

Intern Lightning Talks



Presentations order

1 - Adwait Rawat

2 - Andrei Lisita

3 - Apoorv Sachan

4 - Chinmay Gurjar

5 - Clarissa Borges

6 - Jose Lorenzo

7 - Mariana Picolo

8 - Neville Antony

9 - Norbert Pocs

10 - Nour E Din Mohamed

11 - Sai Vinneet

12 - Ujjwal Kumar

13 - Felipe Borges

14 - Gaurav Agrawal

15 - Priyanka Sagg

16 - Sonja Heinze

17 - Arun Raghavan

GSoC: Second Evaluation

will close Friday, July 31 at 18:00 UTC



GNOME Games

GSoC 2020

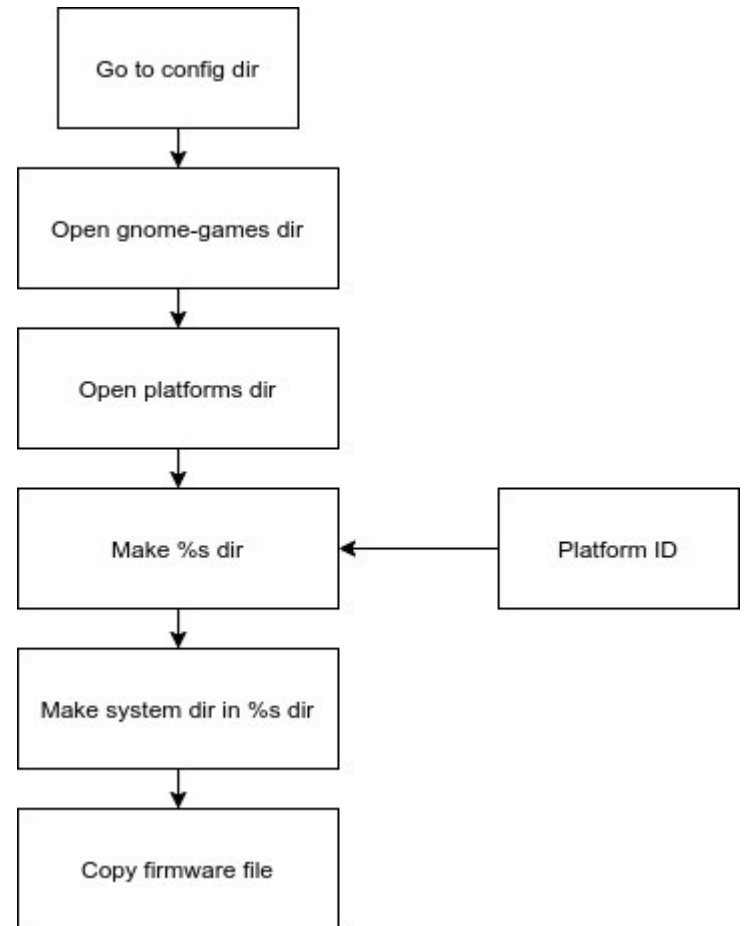
Me: Adwait Rawat
(@crugar::matrix.org)

Mentor: Alexander Mikhaylenko
(@alexm:gnome.org)

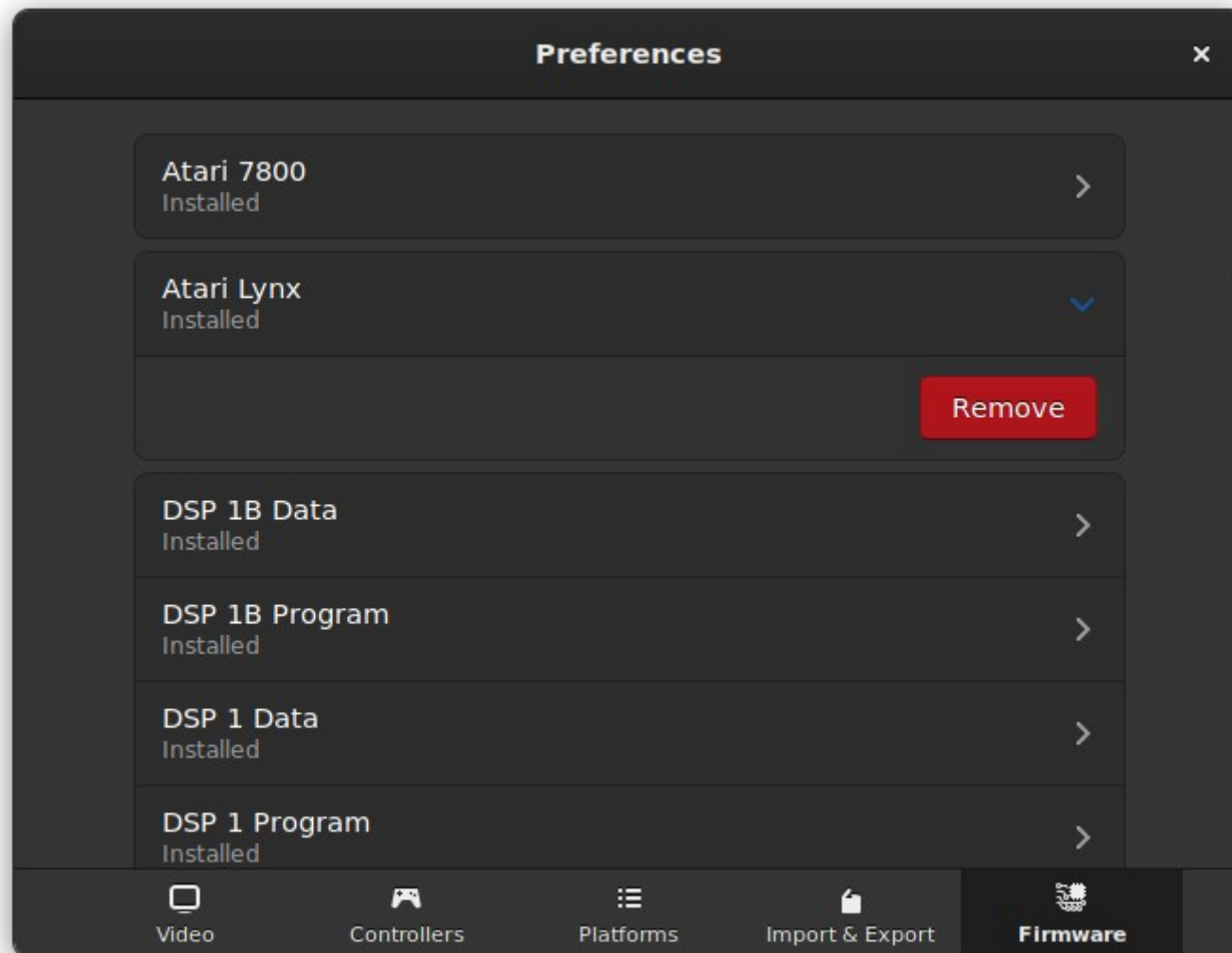


Adding a Firmware

- Open directory
- Make directory
- Copy firmware file to the system directory
- Test
 - If does not work, try again :^(



Firmware UI



Future Plans

- Add translation support
- Add drag n drop support



Thank You!



GSoC 2020 with Epiphany

Mentor



Michael Catanzaro

Mentor



Jan-Michael Brummer

Student













Andrei Lisita

Extra Help



Alexander Mikhaylenko

History Selection Mode

History		
	<input type="text"/>	<input type="button" value="X"/>
GUADEC 2020 (22-28 July 2020... https://events.gnome.org/event/1/	Yesterday 21:57	
GNOME Developer Center https://developer.gnome.org/	Yesterday 21:38	
GNOME - An easy and elegant... https://www.gnome.org/	Yesterday 21:38	
Learn OpenGL, extensive tutor... https://learnopengl.com/	Yesterday 21:35	
Introduction - Vulkan Tutorial https://vulkan-tutorial.com/	Yesterday 21:35	
Home - GNOME Wiki! https://wiki.gnome.org/	Yesterday 21:34	
Google https://www.google.com/	Yesterday 21:34	
GNOME · GitLab https://gitlab.gnome.org/GNOME	Yesterday 21:33	
Wikipedia https://www.wikipedia.org/	Yesterday 21:32	

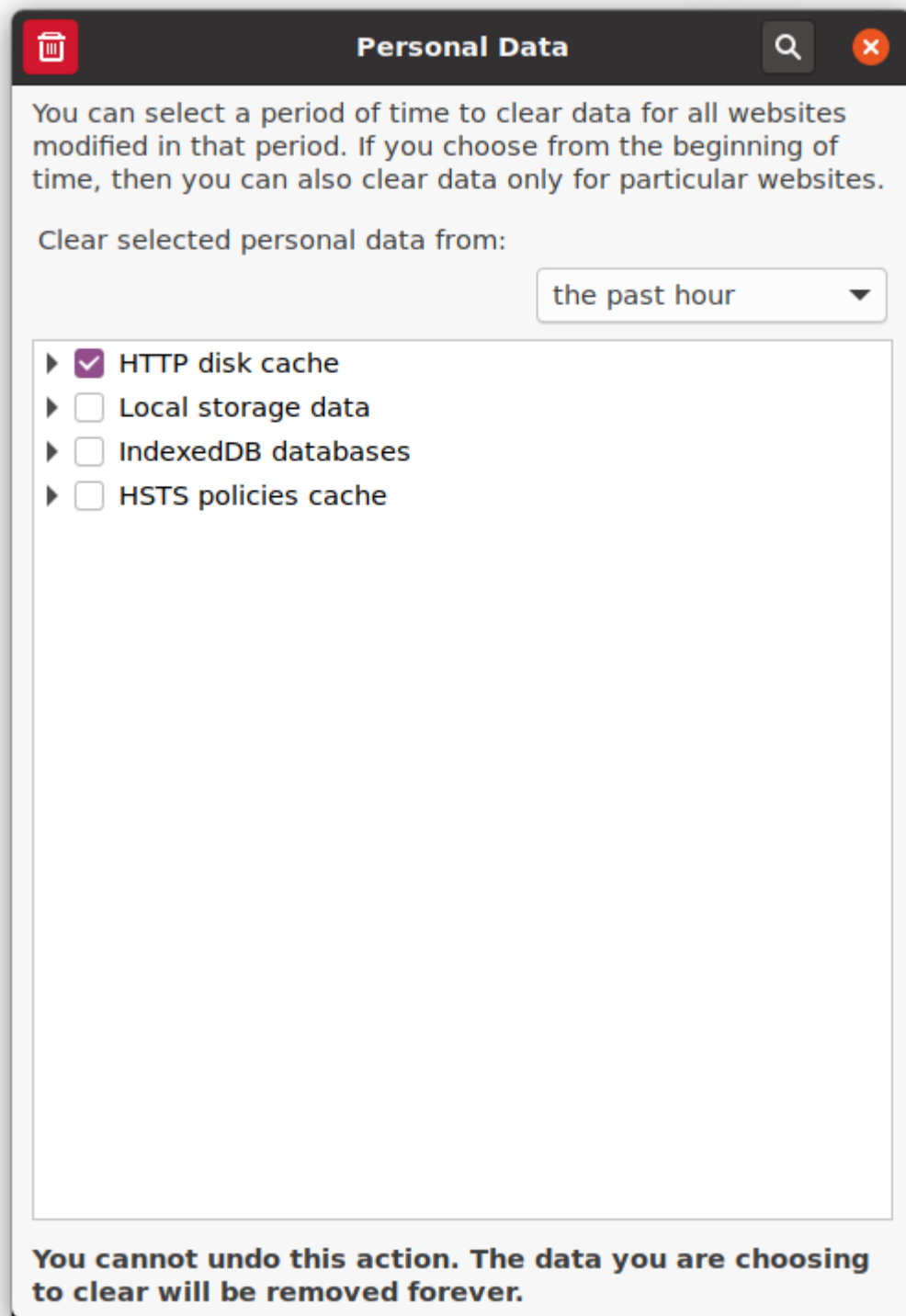
Before

History		
<input checked="" type="checkbox"/>	GUADEC 2020 (22-28 July 2020)...	Today 21:57
<input checked="" type="checkbox"/>	GNOME Developer Center	Today 21:38
<input checked="" type="checkbox"/>	GNOME - An easy and elegant ...	Today 21:38
<input type="checkbox"/>	Learn OpenGL, extensive tutori...	Today 21:35
<input checked="" type="checkbox"/>	Introduction - Vulkan Tutorial	Today 21:35
<input type="checkbox"/>	Home - GNOME Wiki!	Today 21:34
<input type="checkbox"/>	Google	Today 21:34
<input type="checkbox"/>	GNOME · GitLab	Today 21:33
<input type="checkbox"/>	Wikipedia	Today 21:32
<input type="button" value="Delete"/>		

