

Tobias Bernard

Designing GNOME Mobile Apps



**What is
GNOME Mobile?**

Apps

GNOME apps (+ Libhandy)

Shell

phosh/phoc

Platform

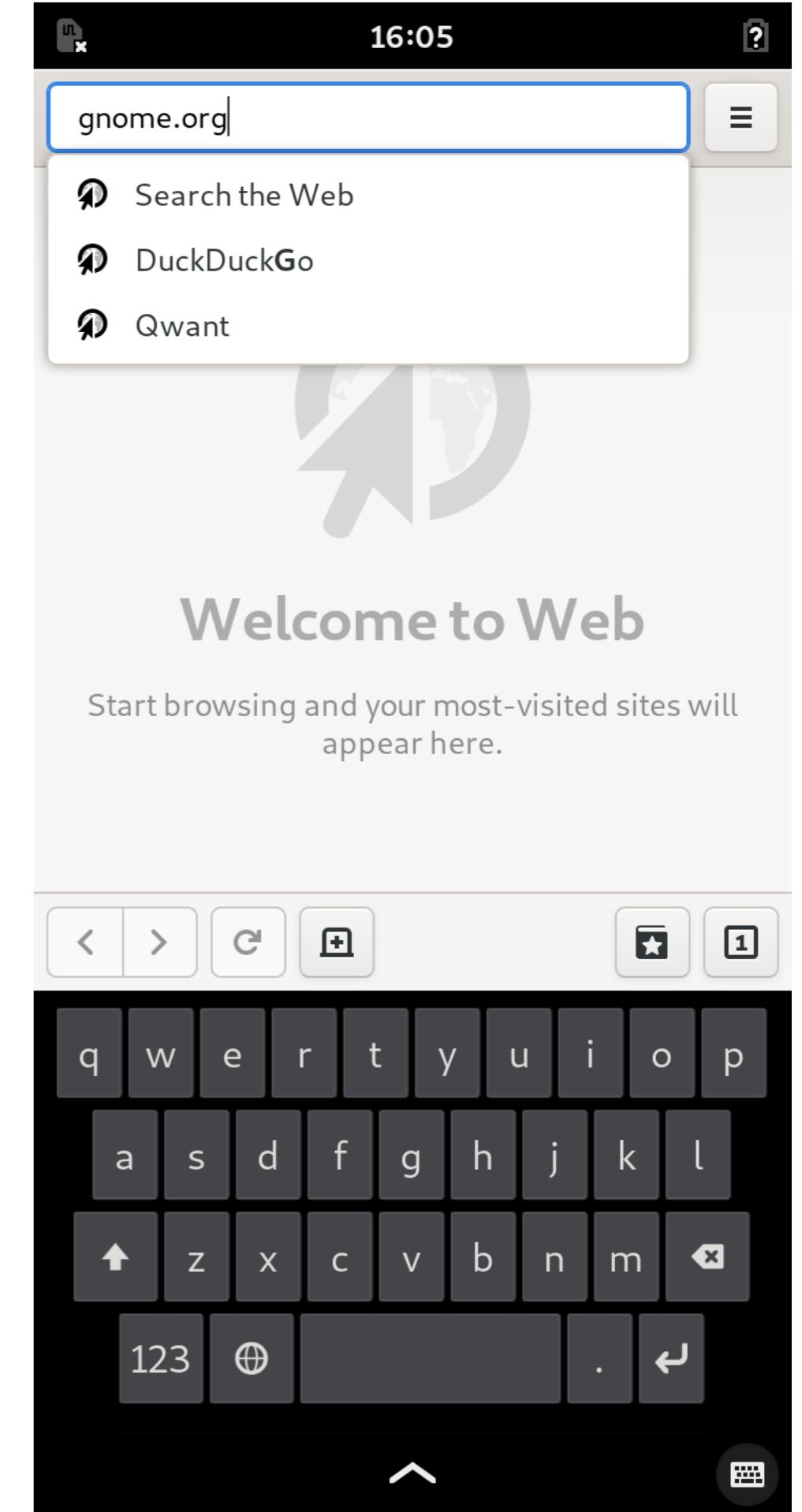
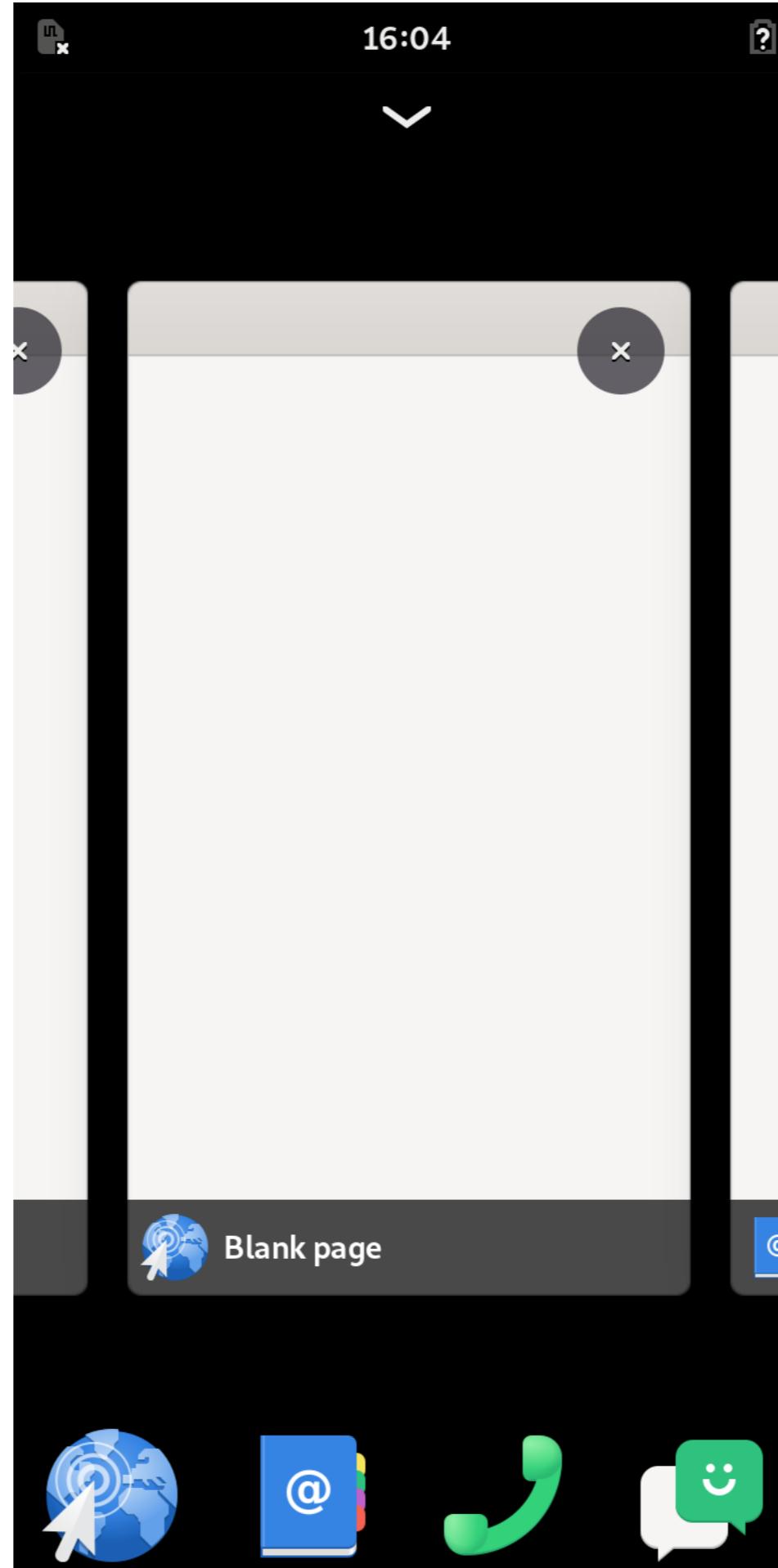
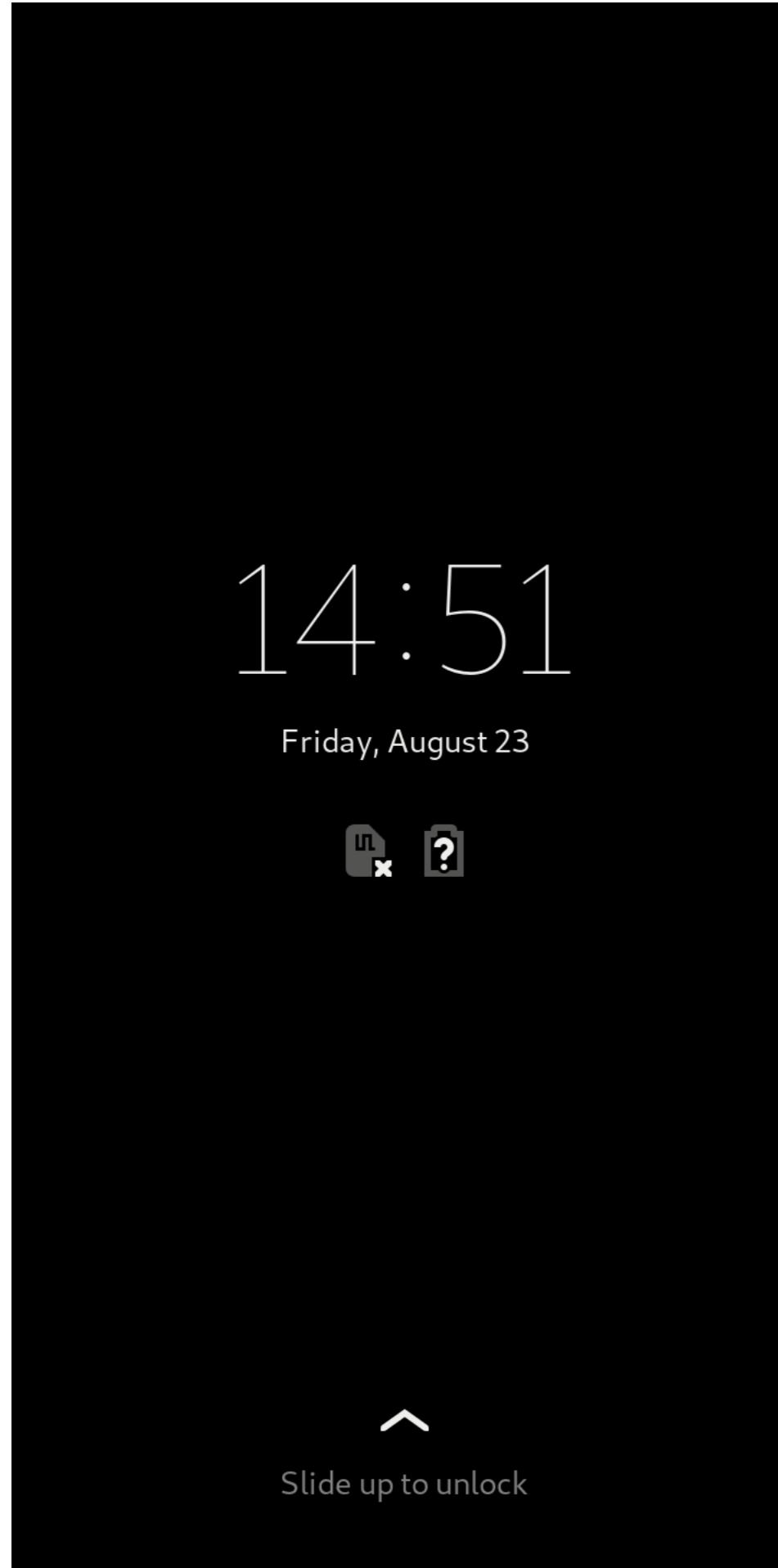
GLib, GTK*, etc.

