Interns' Lightning Talks

GNOME Keysigning

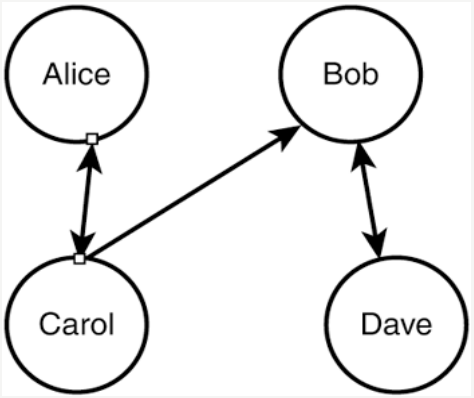
A tool for signing OpenPGP keys

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



- Drawback of Keysigning Parties :

  - many steps involved to sign a key

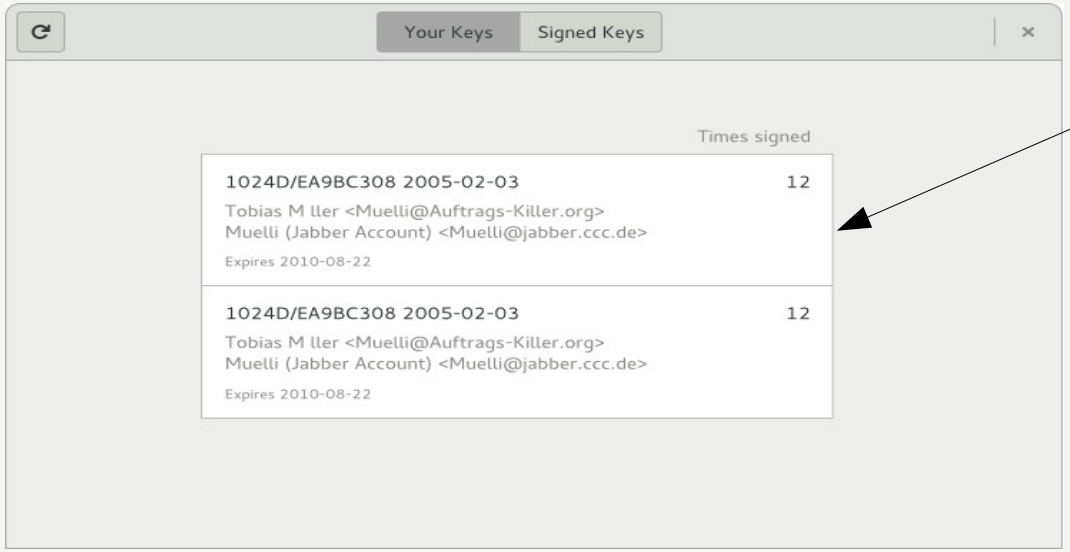
  - it can last a few hours

  - 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

- 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

debian

"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:

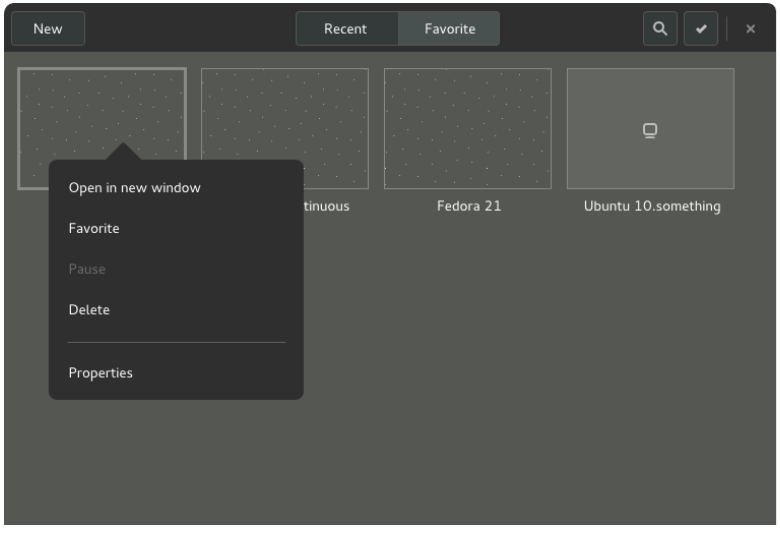
- running multiple boxes, each in its own window
- having multiple displays per machine

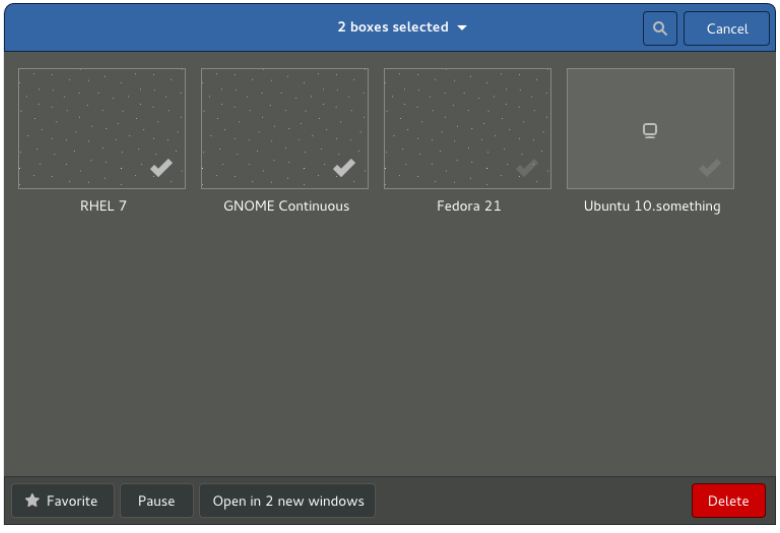
First weeks:

- getting customed to Boxes' code
- testing the different ideas

Mockup I

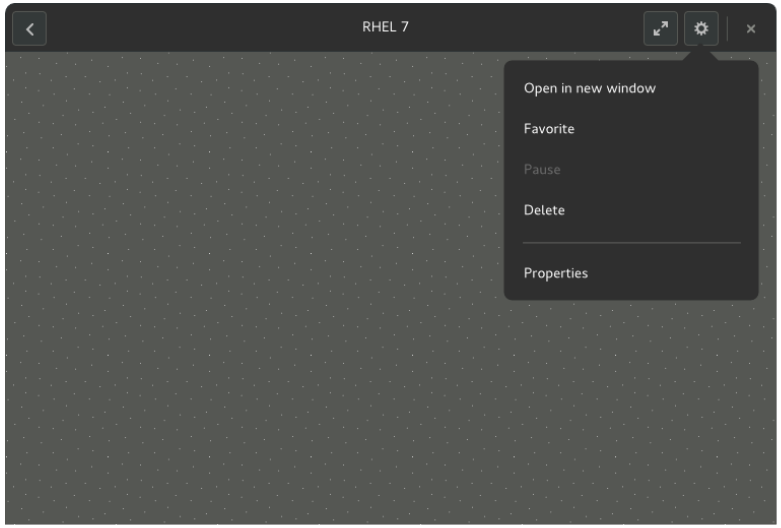
We decided on running multiple boxes as the main goal
Here are mockups by Jakub Steiner (jimmac)

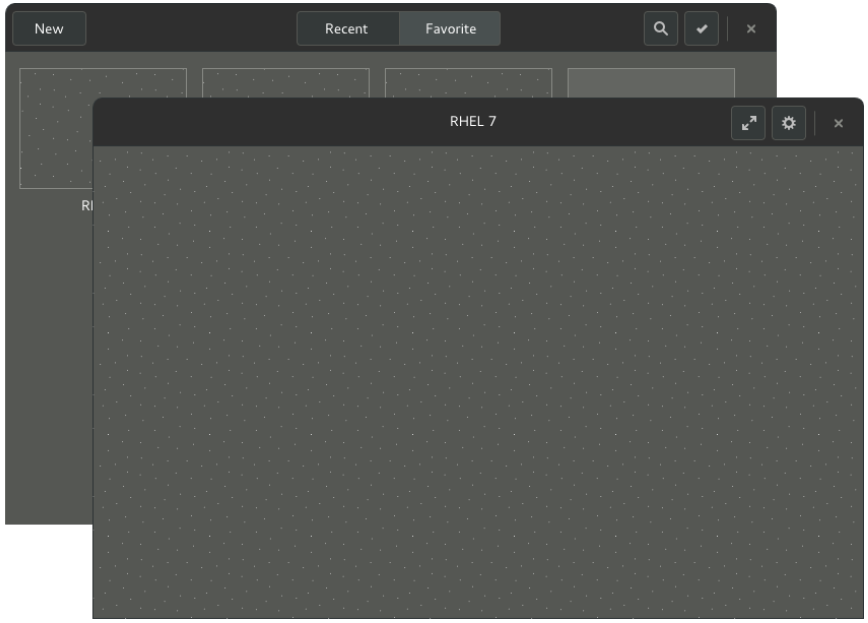




Mockup II

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

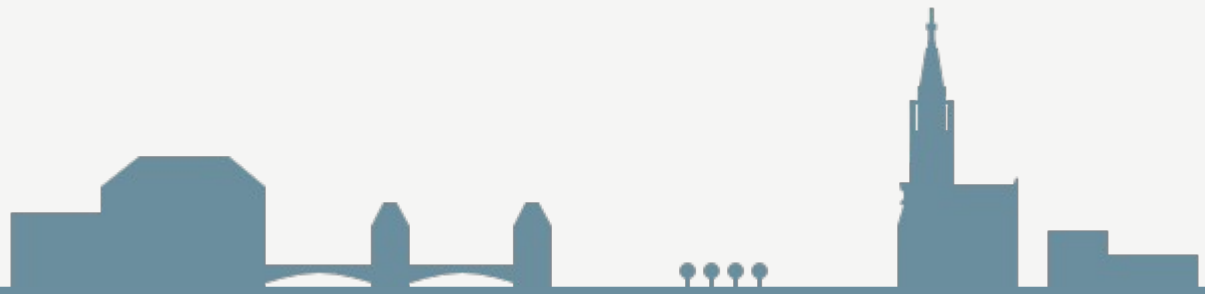
Hardening Sprint,

Express Installation Improvements

and ISO Downloading

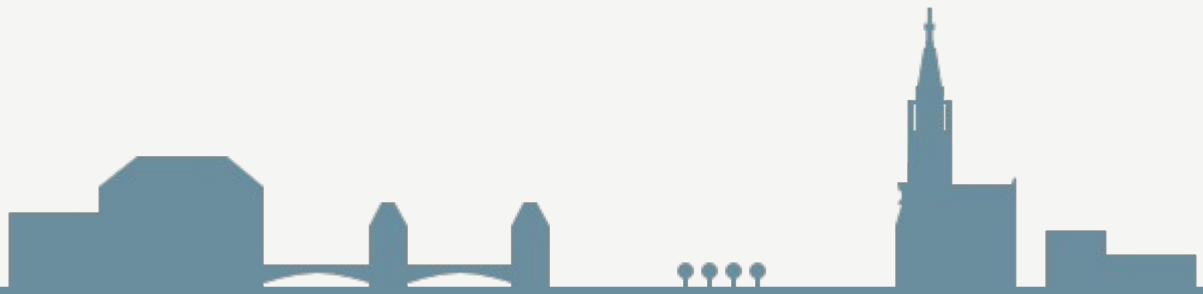
Lasse Schuirmann

Mentor: Zeeshan Ali Khattak



Hardening Sprint

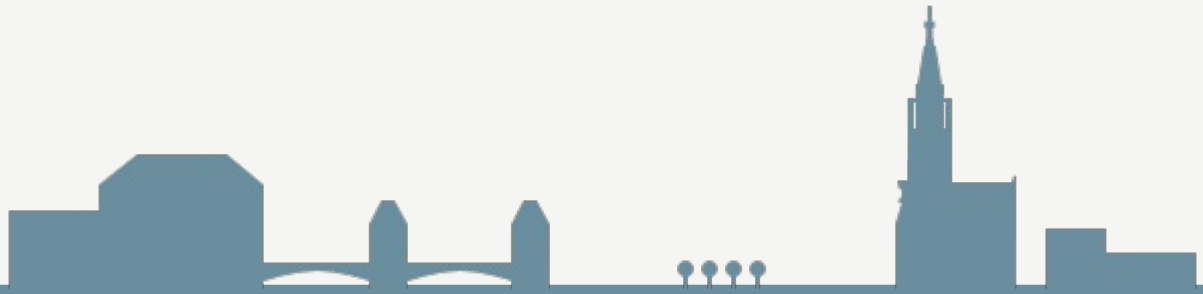
- Bugfixing
- Bugfiling
- Triaging
- Code Review

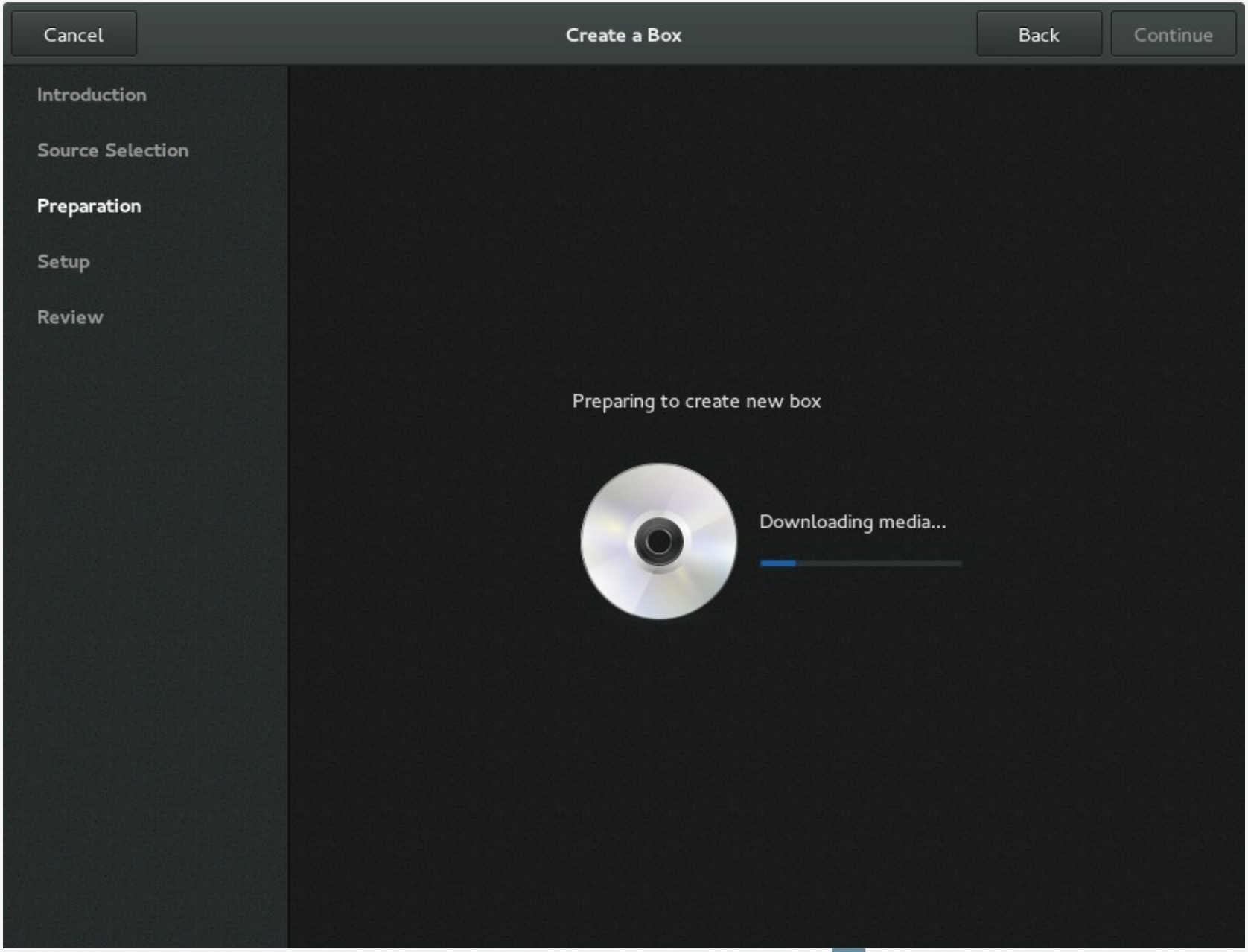


This non-free logo is not available for your country.

Express Installation

This non-free logo is not available for your country.

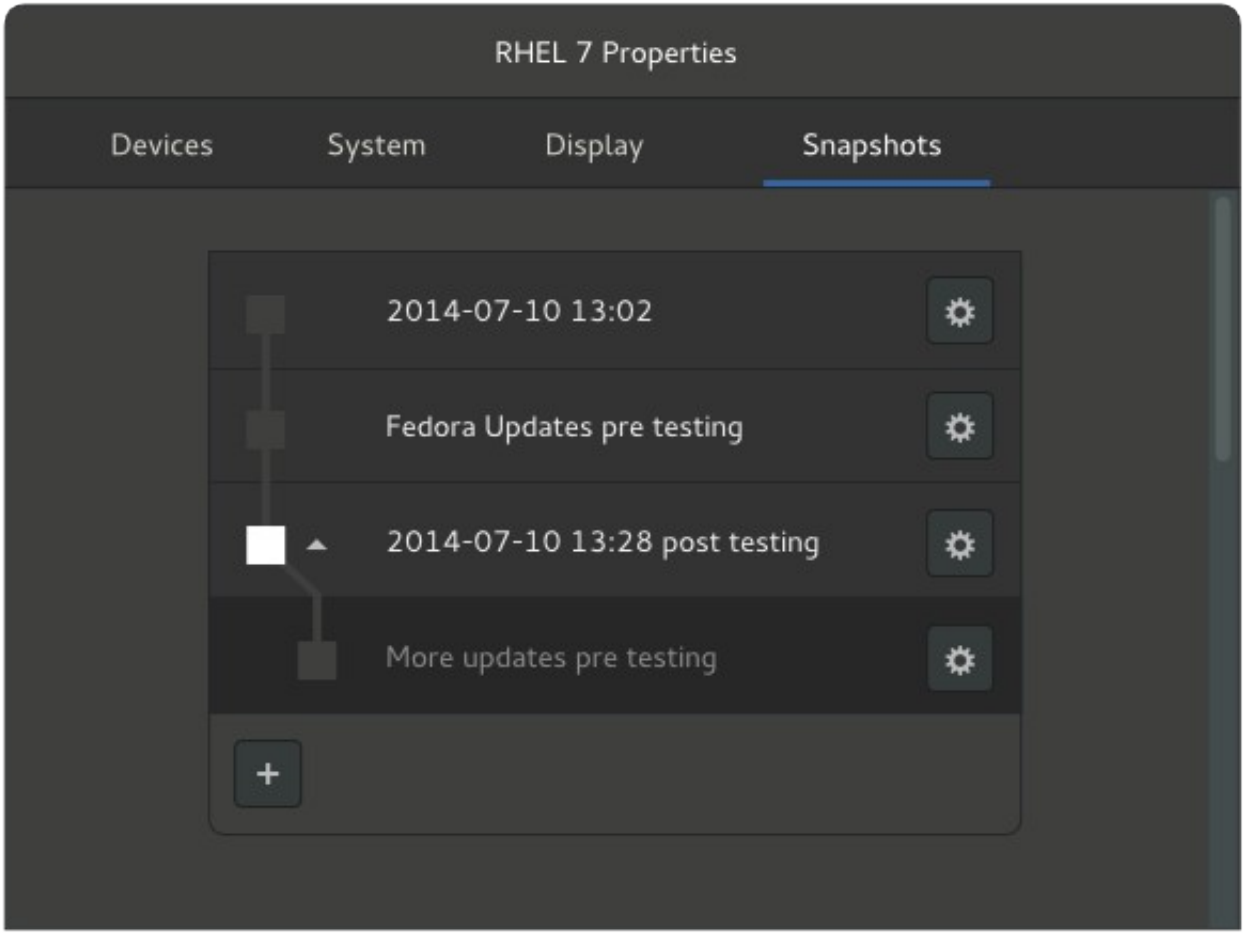



Cancel
Create a Box
Back
Continue
Introduction
Source Selection
Preparation
Setup
Review
Preparing to create new box
Downloading media...