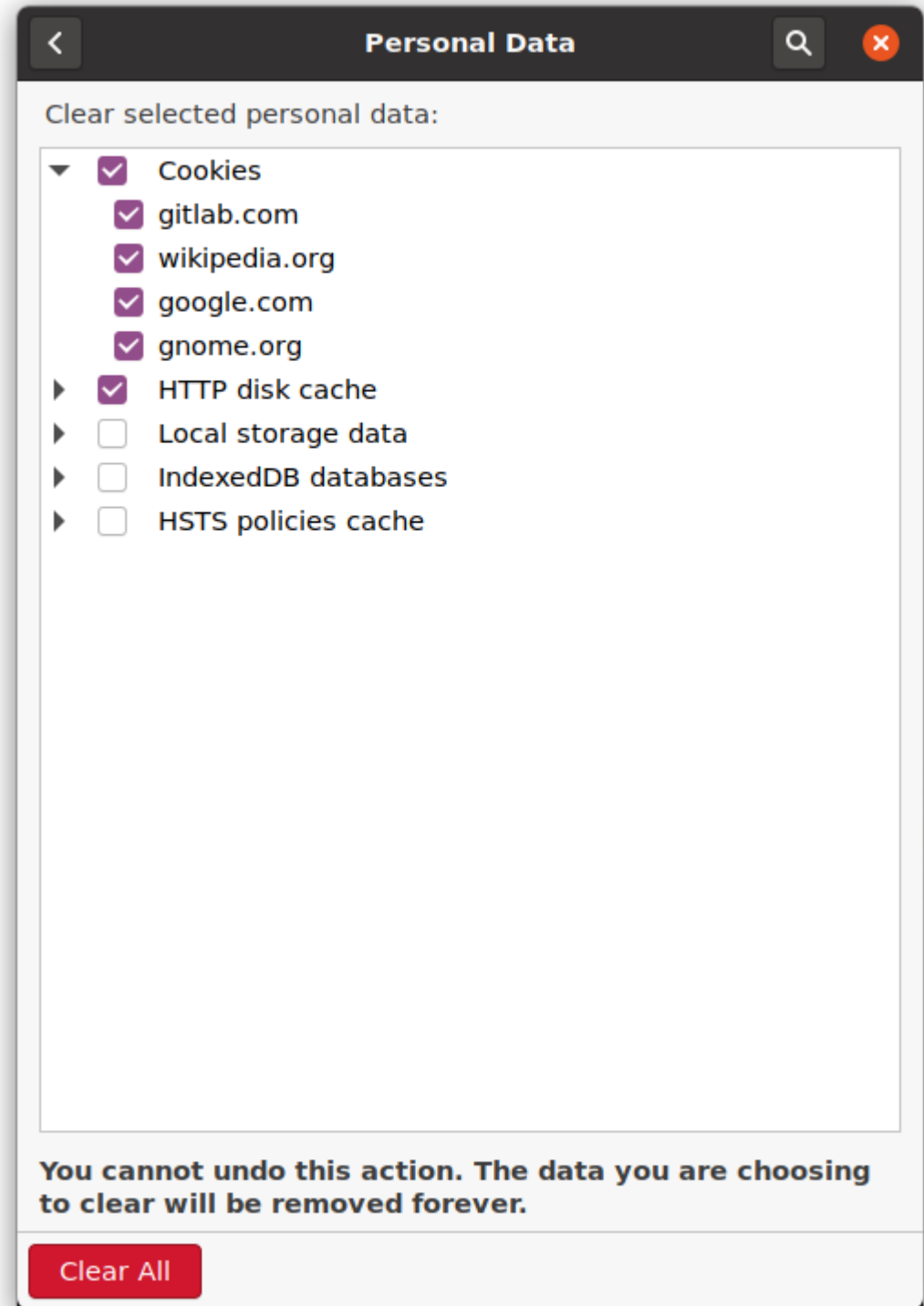
After

Improved Preferences Dialog

- Split source code files for easier development and readability
- Replace overlapping dialogs with nested views
- Mobile and touch friendly enhancements
- Cookies are no longer treated separately from other stored data



Before



After

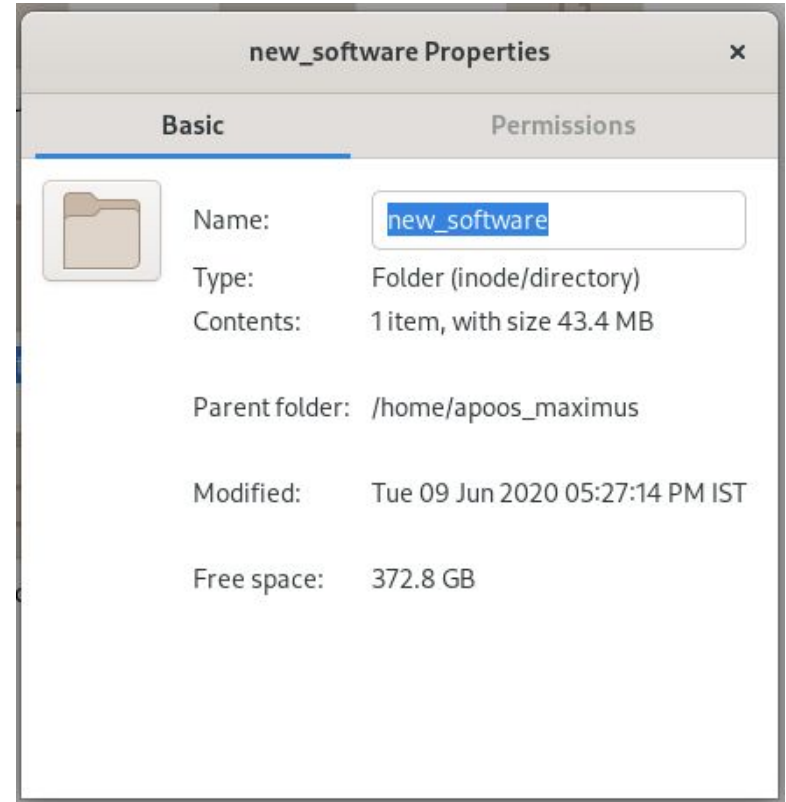
PORT NAUTILUS PROPERTIES DIALOG TO USE GTKBUILDER

Apoorv Sachan
(A.k.a apoos_maximus)

Mentor – António Fernandes
(A.k.a antoniof)

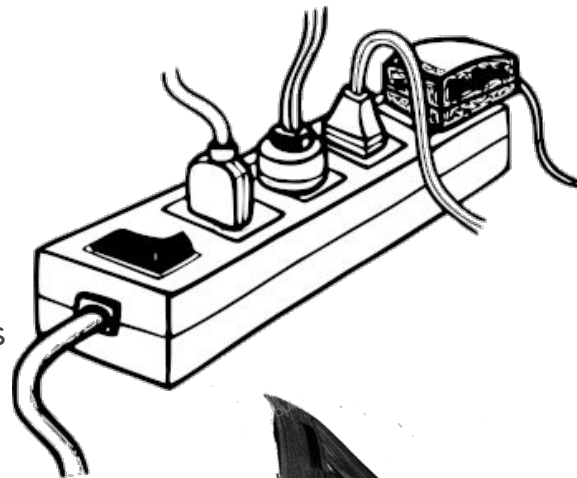
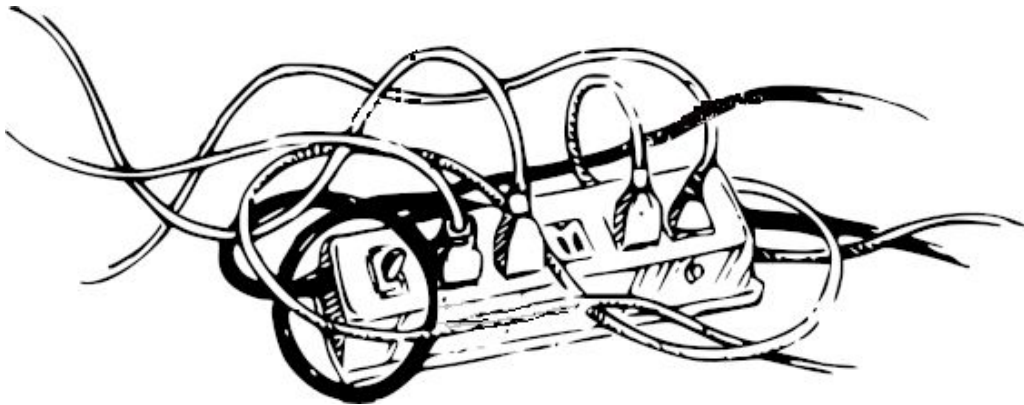


PROPERTIES WINDOW THEN AND NOW!



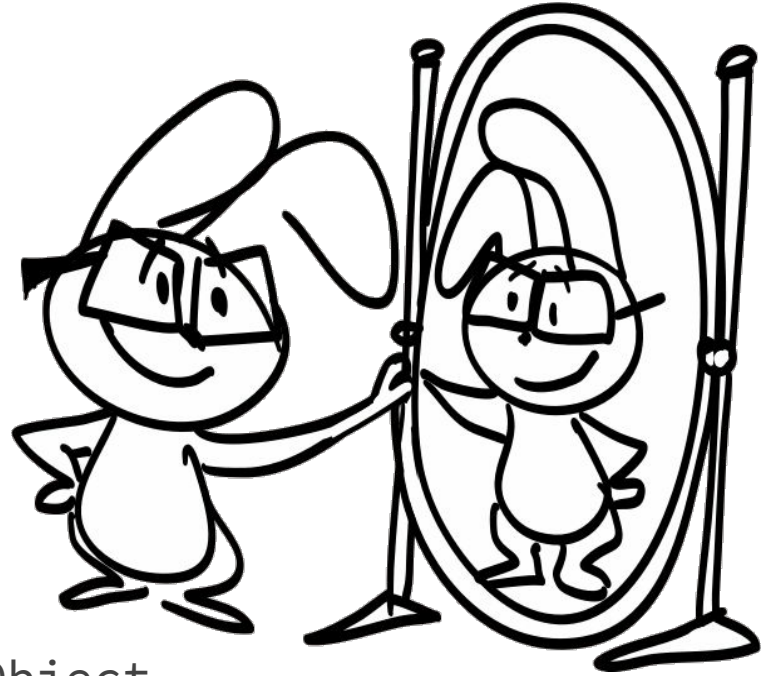
CURRENT CODE IMPLEMENTATION

- Existing system
 - Complicated circuit box
 - Intertwined business and UI logic
 - Code assumes a particular UI design
 - Deeply nested functions setting basic properties
 - Field day in debugging
 - Cumbersome and difficult to redesign