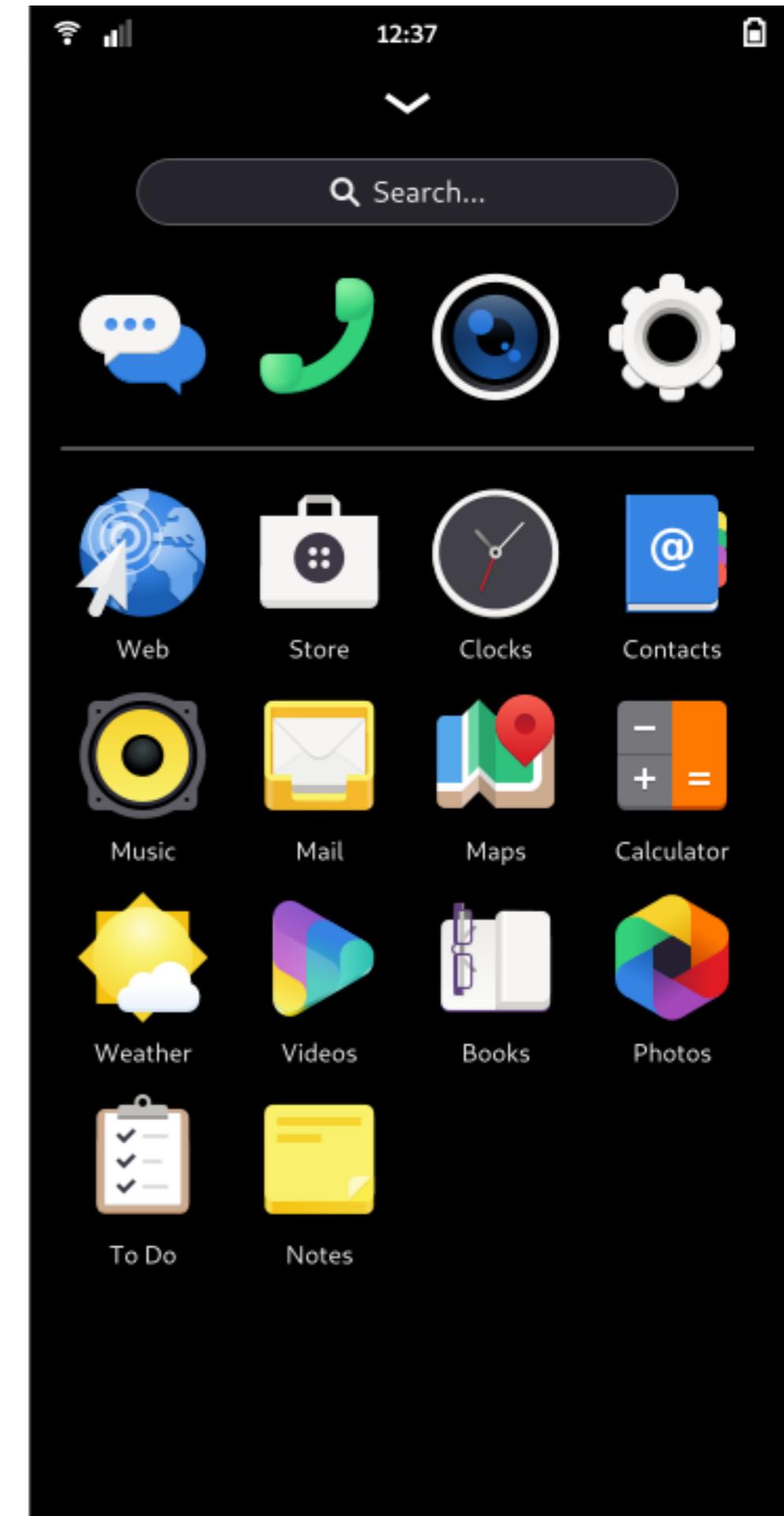
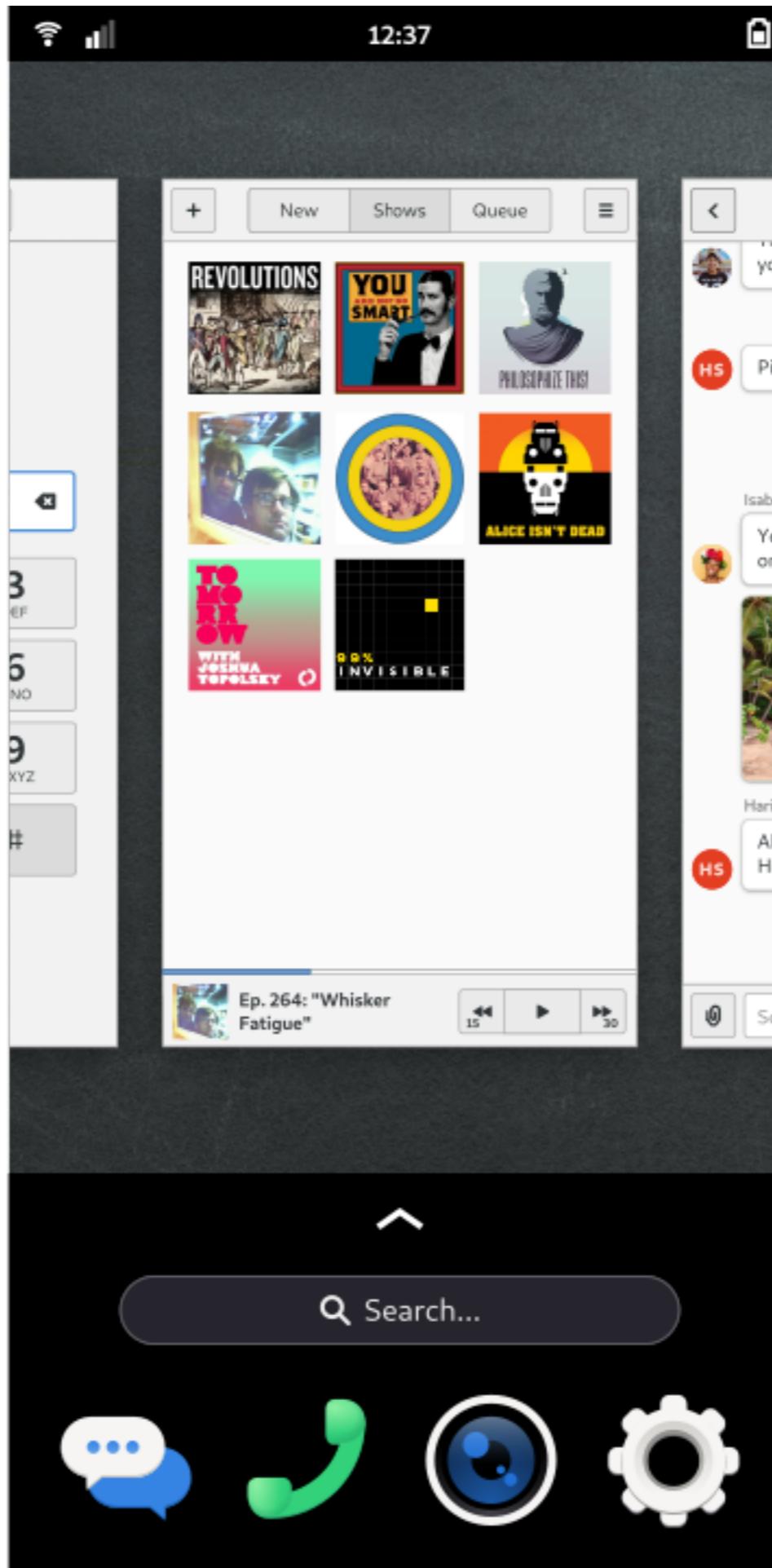
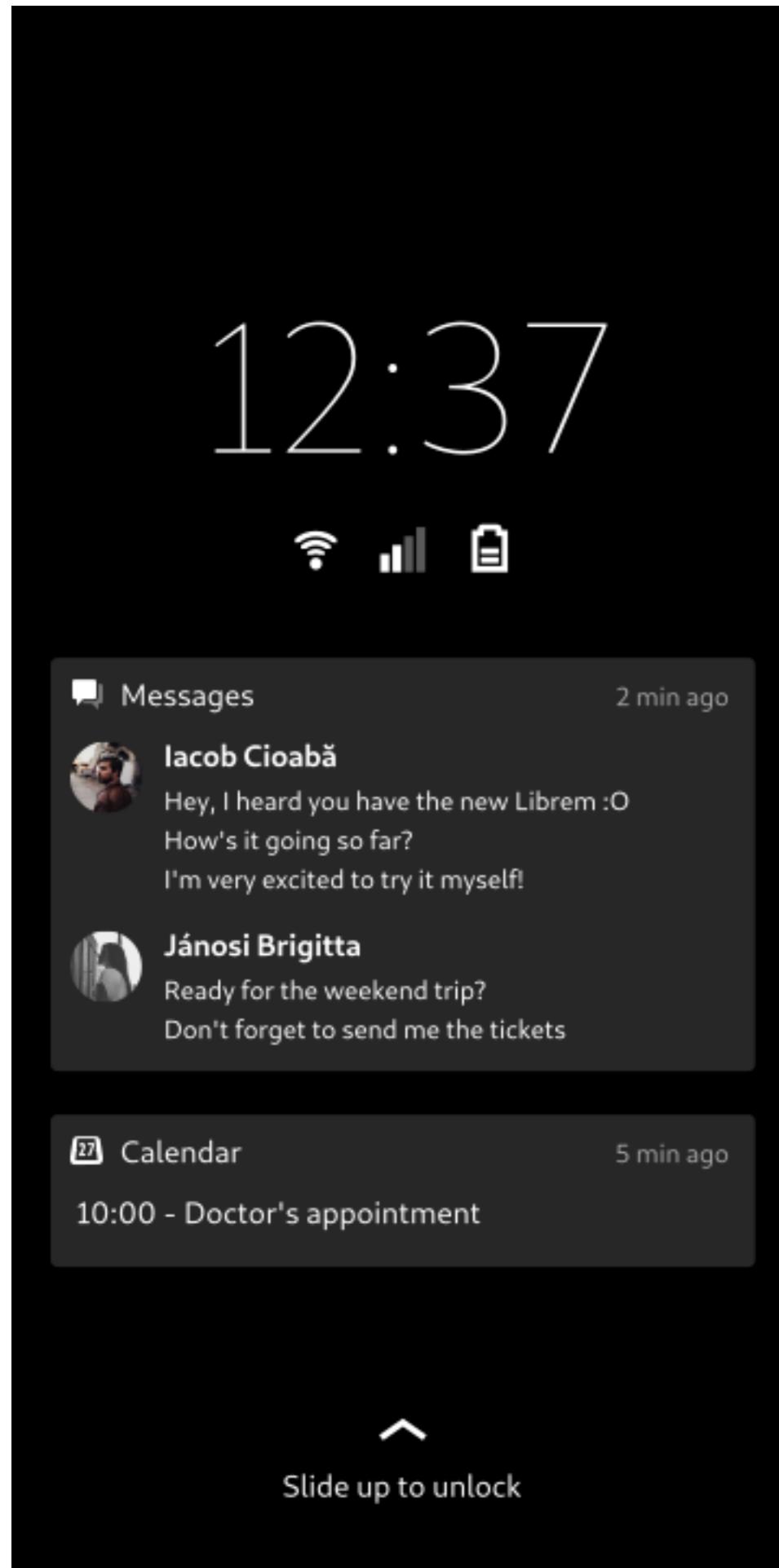
Base OS

