Adaptive Apps

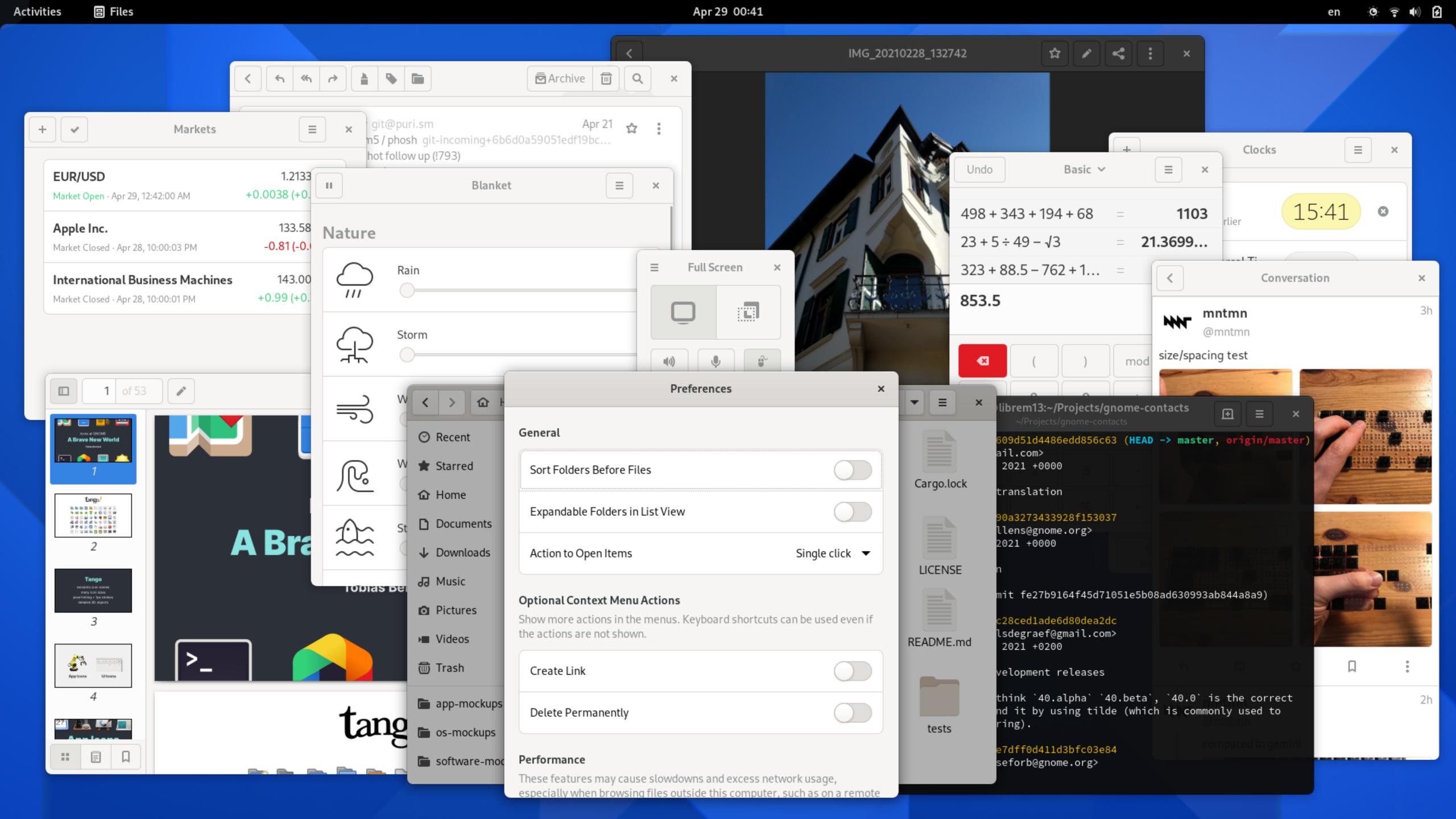
The Future is Now

Tobias Bernard