WYSIWYG

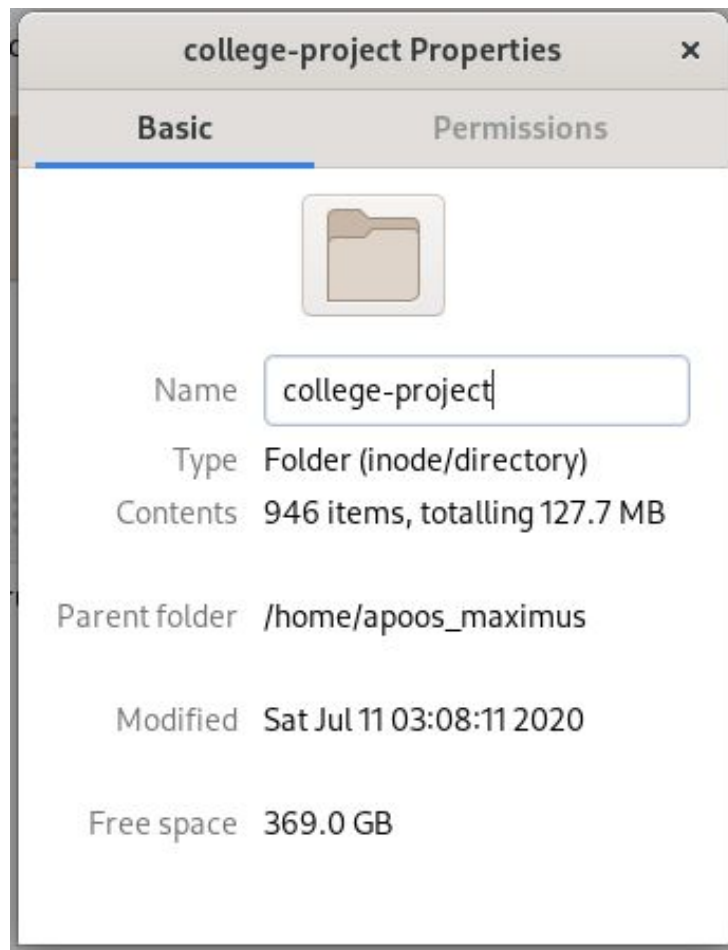
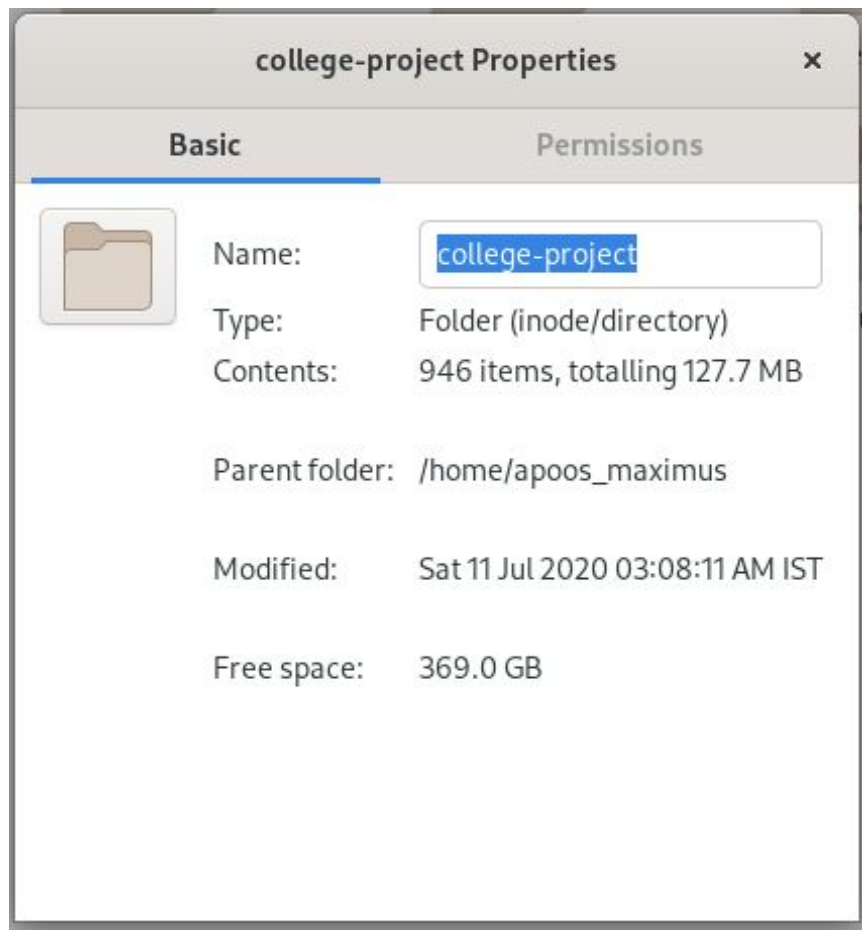
- Glade
- GtkBuilder
- Drag and Drop, Easy-to-Use
- Just data binding in code
- UI before Code Build
- Glade -> XML -> GtkBuilder -> GObject



THE TROUBLE IT SAVES

- Advantages:
 - Straight Forward UI modification
 - Easy to fix UI bugs
 - Easy Redesign
 - Be a coder not an Archaeologist
 - More control over individual widget styling





THANK YOU !



GNOMETM

Support Remote Sources in GNOME Music

Chinmay Gurjar

Mentored By:
Jean Felder



Project Goals

- Add support for DLNA sources.
- Add support for DAAP sources.
- Redesigning search view.

Benefits


- What is media server?
- What is DLNA and DAAP?




My Contributions

- Added support for DLNA sources.


AlbumsArtistsSongsPlaylists




Aalas Ka Pedh
The Local Train




Aalas Ka Pedh
Unknown Artist




Global Warming (Deluxe Version)
Pitbull




Global Warming (Deluxe Version)
Unknown Artist




Gravity, Pt. 1 - EP
Gryffin




Gravity, Pt. 1 - EP
Unknown Artist




Next Wave
Bossfight



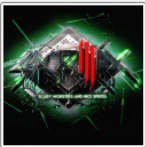
Next Wave
Unknown Artist




Nobody Compares To You
(feat. Katie ...mixes) - EP
Gryffin




Nobody Compares To You
(feat. Katie ...mixes) - EP
Unknown Artist




Skrillex - Scary Monsters
And Nice Sprites Ep
Skrillex




Skrillex - Scary Monsters
And Nice Sprites Ep
Unknown Artist




Together
Tiësto




Together
Unknown Artist



Ultra Music Festival 2019
Various Artists




Ultra Music Festival 2019
Various Artists



Ultra Music Festival 2019
Unknown Artist

AlbumsArtistsSongsPlaylists

11:59 (feat. Vein)	Pitbull	Global Warming (Deluxe Version)	3:37	☆
11:59 (feat. Vein) (Gilfoyle's media on gilfoyle-Inspiron-5567)	Pitbull	Global Warming (Deluxe Version)	3:37	☆
Aaoge Tum Kabhi	The Local Train	Aalas Ka Pedh	5:13	☆
Aaoge Tum Kabhi (Gilfoyle's media on gilfoyle-Inspiron-5567)	The Local Train	Aalas Ka Pedh	5:13	☆
Accelerator	Solardo & CamelPhat	Ultra Music Festival 2019	2:20	☆
Accelerator (Gilfoyle's media on gilfoyle-Inspiron-5567)	Solardo & CamelPhat	Ultra Music Festival 2019	2:20	☆

 GNOME™

What's Next

- Rygel fix-ups.
- Grilo-plugins fix-ups.
- DAAP support.
- Search customization.



Thank You!



GNOME UI Library

Clarissa Borges

Mentors:

Claudio Wunder

Caroline Henriksen

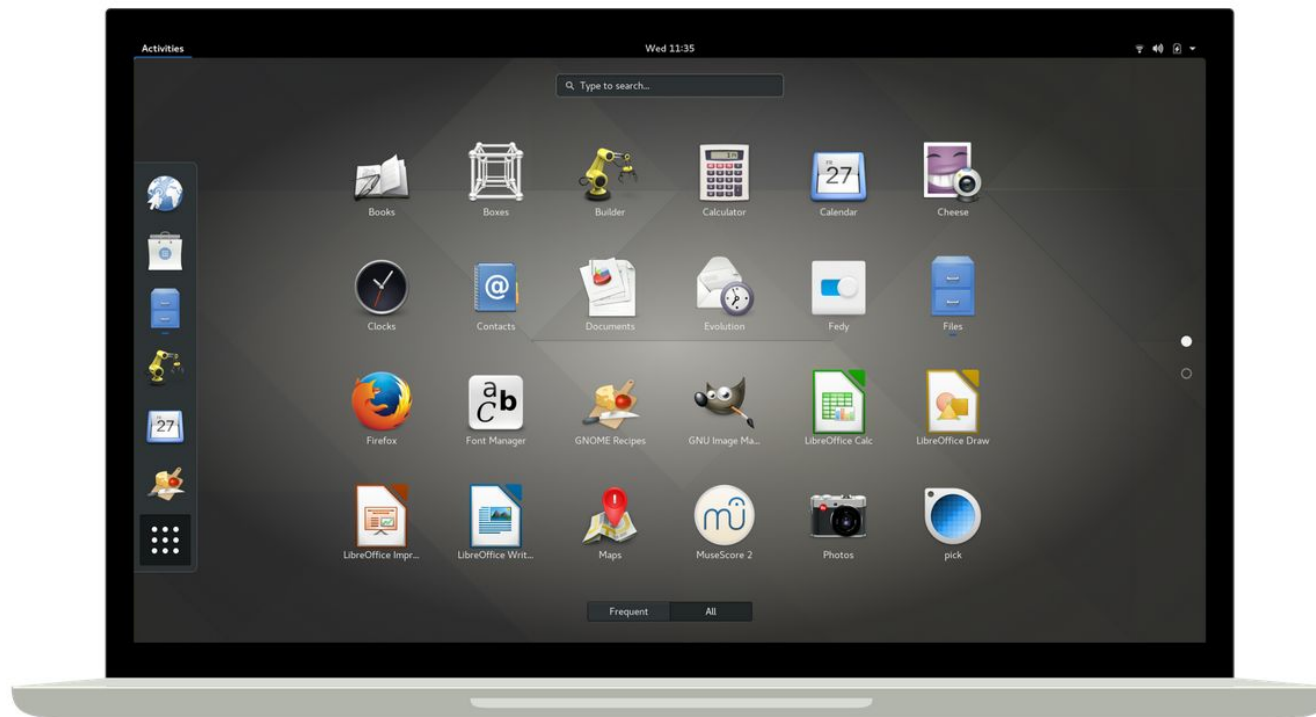
Advisors:

Britt Yazel

Kristi Progri



GNOME.org design



Discover GNOME 3

An easy and elegant way to use your computer, GNOME is designed to put you in control and get things done.

[Learn More](#)

[Get GNOME](#)



GNOME.org design

- Friendly and welcoming
- Represent GNOME
- Easy to maintain



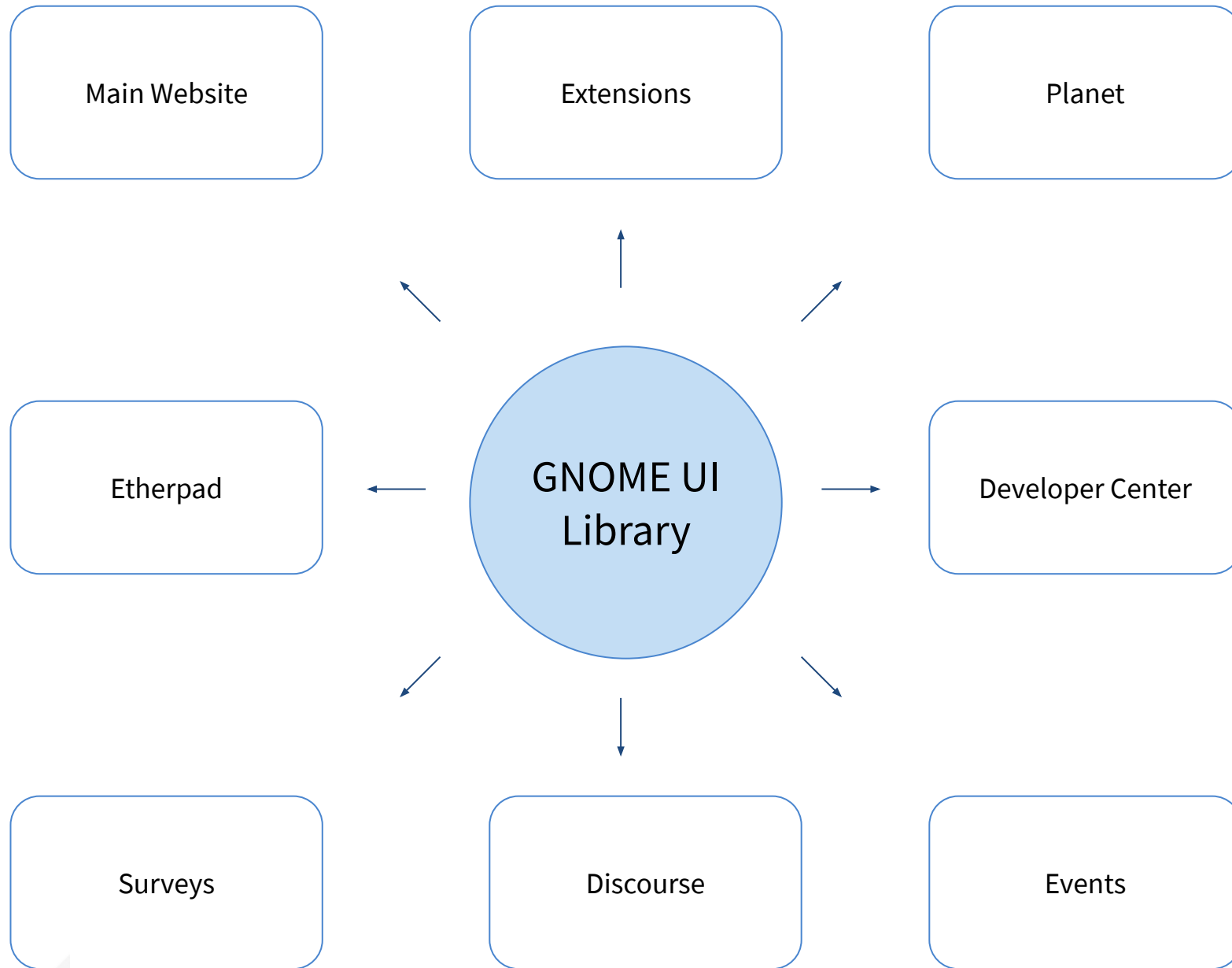
Why not all the GNOME
websites?



