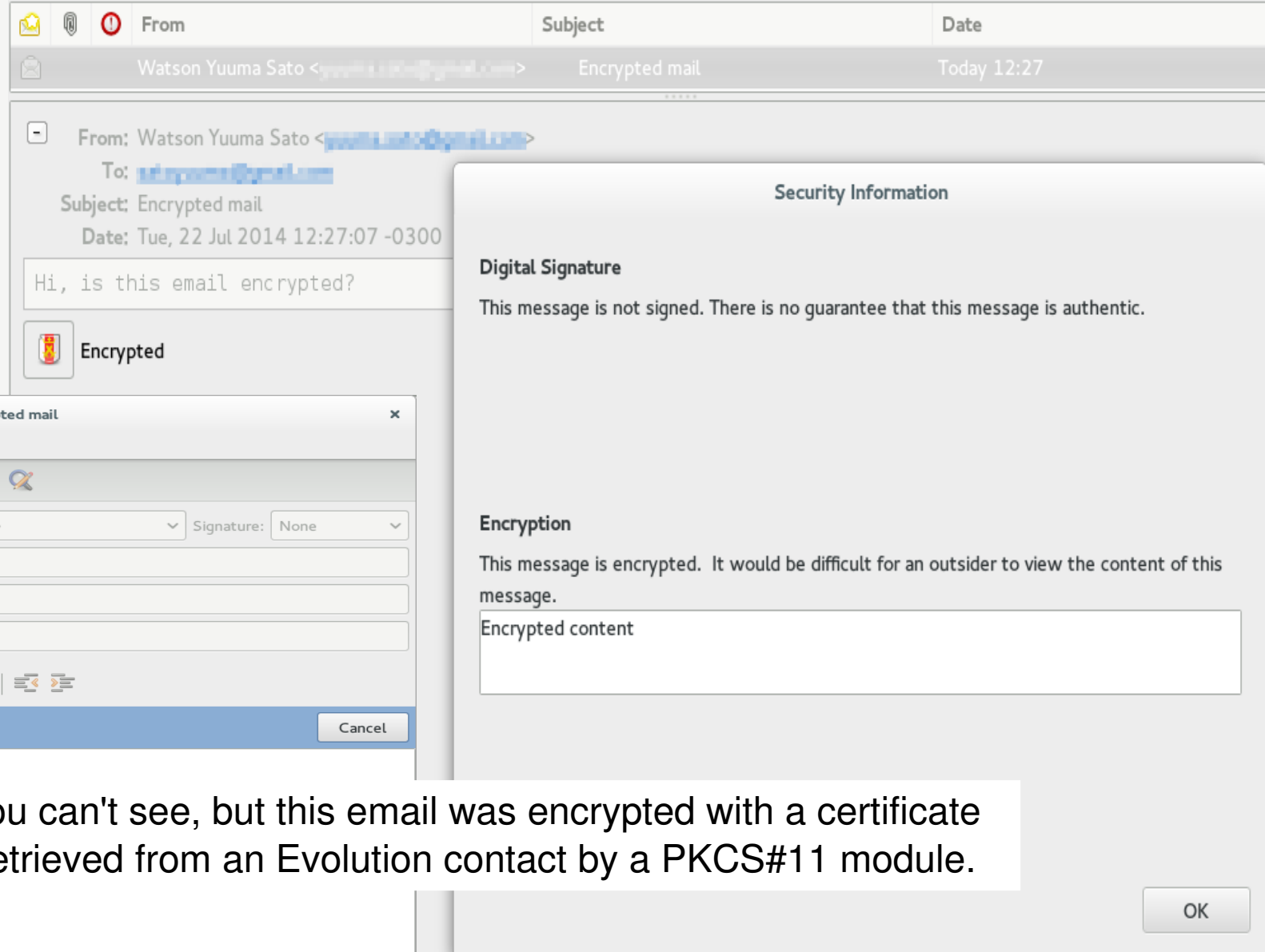
- Fetch certificates from addressbook
  - Local addressbook
  - Google addressbook
- Provide certificates to Evolution
  - When listing all certificates
  - When S/MIME encrypting email

# Certificate Store / Contacts

The image displays three overlapping windows from the Evolution email client:

- Evolution Preferences:** The 'Contact Certificates' tab is active, showing a list of certificates. The 'Sato Yuuma' certificate is selected, with email address 'sato.yuuma@gmail.com' and serial number '01'. Other certificates listed include 'Global Trustee' and 'Google Ltd.' with various email addresses and serial numbers.
- Contact Editor - alt, Sato:** This window shows the details for a contact named 'alt, Sato'. The 'Full Name' field contains 'Sato', and the 'File under' dropdown is set to 'alt, Sato'. The 'Work Email' field is populated with 'sato.yuuma@gmail.com'. Other fields for Home Email, Business Phone, Home Phone, Work SIP, Home SIP, AIM, and Yahoo are empty.
- Contact List:** A small window showing a list of contacts. The contact 'alt, Sato' is selected, and a tooltip displays their full name and work email.

# Sending / receiving encrypted email



You can't see, but this email was encrypted with a certificate retrieved from an Evolution contact by a PKCS#11 module.



# Interns' Lightning Talks

---