\$DISTRO

*with some temporary patches

Shell



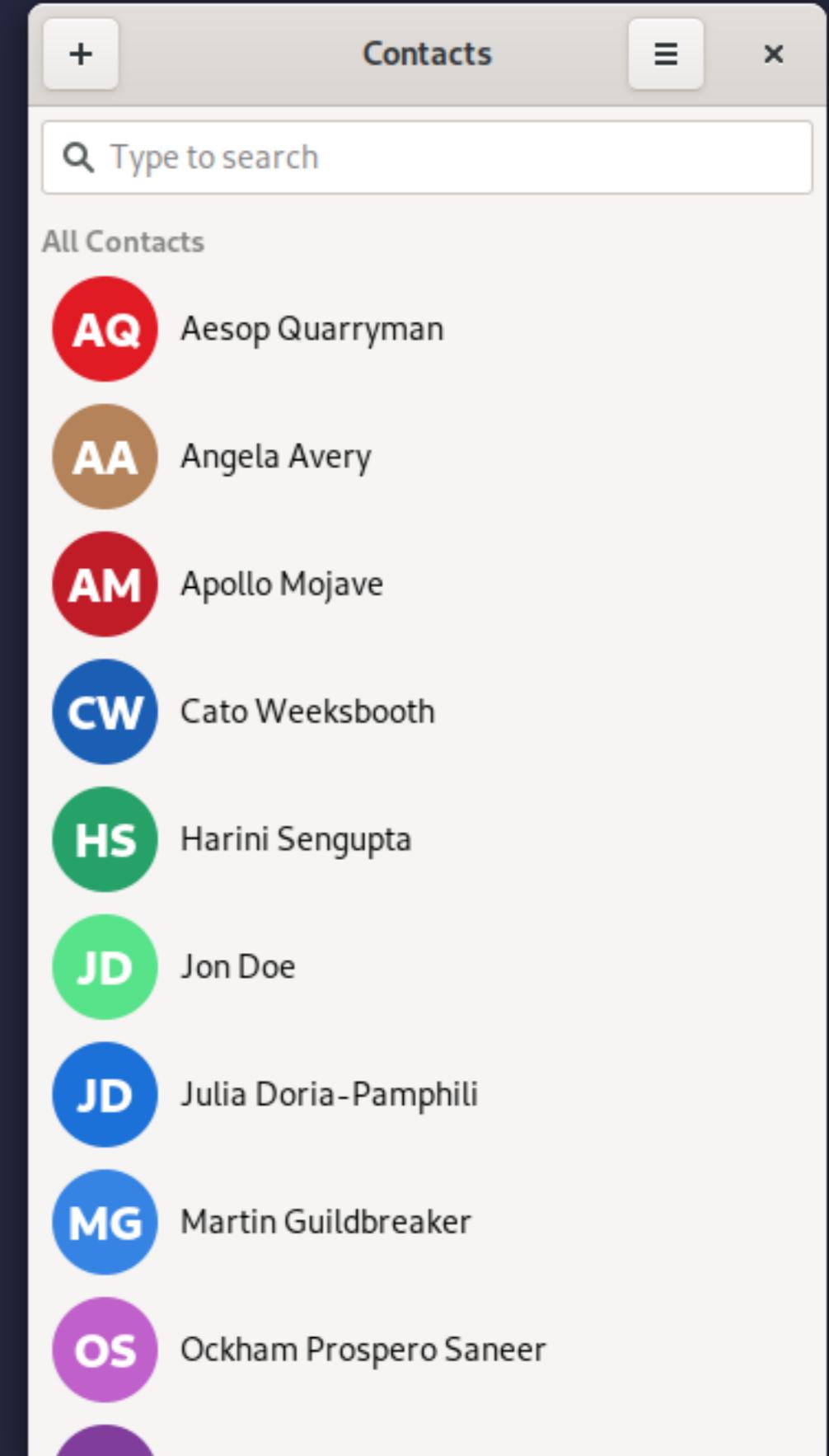
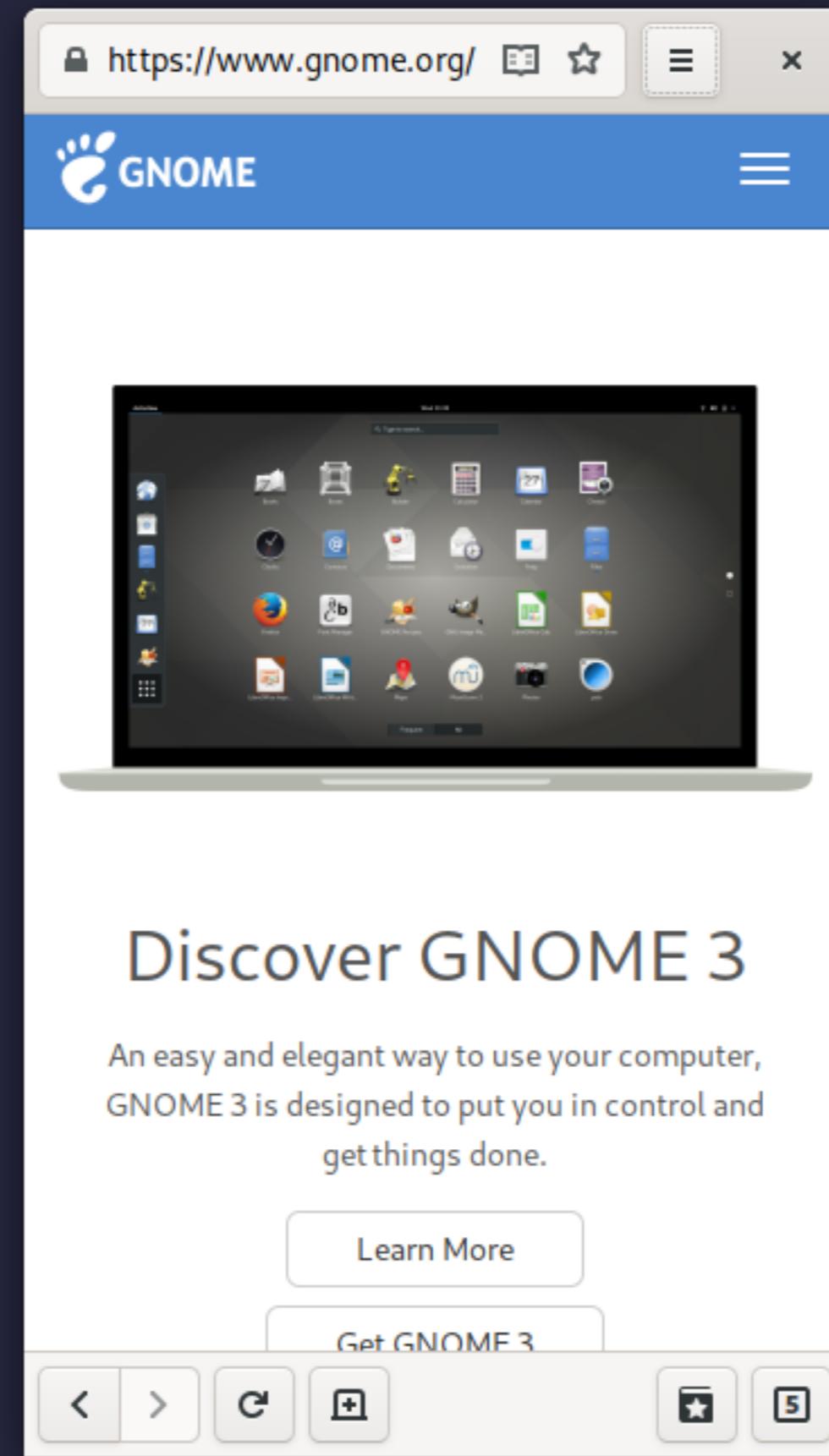
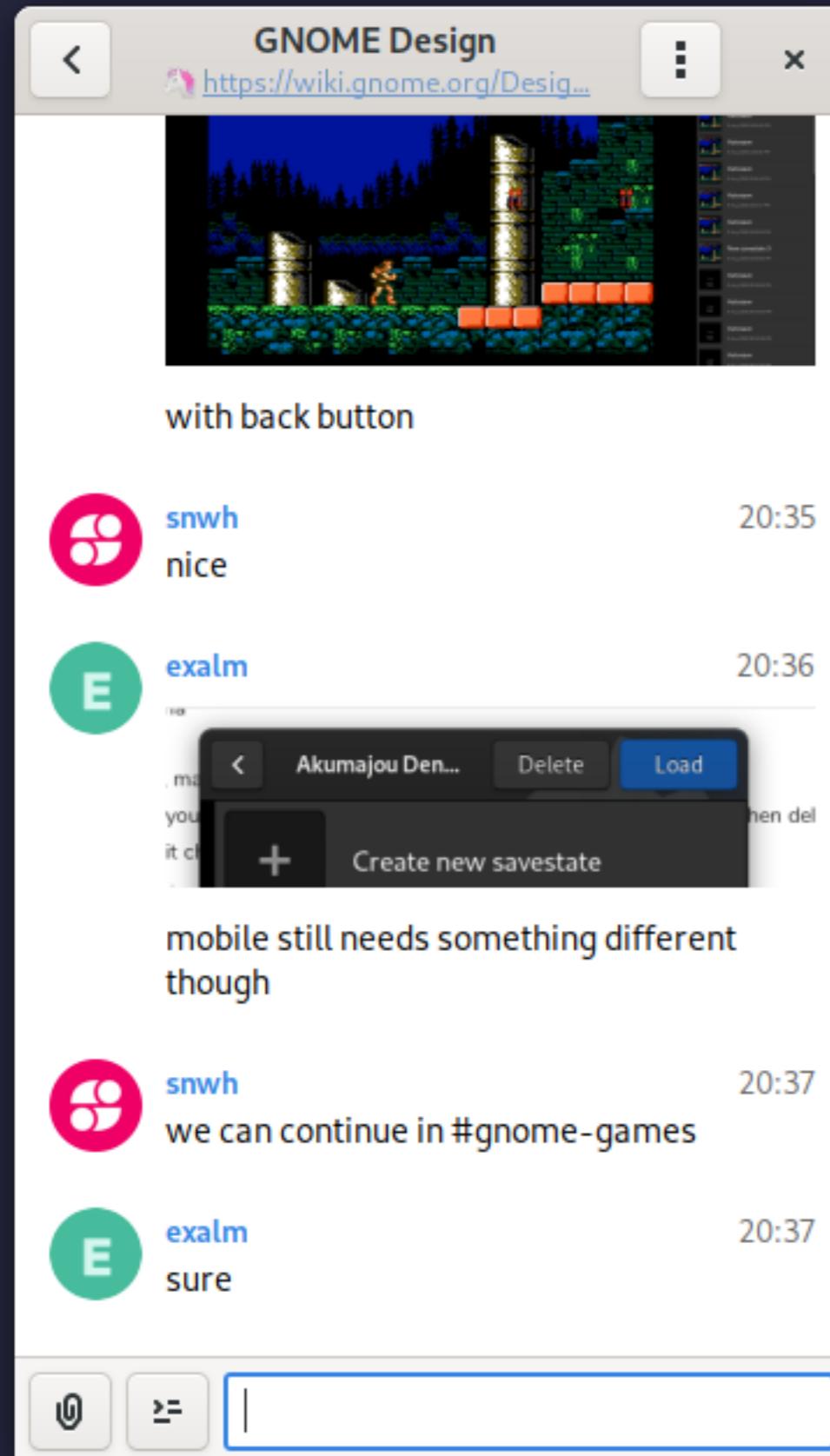


same familiar structure

clean spatial model

no floating windows

Apps



normal GNOME apps

adaptive interfaces

Libhandy widgets

**What is
Adaptive Design?**

same features everywhere

UI adapts to size & input

no separate “modes”