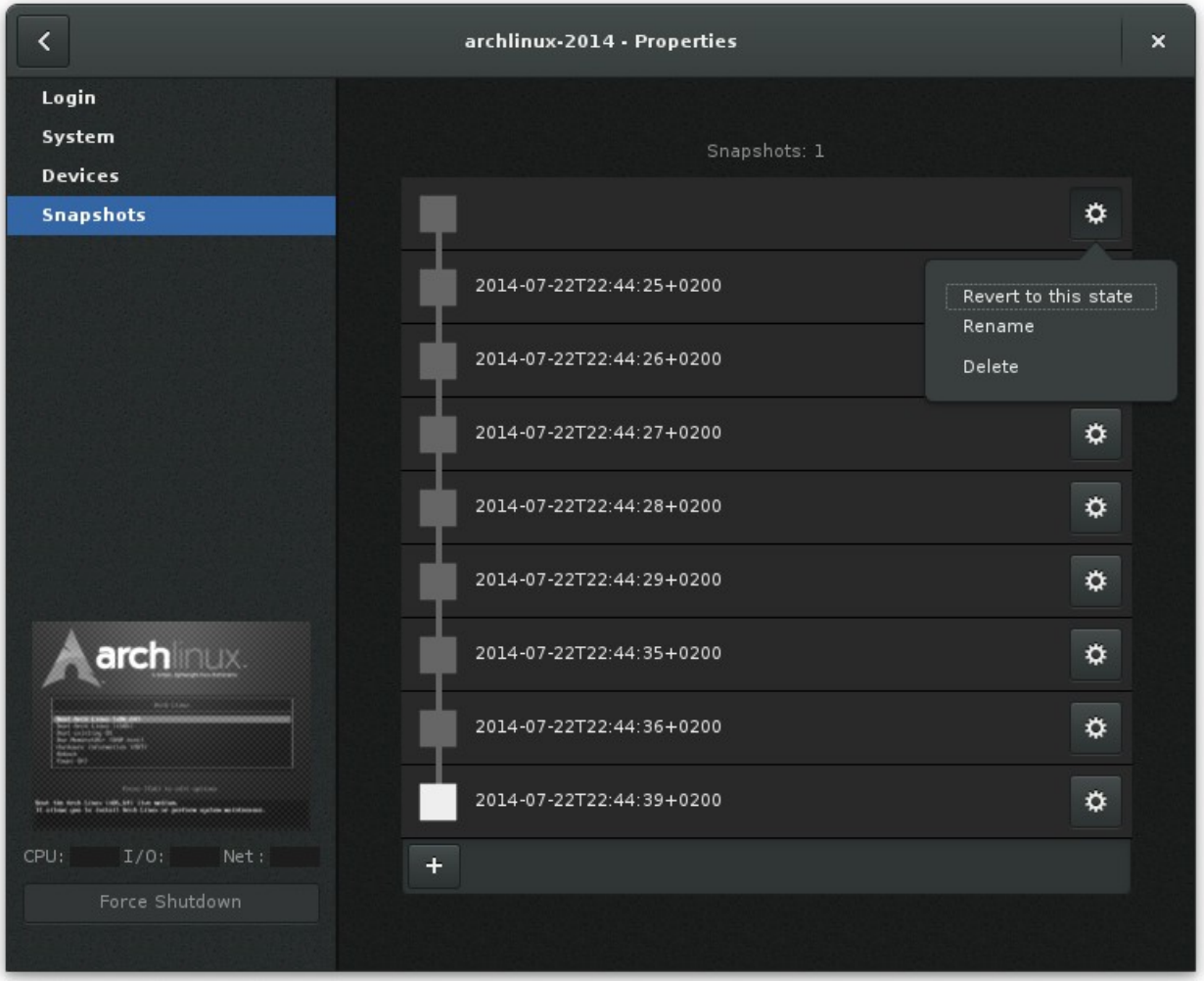
Snapshots in Boxes

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

Designs


RHEL 7 Properties
Devices
System
Display
Snapshots
2014-07-10 13:02
Fedora Updates pre testing
2014-07-10 13:28 post testing
More updates pre testing
+

Current status



To Do

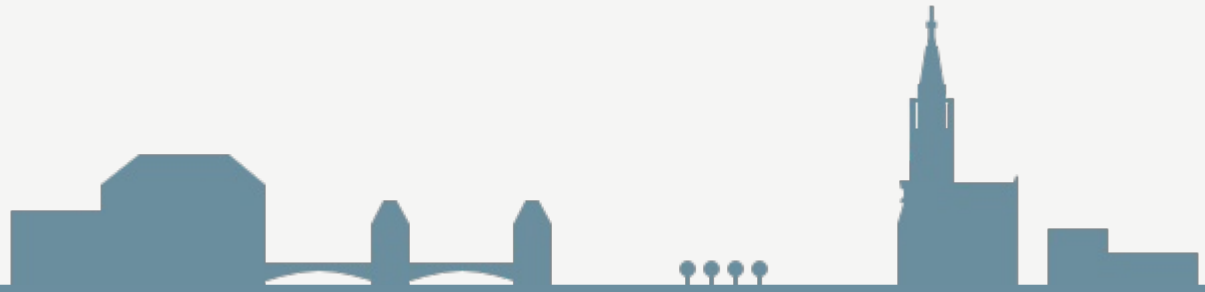
- Progress indication for various actions
- Automatic snapshots (e.g. after an unattended OS installation)
- Better error handling
- Functionality: Renaming(, dead ends)

Automated tests for applications

Automated tests for applications in GnomeContinuous

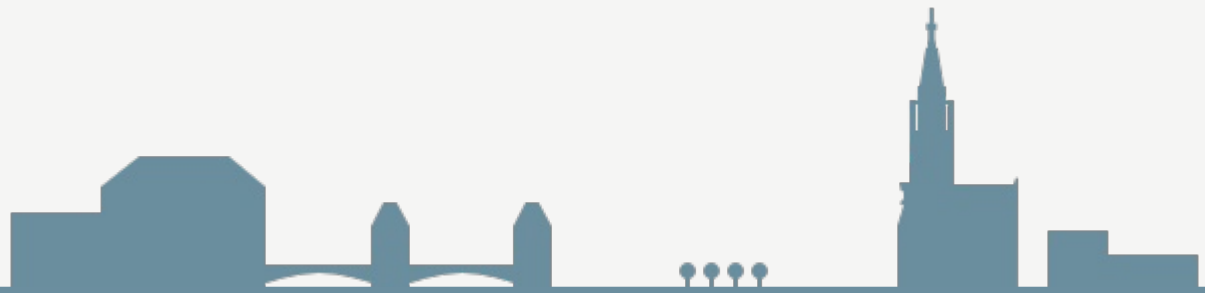
Martin Simon

Mentor: Vladimir Benes



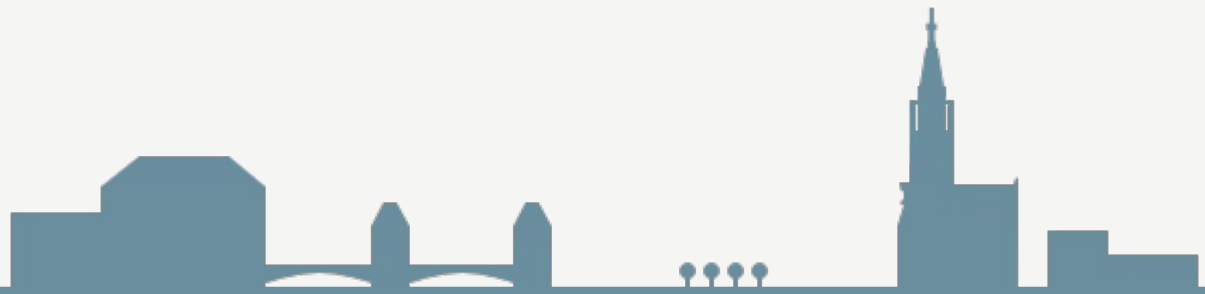
Project highlights

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



Results (so far)

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

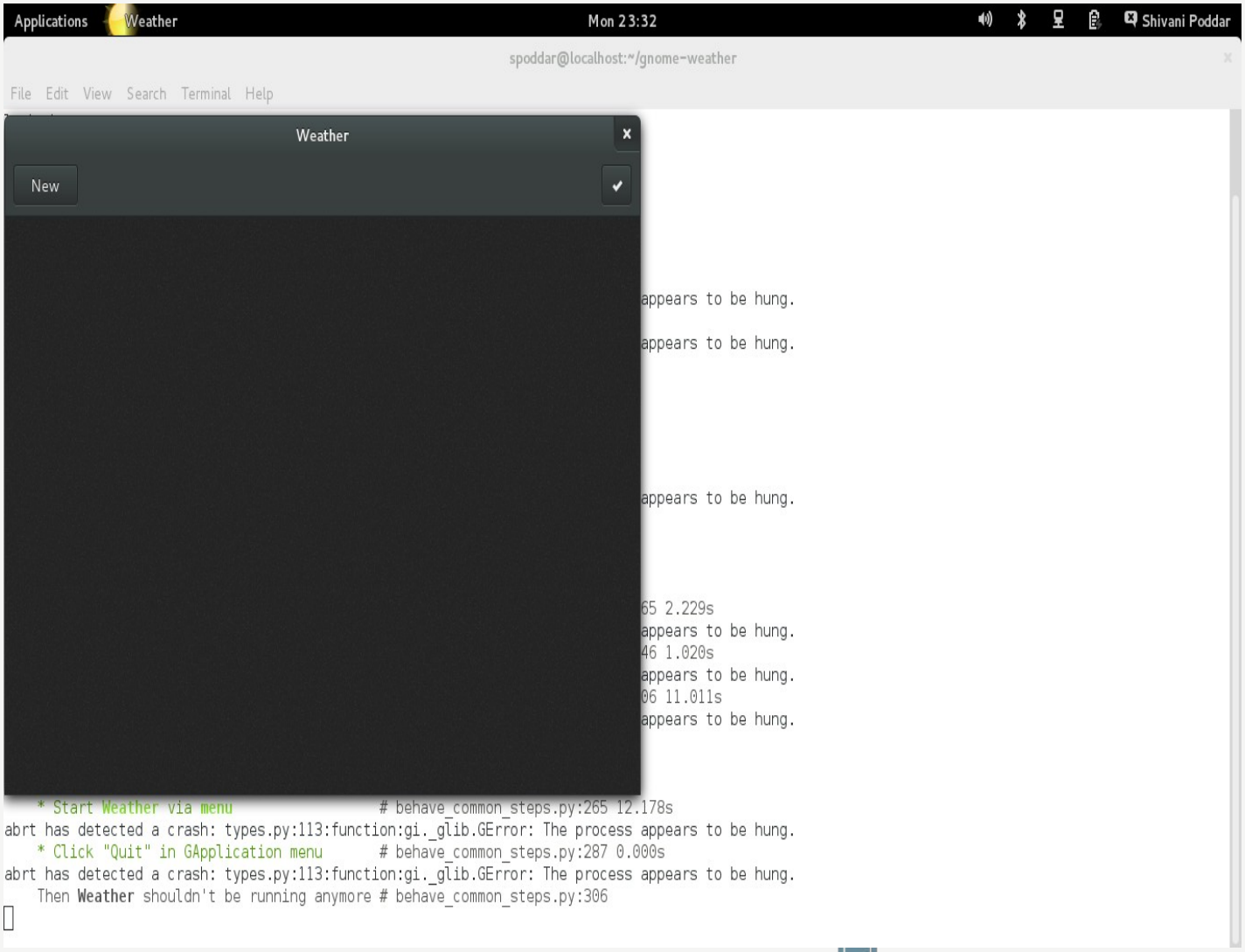


Automated tests for applications in GnomeContinuous

Shivani Poddar

Mentor: Vitezslav Humpa

Tests for gnome-weather & Evince



Components to be covered

P1

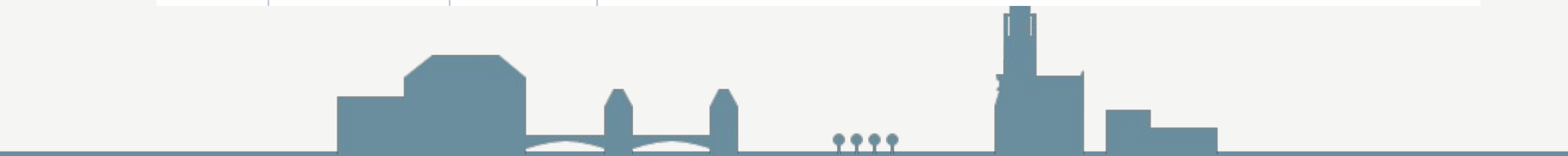
These applications are most important to cover with automated tests and should be automated at first. P1's are mostly new and core applications.

Application	Tester
evolution	Vadim Rutkovsky
gnome-control-center	
gnome-software	Martin Simon
gnome-weather	Shivani Poddar
nautilus	Martin Simon

P2

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

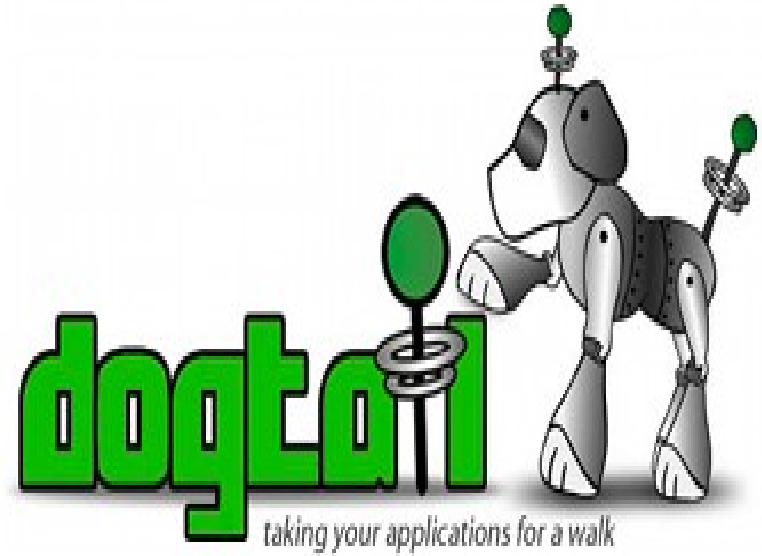
Application	Tester
empathy	
evince	Shivani Poddar
gedit	Martin Simon
gnome-contacts	
gnome-documents	
gnome-photos	
totem	



Tools Used

AT-SPI Browser

Browse your Assistive Technology-enabled desktop



Thank You :)

Gnome shell animations

Carlos Soriano Sánchez

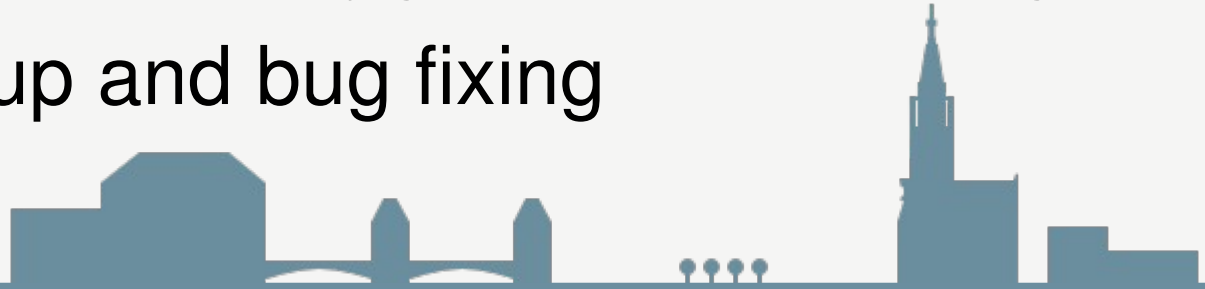
Mentor: Florian Müllner

Current state

- 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



Activities
Sat 10:03
Type to search...
Boxes
Blender
Cheese
Atom
Chat
Devhelp
DevAssistant
Eclipse C/C++...
Frequent
All

Thank you!

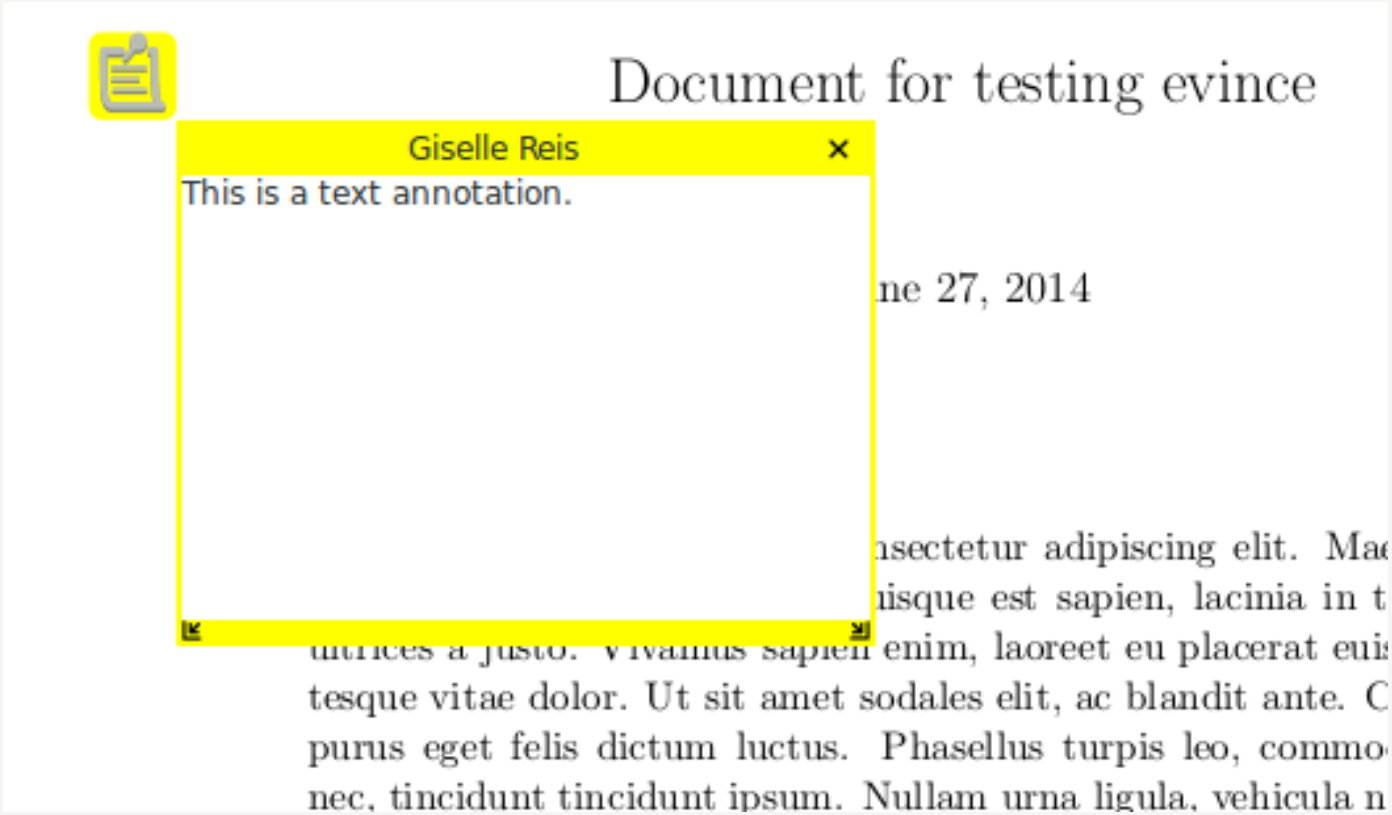
Evince: annotations

Post-it Notes-like annotations improvements

Giselle Machado

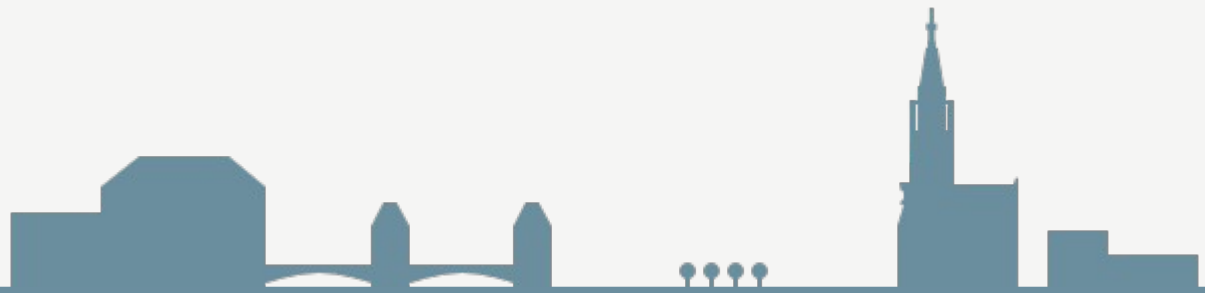
Mentor: José Aliste

Current annotation



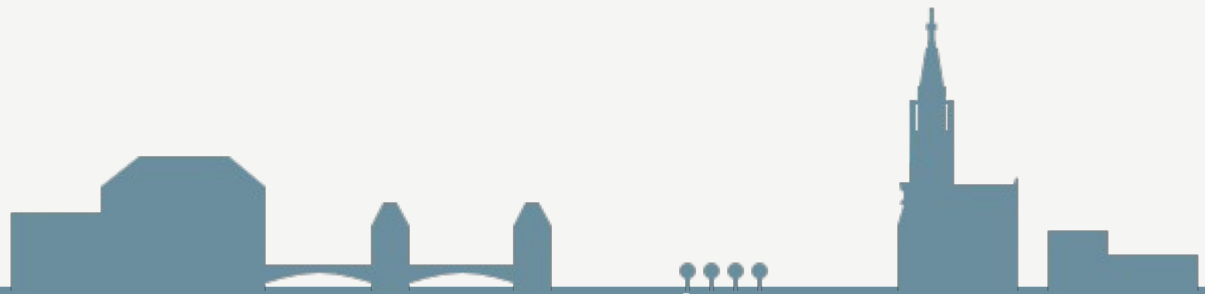
Problems

- 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.