GNOME web ecosystem

Wiki
Planet
GNOME
Developer
Discourse
Events
Etherpad
Surveys





Creating the GNOME UI lib

- Assessment of the websites current state
- Design the UI library
- Choose a library to extend from
- Code and document the library
- Create platform-specific frameworks



Creating the GNOME UI lib

Black & White



Black
#000000



White
#FFFFFF

GNOME Blue



100
#EEF5FC



400
#6DADE3



700
#1D619A



200
#C3DDF4



500
#4295DB



800
#15466F



300
#98C5EB



600
#267CC5



900
#0D2B45

Gray



100
#F2F2F2



400
#A6A6A6



700
#595959



200
#D9D9D9



500
#8C8C8C



800
#404040



300
#A6A6A6



600
#737373



900
#262626



Creating the GNOME UI lib

Headings

Header 1

Source Sans Pro Ultra-Light, 80pt

Header 2

Source Sans Pro Normal, 48pt

Header 3

Source Sans Pro Light, 24pt

Header 4

Source Sans Pro Semi-Bold, 24pt

Body Texts

Large text

Source Sans Pro Normal, 24pt

Medium text

Source Sans Pro Normal, 20pt

Normal text

Source Sans Pro Normal, 16pt

Small text

Source Sans Pro Normal, 12pt

Code snippets

Code snippets

Hack Normal, 20pt

Red highlight

Green highlight

Purple highlight

Orange highlight



Creating the GNOME UI lib

[Features](#)[About](#)[Get Involved](#)[Get GNOME](#)

More than just a desktop environment

An easy and elegant way to use your computer, GNOME is designed to put you in control and get things done.

[Learn More](#)[Release Notes](#)

Creating the GNOME UI lib

Get things done with ease, comfort and control

Fusce ut efficitur tortor. Praesent ultrices finibus viverra. Sed venenatis eros at erat posuere vehicula.
Integer congue suscipit velit in ultrices.



Support GNOME



Donate

Donations are handled by the GNOME Foundation, GNOME's community-run non-profit organization. You can help with a monthly subscription or one time donation.

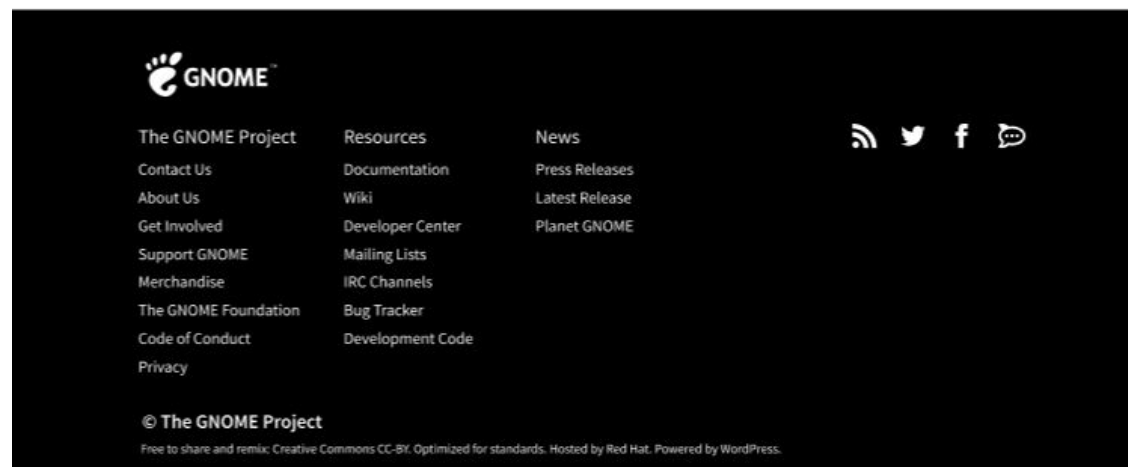
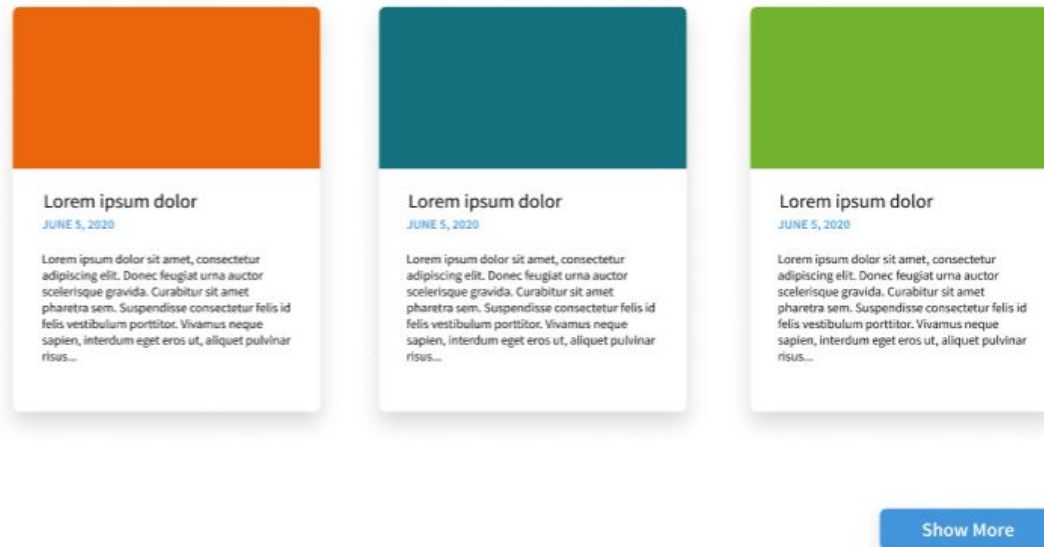


Contribute

Getting involved is a great way to learn skills, have fun, and help to create world-class Free Software.

Creating the GNOME UI lib

Press



Which library the GNOME
UI library extends from?



Tailwind CSS

- Utility-first CSS framework
- Highly customizable
- Helps to keep the design consistency



Thank You!



The GNOME™ Conference GUADDEC

Battery Bench: Bring battery testing
back to the future

José F. Lorenzo-Hernández (josee.loren@gmail.com)

Mentor: Christian Kellner (@gicmo)

Google Summer of Code 2020



About me

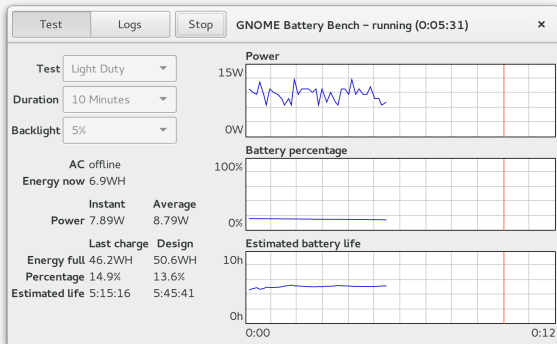
- 👣 BSc in Computer Science and Business Management
- 👣 MSc in Intelligent Systems
- 👣 MBA in International Businesses
- 👣 MBA in Financial Audit
- 👣 PhD Student in Business, Internet and ICT at ULPGC
- 👣 GSoC 2017 contributing to wxWidgets



About the project

gnome-battery-bench is a battery testing software.

You can run and develop tests in order to check how they impact on battery life.



Project main objective

Improve laptops battery performance on GNOME future versions.

Summer main milestones:

- 🦋 Port project to Wayland (using libevdev instead of X11).
- 🦋 Solve issues on bugtracker.

How to check out the project?

```
git clone \
https://gitlab.gnome.org/GNOME/gnome-battery-bench.git
```

How libevdev works?

```
struct libevdev *dev = NULL;
int fd = open("/dev/input/event0", O_RDONLY|O_NONBLOCK);
int rc = libevdev_new_from_fd(fd, &dev);
# Error checking

do {
    struct input_event ev;
    rc = libevdev_next_event(dev,
        LIBEVDEV_READ_FLAG_NORMAL, &ev);
    if (rc == 0)
        printf("Event: %s %s %d\n",
            libevdev_event_type_get_name(ev.type),
            libevdev_event_code_get_name(ev.type, ev.code),
            ev.value);
} while (rc == 1 || rc == 0 || rc == -EAGAIN);
```

Questions?

🐾 José F. Lorenzo-Hernández (josee.loren@gmail.com)

🐾 My LinkedIn:

<https://www.linkedin.com/in/joselorenzohernandez/>

🐾 Project blog: batterybenchgsoc2020.wordpress.com

GNOME Shell: Notification Popover Redesign

Mariana Pícolo

Mentor: Florian Müllner

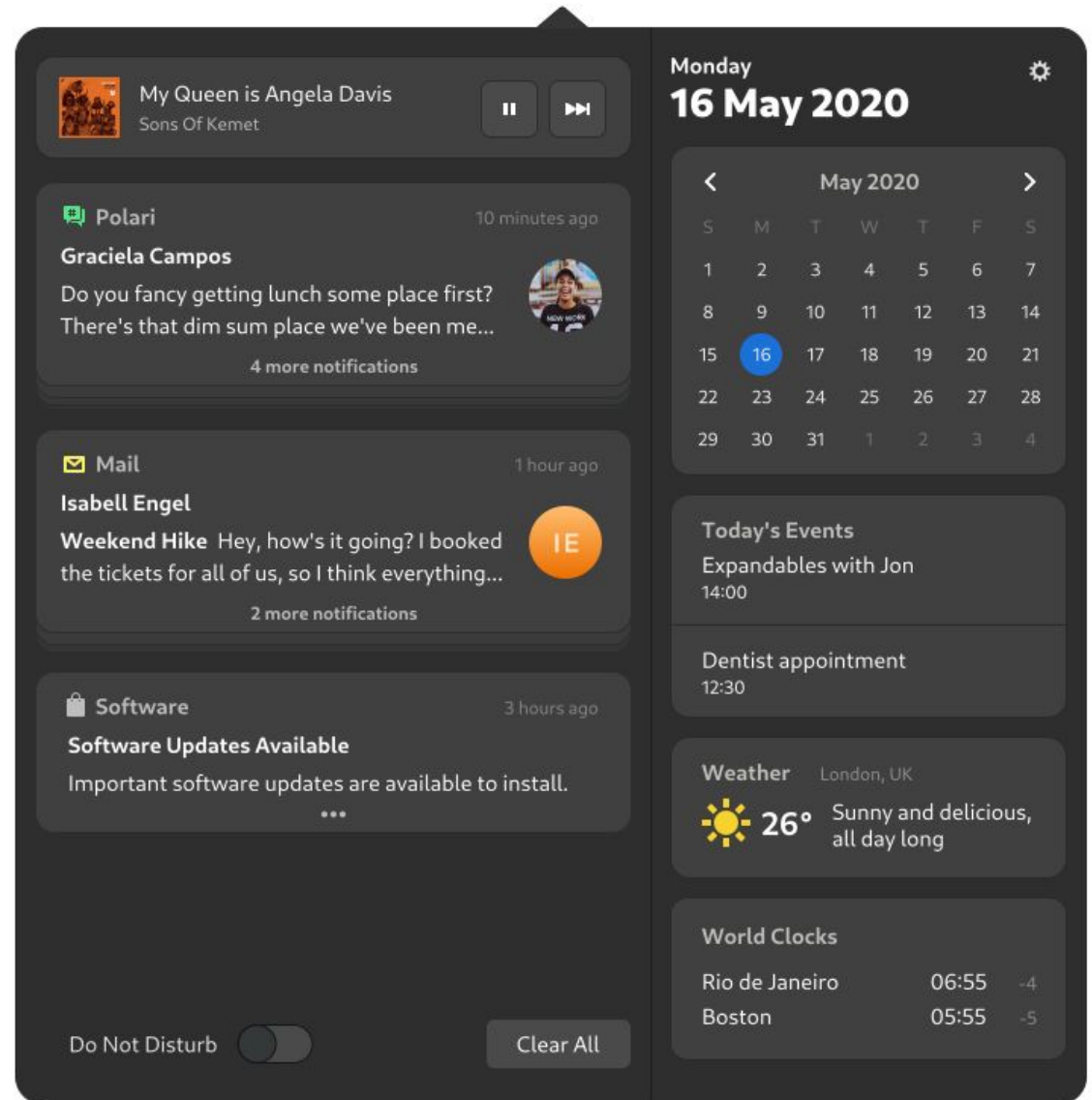


The Project

- Bring a fresh design to the calendar popup;
- Update the way notifications are displayed;
 - Group app notifications on stacks;
 - Make actions available on each notification message;



The Concept



This concept was made by Tobias Bernard.