Designing Mobile Apps

Designing Adaptive Apps

Navigation

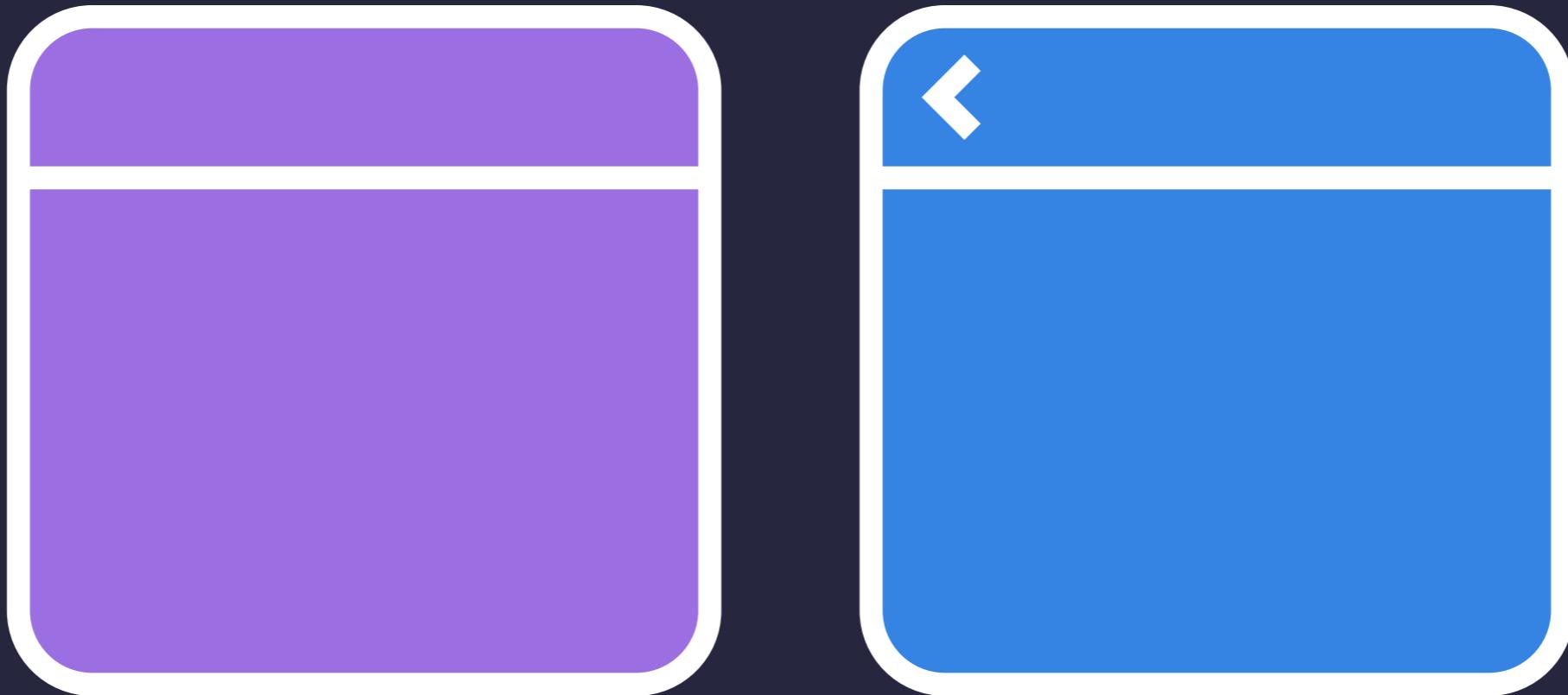
Content

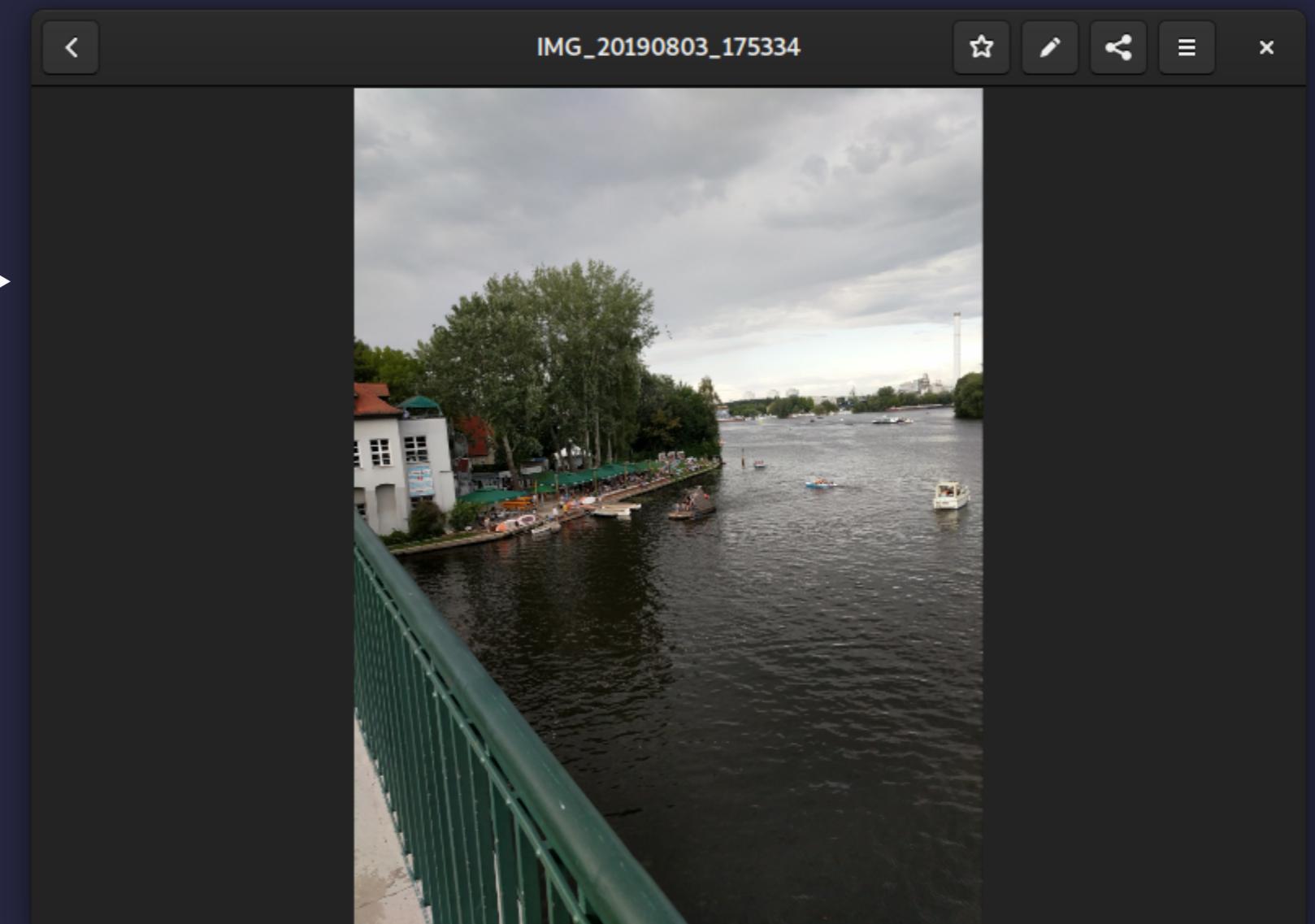
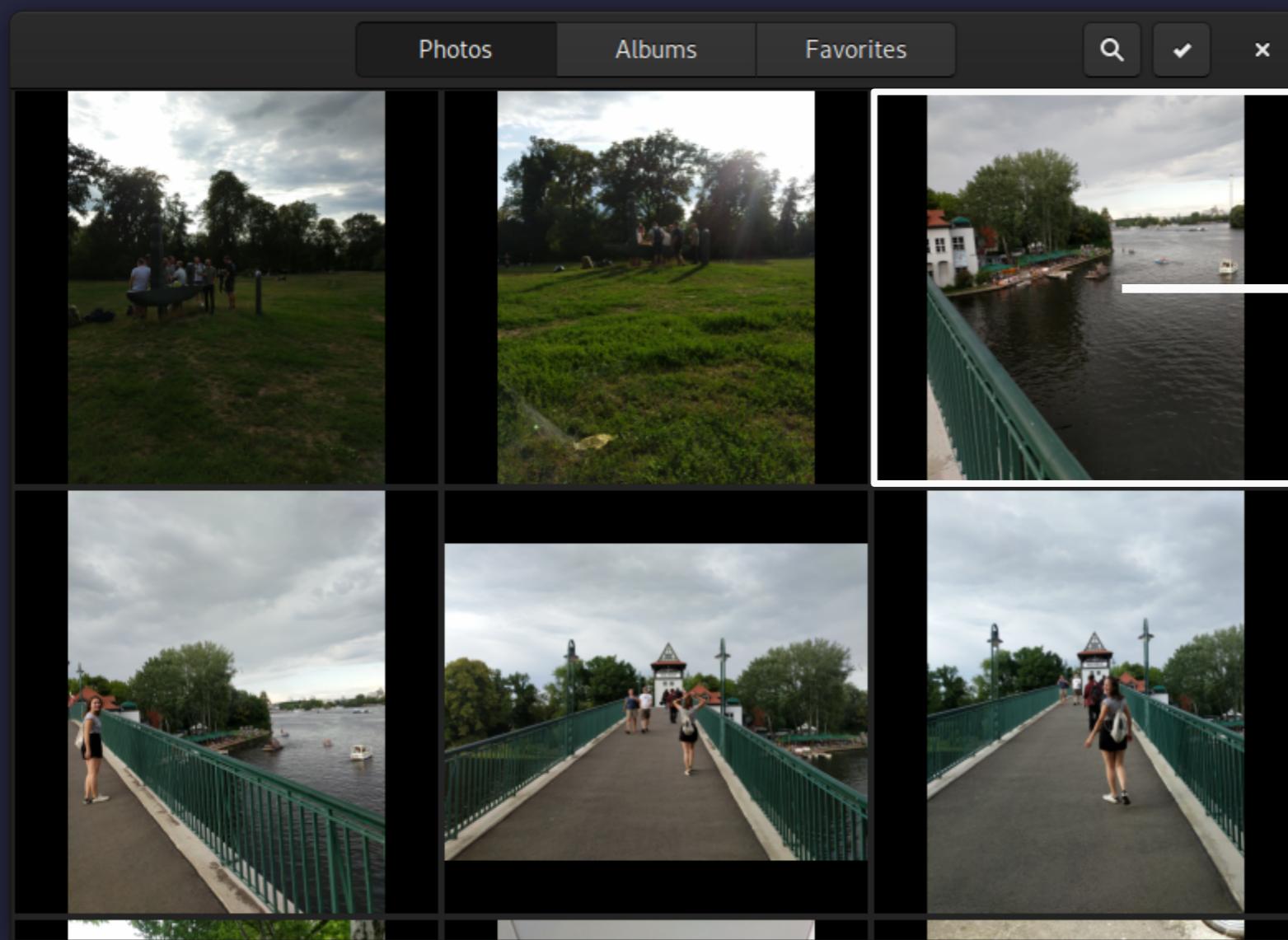
“make the buttons fit”