The GNOME Conference

Strasbourg, FR • GUADEC • July 26 – August 1

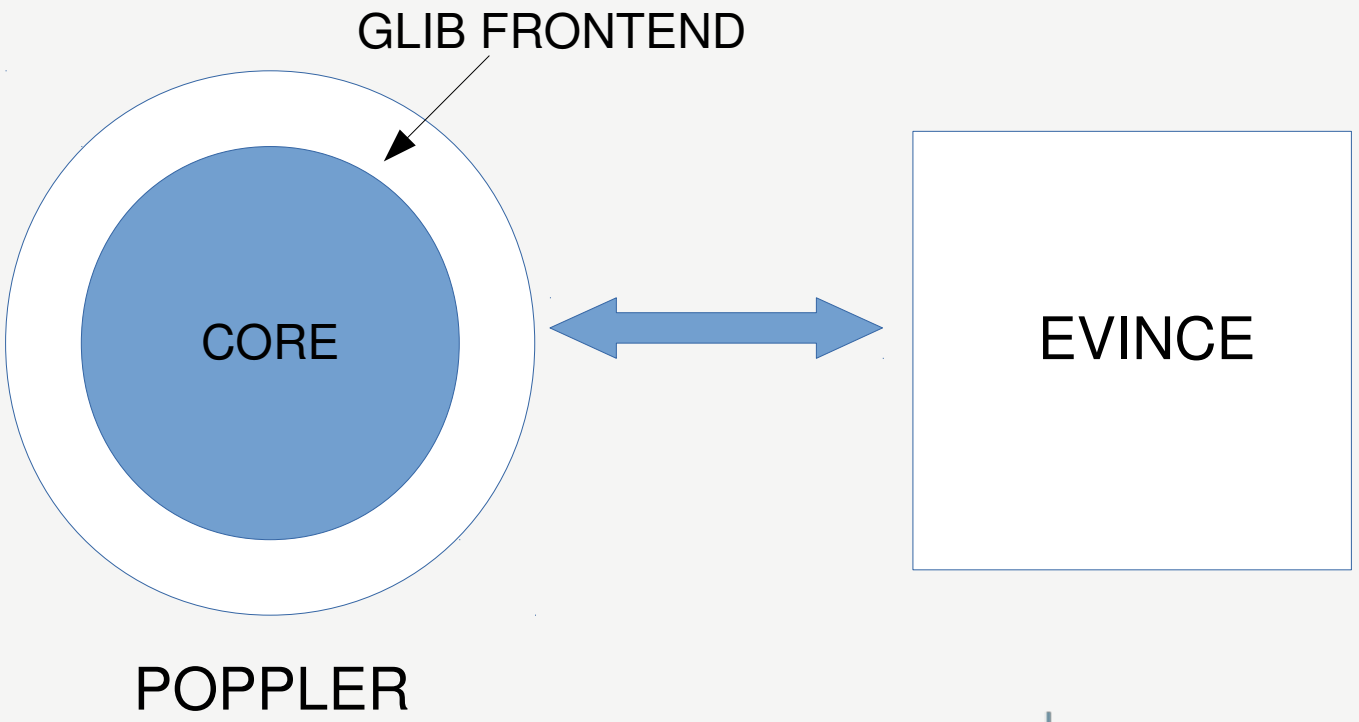
Evince

Annotation and Form Improvements

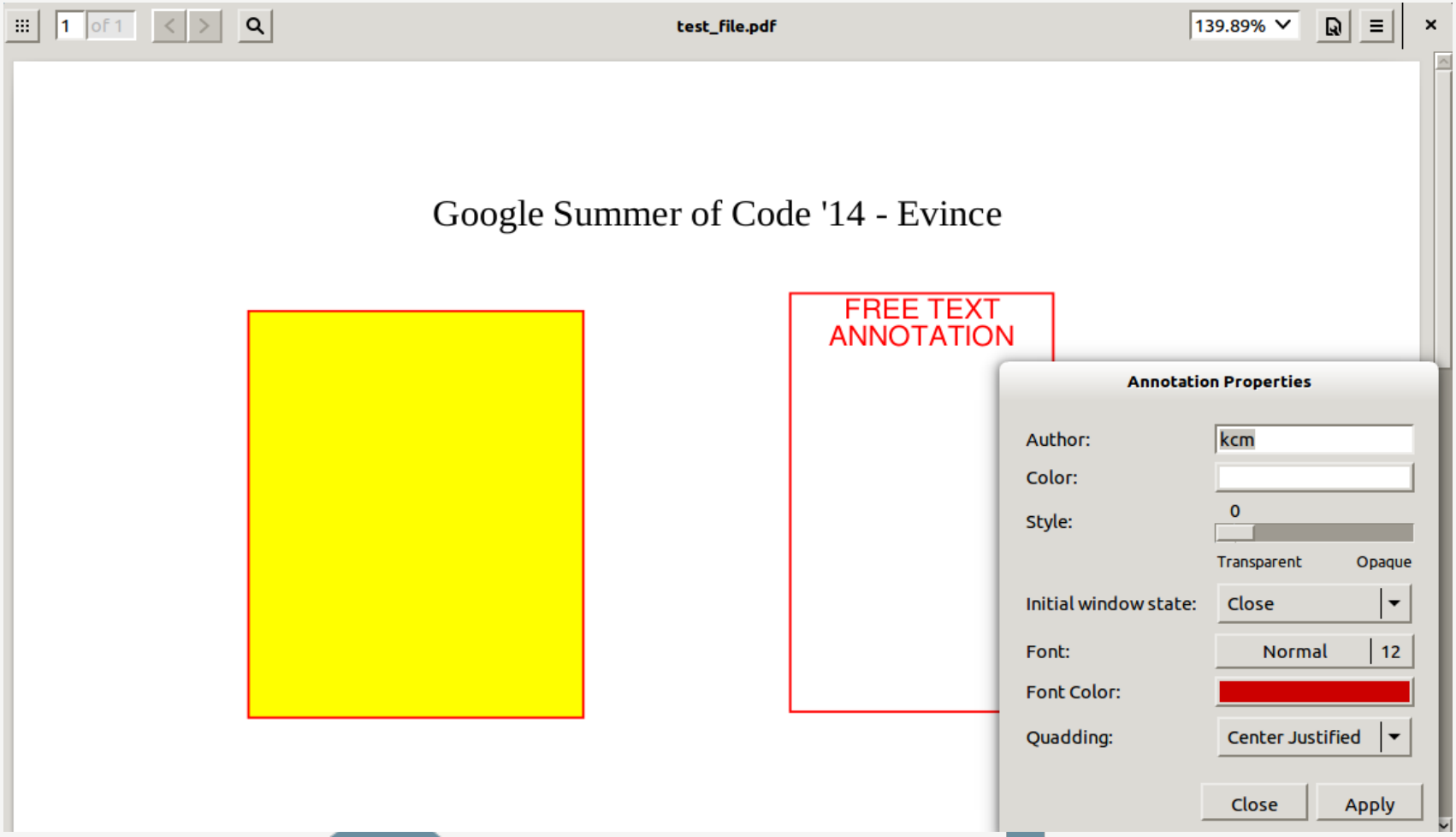
Anuj Khare

Mentor: José Aliste

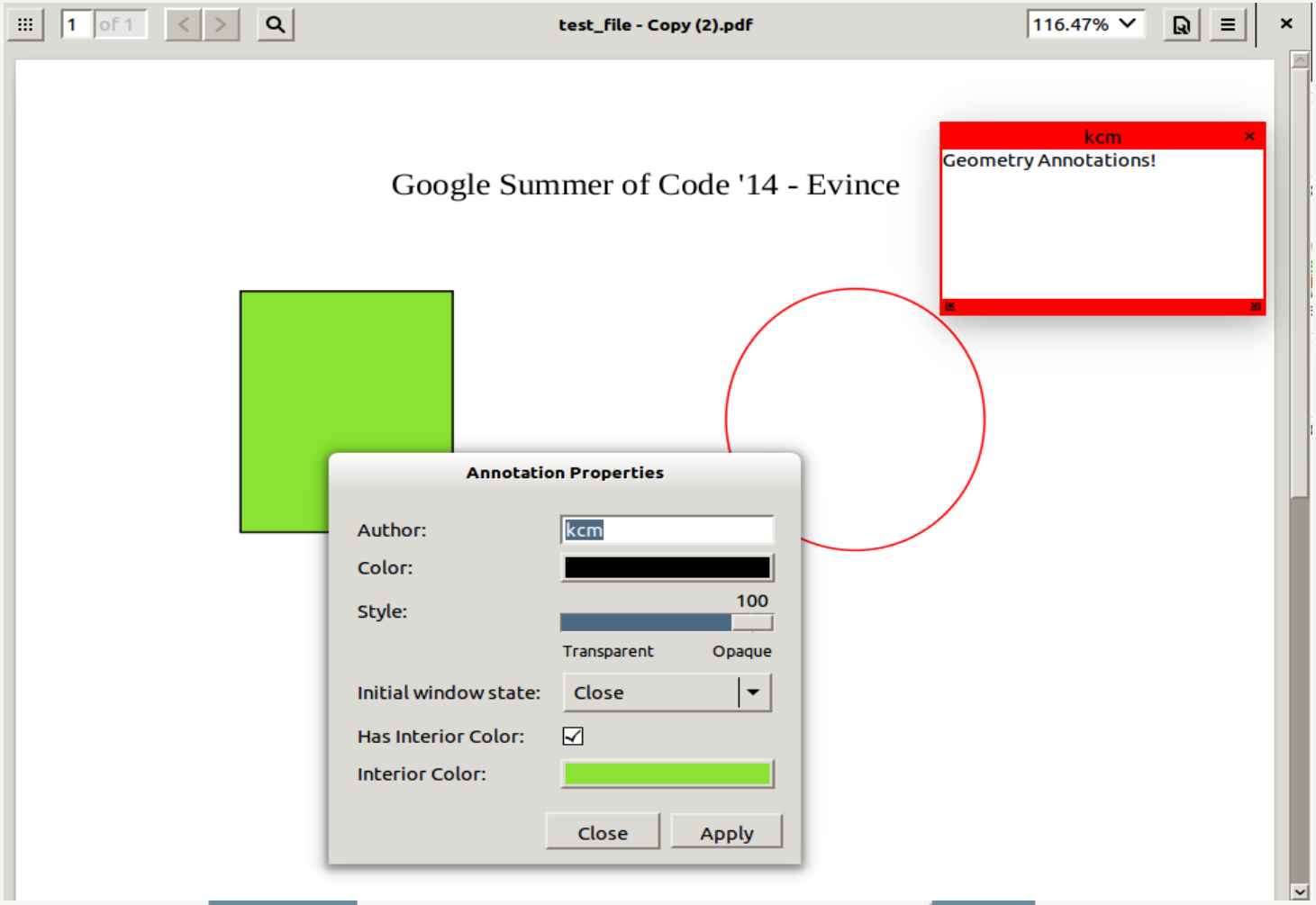
Evince and Poppler



Free Text Annotation



Square/Circle Annotations



That's it?

- Polygon/Polyline Annotations
- Forms Improvements

GNOME Games

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!

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.

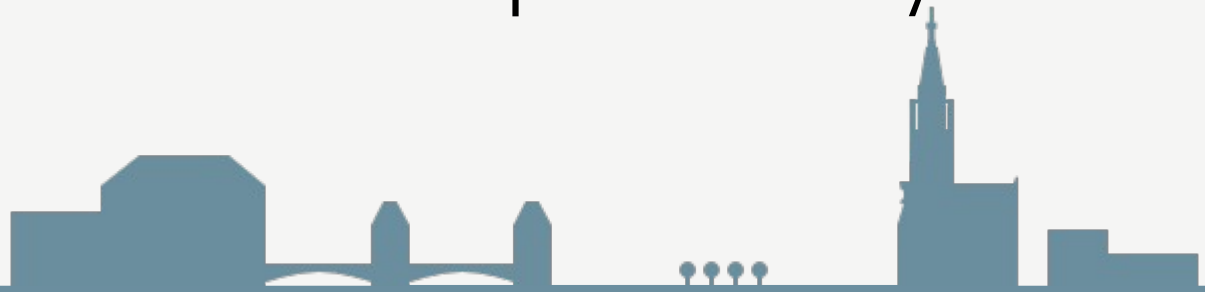
GNOME Sudoku

Modernize and Simplify

Parin Porecha

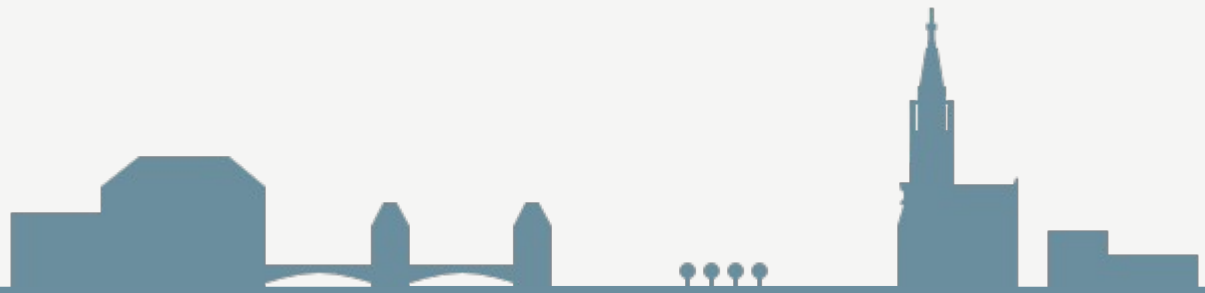
Mentor: Michael Catanzaro

Mockups: Allan Day

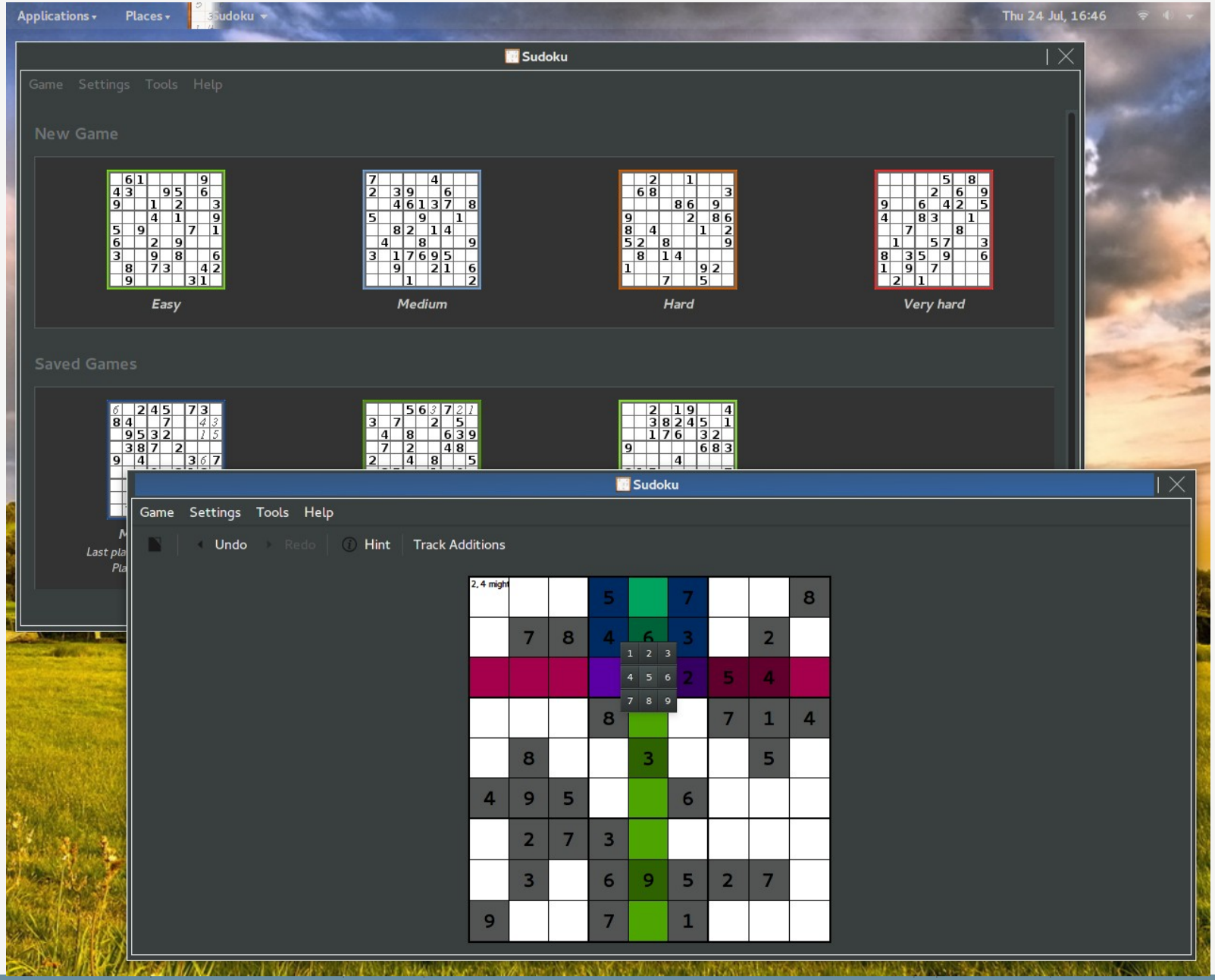


Progress

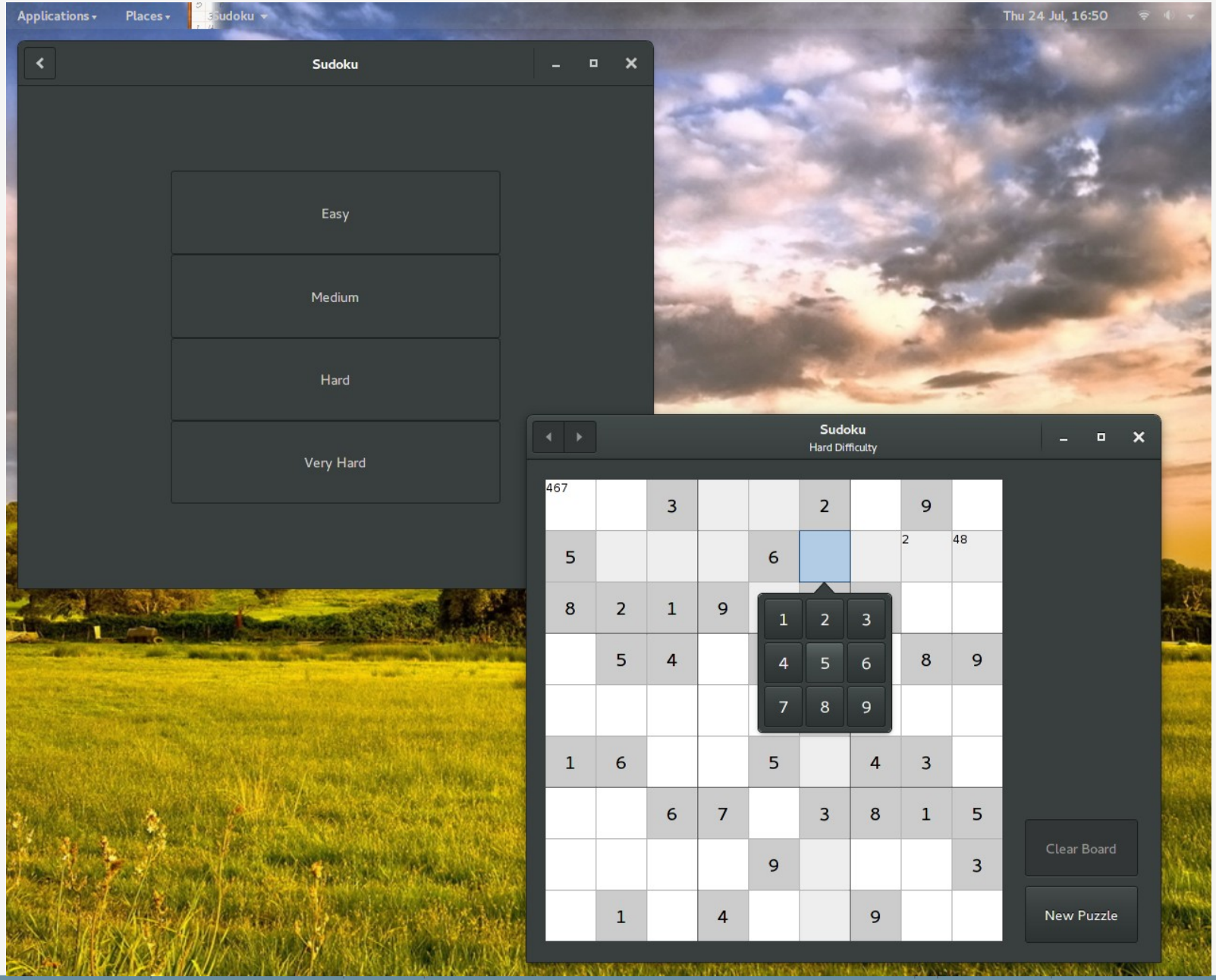
- Complete port to Vala ✓
- Redesign UI ✓
  - Menubar, Toolbar → Headerbar ✓
  - Hand-written notes → Earmarks ✓
  - Popup number-picker → Popover ✓



Before


Applications
Places
Sudoku
Thu 24 Jul, 16:46
Sudoku
Game Settings Tools Help
New Game
Easy
Medium
Hard
Very hard
Saved Games
Sudoku
Game Settings Tools Help
Undo
Redo
Hint
Track Additions

Now


Applications
Places
Sudoku
Thu 24 Jul, 16:50
Sudoku
Easy
Medium
Hard
Very Hard
Sudoku
Hard Difficulty
Clear Board
New Puzzle

What's next ?

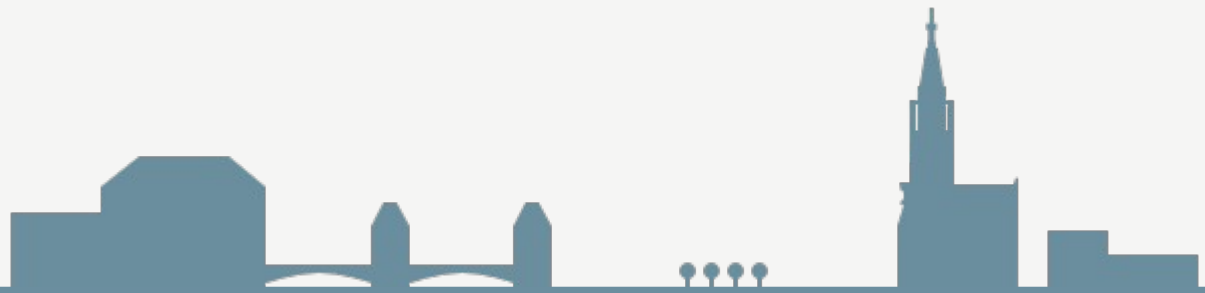
- SudokuGenerator → QQwing 60%
- Simplify Tracker 30%

Gnome Maps

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

Dario Di Nucci

Mattias Bengtsson



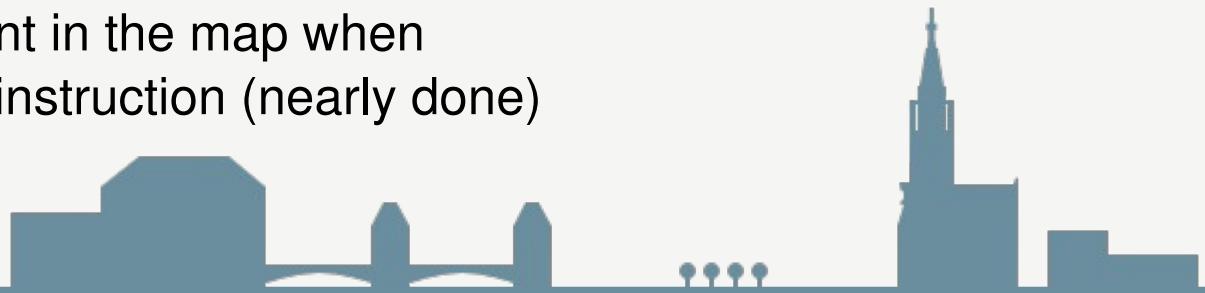
Support via points in Maps

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



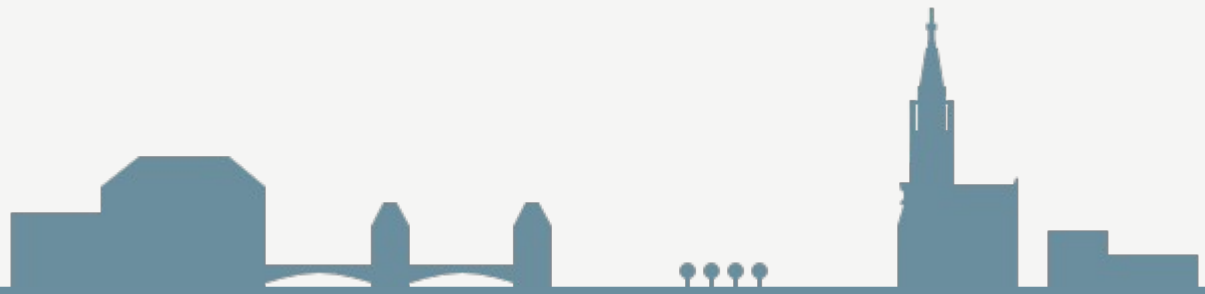
Alternatives paths in Maps

What is already done?

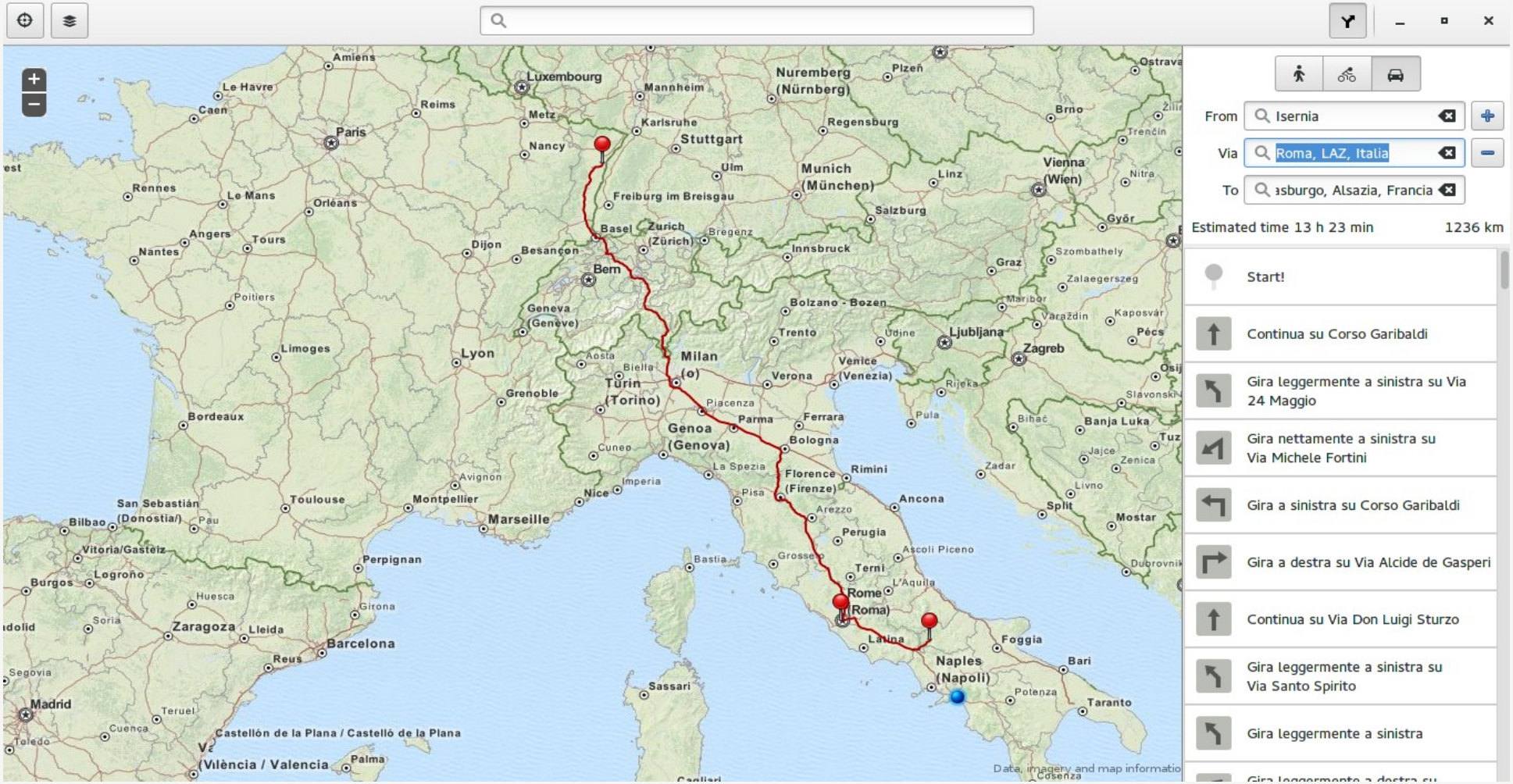
- Evaluating best algorithms
  - k-shortest path
  - pareto optimality
  - penalty approach
  - plateau method
- Basic algo implementation
- Optimization
- Testing

What will come?