First Milestone

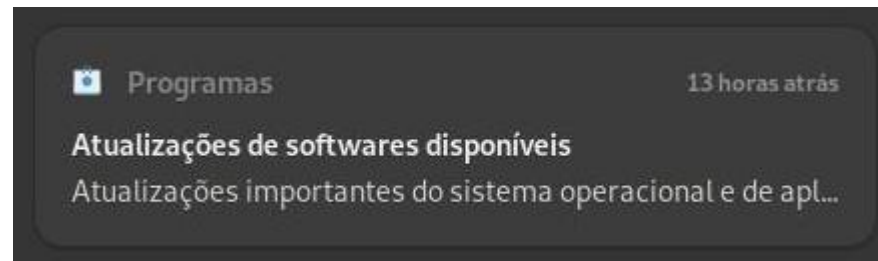
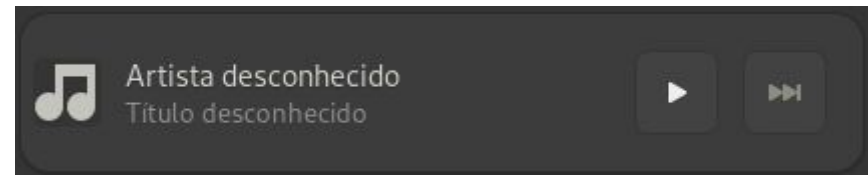
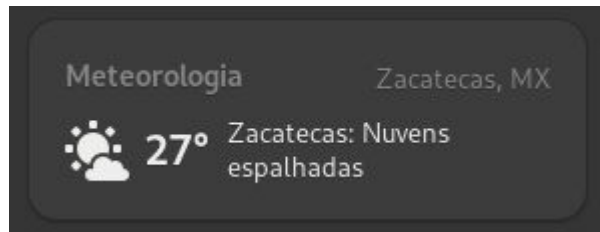



Notification Section Redesign

- Changes in the *NotificationMessage* code;
 - New notification bubble layout;
 - A new layout for the MPRIS indicator;



Notification Section Redesign





 Notifier

Agora mesmo

Test Notification

This is just a small test





 Notifier

1 hora atrás

Test Notification

This is just a small test





 notify-send

Agora mesmo

Using notify-send

Just a text to use notify send.



 Programas

2 dias atrás

1 aplicativo atualizado

Feeds foi atualizado.

Não perturbe ☐

Limpar

quarta


22 de julho de 2020

julho

D	S	T	Q	Q	S	S
28	29	30	01	02	03	04
05	06	07	08	09	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	01
02	03	04	05	06	07	08


Meteorologia

Brasilia, BR

 14° Brasilia: Céu claro

Relógios mundiais

Washington	23:00	-1
Madrid	05:00	+5

 GNOME™

Second Milestone



Grouping Notifications

- Notifications were already grouped in previous versions of GNOME;
 - Create a custom layout manager;
 - Reflect the groups in the UI;
 - Add animations and collapse/expand effects;



Thank You!



GSoC: Implementing Collections in GNOME Games

Neville Antony (@nevilleantony98)

Mentor: Alexander Mikhaylenko (@exal_m)



GNOME Games



- *Games* is a simple game launcher and front-end for various emulators
- Maintained by Alexander Mikhaylenko (@exa1m)
- Also the first open source project I've contributed to :)



Implementing Collections

➤ Why are collections needed?

- It helps us organize our games in our own ways
- Provides a quicker path to reach our games
- Lets the app “suggest” which games we might be looking for to play

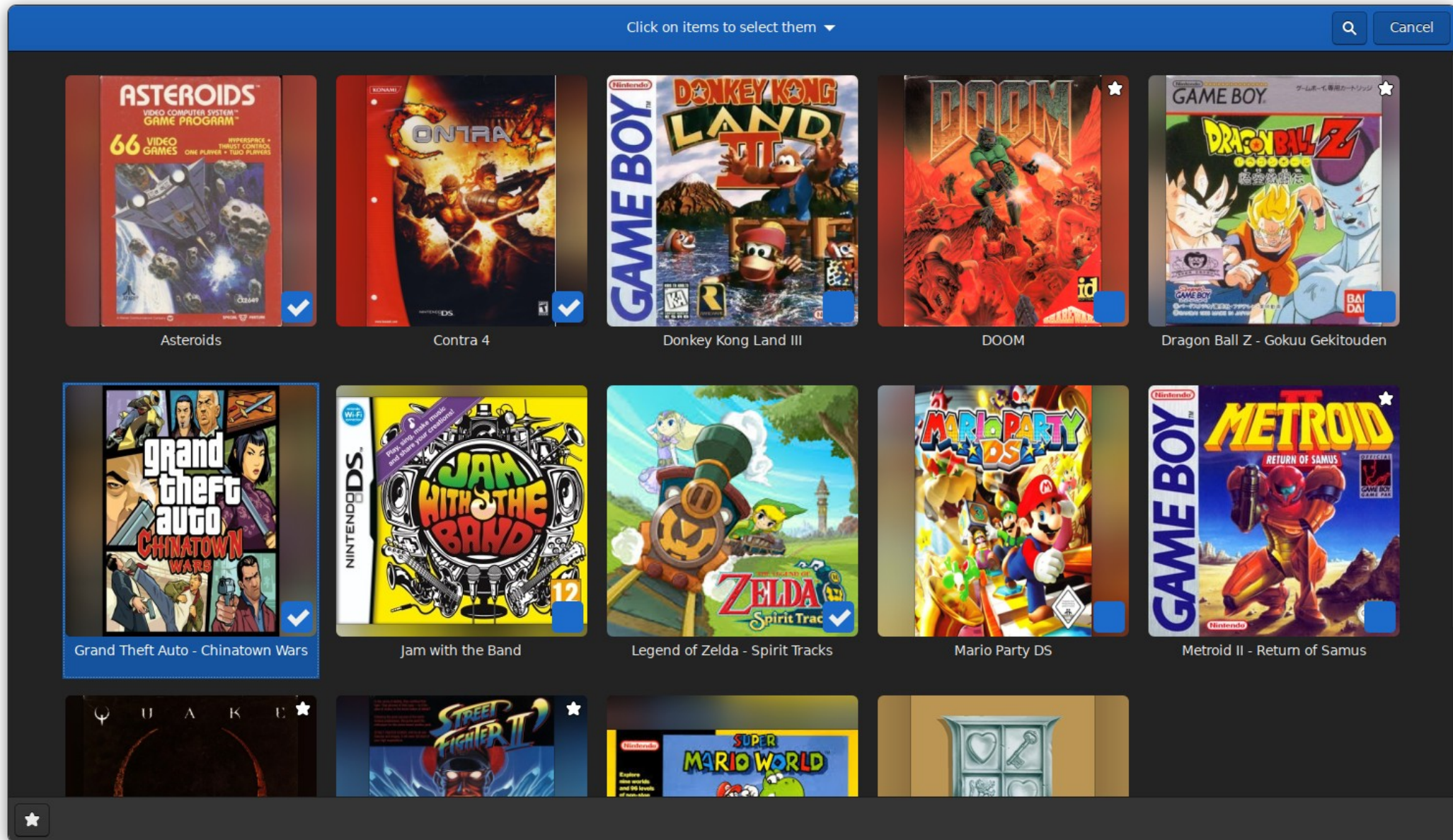
➤ What types of collections do we need?

- *Favorites collection*: To keep all our favorite games in one place
- *Recently Played*: To quickly get to our recently played games
- *User Collections*: To define our own collections!
- And other types of collections that might be useful to have



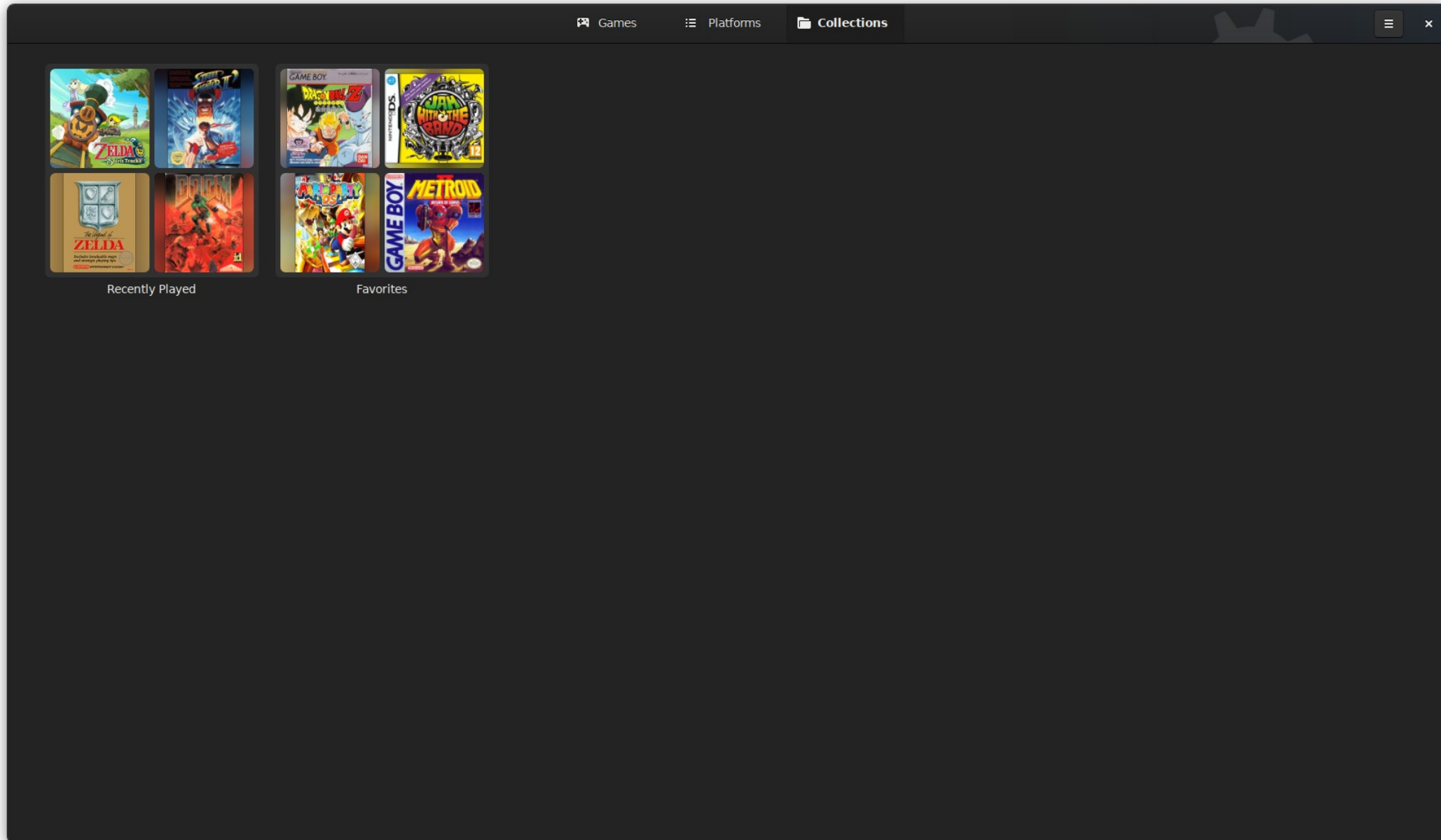
My Progress

I first implemented a “Selection Mode” where games can be selected and added to Favorites and later on, to any other collections.