Navigation

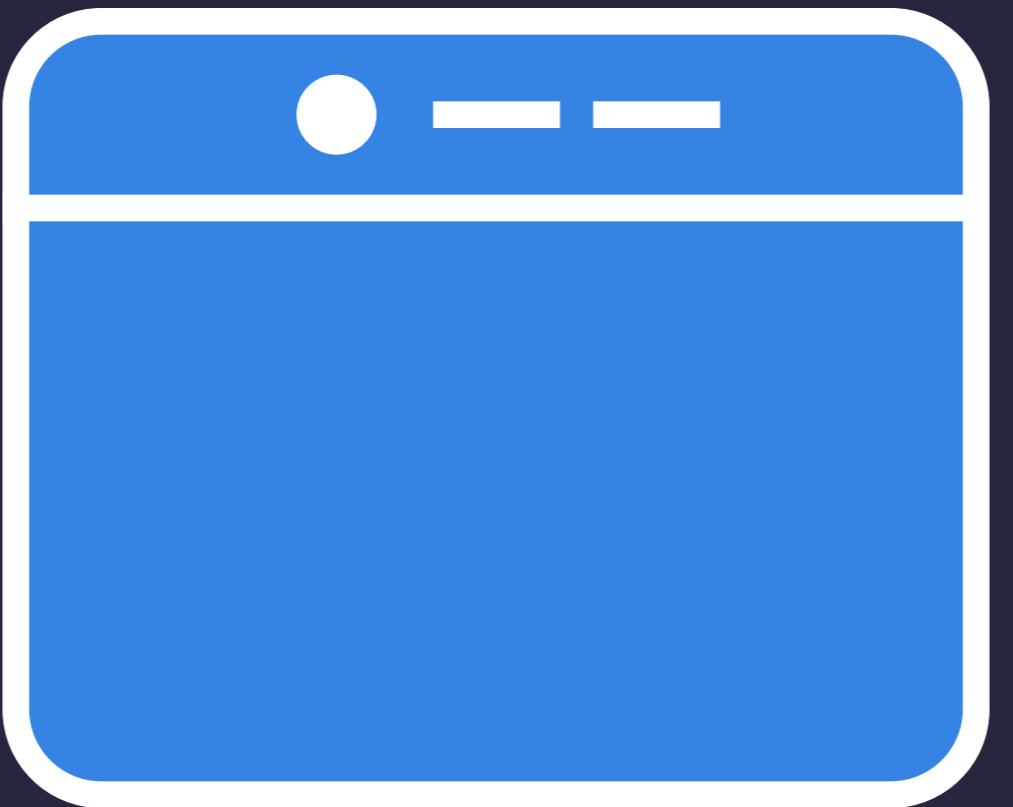


Stack





Switcher



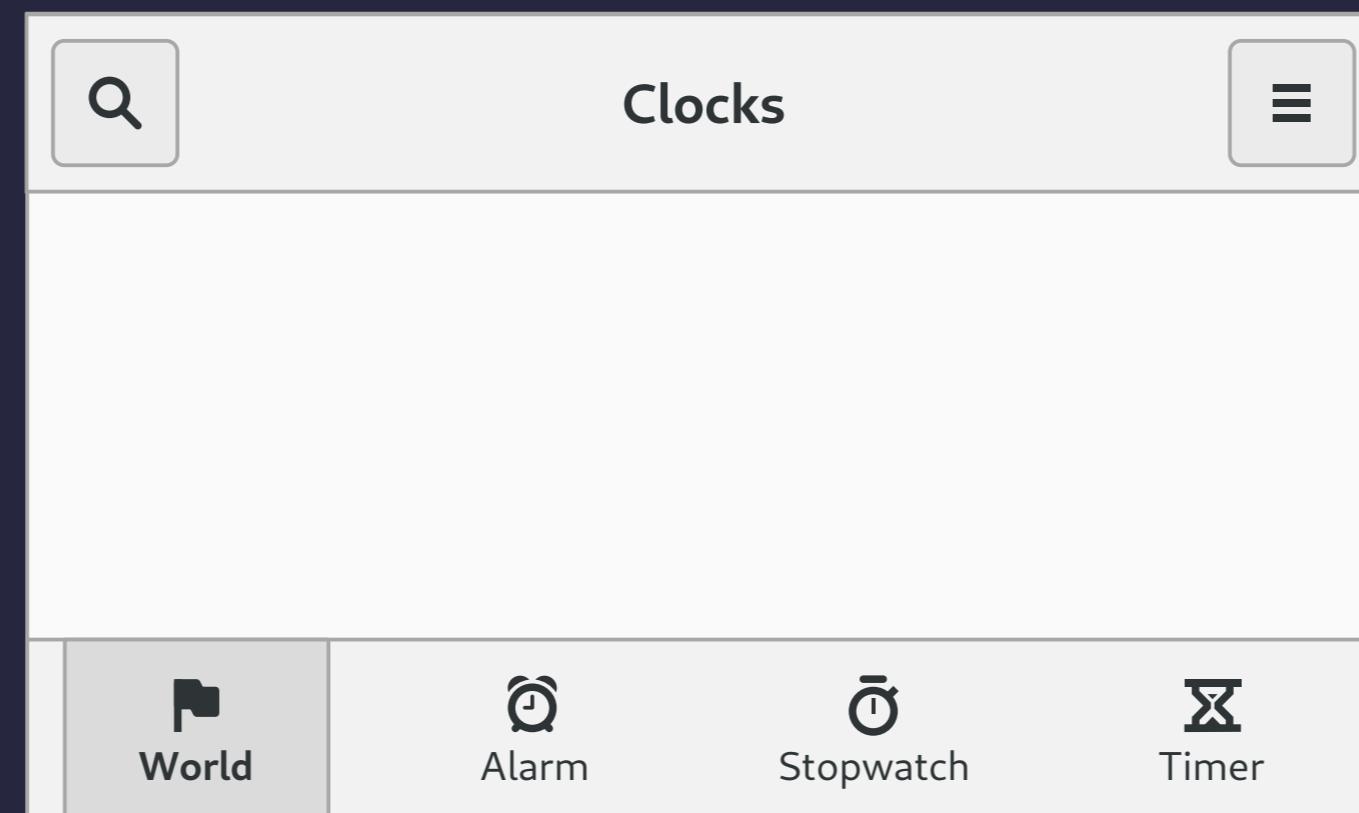
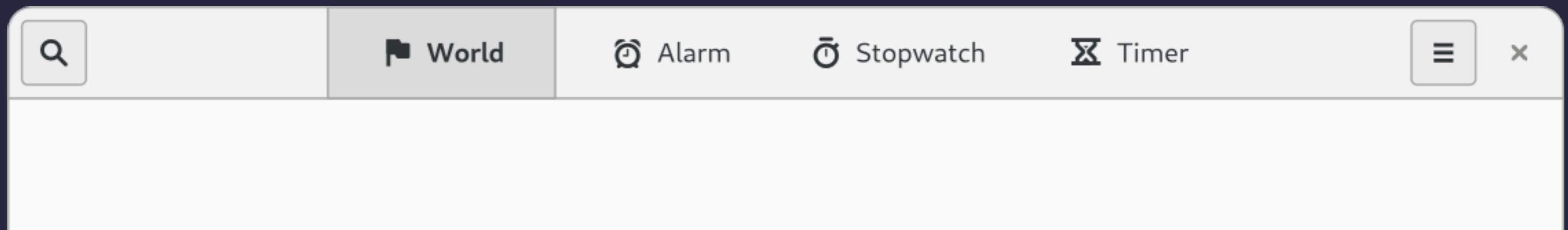
Thu 18:50

Альбомы

Исполнители

Композиции

Списки воспроизведения



Switcher Demo

Clocks

Widget: HdViewSwitcher

Sidebar



Leaflet Demo

Contacts

Widget: HdyLeaflet

Lists



List Demo Chats

Widgets: HdyComboRow, HdyColumn

Preferences



Preferences

x

Views

Behavior

List Columns

Search & Preview

Open Action

- Single click to open items
- Double click to open items

Link Creation

- Show action to create symbolic links

Executable Text Files

- Display them
- Run them
- Ask what to do

Trash

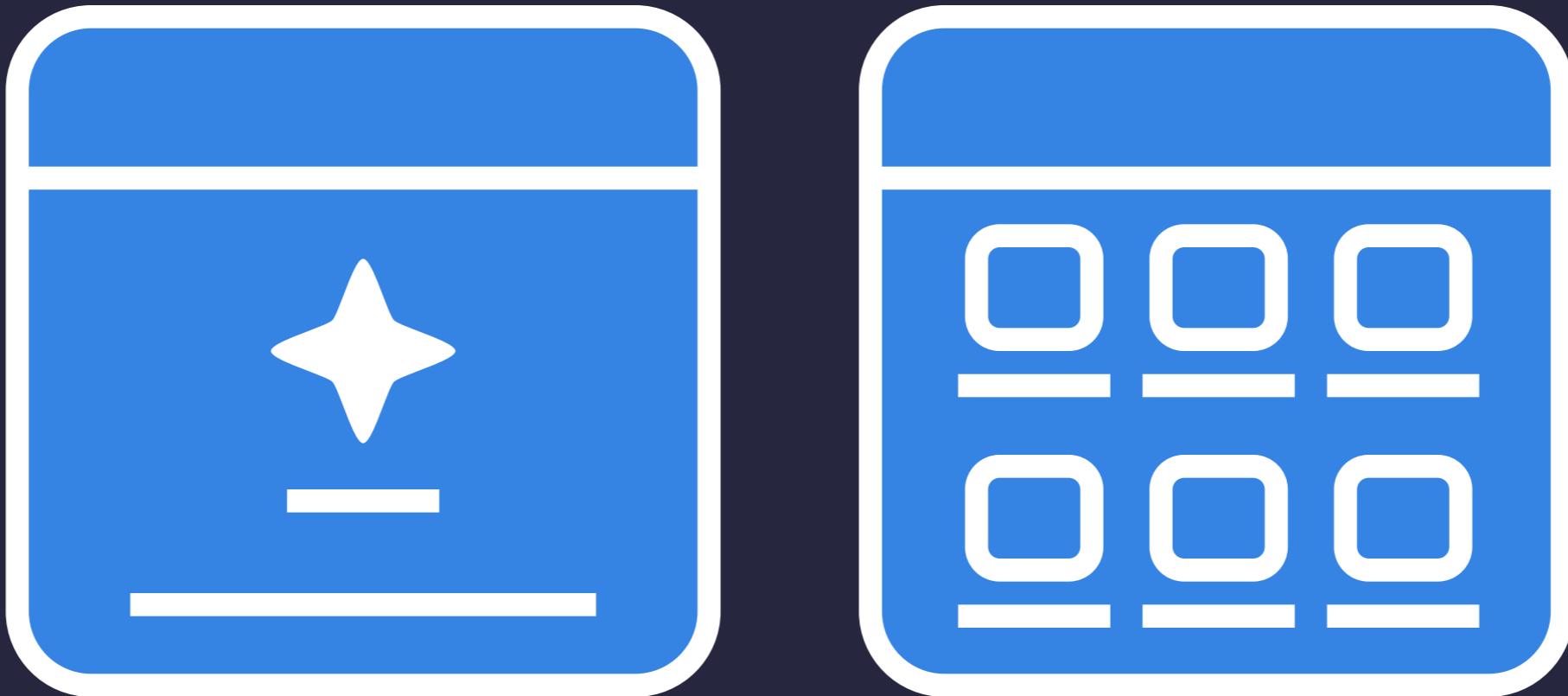
- Ask before emptying the Trash
- Show action to permanently delete files and folders