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



New sidebar and turn point markers


From Isernia
Via Roma, LAZ, Italia
To asburgo, Alsazia, Francia
Estimated time 13 h 23 min
1236 km
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
Rome (Roma)
Naples (Napoli)
Milan (o)
Turin (Torino)
Genoa (Genova)
Florence (Firenze)
Venice (Venezia)
Data, imagery and map informatio

Thank you for your attention!

GNOME Maps

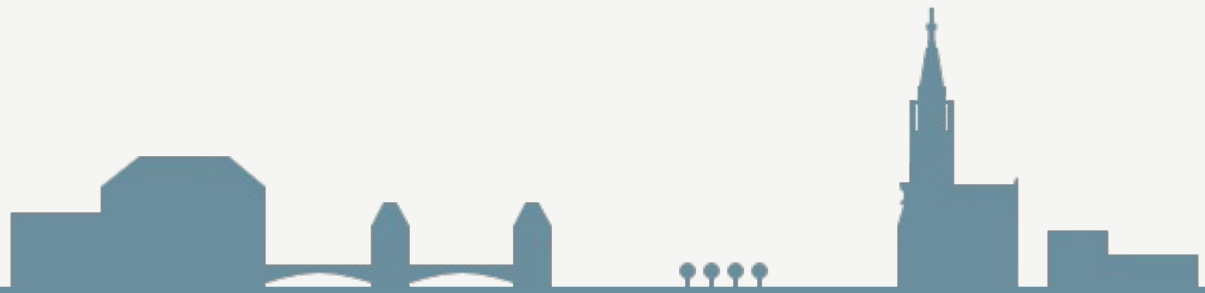
Point of Interests (POIs)

Rishi Raj Singh Jhelumi

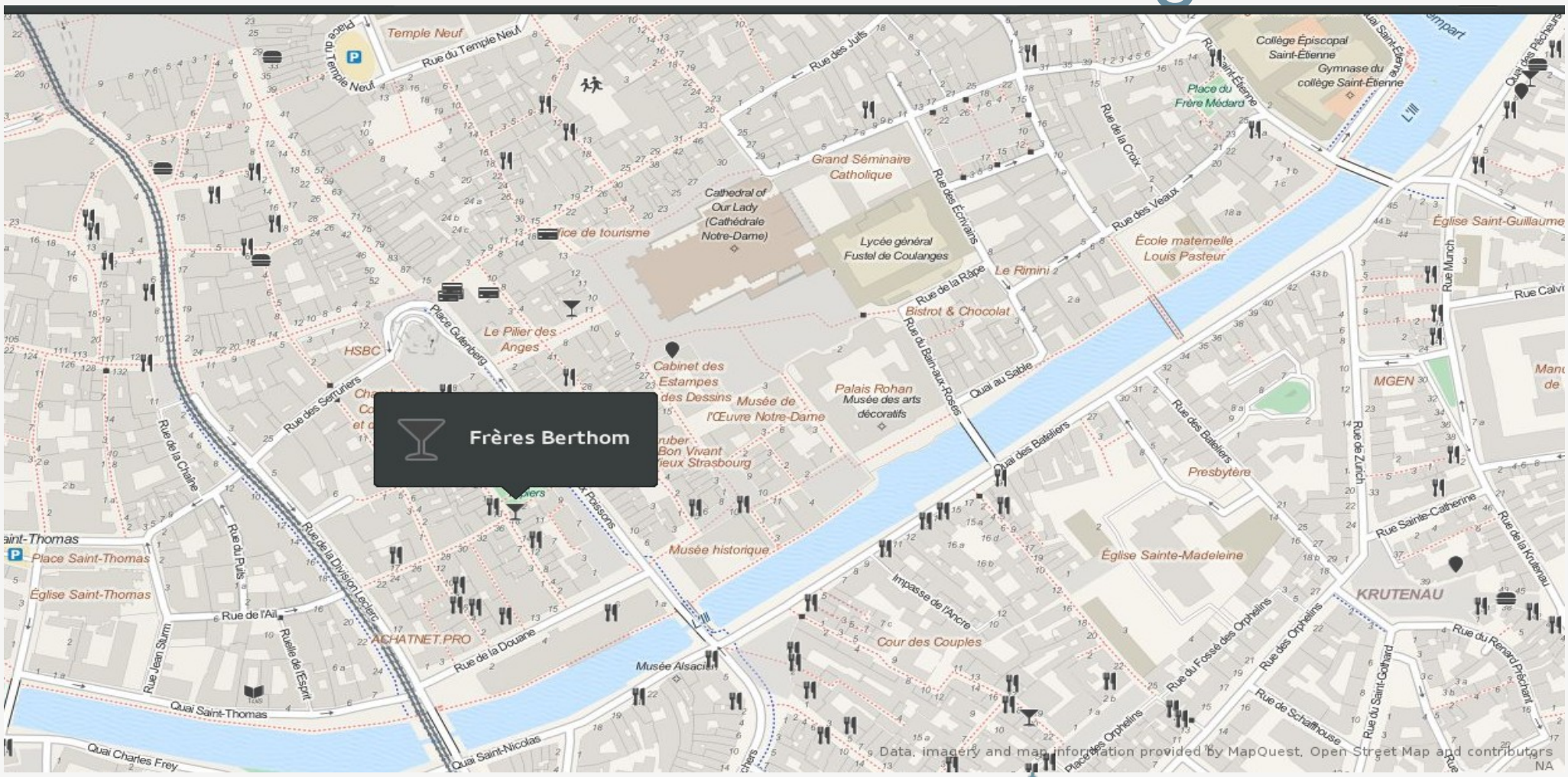
Mentor: Mattias Bengtsson

Features

- 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

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 ??

GNOME

Overpass API

libchamplain

GNOMECAT

Marcos Chavarría Teijeiro

Mentor: Sean Burke

This summer work

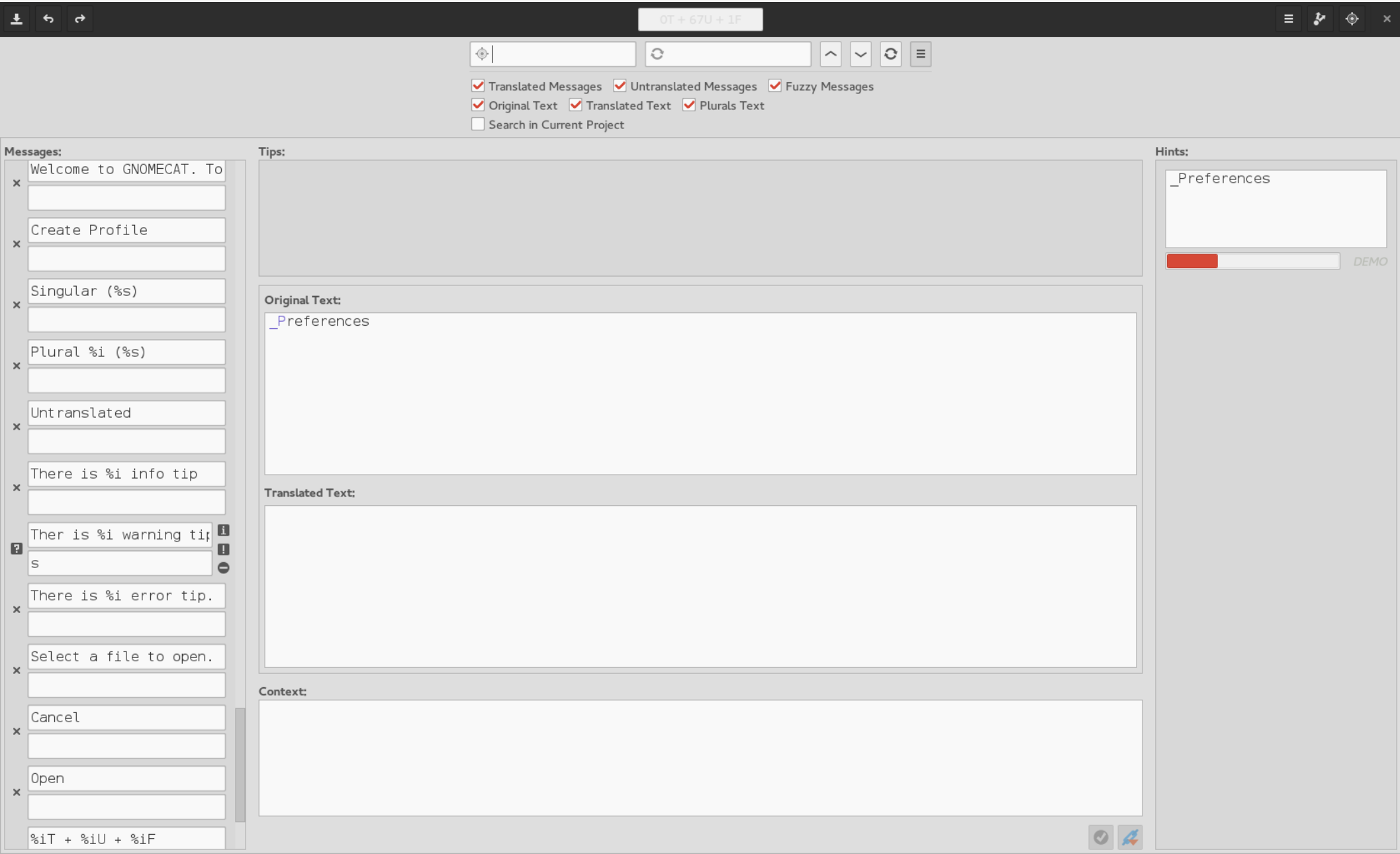
- UI Redesign ☐
- Finish Gettext-po library bindings ☐
- Shortcuts ☐
- Plugins ☐
- Documentation ☐

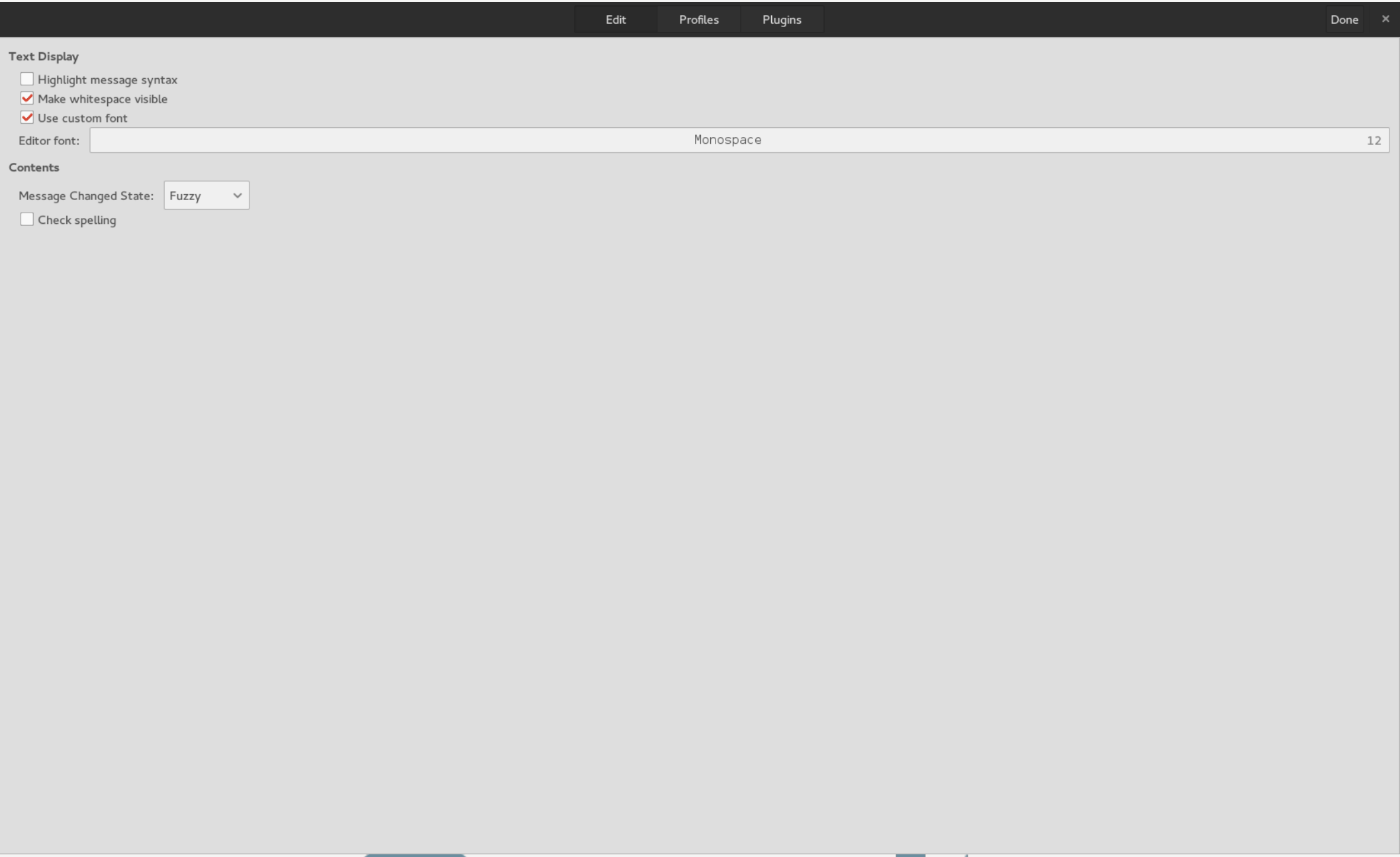
What is done??

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

Next steps...

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


0T + 67U + 1F
Translated Messages
Untranslated Messages
Fuzzy Messages
Original Text
Translated Text
Plurals Text
Search in Current Project
Messages:
Welcome to GNOMECAT. To
Create Profile
Singular (%s)
Plural %i (%s)
Untranslated
There is %i info tip
Ther is %i warning tip
s
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:
Monospace
12
Contents
Message Changed State:
Fuzzy
Check spelling

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

The GNOME Conference
Strasbourg, FR • GUADEC • July 26 – August 1

Banshee

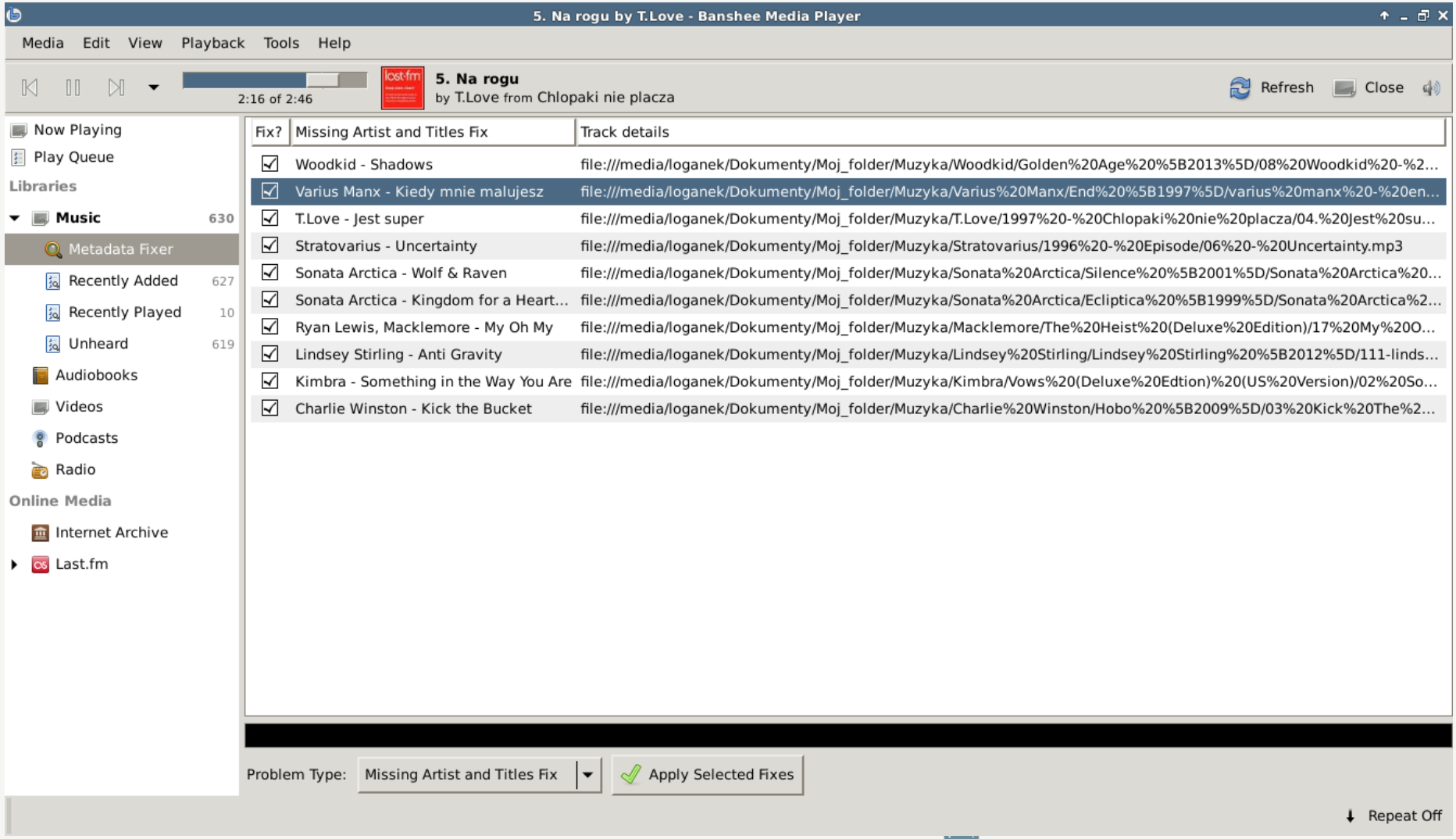
Integrate with AcoustID

Marcin Kolny

Mentor: Andrés G. Aragoneses

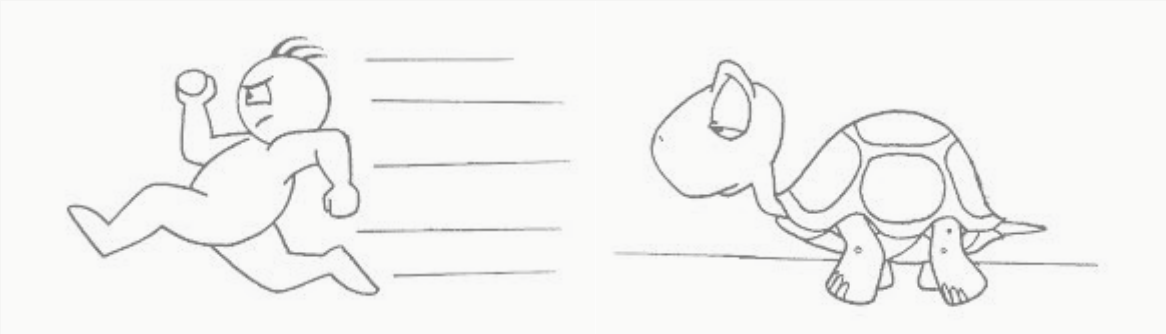
What are fingerprints?