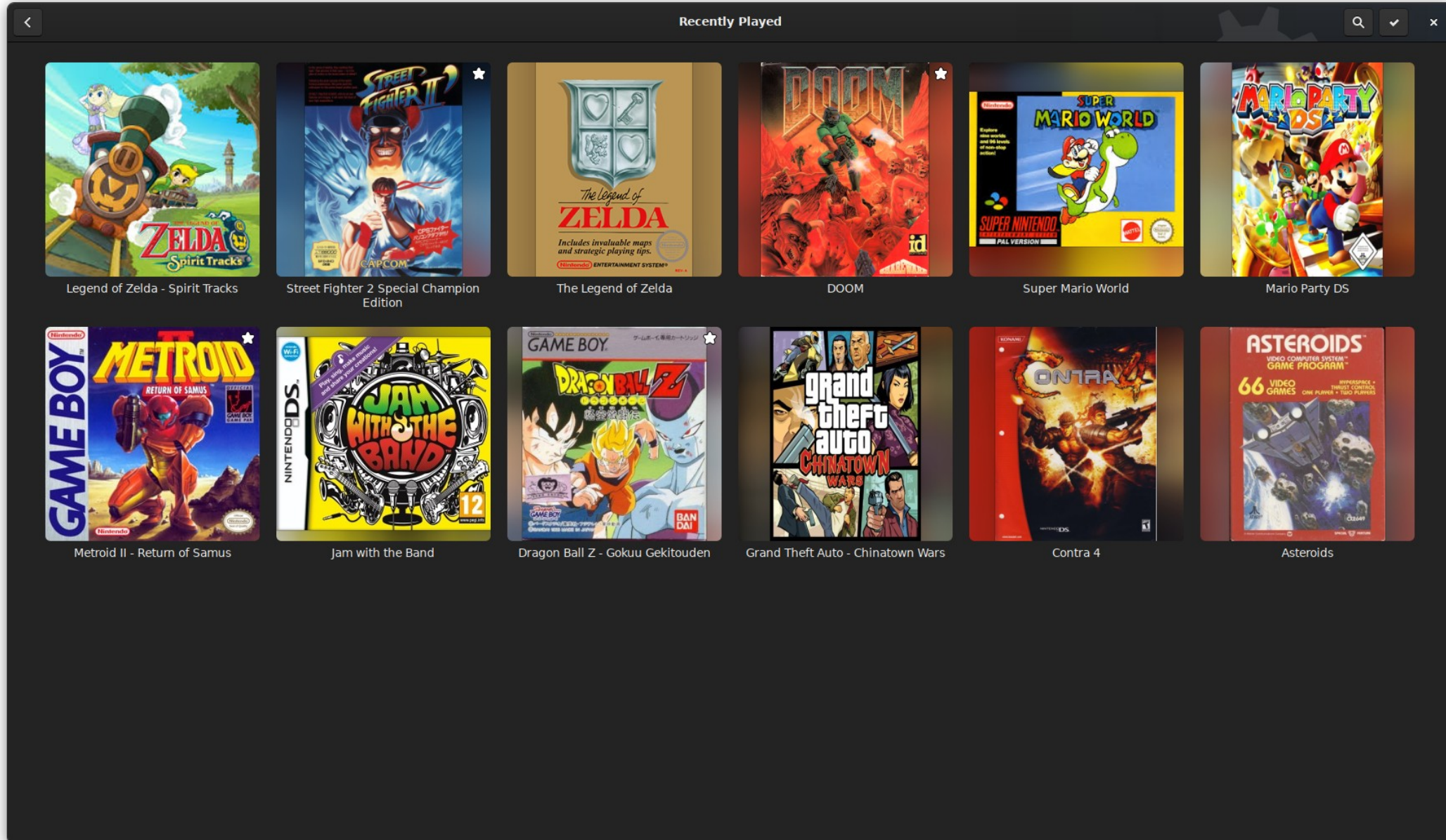
My Progress

I then implemented a “Collections” page where all collections are shown.



My Progress

And a page where each collection can be viewed and managed.



Thank You!



The GNOME™ Conference GUADDEC

fido2-proxy

Norbert Pócs (npocs@redhat.com)



about

intern at Red Hat since february 2020

mentor: Daiki Ueno

what is fido2?

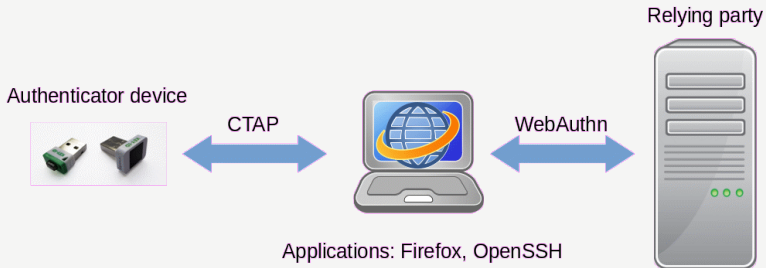


Image credit: Mayopuk, "FIDO2 USB security keys: fingerprint biometric and push-button", [CC BY-SA 4.0](#).

the problem

- 🐾 direct communication with the key
- 🐾 sandboxes

target:

- 🐾 flatpak
- 🐾 flatpak portal
- 🐾 firefox

the solution

fido2-proxy consists of:

- 🐾 server
- 🐾 client library

using:

- 🐾 libfido2
- 🐾 libsystemd for dbus
- 🐾 OpenSSH SK API
- 🐾 USB

current status & future plans

current status:

- 👉 working server implementation

future plans:

- 👉 client library to work with the server
- 👉 testing

repo: gitlab.com/npocs/fido2-proxy

Adding EteSync Module to Evolution Data Server (EDS)

Nour E-Din El-Nhass



Milan Crha

Mentors

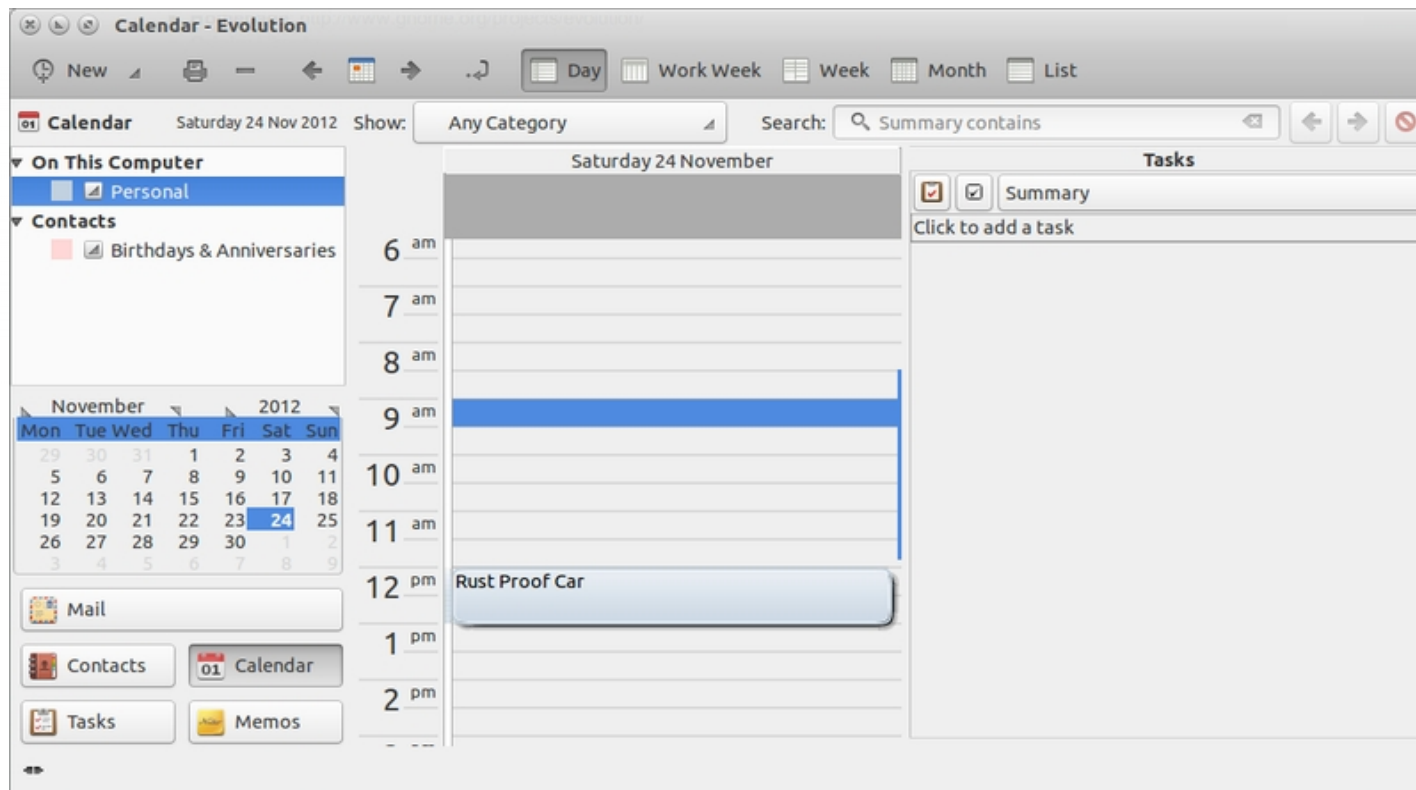


Tom Hacoheh



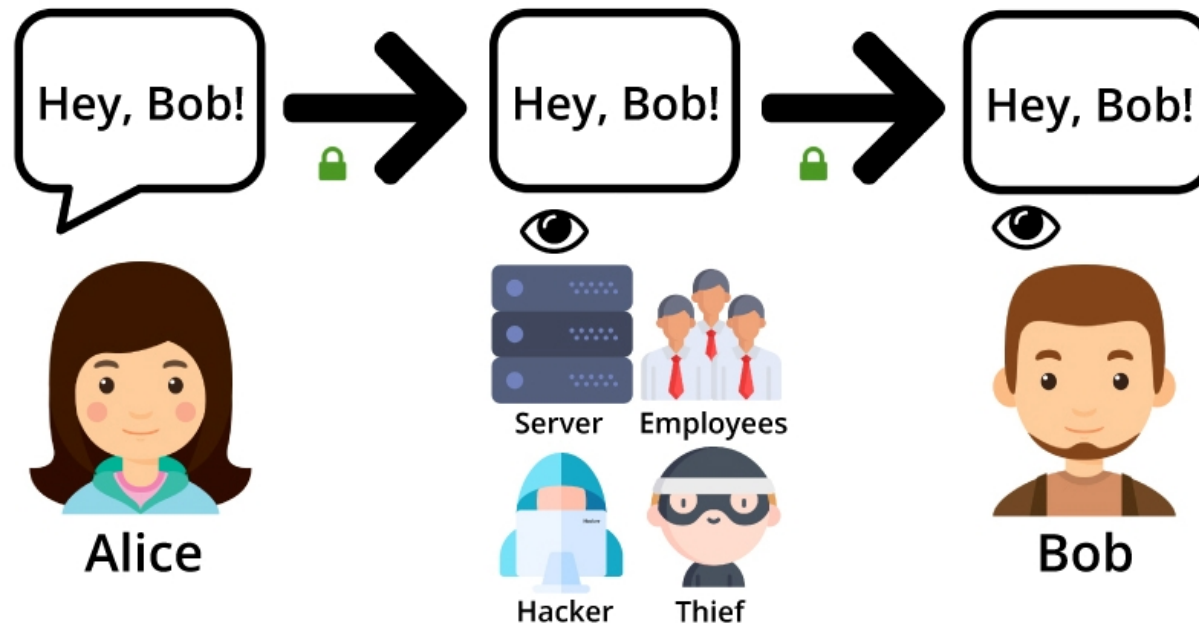
What is Evolution Data Server (EDS) and Evolution

- Evolution data server is basically a collection of libraries and services for storing address-books and calendars.
- Evolution is a personal information management application that provides integrated mail, calendaring and address book functionality.



What is EteSync

- EteSync is a secure, end-to-end encrypted and FLOSS sync solution for your contacts, calendars and tasks.

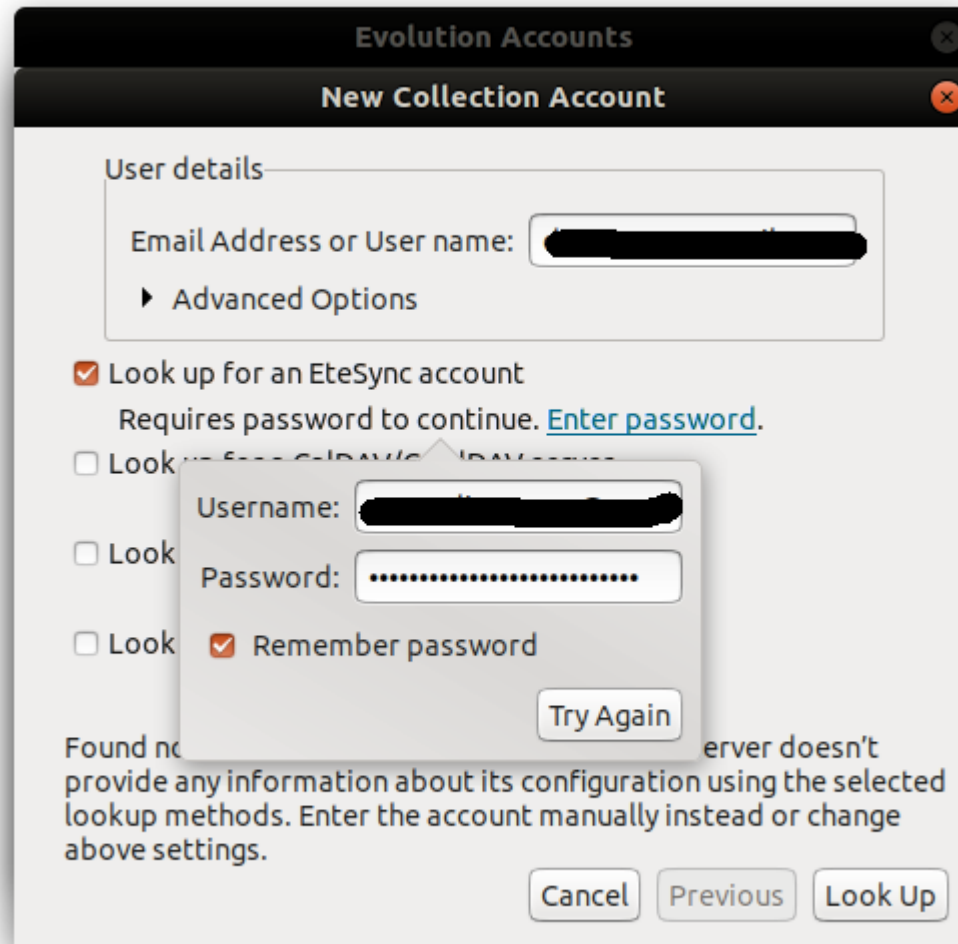


Without end-to-end encryption your data is exposed

- EteSync is open source (clients and server), so anyone can self-host his own server instead of using EteSync's cloud servers.