Upclate



Actual Hardware



Core Apps



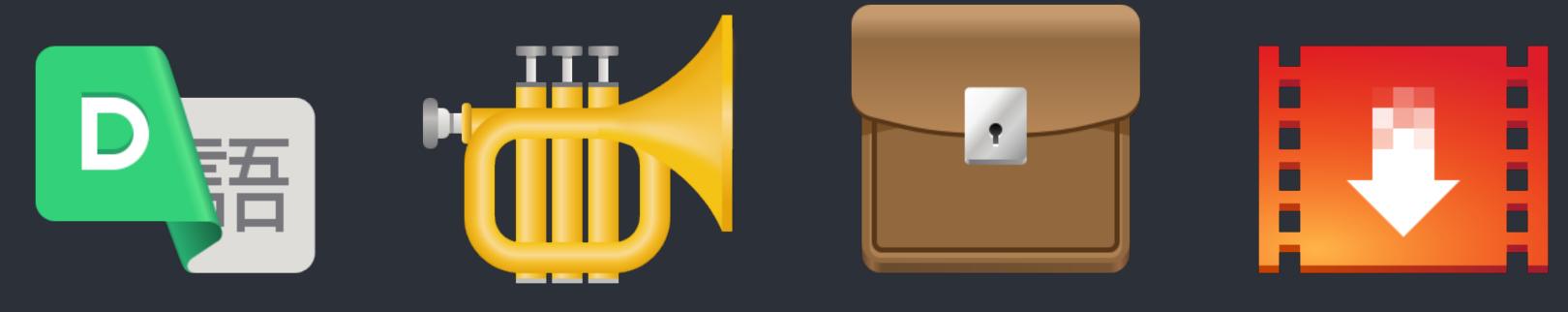