Final solution



Disadvantages

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



debian

Thanks for your attention

GNOME Books

An eBooks application based on Documents

Marta Milaković

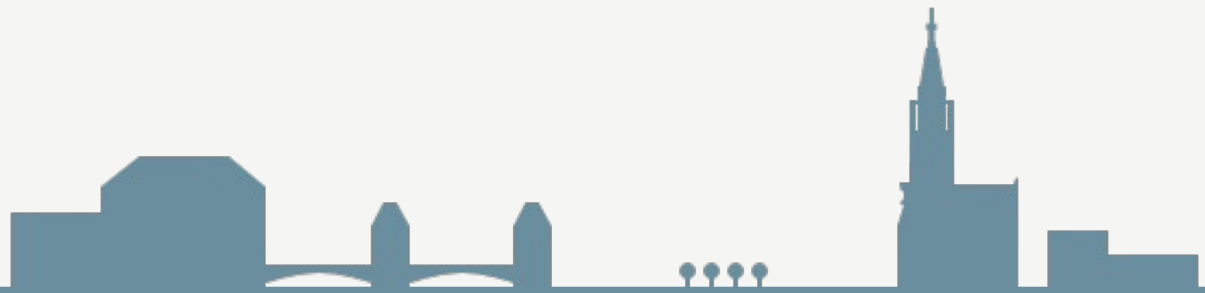
Mentor: Cosimo Cecchi

Project description

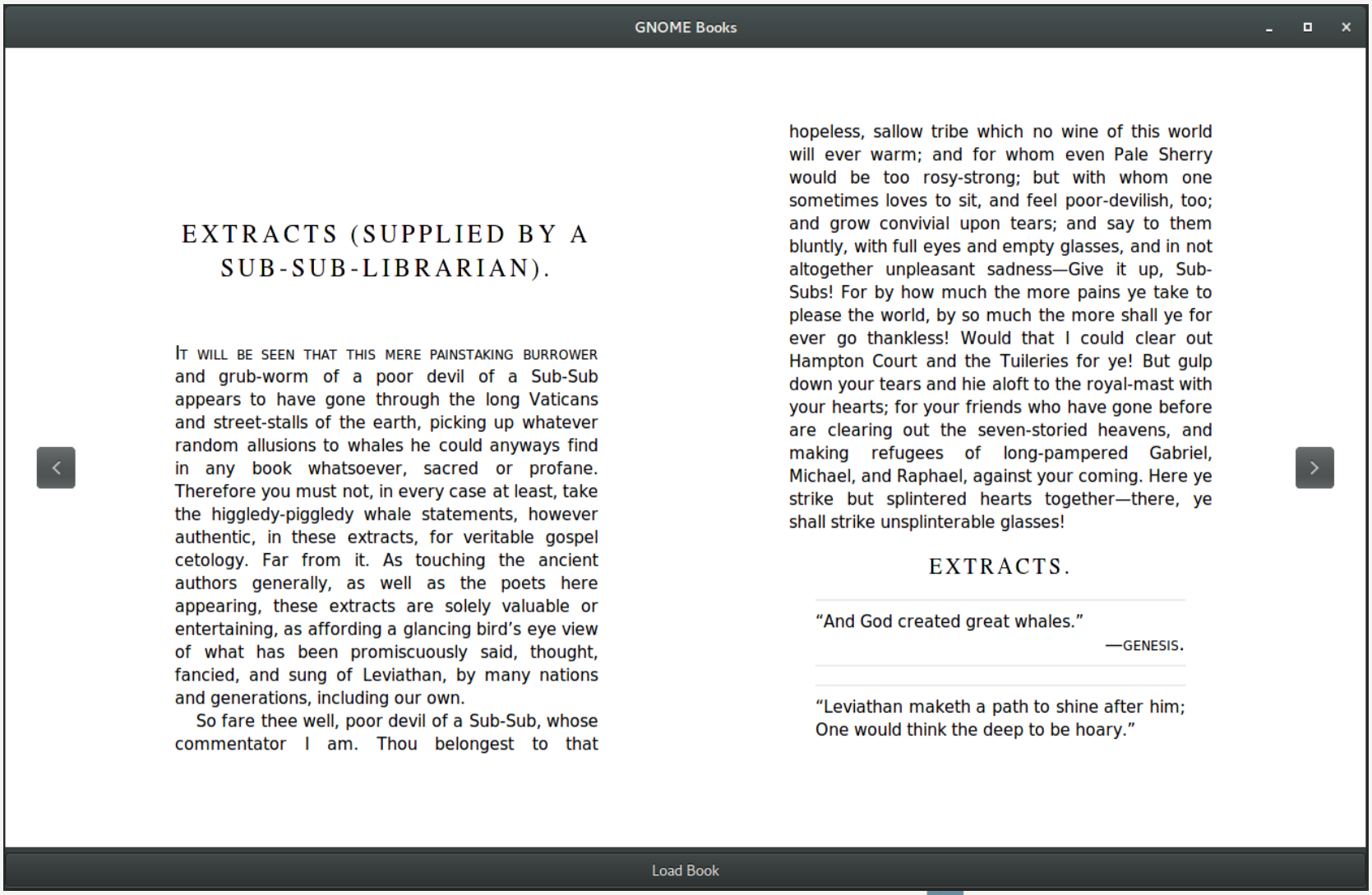
- Application for listing, searching and reading eBooks → gnome-books
- Integrate gnome-books with an existing online eBook store
- Based off of the gnome-documents application codebase

Application modes

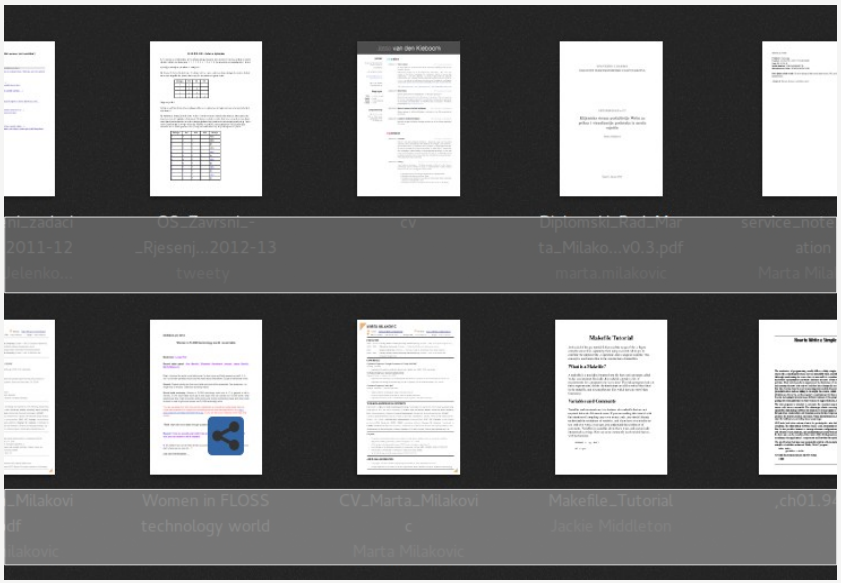
- Overview mode
  - the list of eBooks, local and from the online eBook store
- Read mode
  - read the eBooks from collection
- EbookStore mode
  - browsing and buying new items

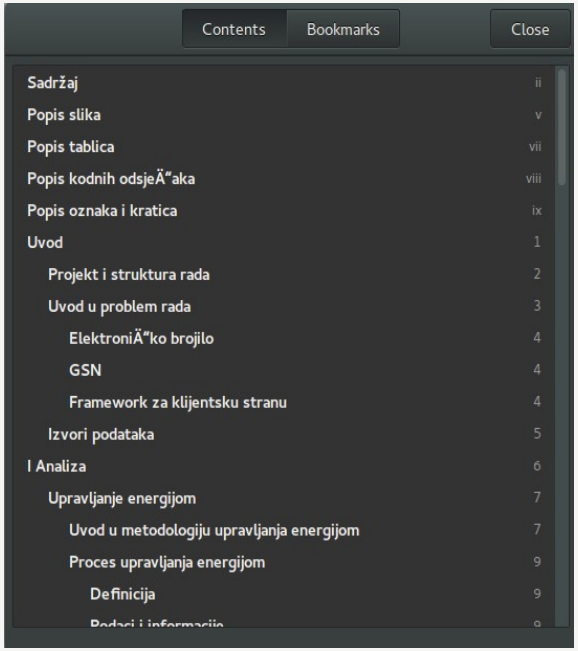


GNOME Books' Read mode

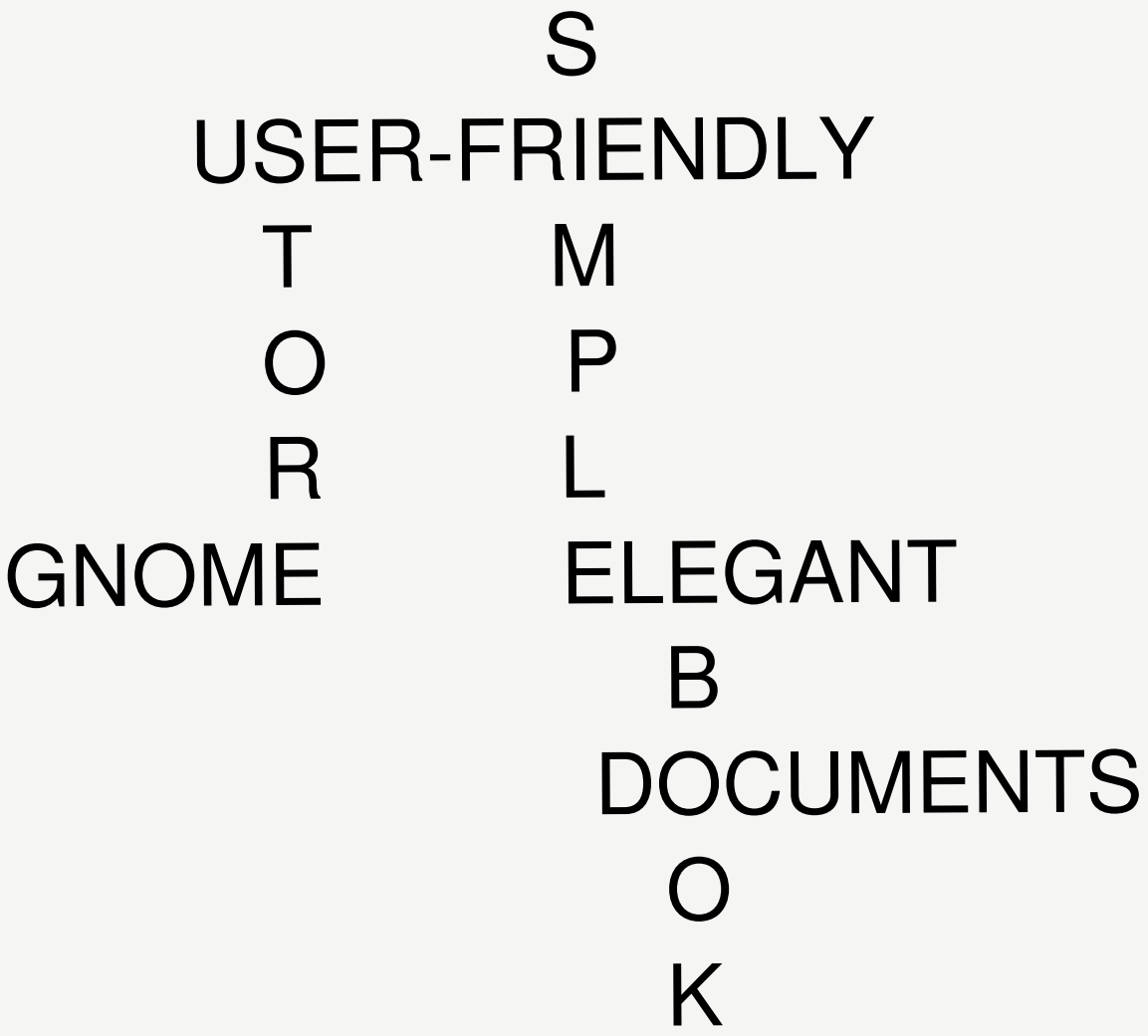


Features




Contents
Bookmarks
Close
Sadržaj ii
Popis slika v
Popis tablica vii
Popis kodnih odsjeÄ"aka viii
Popis oznaka i kratica ix
Uvod 1
Projekt i struktura rada 2
Uvod u problem rada 3
ElektroniÄ"ko brojilo 4
GSN 4
Framework za klijentsku stranu 4
Izvori podataka 5
I Analiza 6
Upravljanje energijom 7
Uvod u metodologiju upravljanja energijom 7
Proces upravljanja energijom 9
Definicija 9

Page 1047 of 1047


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

GNOME Music

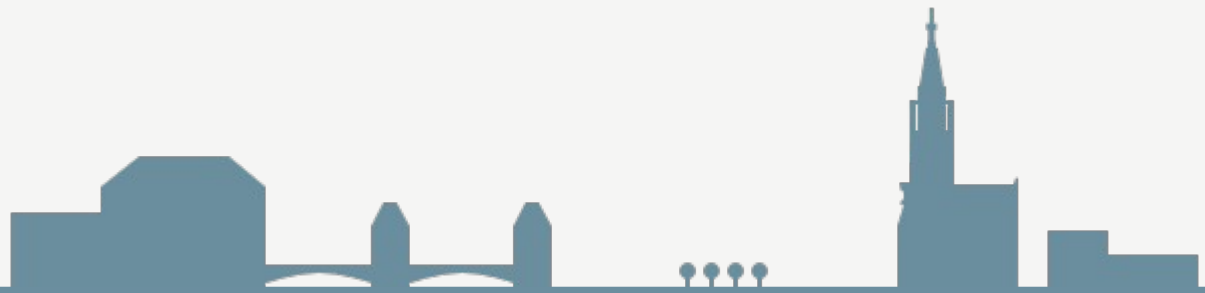
Advanced Search and Remote Resources

Arnel Borja

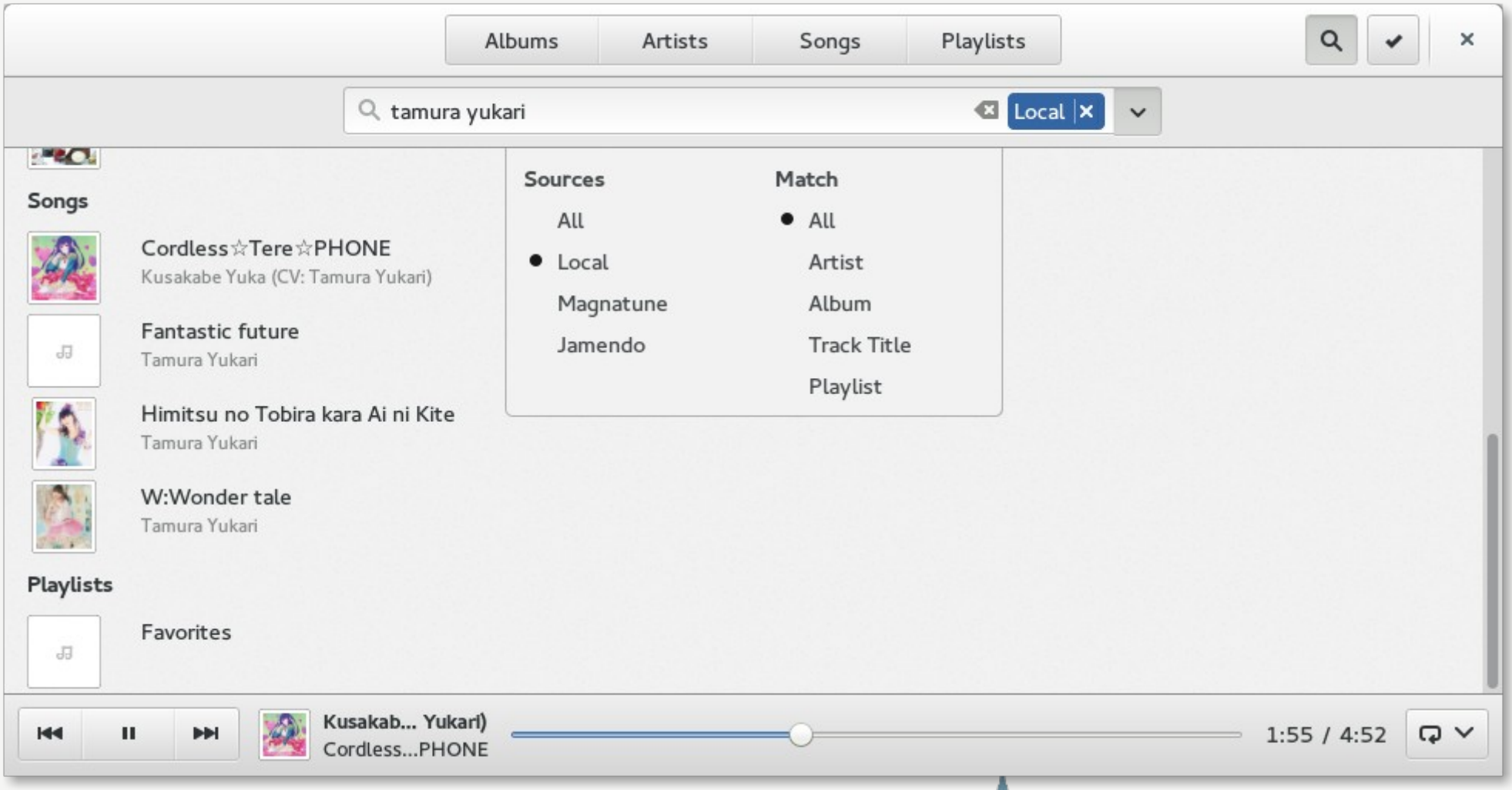
Mentor: Vadim Rutkovsky

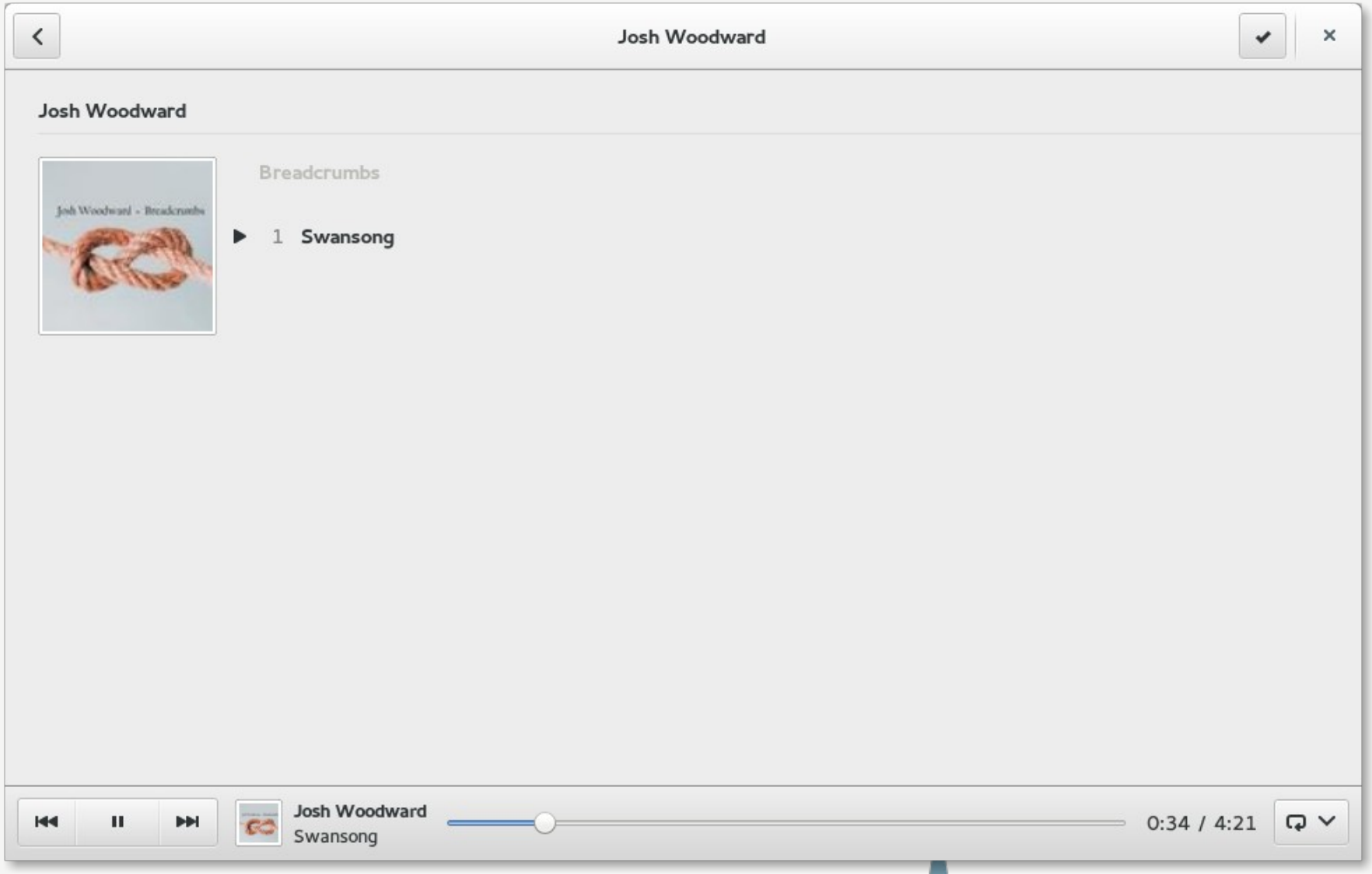
Goals

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



Search View


Albums
Artists
Songs
Playlists
tamura yukari
Local
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
Sources
All
Local
Magnatune
Jamendo
Match
All
Artist
Album
Track Title
Playlist
Kusakab... Yukari)
Cordless...PHONE
1:55 / 4:52


Josh Woodward
Josh Woodward
Breadcrumbs
1 Swansong
Josh Woodward
Swansong
0:34 / 4:21

Playlists

Favorites
Favorites
31 Songs
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