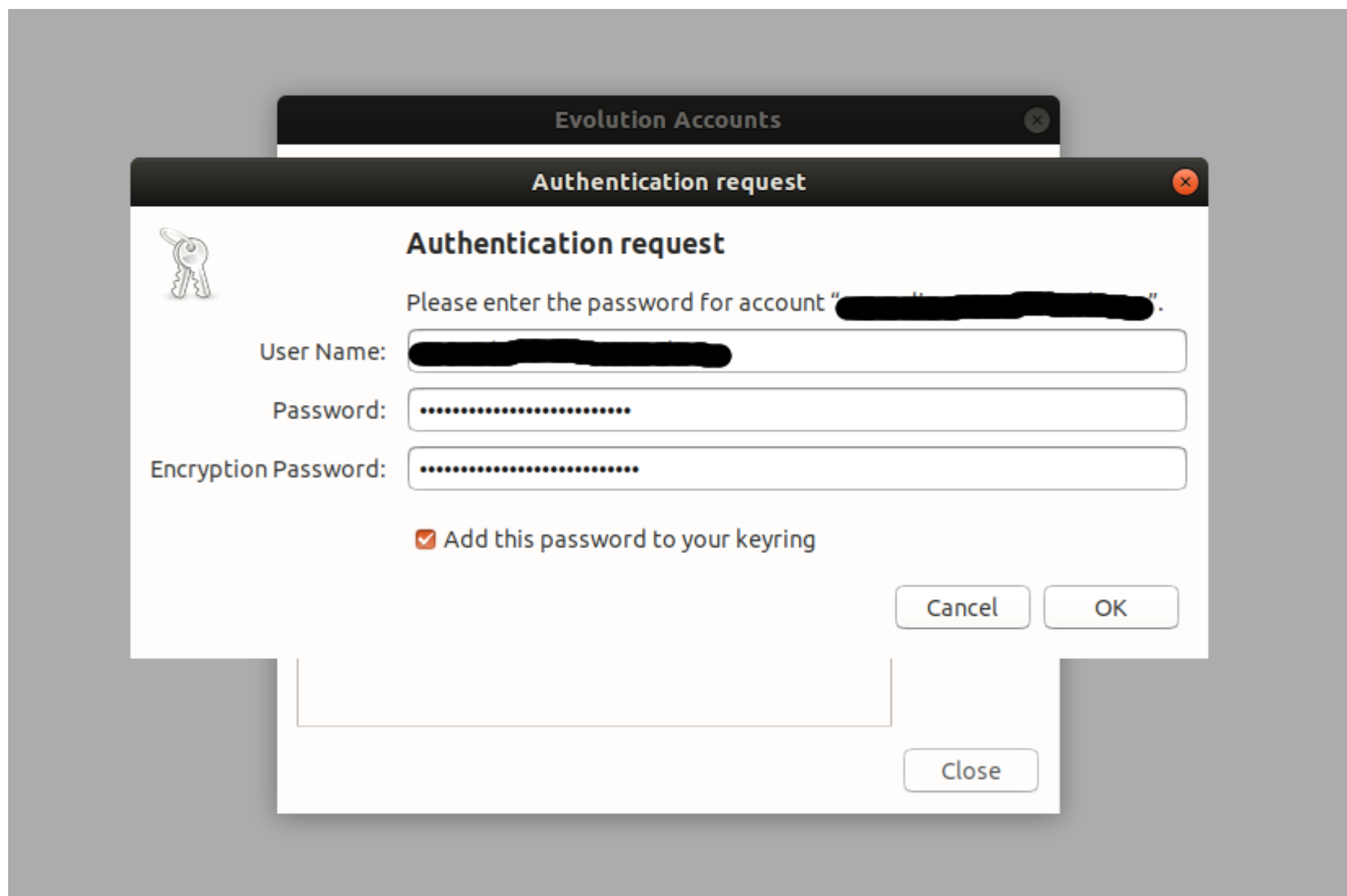


What Progress has been made



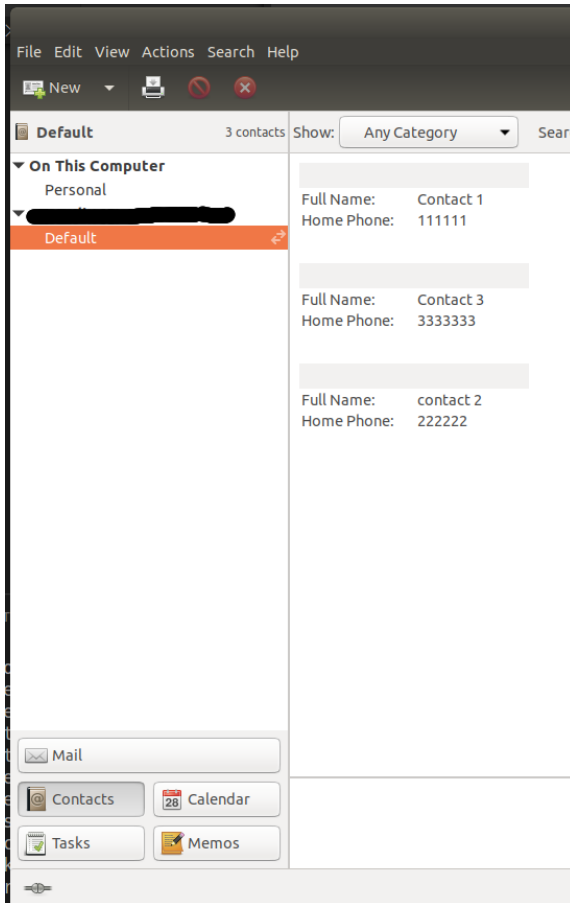
Evolution adding a collection account

What Progress has been made

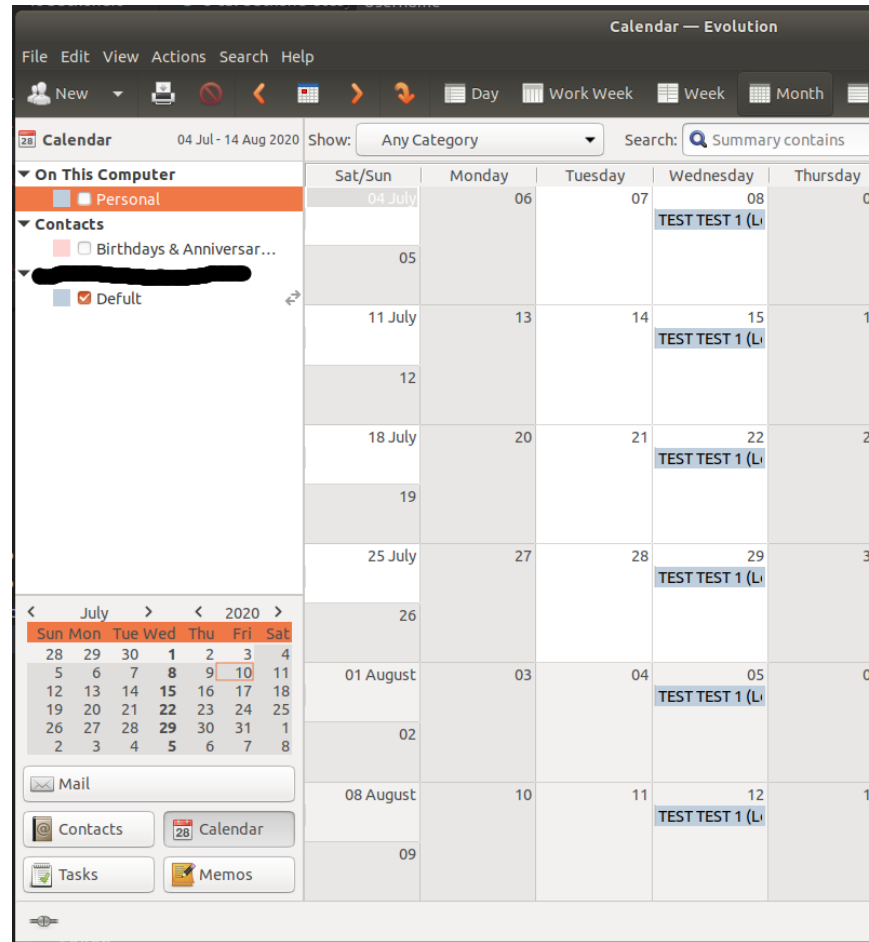


Authentication dialog in Evolution

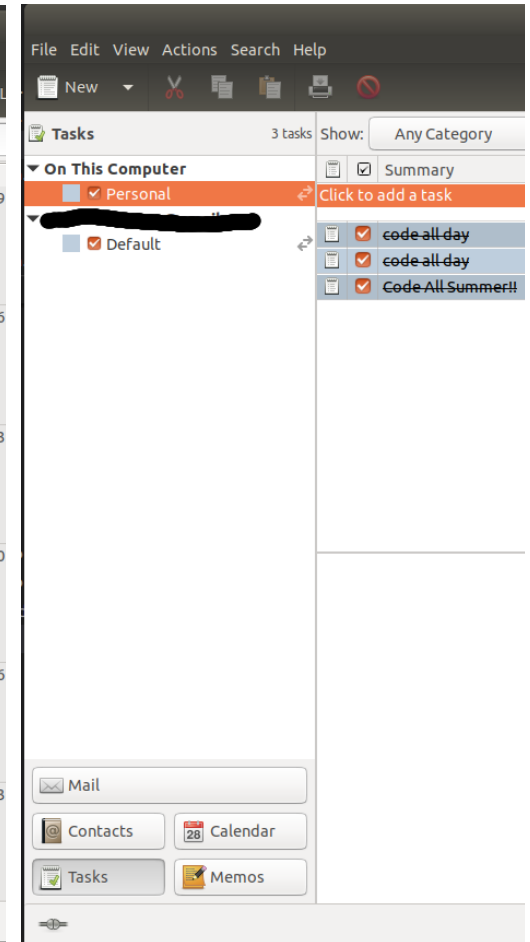
What Progress has been made



EteSync address-book data



EteSync calendar data



EteSync tasks data



Thank You!



Gitg: improving files user experience

S Sai Vineet
svineet on IRC

Mentor: Alberto Fanjul



About Me



S Sai Vineet, 2nd year Computer Science student at BITS Pilani, Goa campus, India.

Have been involved in FOSS since 2014, in a related organization Sugar Labs.

GNOME user since forever, and now a contributor :D



The Problem

The screenshot shows the gitg application window titled "gitg (~/.code/gnome)" with the subtitle "dazzle-tree". The interface is divided into three main sections:

- Left Panel (Navigation):** Contains a sidebar with "All commits" and "Branches". Under "Branches", "dazzle-tree" is expanded, showing "master" as the selected branch. Below this, "Remotes" is expanded, showing "origin" with a list of branches including "Issue202", "master", and several others.
- Center Panel (Commit History):** Displays a list of commits. The top commit is "Update Chinese (China) translation" by Boyuan Yang on Jun 30, 22:34. Below it, several other commits are listed, including "Update Romanian translation" by Florentina Muşat on Jun 17, 15:26, which is highlighted in blue.
- Right Panel (File Tree):** Shows a tree view of the repository. The ".editorconfig" file is selected and highlighted in blue. The tree view shows folders like "contrib", "data", "gitg", "libgitg", "libgitg-ext", "osx", "plugins", "po", "tests", "vapi", and "win32", along with files like ".gitlab-ci.yml", "AUTHORS", "COPYING", "ChangeLog", and "NEWS".

The commit history table is as follows:

Commit Message	Author	Date
Update Chinese (China) translation	Boyuan Yang	Jun 30, 22:34
Updated Spanish translation	Daniel Mustieles	Jun 29, 15:55
Updated Lithuanian translation	Aurimas Černius	Jun 27, 17:11
Update Ukrainian translation	Yuri Chornoivan	Jun 27, 12:55
Update Romanian translation	Florentina Muşat	Jun 27, 10:25
Option to switch to the newly created branch	Armandas Jarušauskas	Jun 27, 08:29
Update Chinese (China) translation	Boyuan Yang	Jun 24, 00:01
Update Romanian translation	Florentina Muşat	Jun 17, 15:26
Updated Spanish translation	Daniel Mustieles	Jun 16, 09:44
Update Ukrainian translation	Yuri Chornoivan	Jun 12, 12:15
Updated Spanish translation	Daniel Mustieles	Jun 12, 12:32

The Solution

- **libdazzle** has a lazy loaded tree widget called DzITree
- Retain selected file when selected commit is switched
- Keep directories that were open before, open in the new tree as well
- Refresh the open nodes
- **dazzle-tree** branch has these features implemented and ready to go
- Currently writing tests and testing!