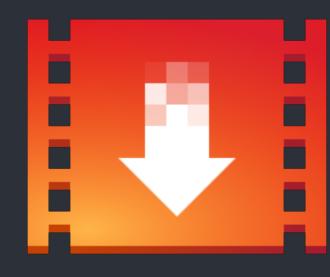


Third Party Apps

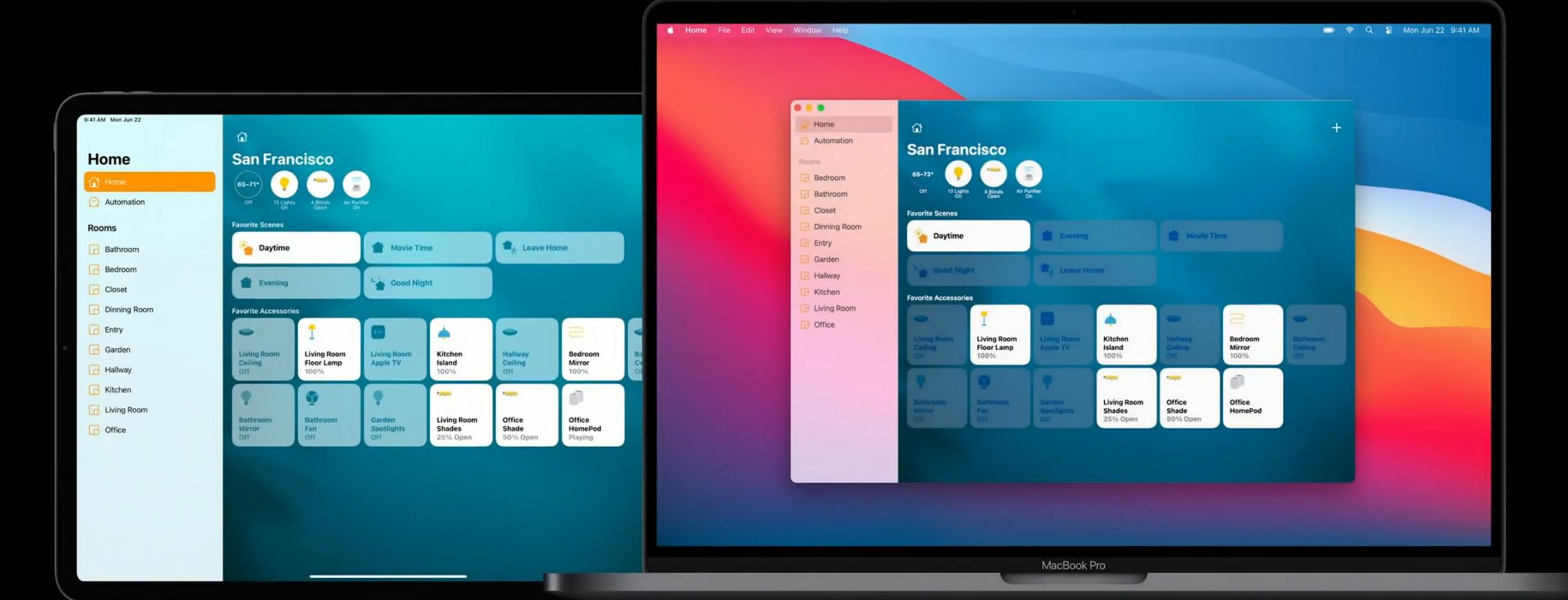