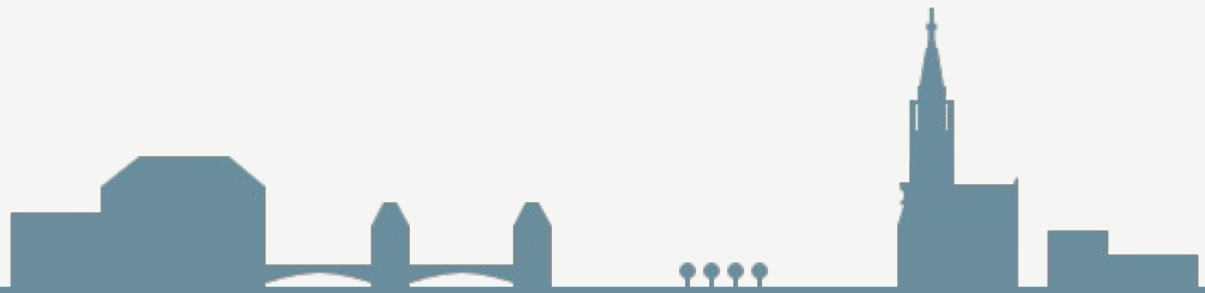
Extending Gnome Music to the web

Sai Suman Prayaga

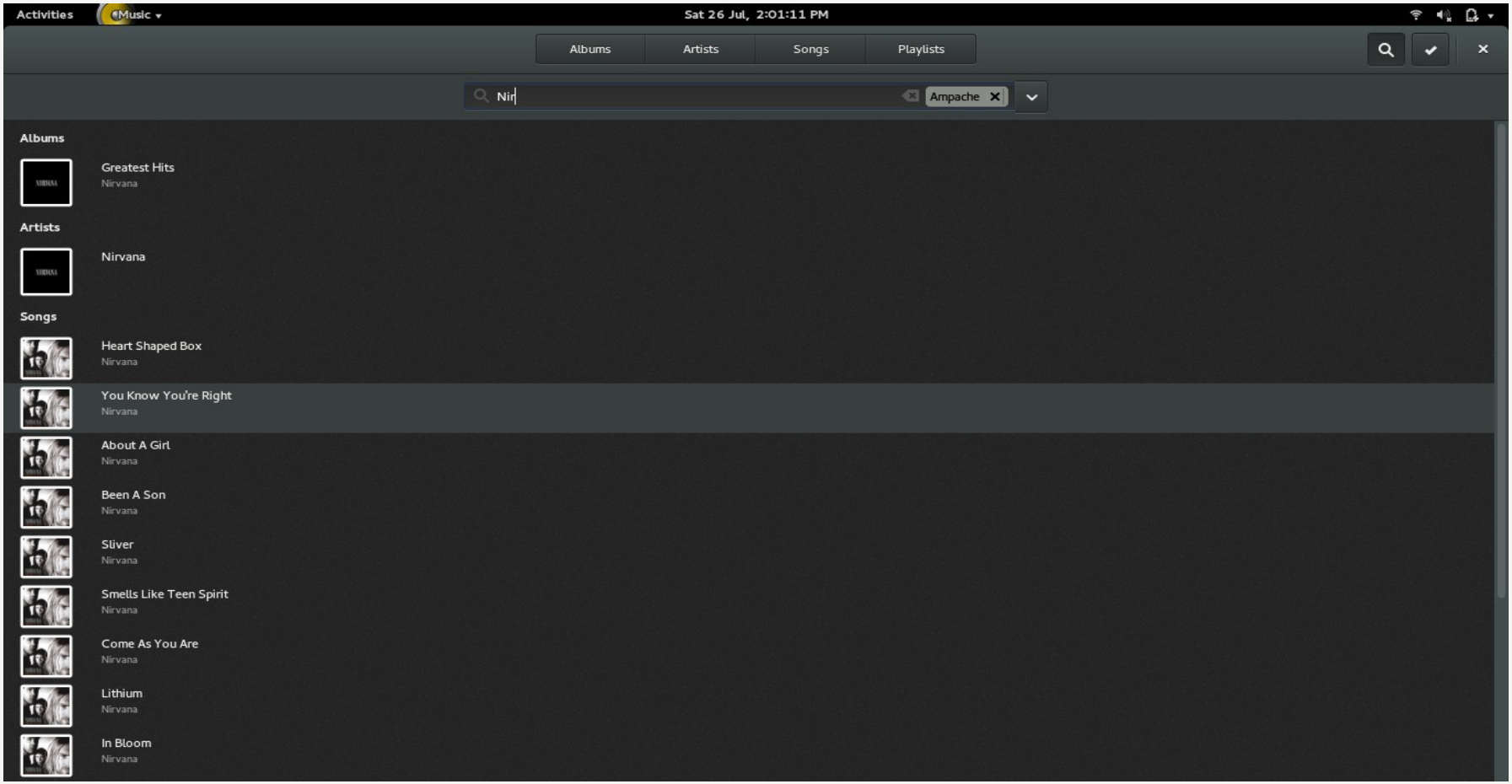
Mentor: Vadim Rutkovsky

What's done

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

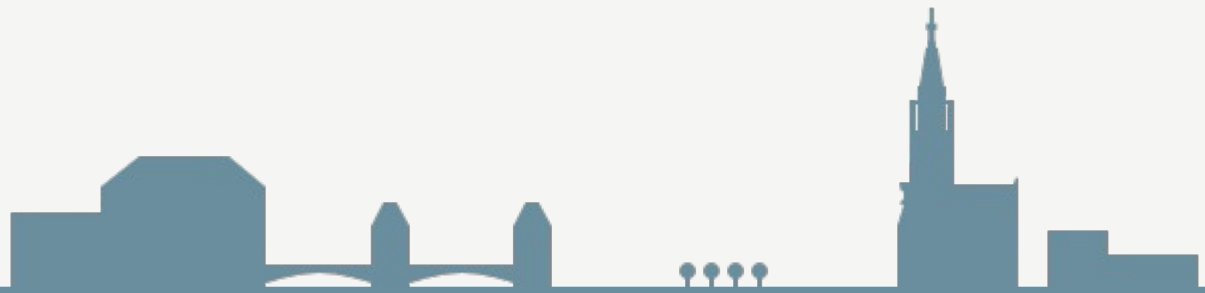


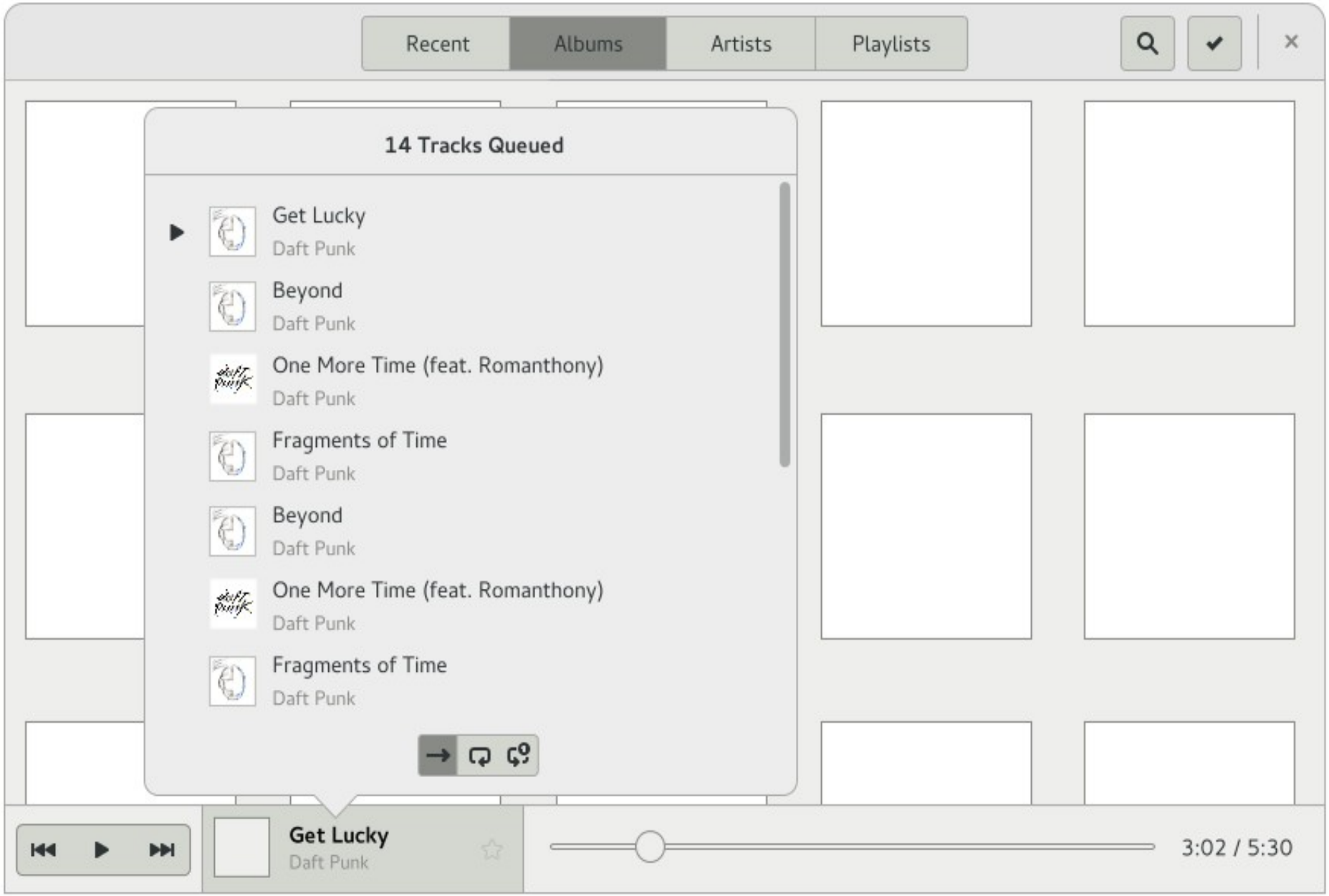
Searching on Ampache



What needs to be done

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





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

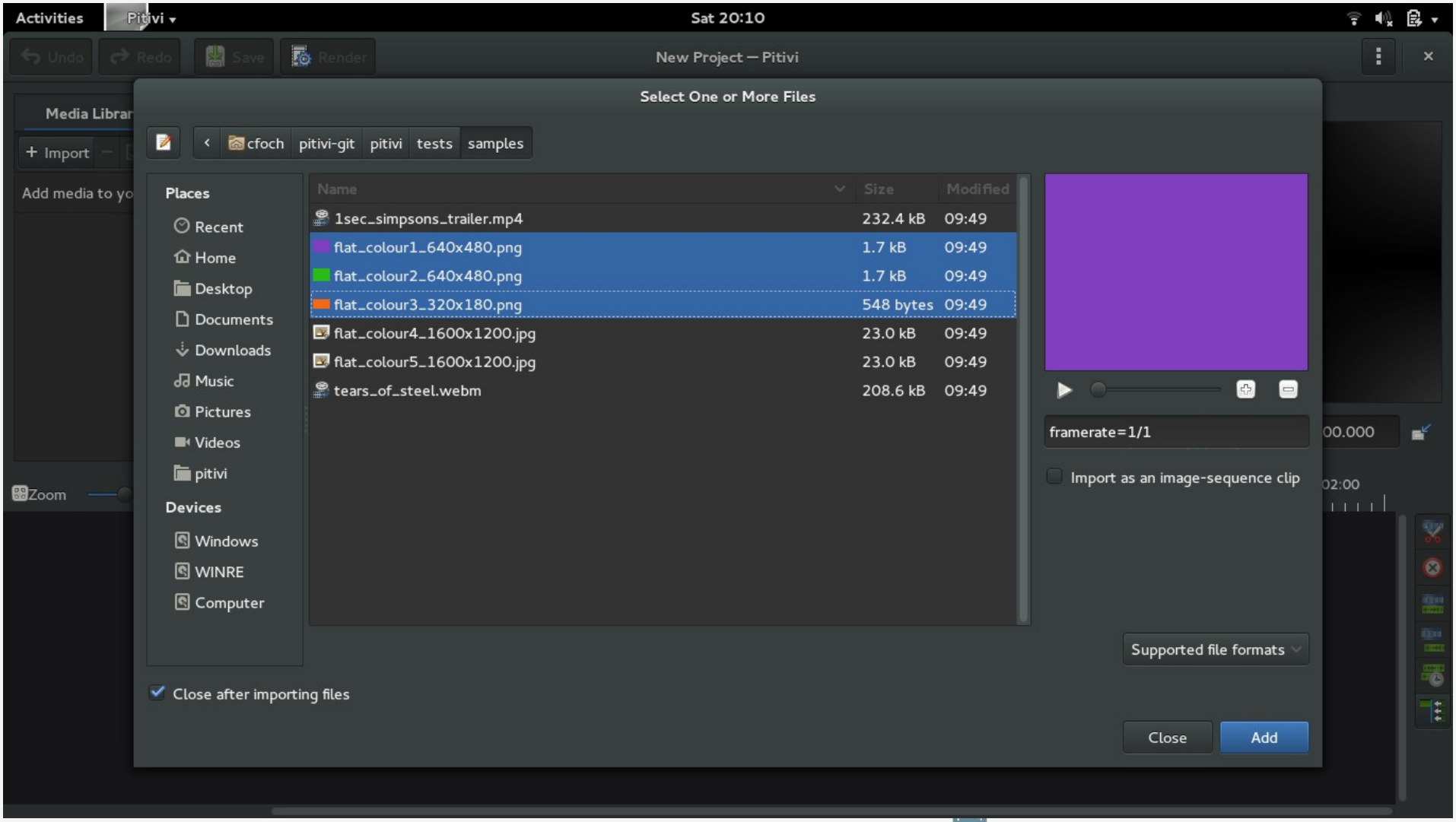
Pitivi

Adding Image Sequences support

Fabián Orccón

Mentor: Alexandru Băluț (aleb)

Importing sequences

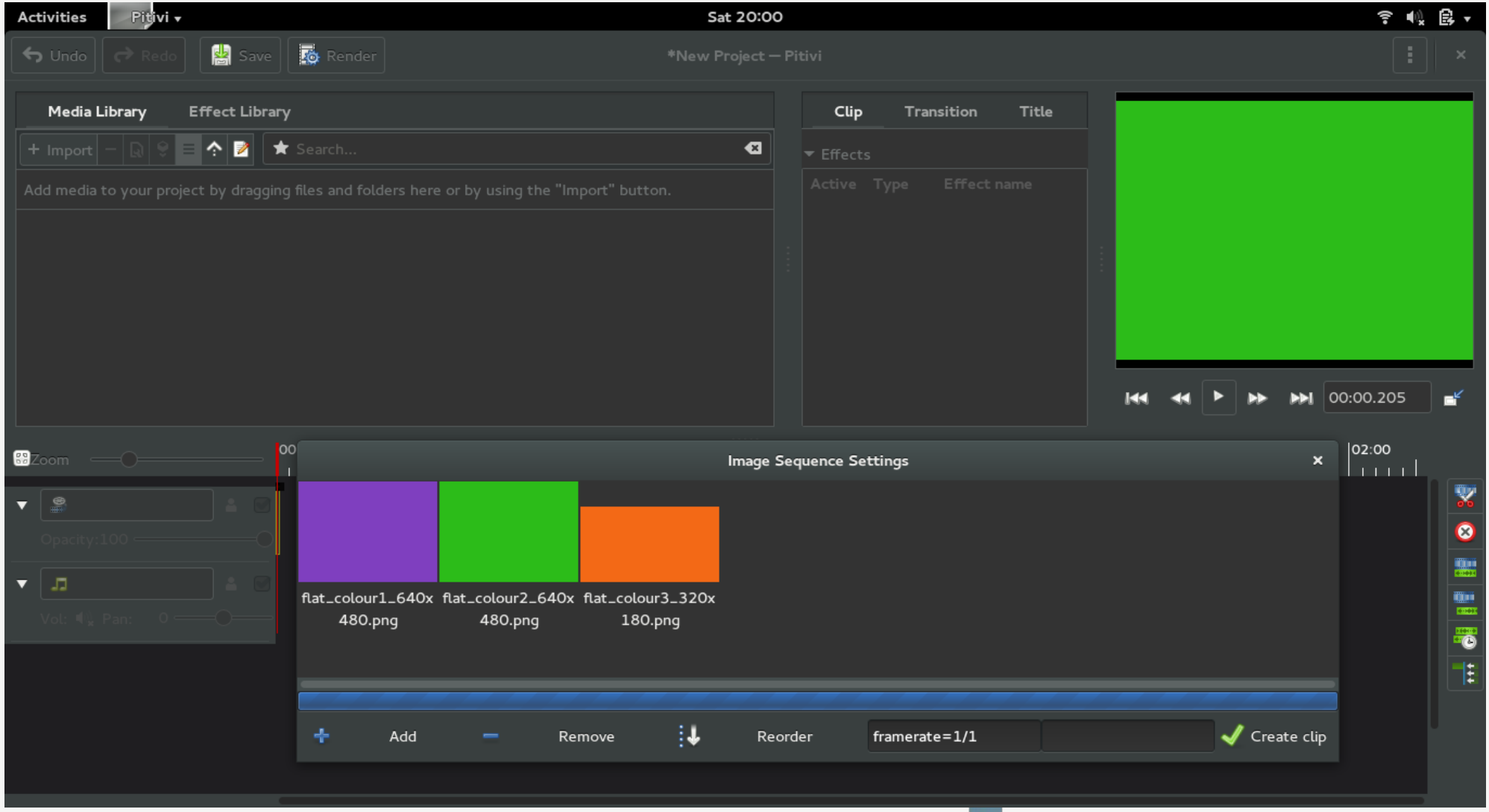


Gstreamer
GstImageSequenceSrc

GES
GESImageSequenceSrc

Pitivi
UI to handle these image sequences clips

Editing the image sequence



The GNOME Conference
Strasbourg, FR • GUADEC • July 26 – August 1

Pitivi

Improve Video Transformation and Viewer Interaction in Pitivi

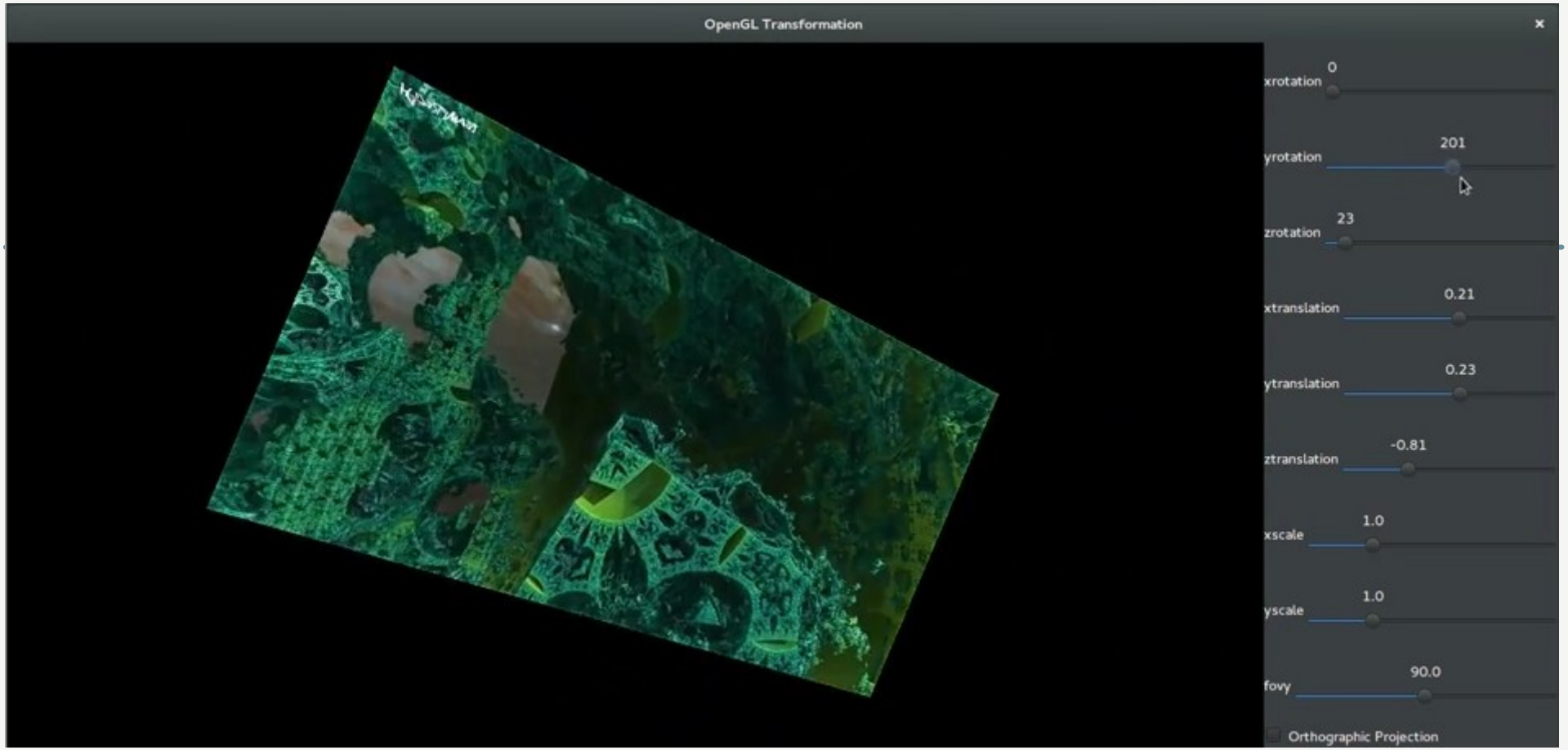
Lubosz Sarnecki

Mentors:

Mathieu Duponchelle

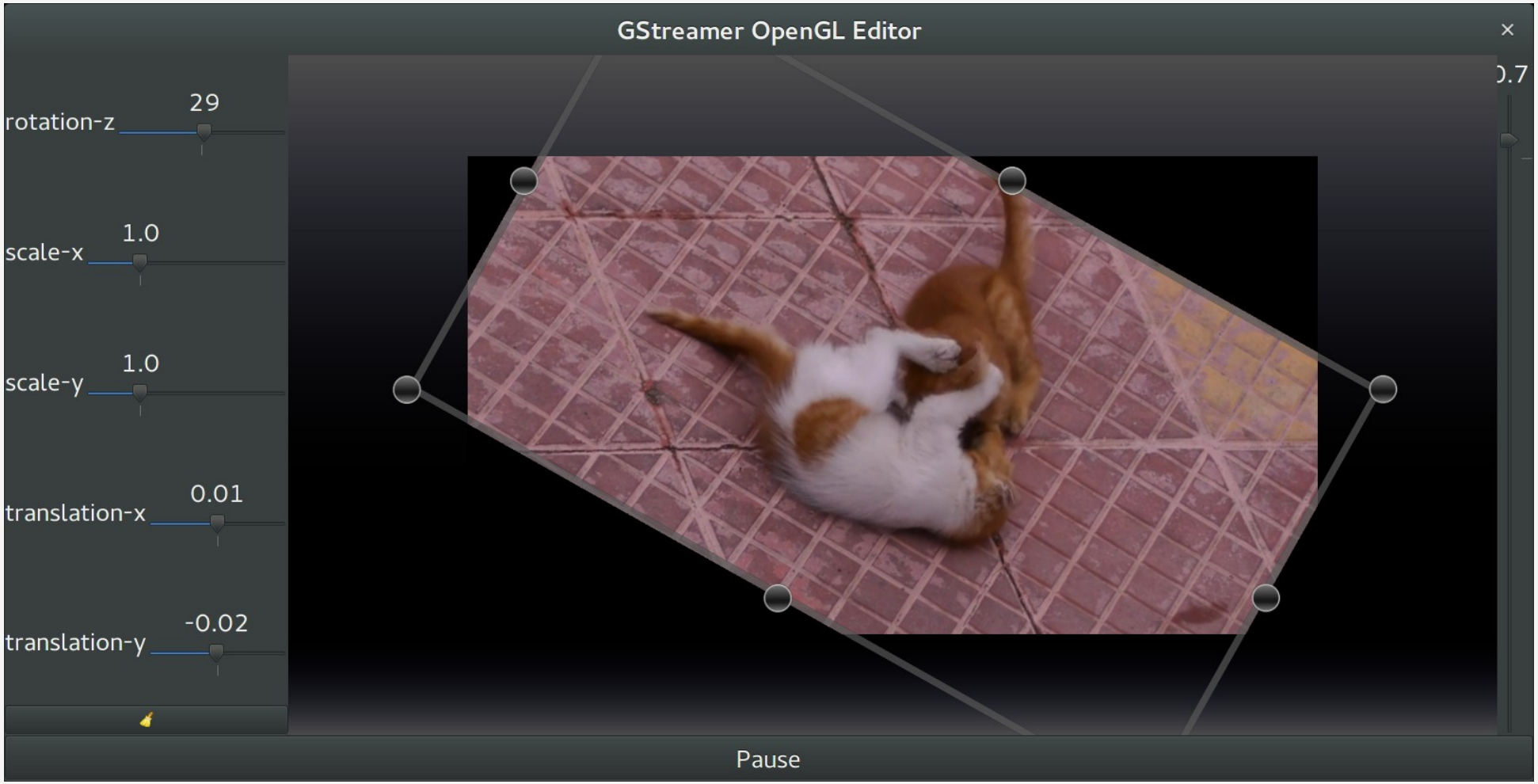
Thibault Saunier

Matthew Waters


OpenGL Transformation
xrotation
0
yrotation
201
zrotation
23
xtranslation
0.21
ytranslation
0.23
ztranslation
-0.81
xscale
1.0
yscale
1.0
fovy
90.0
Orthographic Projection

Transformation Plugin in GStreamer OpenGL

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


GStreamer OpenGL Editor
rotation-z
29
scale-x
1.0
scale-y
1.0
translation-x
0.01
translation-y
-0.02
Pause