Thank You!



libhandy – grid widget

Mentor

Adrien Plazas

Intern

Ujjwal Kumar

About libhandy

Building blocks for modern adaptive
GNOME apps

Source at: gitlab.gnome.org/GNOME/libhandy

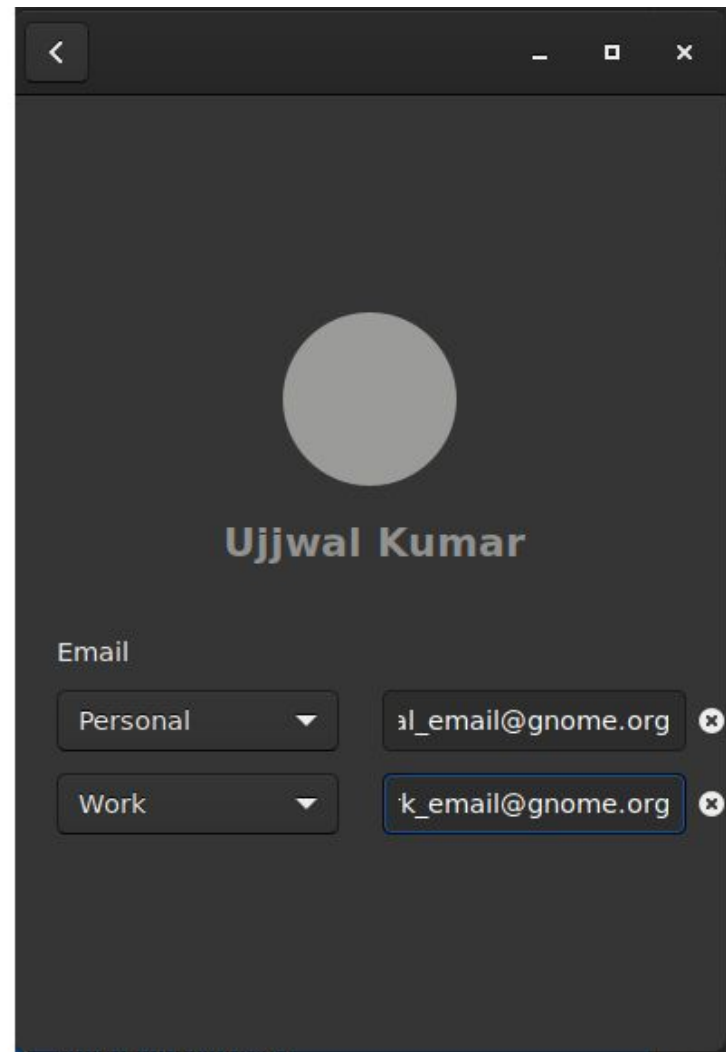
About this year's GSoC project

What is the project?

Issue No.: #128

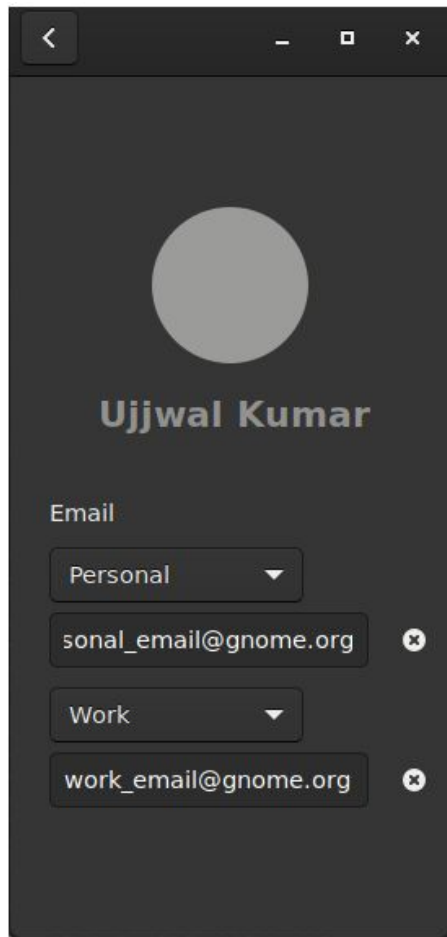
What are we trying to achieve?

GtkGrid (Non-Adaptive)

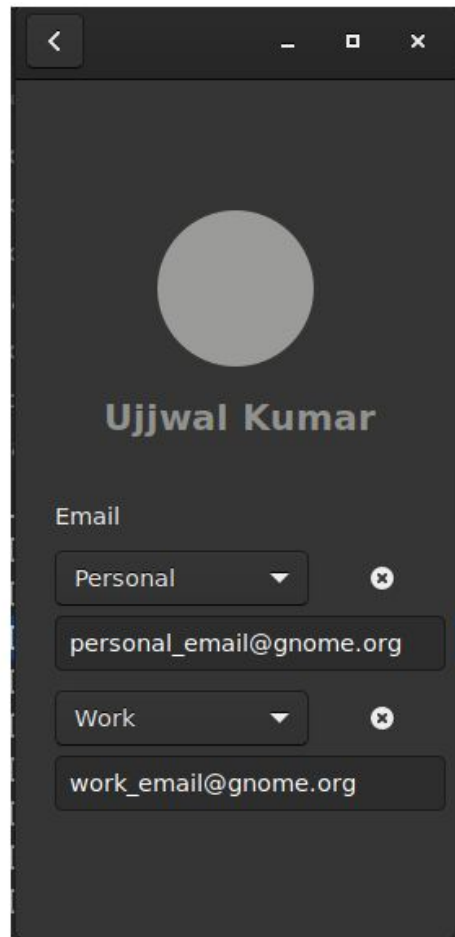


What are we trying to achieve?

HdyGrid (Adaptive)



Mobile app UI mockup showing a contact profile for Ujjwal Kumar. The profile includes a circular placeholder for a profile picture and the name "Ujjwal Kumar". Below the name, the "Email" section displays two email addresses: "sonal_email@gnome.org" and "work_email@gnome.org". Each email address is preceded by a dropdown menu with options "Personal" and "Work". The email addresses are displayed in a list format, with each entry having a small "x" icon to its right for removal.



Mobile app UI mockup showing a contact profile for Ujjwal Kumar. The profile includes a circular placeholder for a profile picture and the name "Ujjwal Kumar". Below the name, the "Email" section displays two email addresses: "personal_email@gnome.org" and "work_email@gnome.org". Each email address is preceded by a dropdown menu with options "Personal" and "Work". The email addresses are displayed in a list format, with each entry having a small "x" icon to its right for removal.

What is our progress?

Handle rows individually

Merge Request: !530

Felipe Borges





Felipe Borges - GNOME Developer / Red Hat Developer

feborges at irc.gnome.org

✉ felipeborges@gnome.org / feborges@redhat.com

When it all started...

- First computer
- The English language
- No internet
- I can actually change this thingy





GNOME

- Translation team
- Local Linux user group (Tchêlinux)
- Computer Science





Google Summer of Code

- GNOME Documents
- GUADEC





After the internship

- Endless OS
- Graduation
- Red Hat
- Board of Directors



Thank you!



About Me

Gaurav Agrawal

GNOME Foundation Member

GSoC 2019 Alumni from Project

Always feel to free to reach out at
agrawalgaurav@gnome.org :D

Involved with:

- 1. Newcomers Initiative**
- 2. University Outreach**
- 3. Engagement Team**
- 4. Inclusion and Diversity Team**
- 5. Sometimes hack around for newcomer's apps**



My journey from...



Credits: Kohei Horikoshi/MHA Team



Open Source Helped Me

Learn

Network

Get A Job!

Get lots of friends o/

Realize how I can help others :D



Thank You!



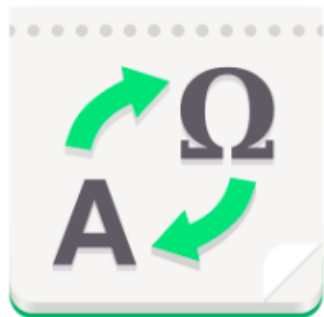
A Hello To The GNOME Community!

Priyanka Saggu
(Outreachy'19 Intern)

\$whoami

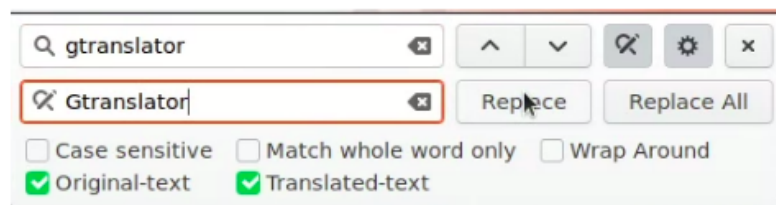
- I am Priyanka Saggu :)
- I'm an Outreachy'19 alumna @GNOME Foundation (December'19 - March'20).
- During the internship, I worked on the GNOME application, [GNOME Translation Editor](#).
- Currently, I'm working as a DevOps Engineer @Atlanhq.
- And yes, I am still in the very process of learning & exploring my ways.

Project: GNOME Translation Editor



*“ Formerly known as **Gtranslator**, GNOME Translation Editor is an enhanced gettext po file editor for the GNOME desktop environment. It handles all forms of gettext po files and includes a bundle of useful features like **Find/Replace**, **Translation Memory**, **Different Translator's Profiles**, **Messages Table** (for having an overview of the translations/messages in the po file), & **Easy Navigation and Editing** of translation messages.*

- [Gnome Wiki](#)



- I've worked on revamping few of the existing widgets of the application, in accordance with GNOME **Human Interface Guidelines (HIG)**.
- As my Outreachy project, I worked on entirely **redesigning the old search and replace bar dialog to a new sliding overlay style custom widget**, using libdazzle library.

My Mentors from the community!



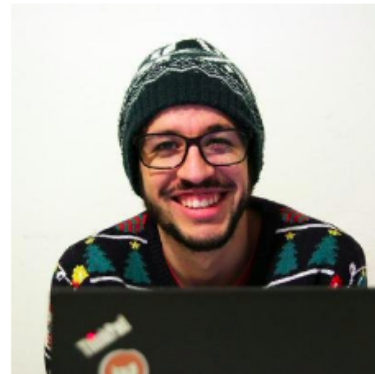
Daniel Garcia Moreno
(@danigm)



Daniel Mustieles García
(@dmustieles)



Nuritzi Sanchez



Felipe Borges

You can connect with me:

- **Twitter** : @PriyankaSaggu4
- **LinkedIn** : linkedin.com/in/priyanka-saggu
- **Email** : priyanka@atlan.com
- **IRC** : priyankasaggu119
- **Blog** : priyankasaggu11929.github.io

And, you could also find a write up around my Outreachy journey, here:

<https://priyankasaggu11929.github.io/outreachy.html>

My Outrachy internship at Fractal

Sonja Heinze
(pitag)

Mentors: Daniel García Moreno, Jordan Petridis

Share screen...

The internship

What I did:

- the implementation of an inline video player
- some general media improvements
- started a proof of concept for 1-1 voice / video calls through WebRTC

The internship

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- *Daniel García Moreno*
- *Jordan Petridis*

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- *all Fractal folks*

What I'm doing now

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Thanks to the internship,

- I've found a cool job in FOSS (not GNOME technologies related though)

What I'm doing now

Thanks to the internship,

- I've found a cool job in FOSS (not GNOME technologies related though)
- I got and keep on involved in Fractal, at least to a certain extent: sporadically, I
 - ▶ fix bugs that come up now which are related to the things I did
 - ▶ fix/improve minor issues I run into
 - ▶ keep on working on the POC for 1-1 voice / video calls

What to take away

- The Outreachy internship was really great for me
- I encourage you all to mentor an intern some day
- Keeping on doing minor contributions is better than nothing

Thank
you

GSoC Archives

Arun Raghavan



1998-2007

- First Linux installation to F/OSS enthusiast
- Talking at LUG
- Helped organise FOSS.in, other conferences



2007-2009

- GNOME Summer of Code: Beagle
- First “large” code contribution
- Implemented the Xesam spec
- Started helping maintain libbeagle
- ♥ Joe Shaw and Debajoyti Bera



2008-2012

- Started contributing to the Gentoo project
- Became a developer on the GNOME herd
- ♥ leio, EvaSDK, remi



2009-2014

- Started working in F/OSS professionally
 - FOSS.in and participation in Gentoo helped
- Worked on PulseAudio and GStreamer
- And made upstream contributions to these projects
- Started helping maintain PulseAudio



2014-now

- Running my own small open source consultancy
- Still work on PulseAudio, GStreamer, and others
- Still care deeply about a free computing environment for all



Thanks...

- ... to all of you for being part of this



Thank You!