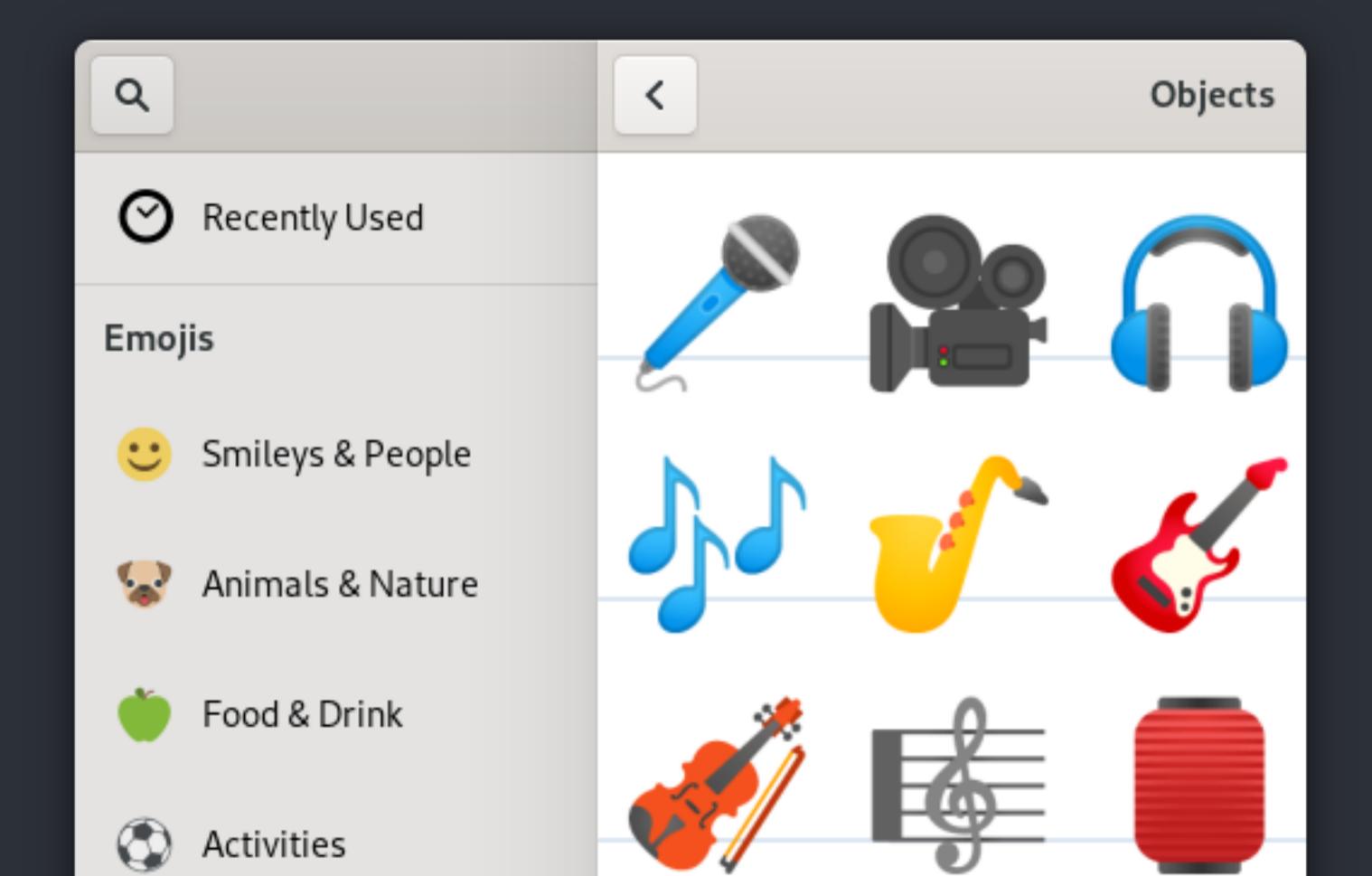




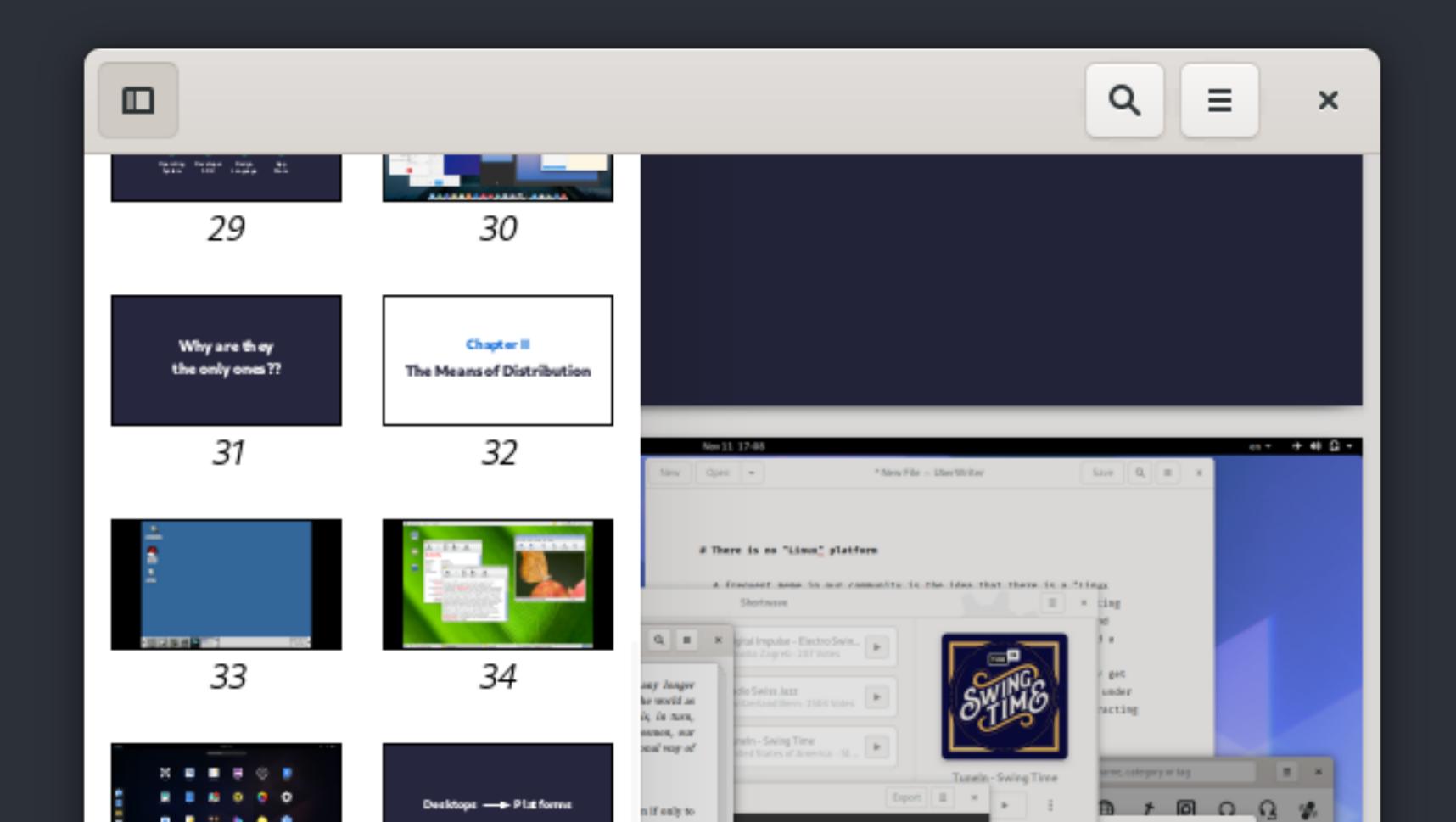