Transformation Editor

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

gnome-photos

Browse DLNA Media Servers

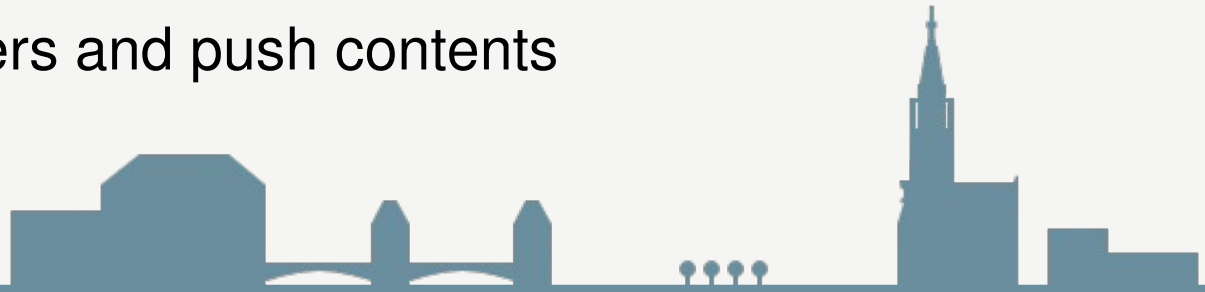
Pranav Kant

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

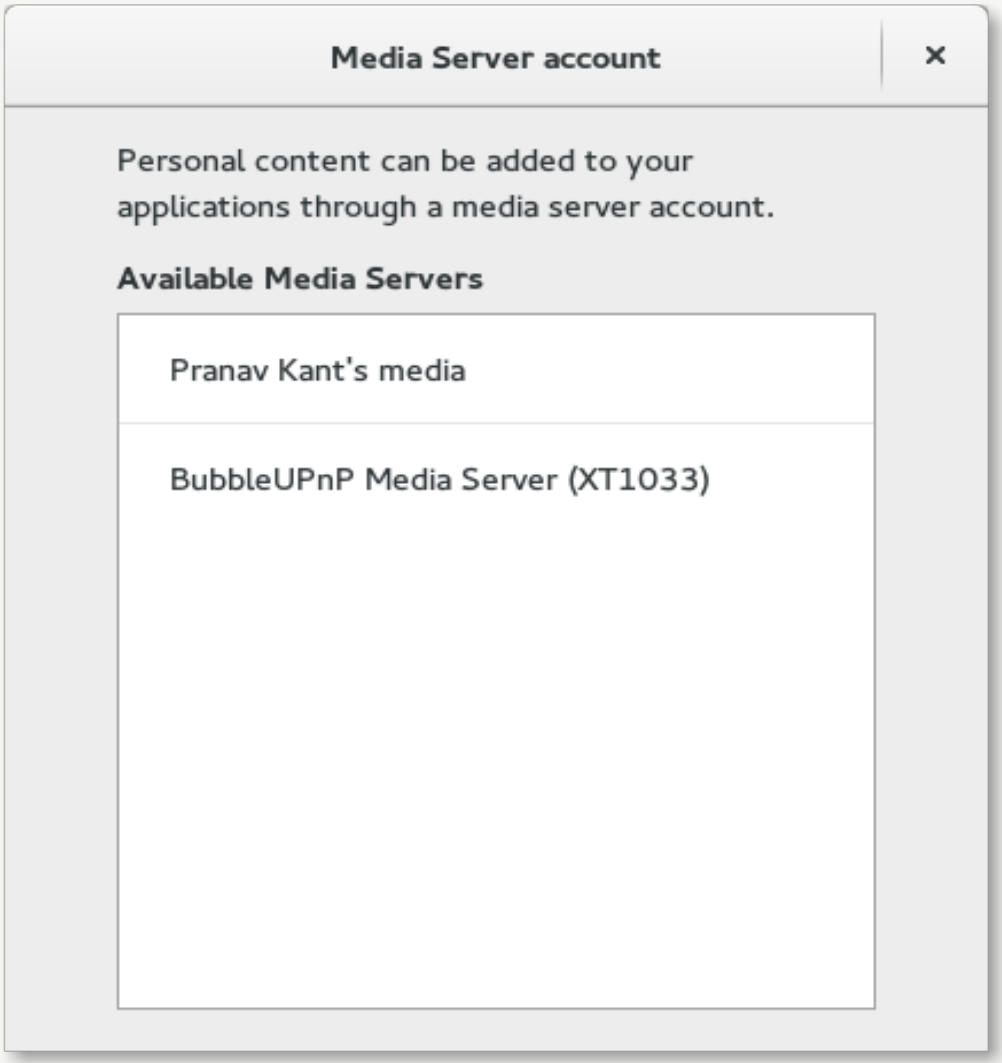
Mentor: Debarshi Ray

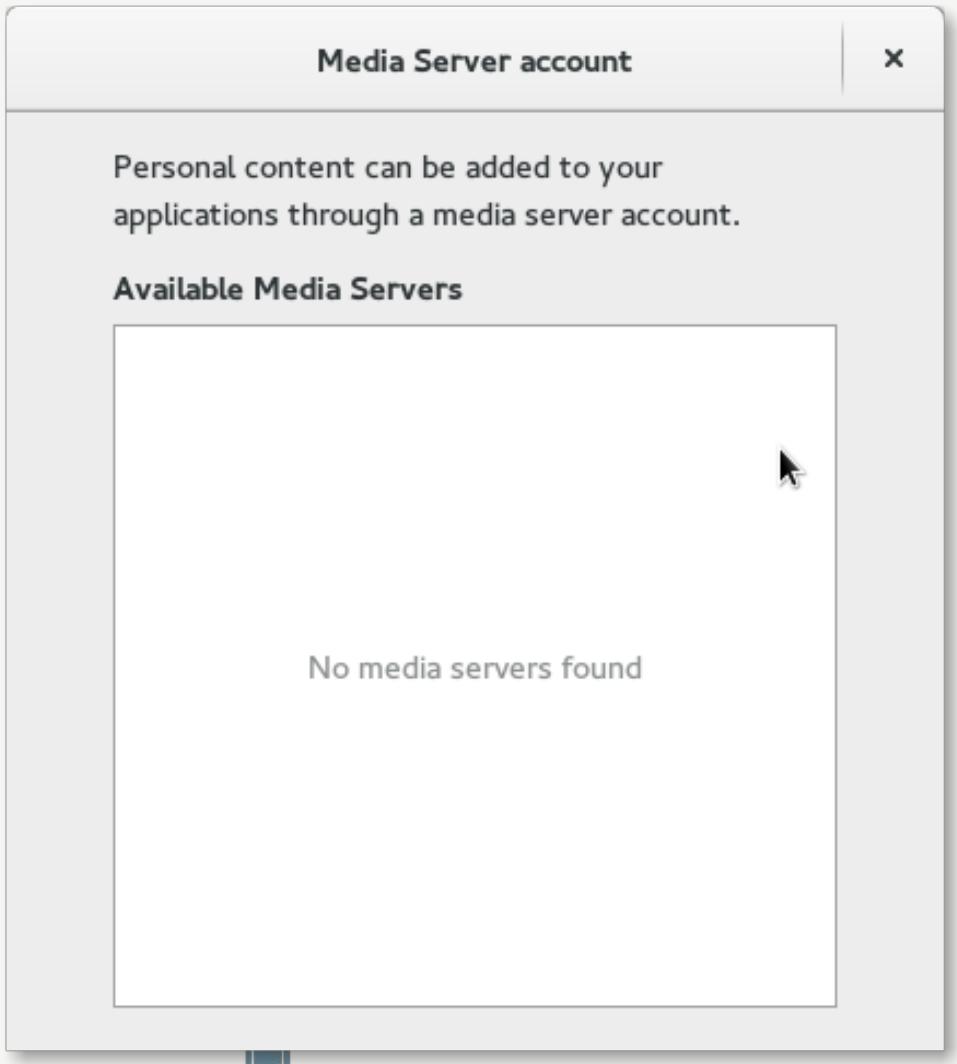
Important Keywords

- 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



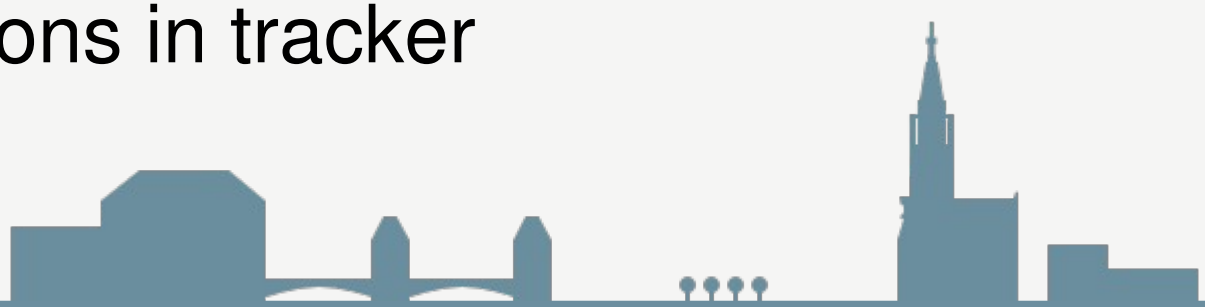
gnome-online-accounts



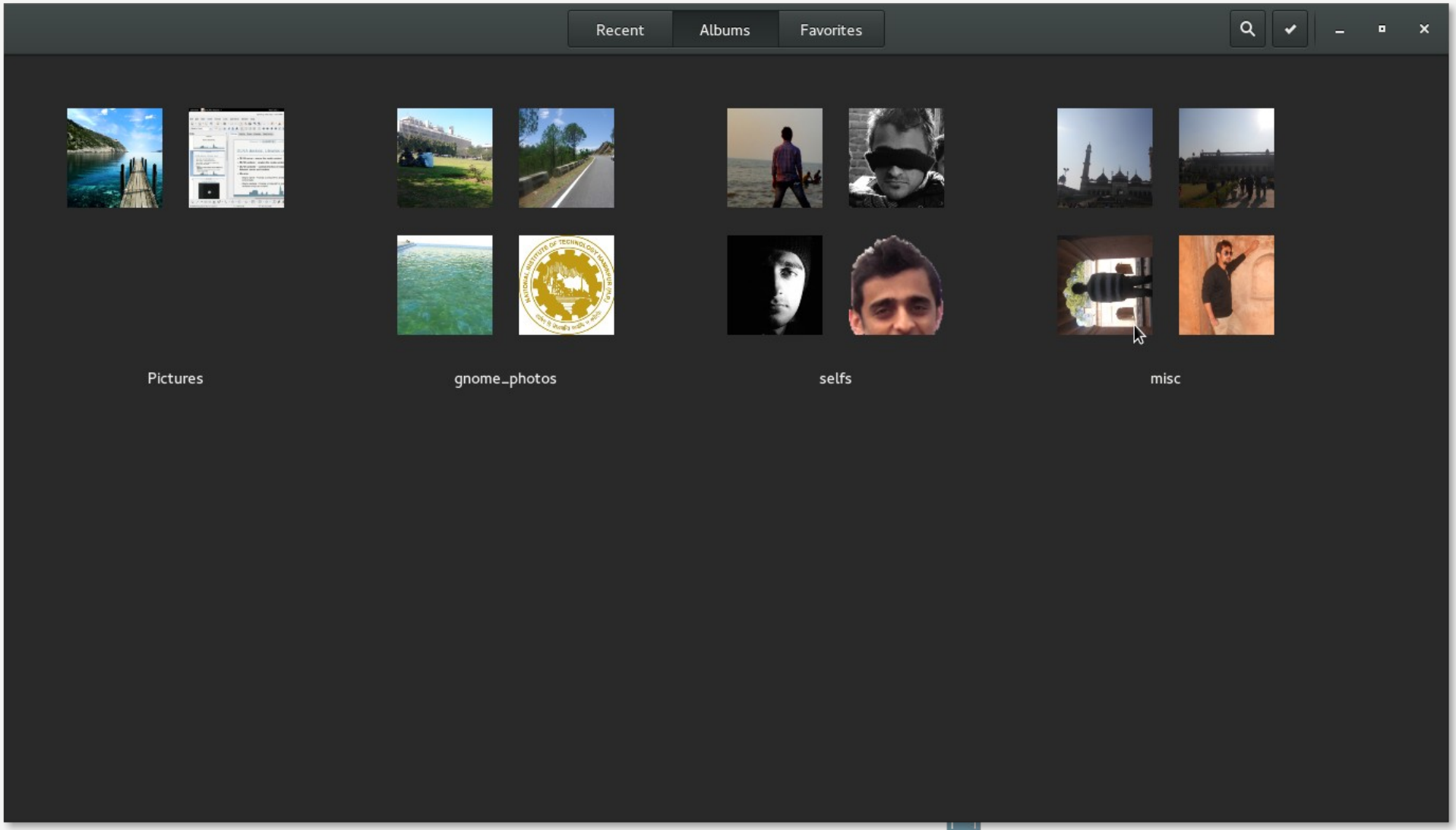


gnome-online-miners

- 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

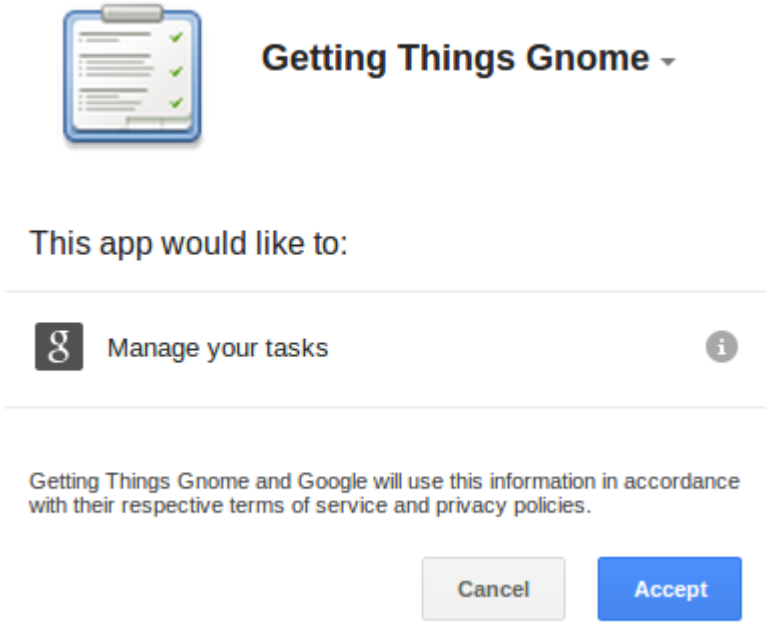
Google tasks

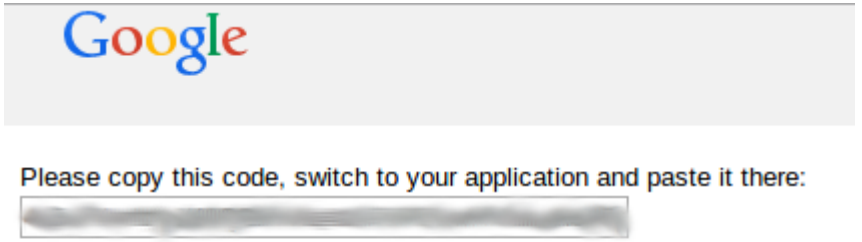
Getting Things Gnome

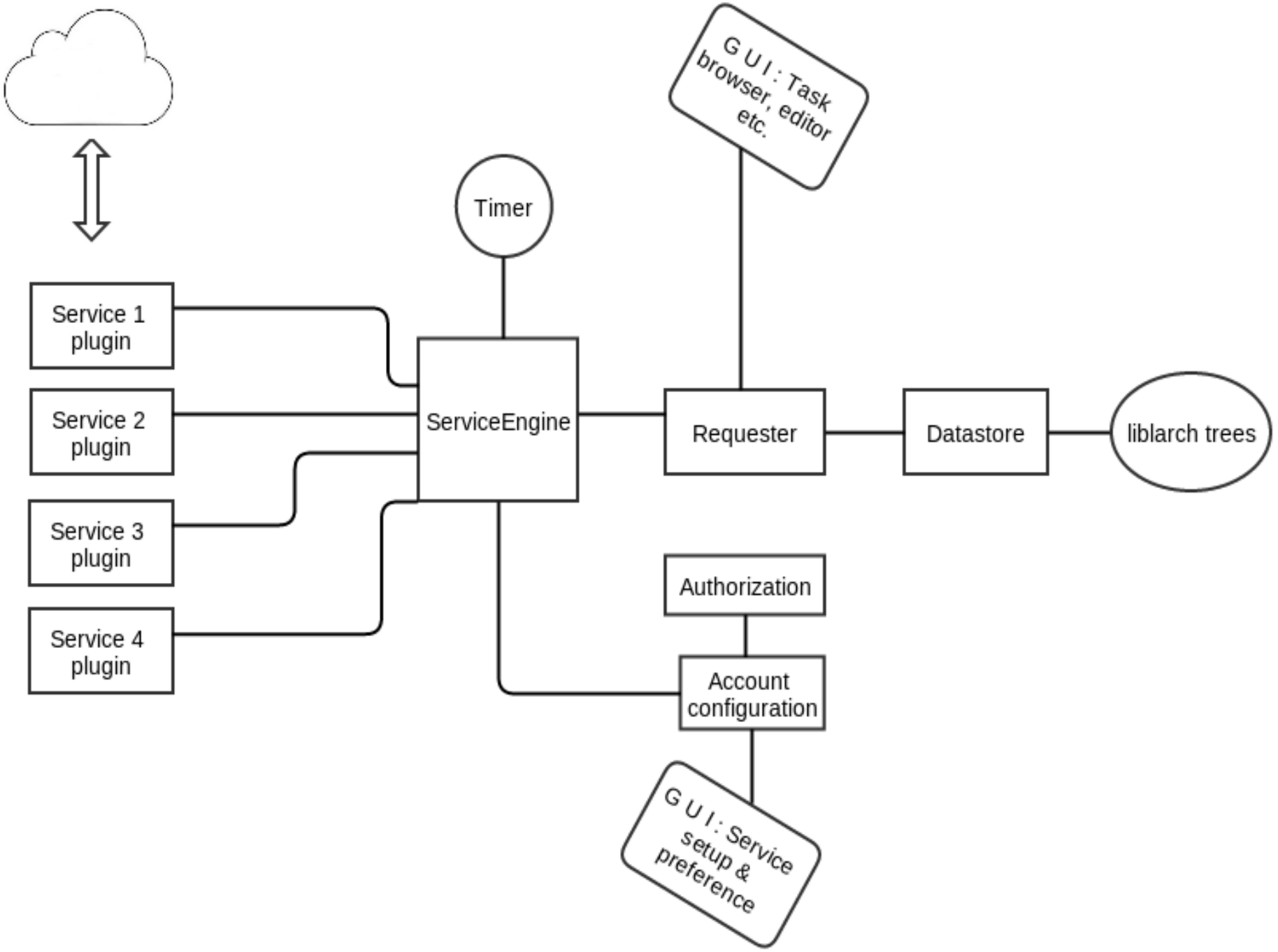
remember the milk™

todoist

Authentication






G U I : Task browser, editor etc.
Timer
Service 1 plugin
Service 2 plugin
Service 3 plugin
Service 4 plugin
ServiceEngine
Requester
Datastore
liblarch trees
Authorization
Account configuration
G U I : Service setup & preference

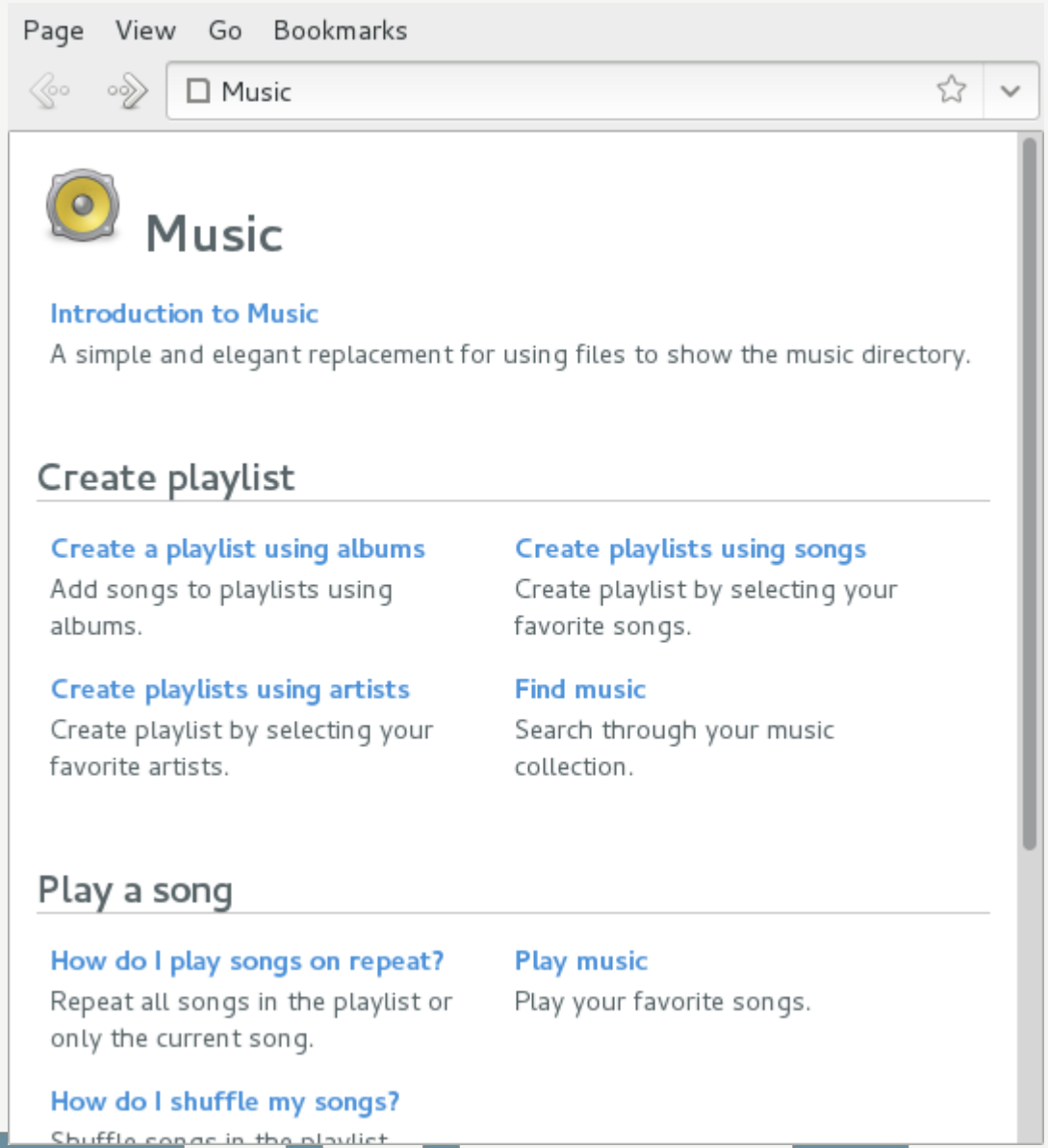
Help Documentation

GNOME Music

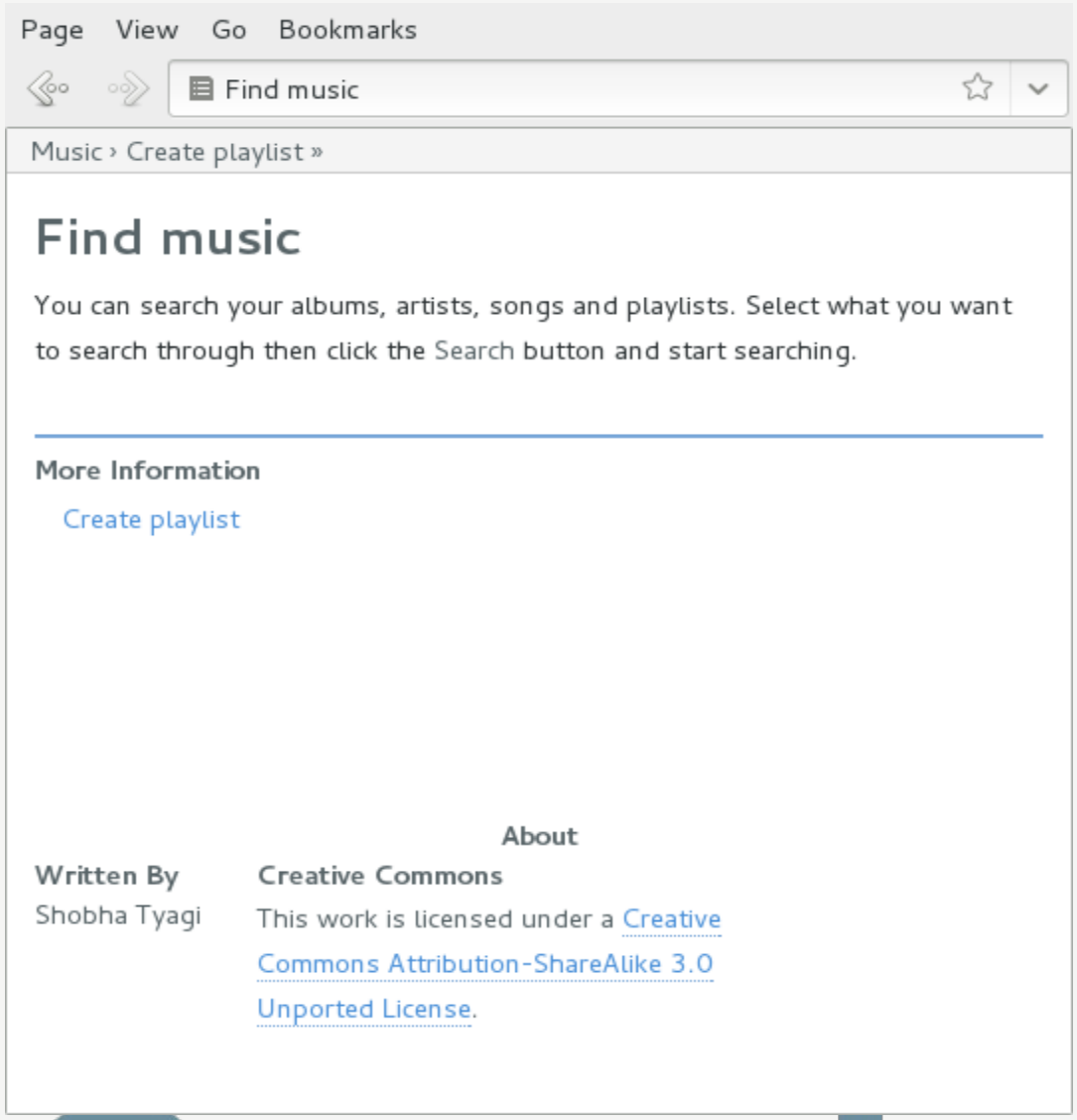
Shobha Tyagi

Mentor: Ekaterina Gerasimova

Music Help


Page View Go Bookmarks
Music
Music
Introduction to Music
A simple and elegant replacement for using files to show the music directory.
Create playlist
Create a playlist using albums
Add songs to playlists using albums.
Create playlists using songs
Create playlist by selecting your favorite songs.
Create playlists using artists
Create playlist by selecting your favorite artists.
Find music
Search through your music collection.
Play a song
How do I play songs on repeat?
Repeat all songs in the playlist or only the current song.
Play music
Play your favorite songs.
How do I shuffle my songs?