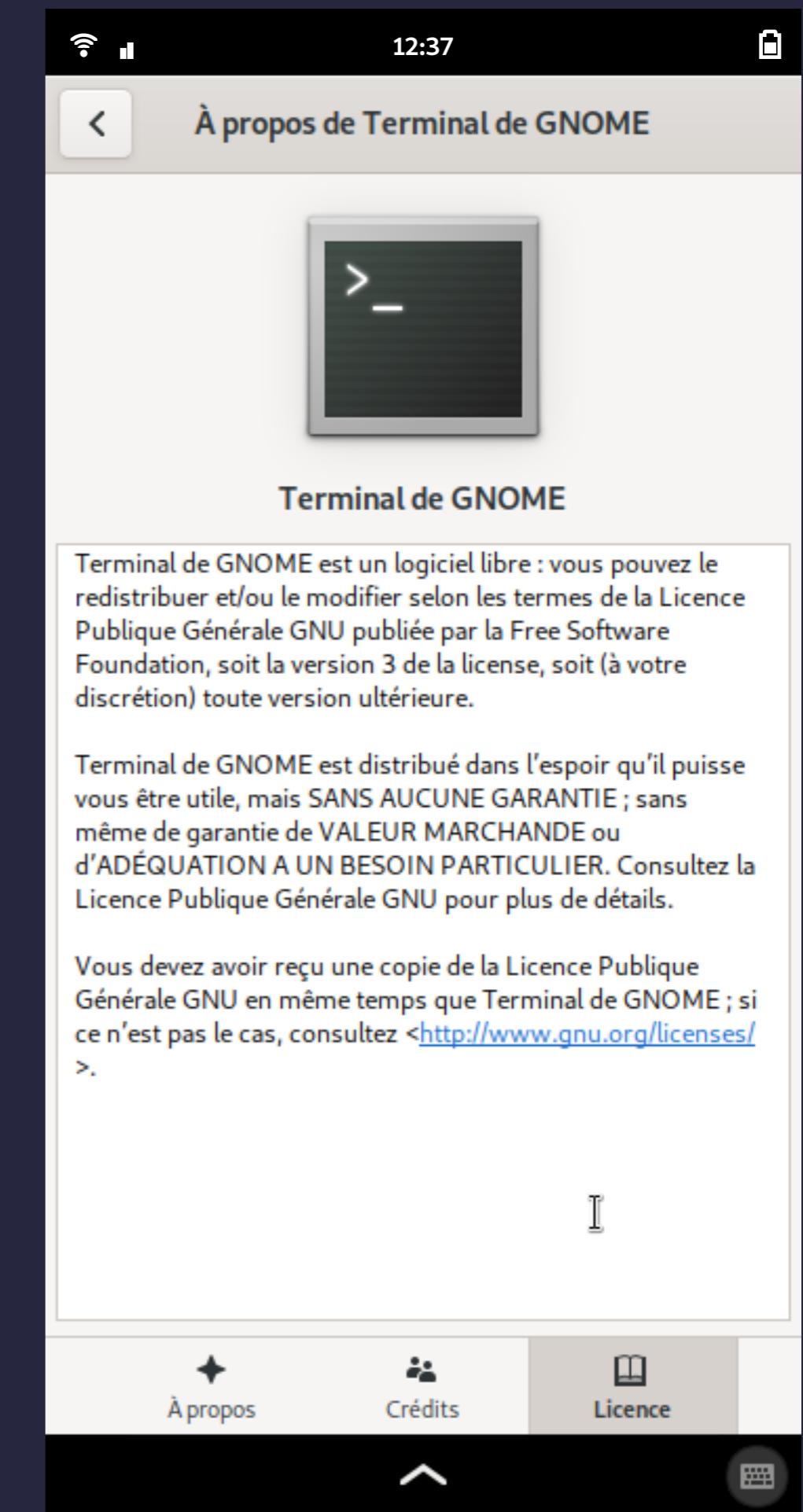
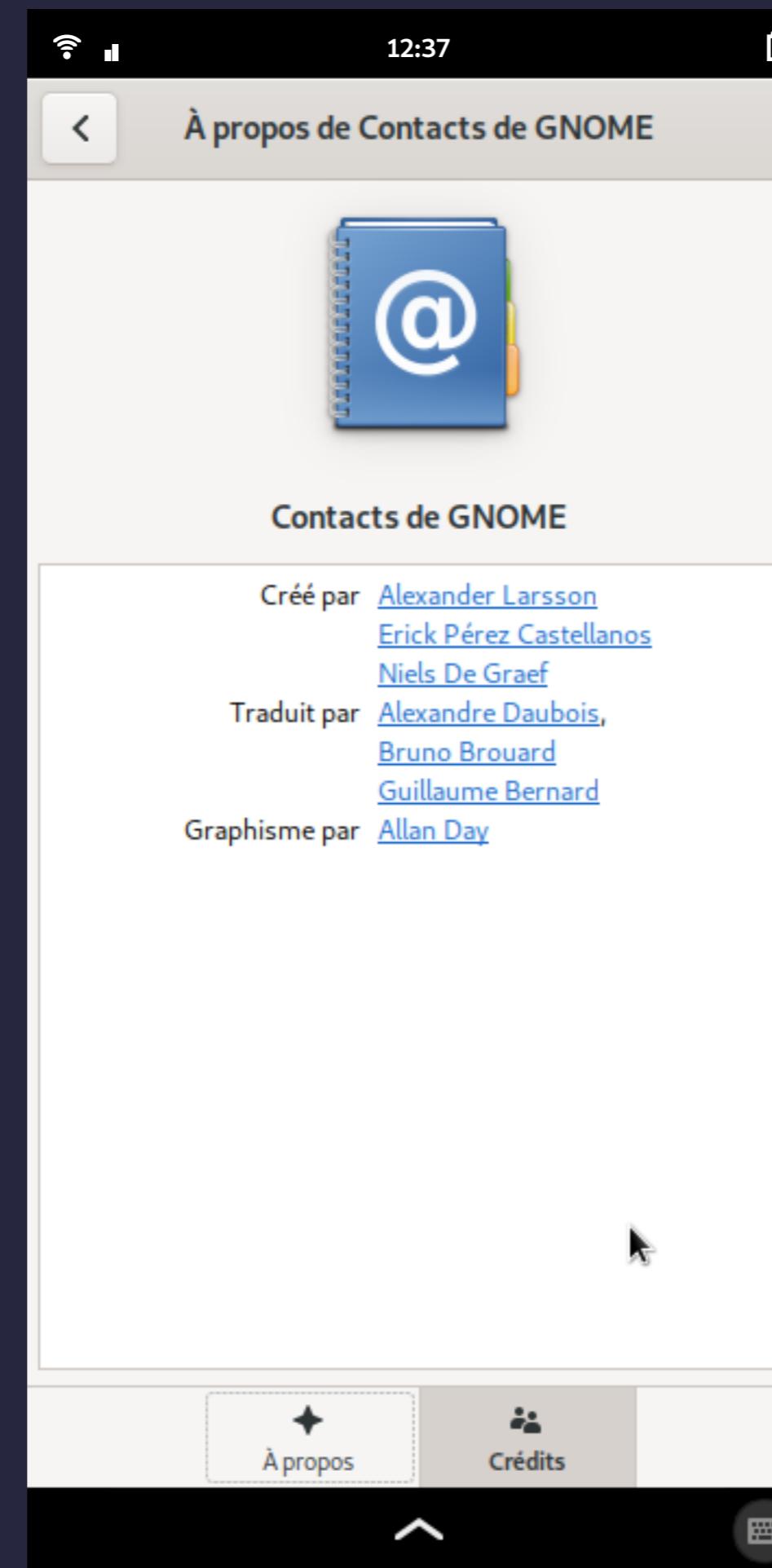
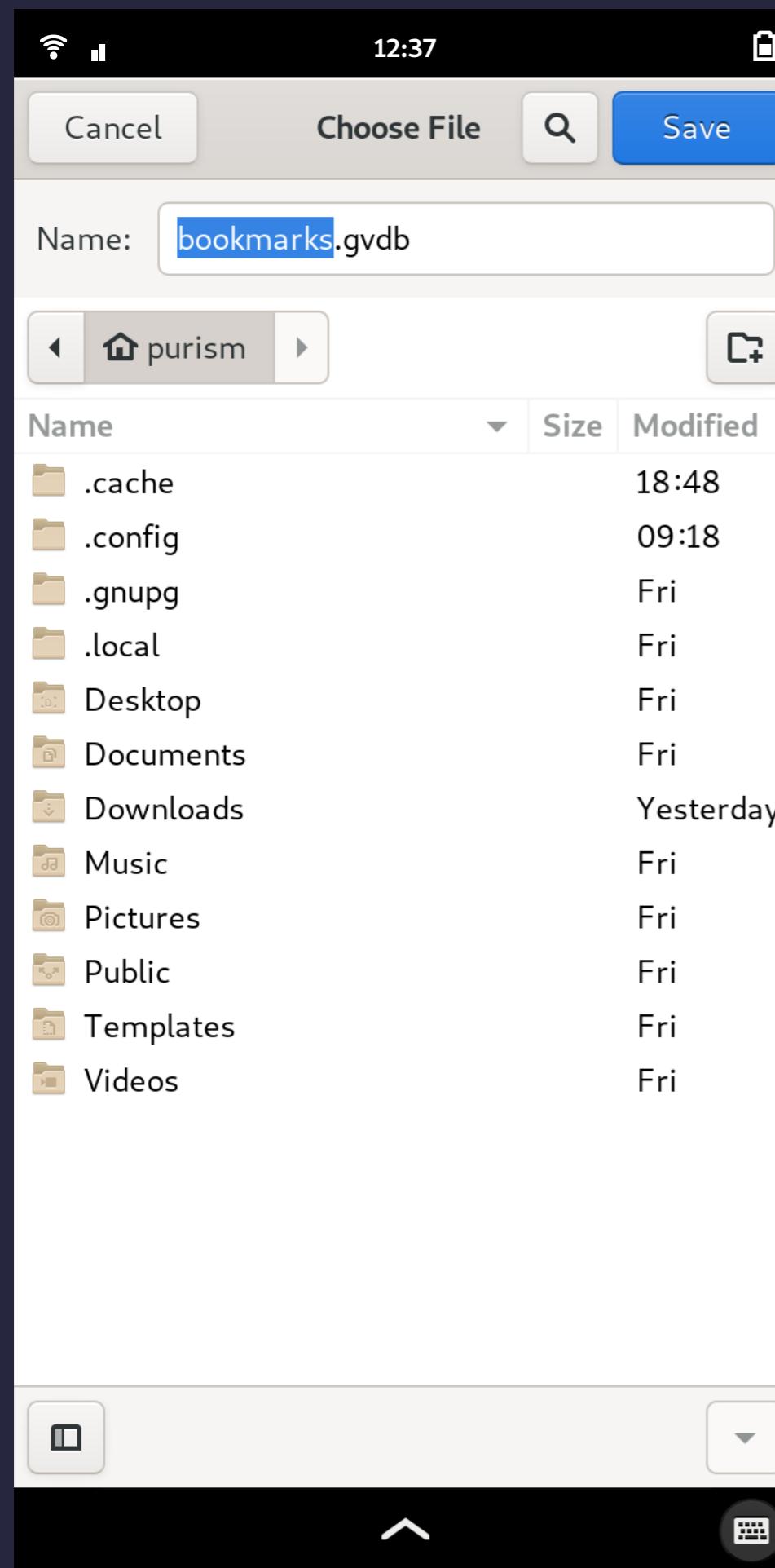
Preferences Demo

Feeds

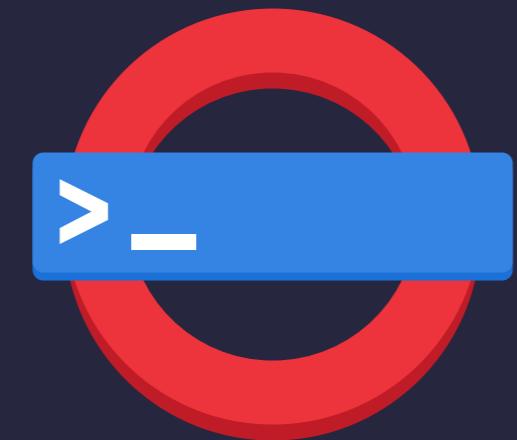
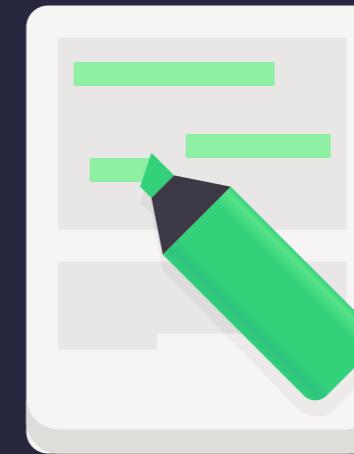
Widget: HdyPreferencesWindow

System Dialogs



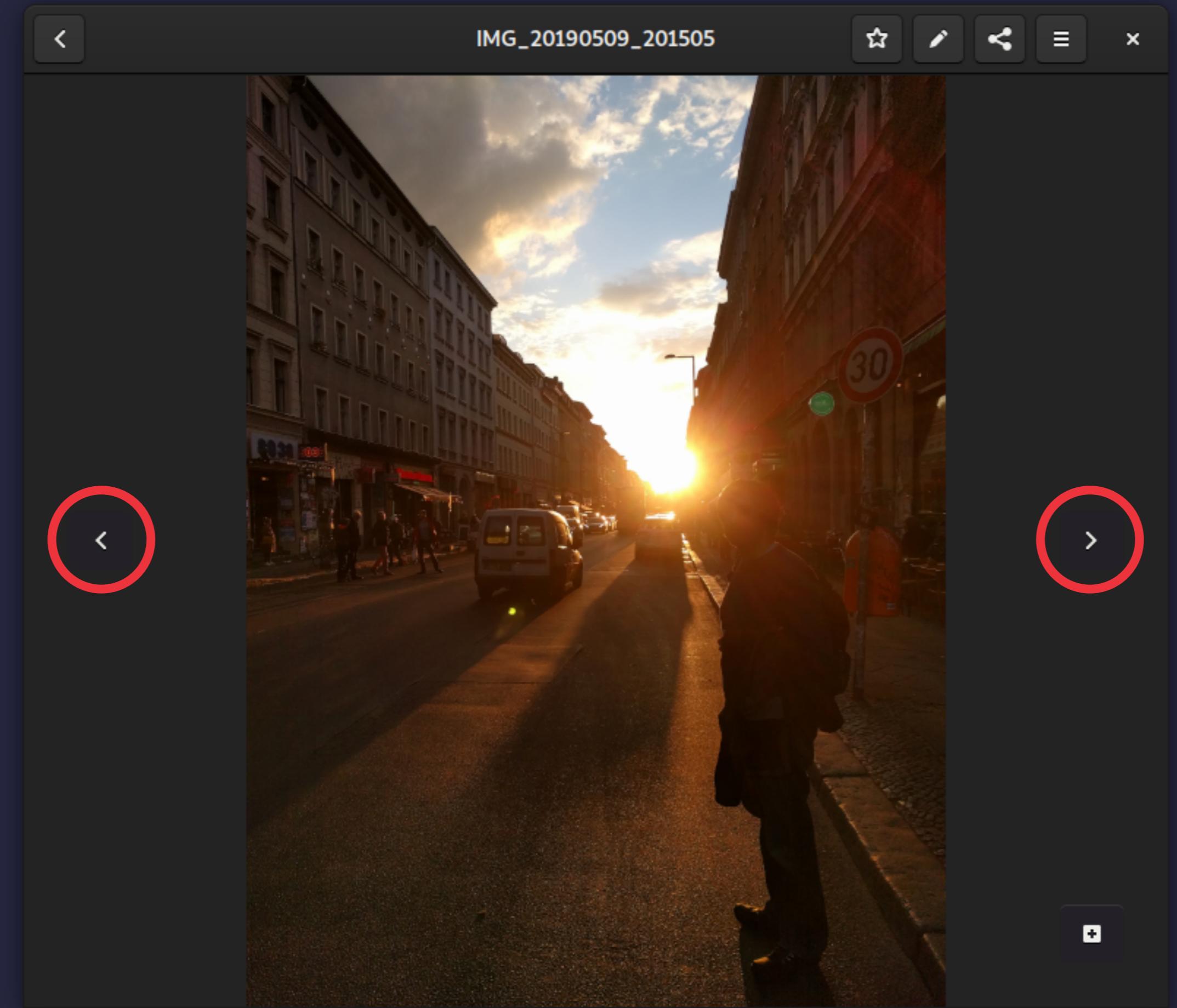


App Icons



Design Tools Demo

Future



Paginator





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GNOME Shell

GNOME_Shell_design_paper-20091114.pdf

39.7% ▾



2



3



Principles

It may be useful to highlight some of the principles that we wish to guide us as we approach the various challenges in a new design. The intention is not to make an exhaustive or exclusive list but merely to indicate a few standards that may be particularly relevant or interesting for this purpose. For more guidance on principles for good design please refer to some of the sources in the gnome-shell Reference List.

Take responsibility for the user's experience

Principle of non-preemption

"Individual interactive programs operate in a non-intrusive manner with respect to the user's activities. The system does not usurp the attention and prerogatives of the user. A program responds to the user's stimuli, but then quietly retains its context and logical state until the user elects to interact with the program again..."