New Widgets

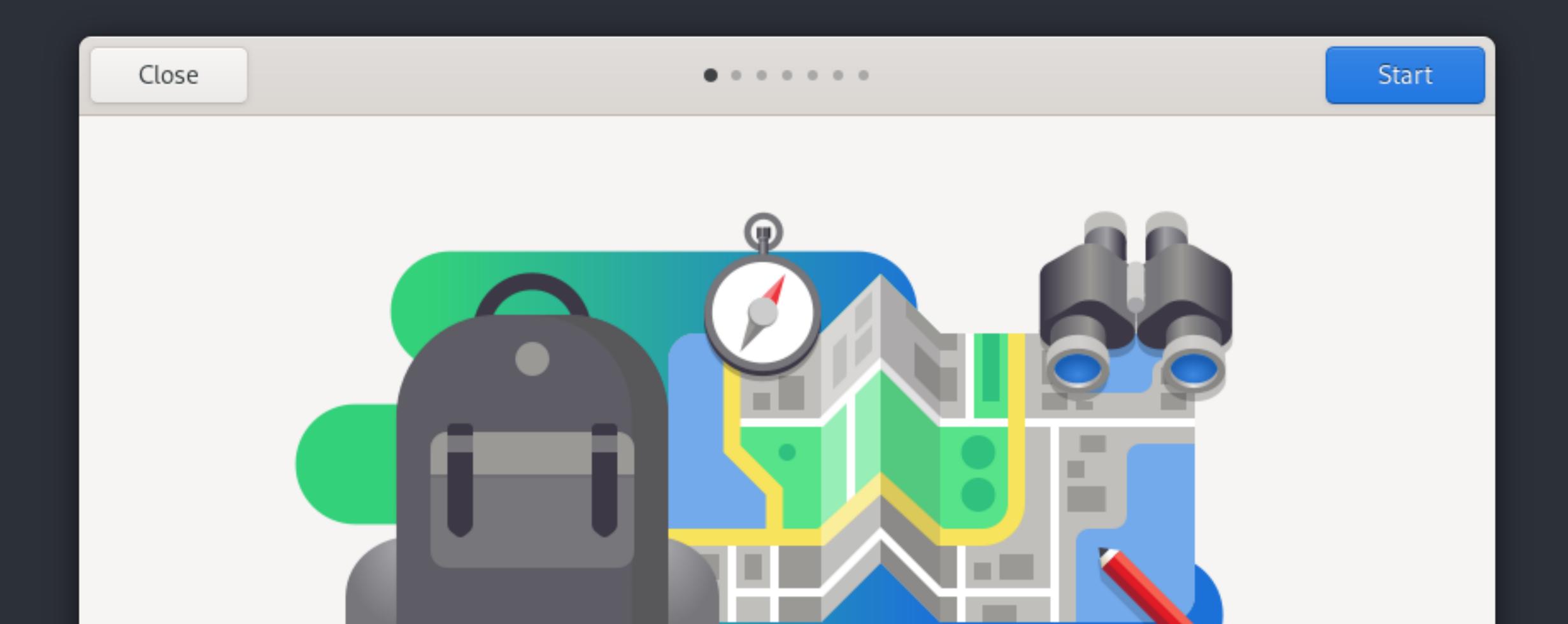
Back Swipe



Utility Panes