A help page


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?

File Edit View Search Tools Documents

Open Save Undo

search.page

```
<page xmlns="http://projectmallard.org/1.0/"
      xmlns:its="http://www.w3.org/2005/11/its"
      type="guide" style="2column task"
      id="search">

  <info>
    <link type="guide" xref="index#create"/>
    <revision pkgversion="3.12" date="2014-03-09" status="review"/>

    <credit type="author">
      <name>Shobha Tyagi</name>
      <email its:translate="no">tyagishobha@gmail.com</email>
      <years>2014</years>
    </credit>

    <include href="legal.xml" xmlns="http://www.w3.org/2001/XInclude"/>

    <desc>Search through your music collection.</desc>

  </info>

  <title>Find music</title>

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

</page>
```

Mallard Tab Width: 8 Ln 21, Col 1 INS

My Internship taught me

- JHBuild
- Git
- Mallard
- Yelp

F-Spot

Finishing the port to use GTK3

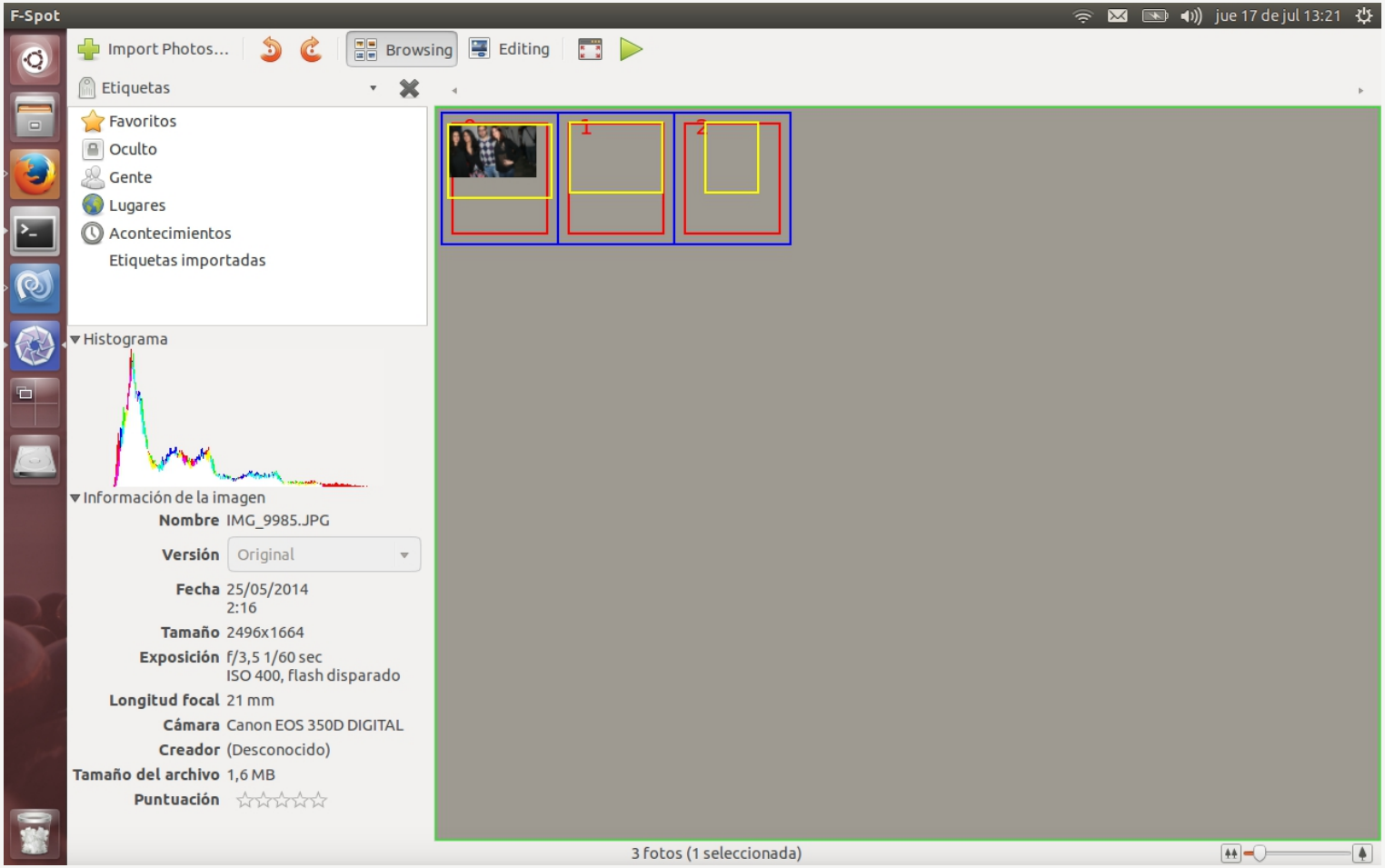
Valentín Barros <valentin@sanva.net>

Mentor: Stephen Shaw

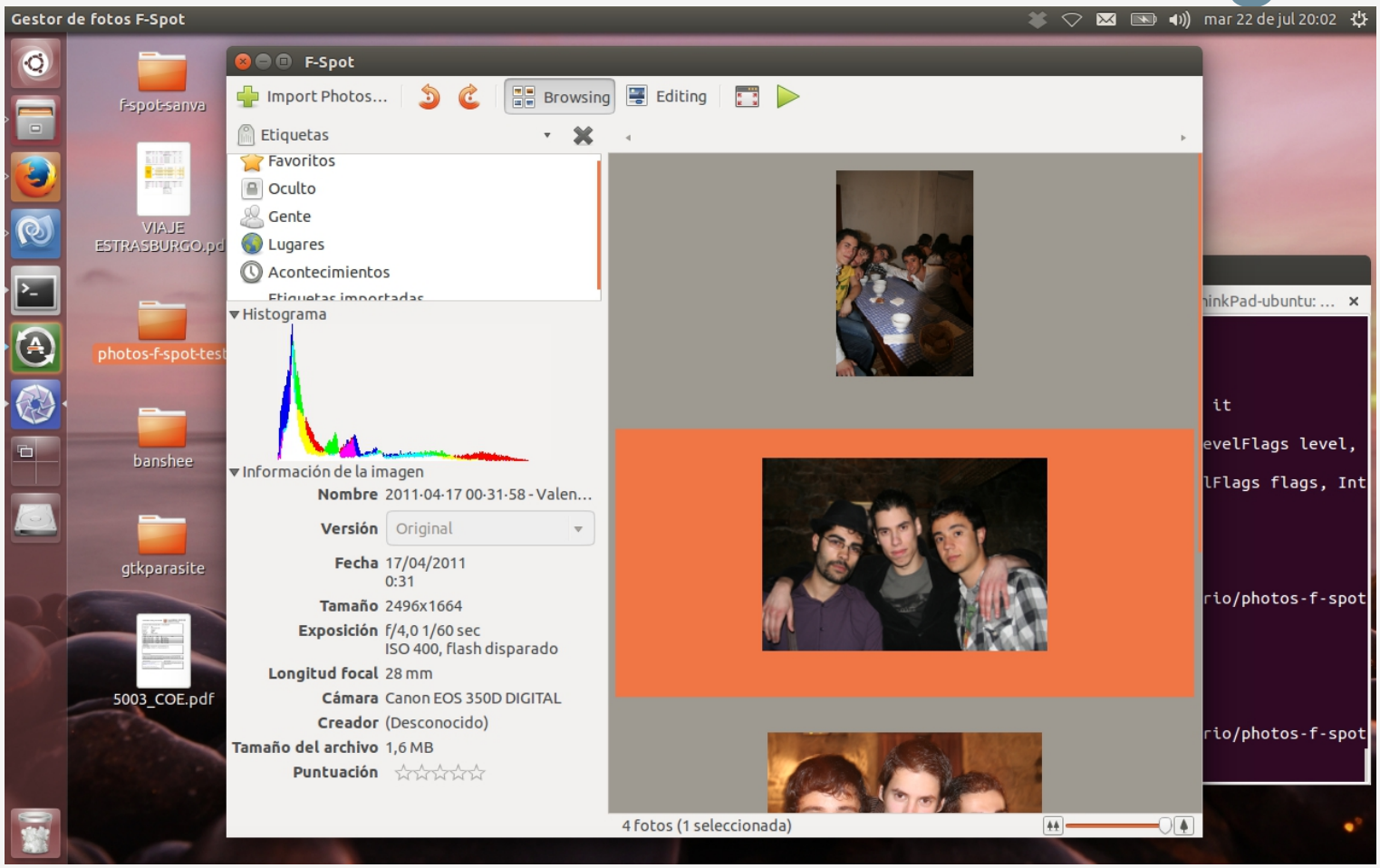
Port @*todo* tasks (1/2)

- Done tasks
  - Being able to compile the program
  - Being able to run the program
- Doing taks
  - 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

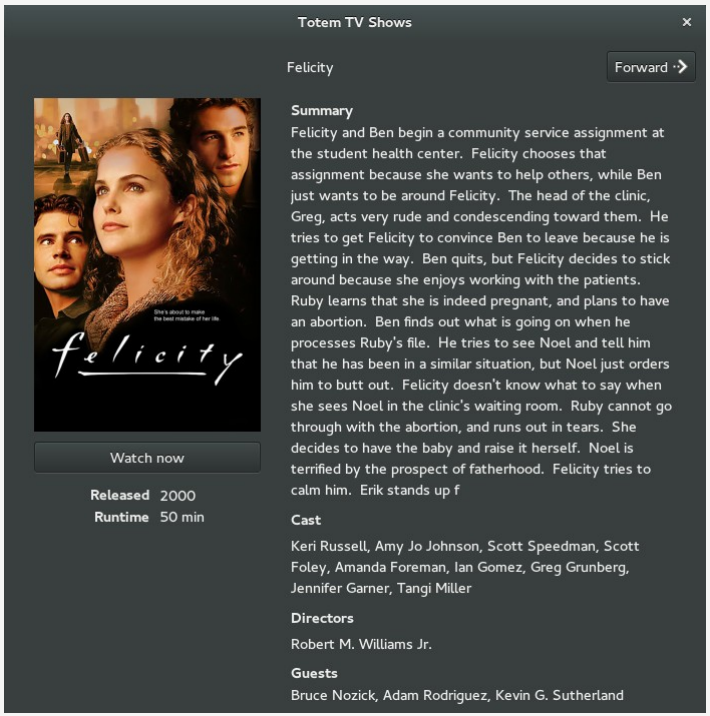
Mentor: Bastien Nocera

TV Show with The TVDB

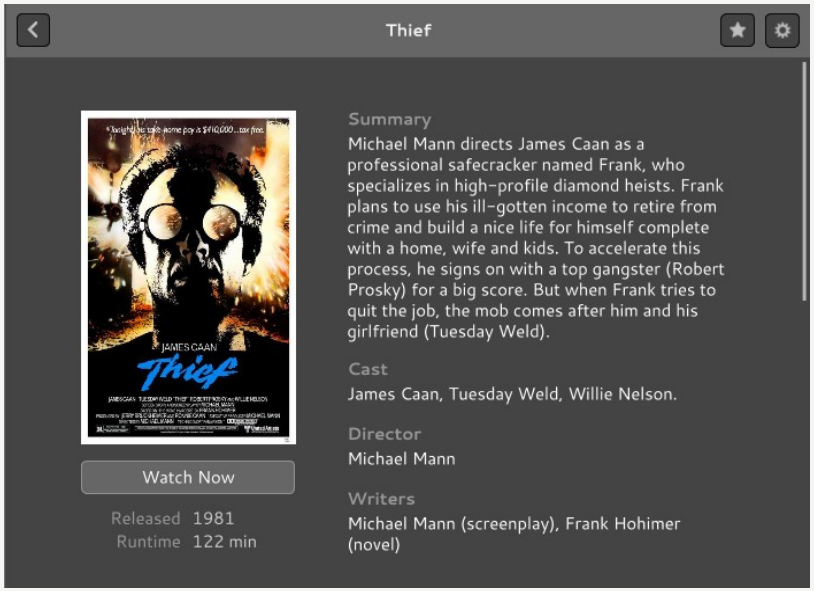
- Open database for tv shows
- Description, actors, posters, release date, etc.
- Cache with GOM
- Upstream: grlthetvdb

UI Integration with GNOME Videos

Current



Goal



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

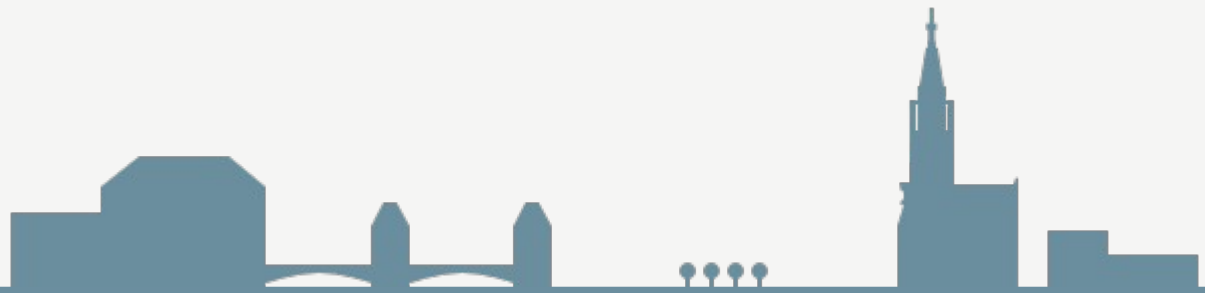
Mentor: David Woodhouse

Send S/MIME encrypted email

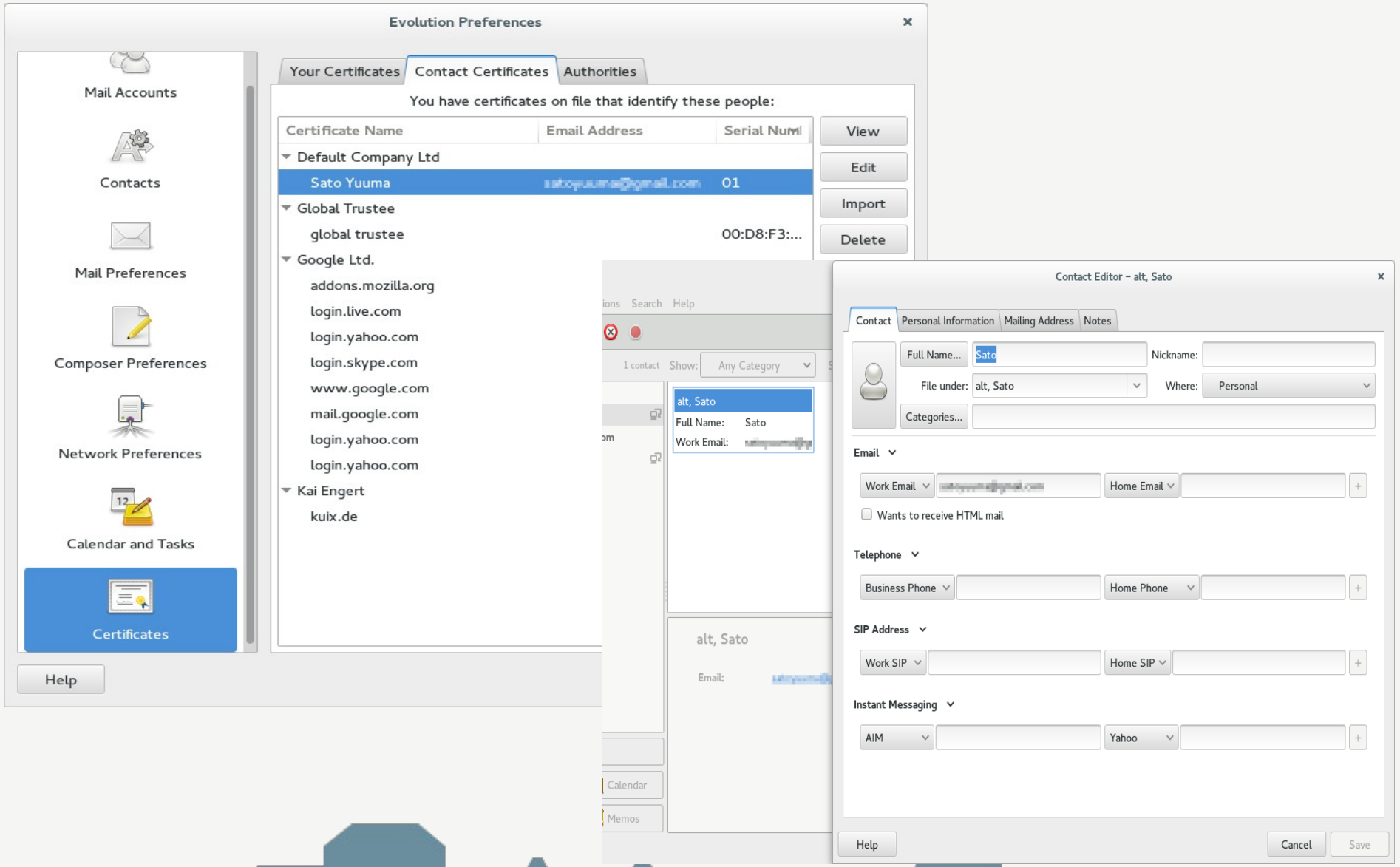
- Evolution can send S/MIME encrypted mail
- Recipient Certificate
  - NSS Certificate Store
  - Evolution Addressbook
    - Vcard
    - LDAP repository
- NSS uses PKCS#11 modules

Current Status

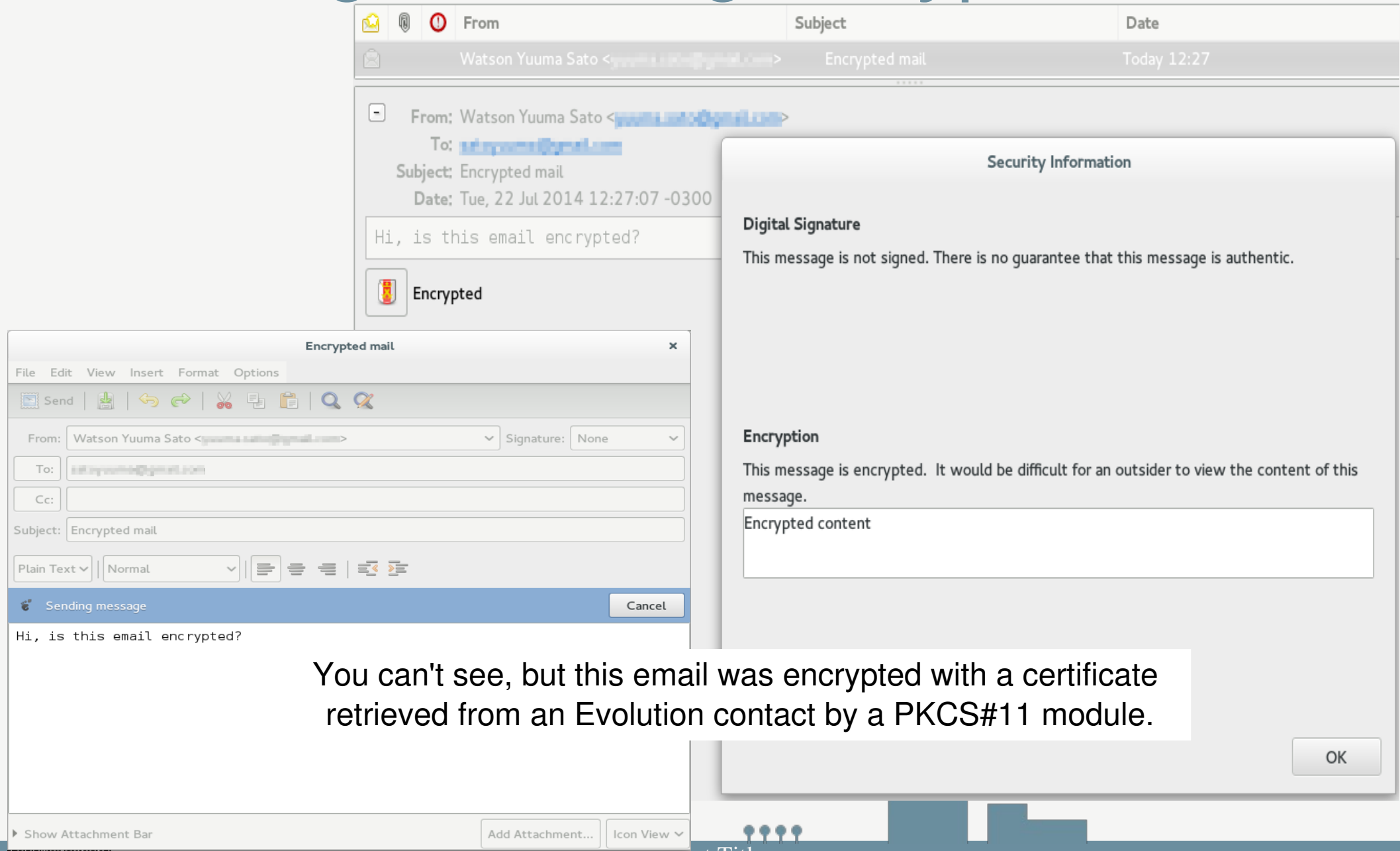
- Fetch certificates from addressbook
  - Local addressbook
  - Google adressbook
- Provide certificates to Evolution
    - When listing all certificates
    - When S/MIME encrypting email



Certificate Store / Contacts



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