From Deutsch & Taft 1980 "Requirements for an experimental programming environment"

"...Human attention is the most valuable and scarcest commodity in human computer interaction."
Horvitz, Jacobs, Hovel *Attention-Sensitive Alerting*

Principle of Least Astonishment

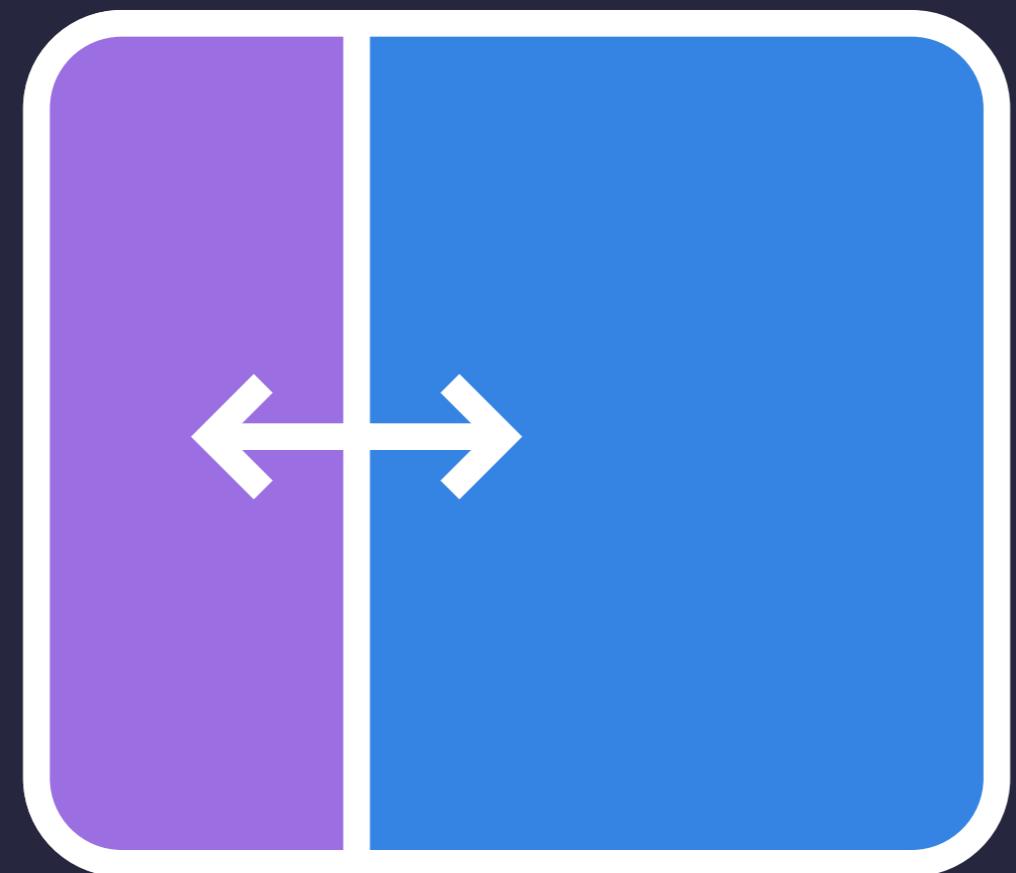
- or "uniformity in command interface" - From Deutsch & Taft 1980 *Requirements for an experimental programming environment*

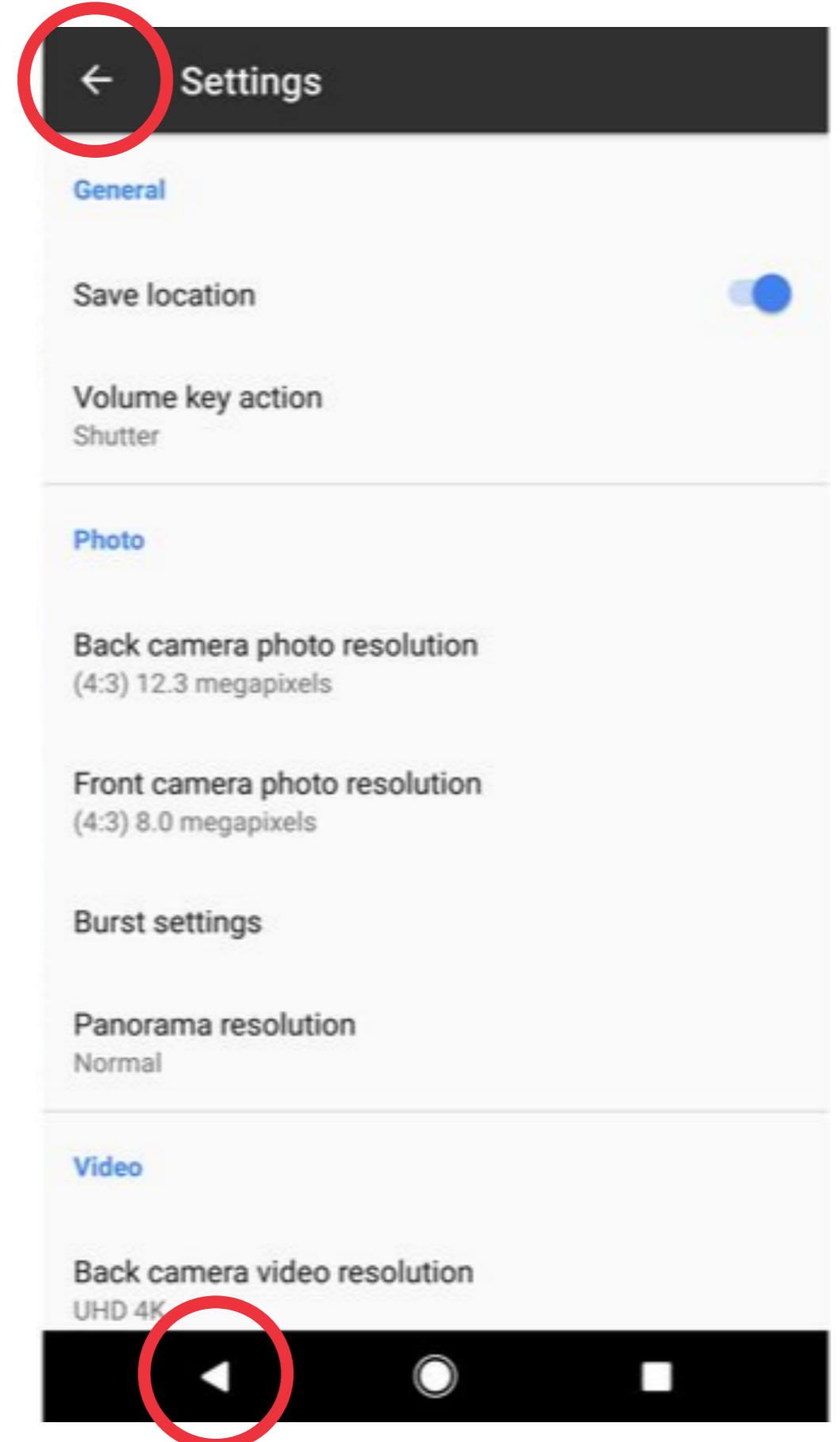
Design a self-teaching interface for beginners, and an efficient interface for advanced users, but optimize for intermediates

Don't unnecessarily rely on (especially mechanical-age) metaphor

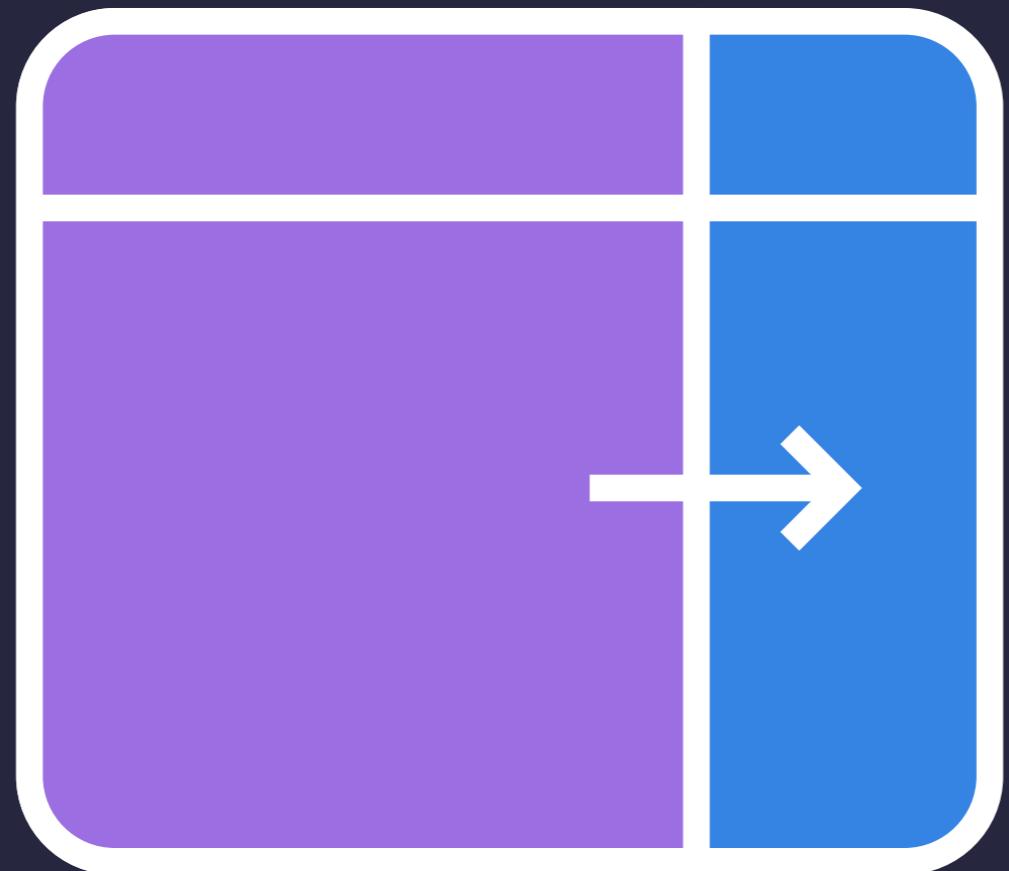
Less is More

Drawer





Back Gesture



Case Studies

Fractal

tobias.bernard@puri.sm
Inbox (1836)

Inbox 1836

Drafts 9

Sent Mail

Spam

Trash

Outbox

Archive

Labels

Adrien Plazas Jun 10
phosh | Slide down from top border to exit fullscreen (#90)
This also needs interaction from the compositor (gnome-shell is compositor and shell in one piece). View it on GitLab: <https://source.puri.sm/Librem5/phosh/issues/90>

Todd Weaver Jun 10
chatty | chatty from builder not building (#133)
New Issue was created. Issue 133: <https://source.puri.sm/Librem5/chatty/issues/133> Author: Todd Weaver Assignee: ...

Todd Weaver Jun 10
chatty | Chatty chat list sort order doesn't change on new ...
New Issue was created. Issue 137: <https://source.puri.sm/Librem5/chatty/issues/137> Author: Todd Weaver Assignee: ...

Mohammed Sadiq Jun 10
chatty | Don't depend on chatty-window class to get activ...
New Merge Request !48 https://source.puri.sm/Librem5/chatty/merge_requests/48 Project:Branches: mohammed.sa...

Guido Gunther Jun 9
phosh | rootston.ini: Don't scale X11 display (!193)
New Merge Request !193 https://source.puri.sm/Librem5/phosh/merge_requests/193 Project:Branches: guido.gunthe...

Guido Gunther Jun 9
phosh | WIP Make system prompter better fit available spa...
Lets drop this until we have a reproducer. View it on GitLab: https://source.puri.sm/Librem5/phosh/merge_requests/19...

Guido Gunther Jun 9
phosh | helpers: Make it simple to use glade with PhoshLay...
New Merge Request !192 https://source.puri.sm/Librem5/phosh/merge_requests/192 Project:Branches: guido.gunthe...

Dependency libhandy-0.0 found: NO (tried cmake)
src/meson.build:19:0: ERROR: Invalid version of dependency, need 'libhandy-0.0' ['>= 0.0.6'] found '0.0.5'.
Attaching full log: [meson-log.txt](#)

[View it on GitLab.](#)
You're receiving this email because of your account on source.puri.sm. If you'd like to receive fewer emails, you can [unsubscribe](#) from this thread or adjust your notification settings.

Guido Gunther Jun 9
If this isn't a flatpak build then your system's libhandy is too ...

Todd Weaver Jun 9
I'll ping @jeremiah.foster to see why this isn't updated in Pu...

Guido Gunther git@puri.sm Jun 10
Reply to: GitLab admins@puri.sm
Re: chatty | chatty from builder not building (#133)
To: tobias.bernard@puri.sm

I did the libhandy pureos uploads and likely I forgot. If we could auto-sync it from debian unstable that would be a non-issue (<https://tracker.pureos.net/T366>). This would e.g. also help purple-matrix.