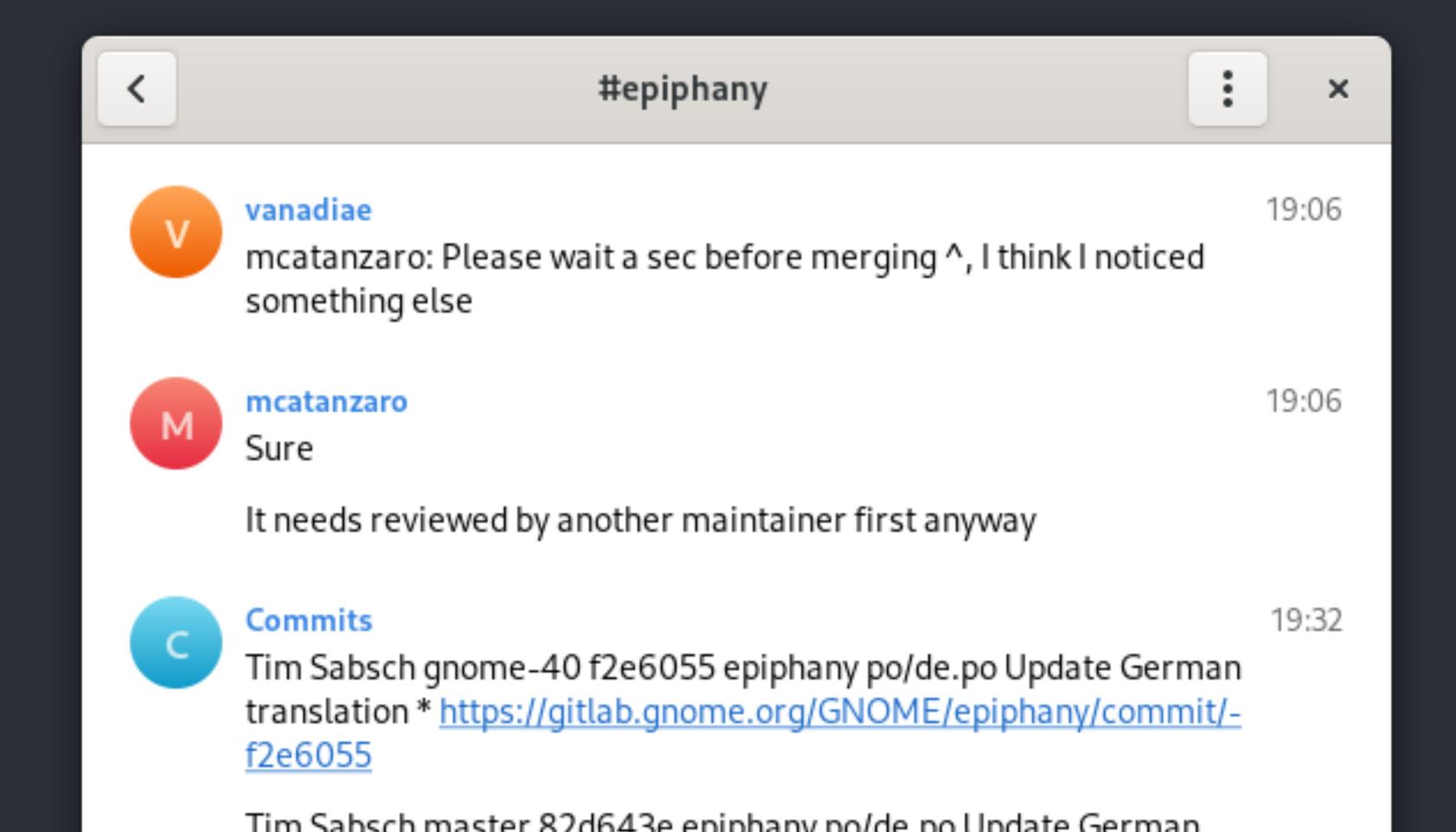
Carouse



Tabs



Avatars



And More!

Rounded Corners
Flexible Headerbars
Status Page
Column → Clamp

Hardware Support Metadata



Adaptive

Works on phones, tablets, and destkops



Desktop only

Not optimized for touch devices or phones



Mobile only

Requires a gyroscope



Missing hardware

Needs a physical keyboard or gamepad

com.domain.app.metainfo.xml

com.domain.app.desktop

```
X-Purism-FormFactor=Workstation; Mobile;
```

Use real pixel sizes 🗸

```
<requires>
     <display_length compare="ge">360</display_length>
</requires>
```

Do NOT use named values 🗶

```
<requires>
     <display_length compare="ge">small</display_length>
</requires>
```

The Future

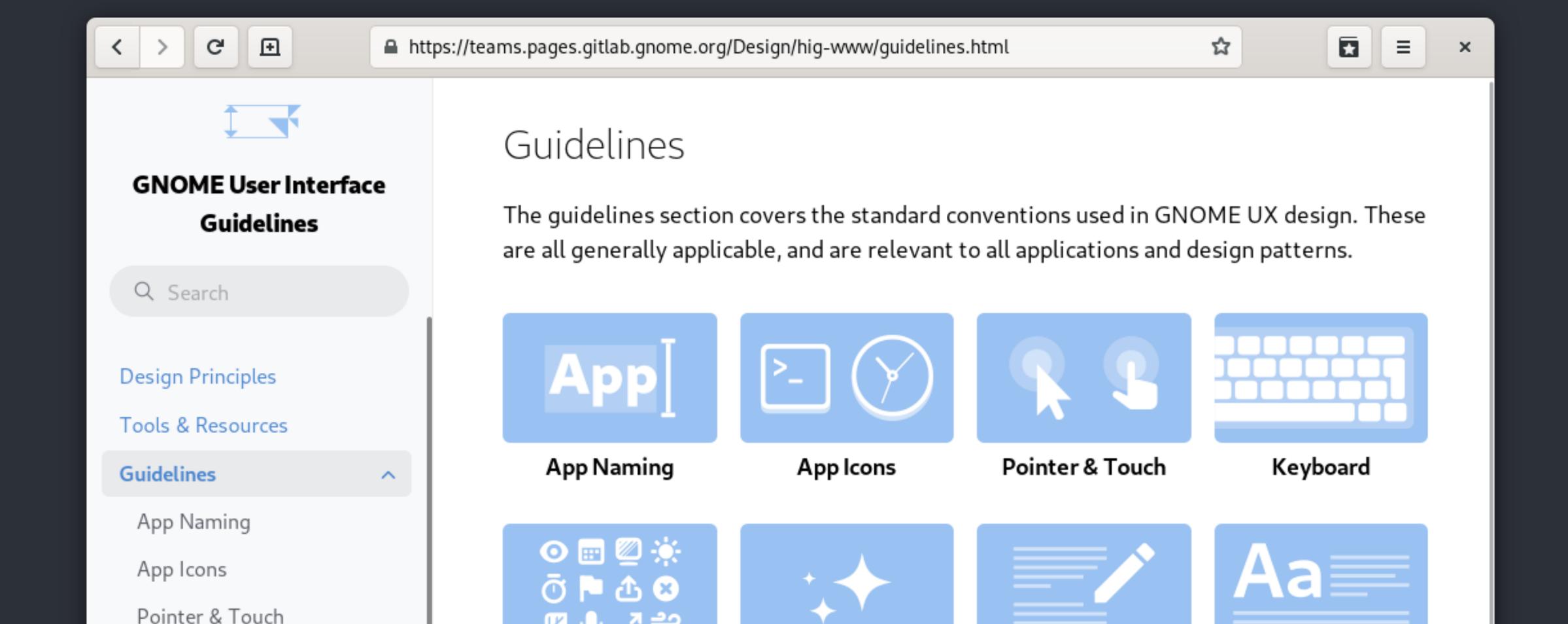
Widget Library

Moves faster than GTK
In sync with our design patterns
Platform-specific
Libhandy fills this role for GTK3