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Archive

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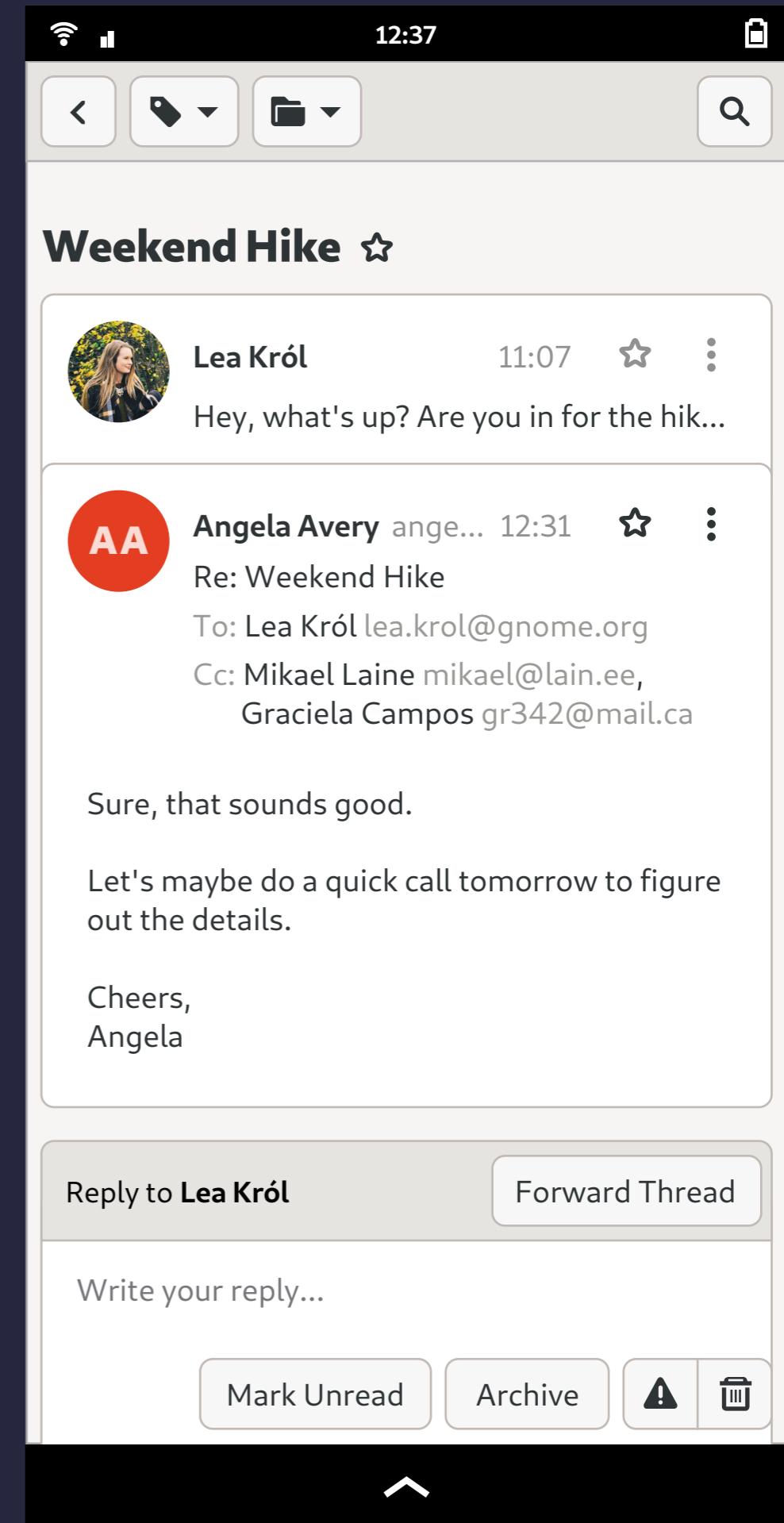
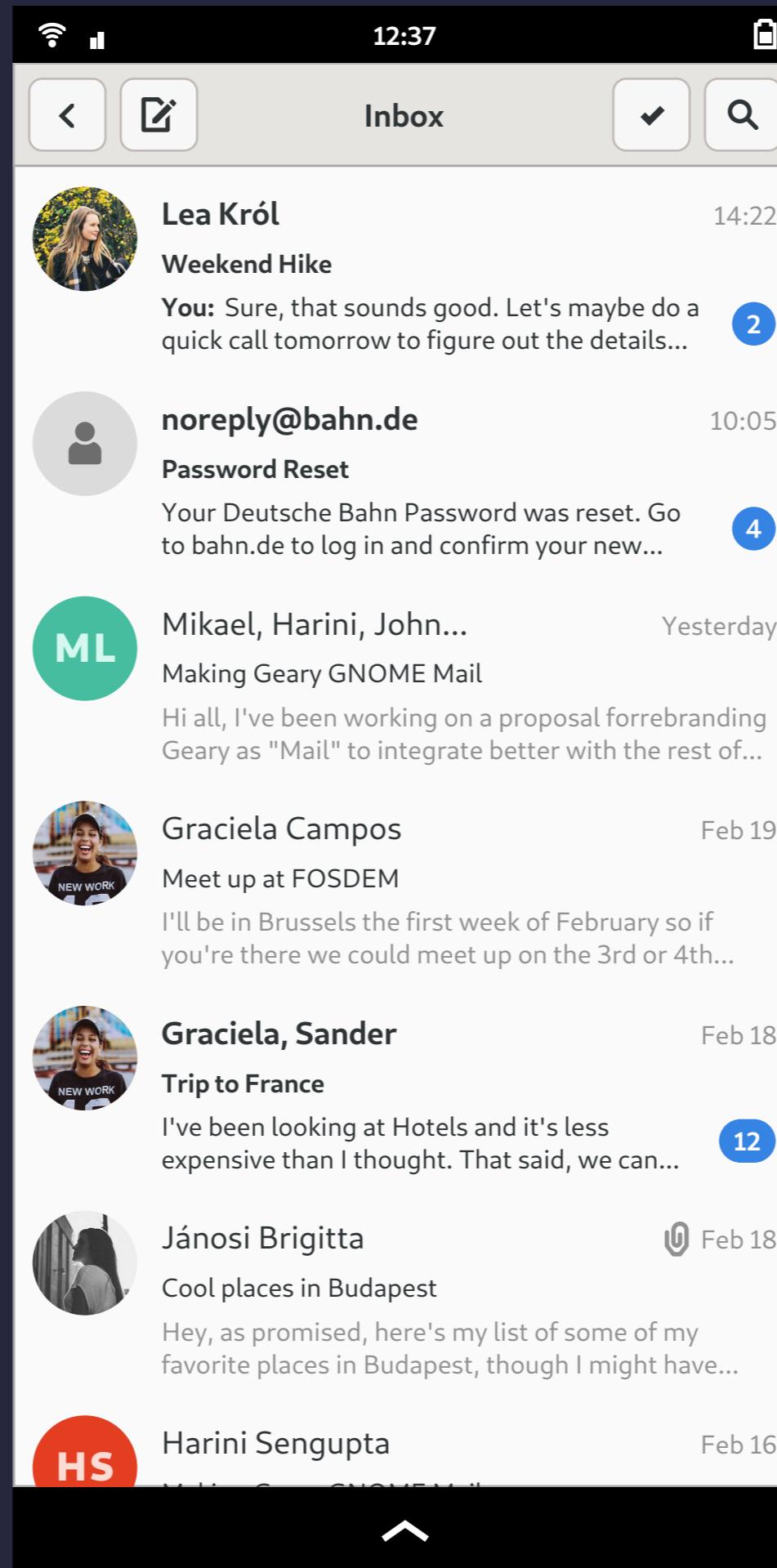
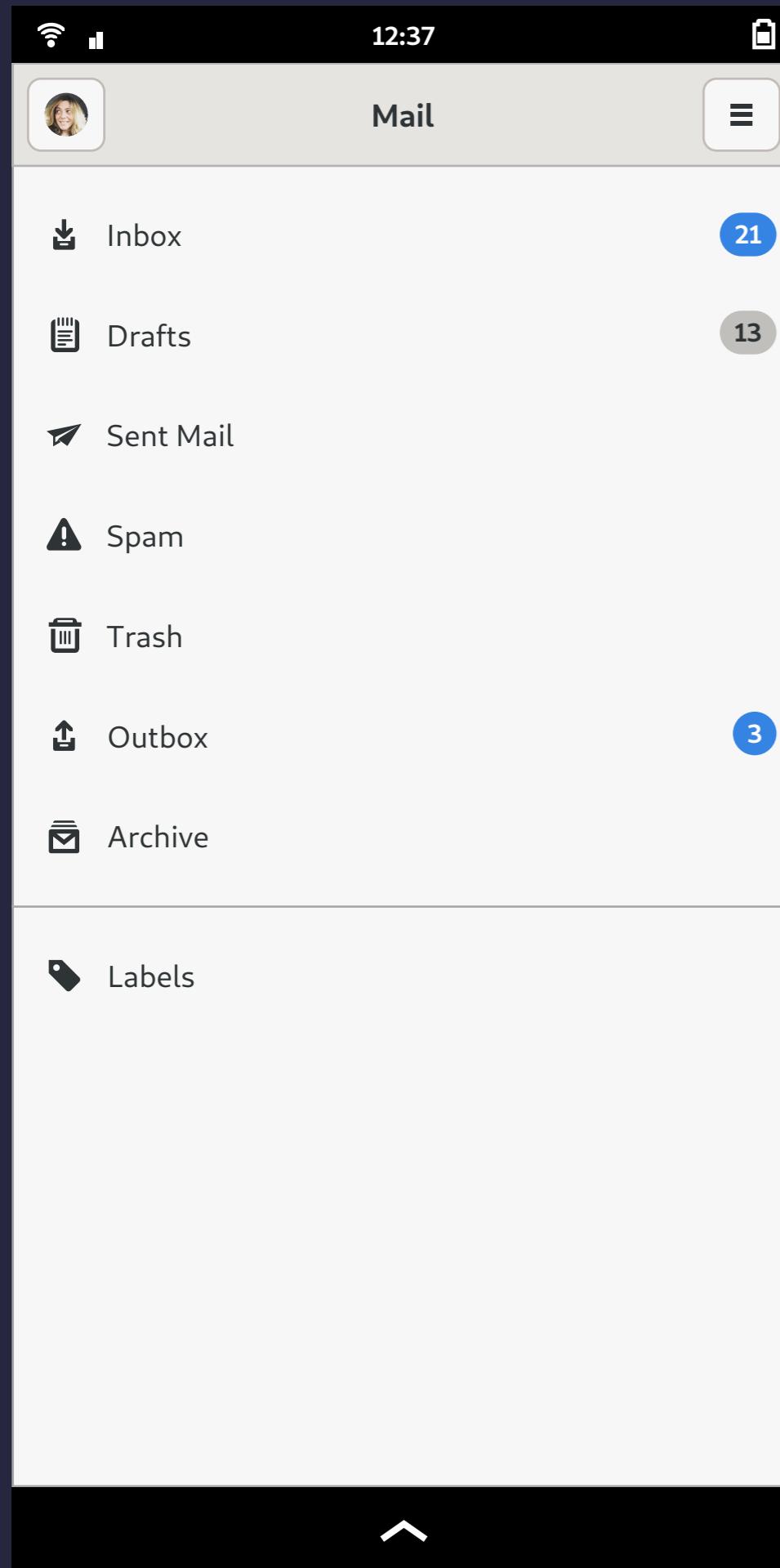
mins@puri.sm

ssing asterisk (#75)

puri.sm

Tuesday





Mail **Inbox**

Inbox (21) **Lea Król, You** 14:22
Weekend Hike
You: Sure, that sounds good. Let's maybe do a quick call tomorrow to... (2)

noreply@bahn.de 10:05
Password Reset
Your Deutsche Bahn Password was reset. Go to bahn.de to log in and... (4)

Mikael, Harini, John... Yesterday
Making Geary GNOME Mail
Hi all, I've been working on a proposal for rebranding Geary as "Mail" in order to...

Graciela Campos Feb 19
Meet up at FOSDEM
I'll be in Brussels the first week of February so if you're there we could meet up, for...

Graciela, Sander, You Feb 18
Trip to France
I've been looking at Hotels and it's less expensive than I thought. That... (12)

Jánosi Brigitta Feb 18
Cool places in Budapest

Cc: Mikael Laine mikael@lain.ee, Graciela Campos gr342@mail.ca

Sure, that sounds good.
Let's maybe do a quick call tomorrow to figure out the details.
Cheers,
Angela

Reply to Lea Król

Hi Lea,
What about|

Adrien Plazas

Guido Günther

Zander Brown

Alexander Mikhaylenko

Chris Davis

Bilal Elmoussaoui

Felix Häcker

Jordan Petridis



Adaptive Widgets



Port all our Apps



World Domination (?)

Get involved!

developer.puri.sm

source.puri.sm/LibreM5/libhandy

[#libhandy:talk.puri.sm](#)

Thanks