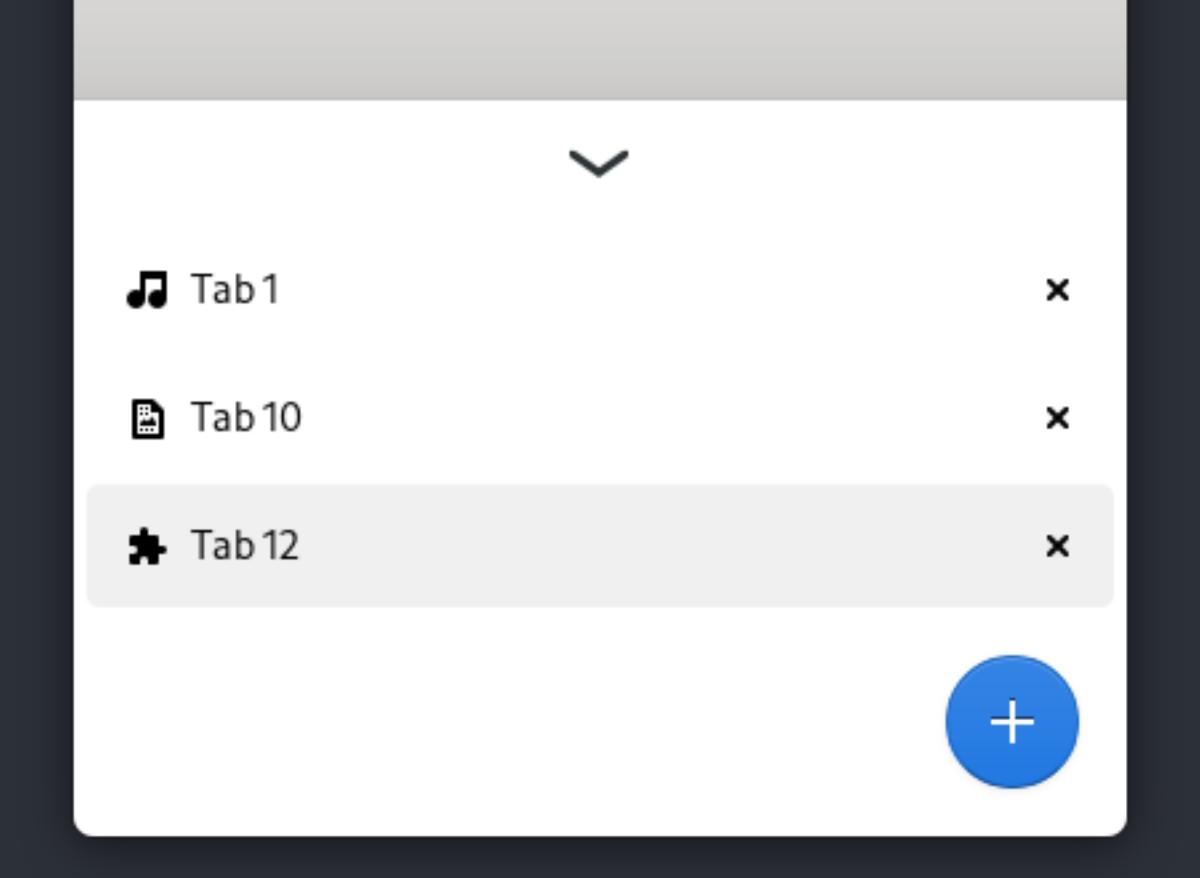


ACIWAIIa

New HIG



Future Widgets



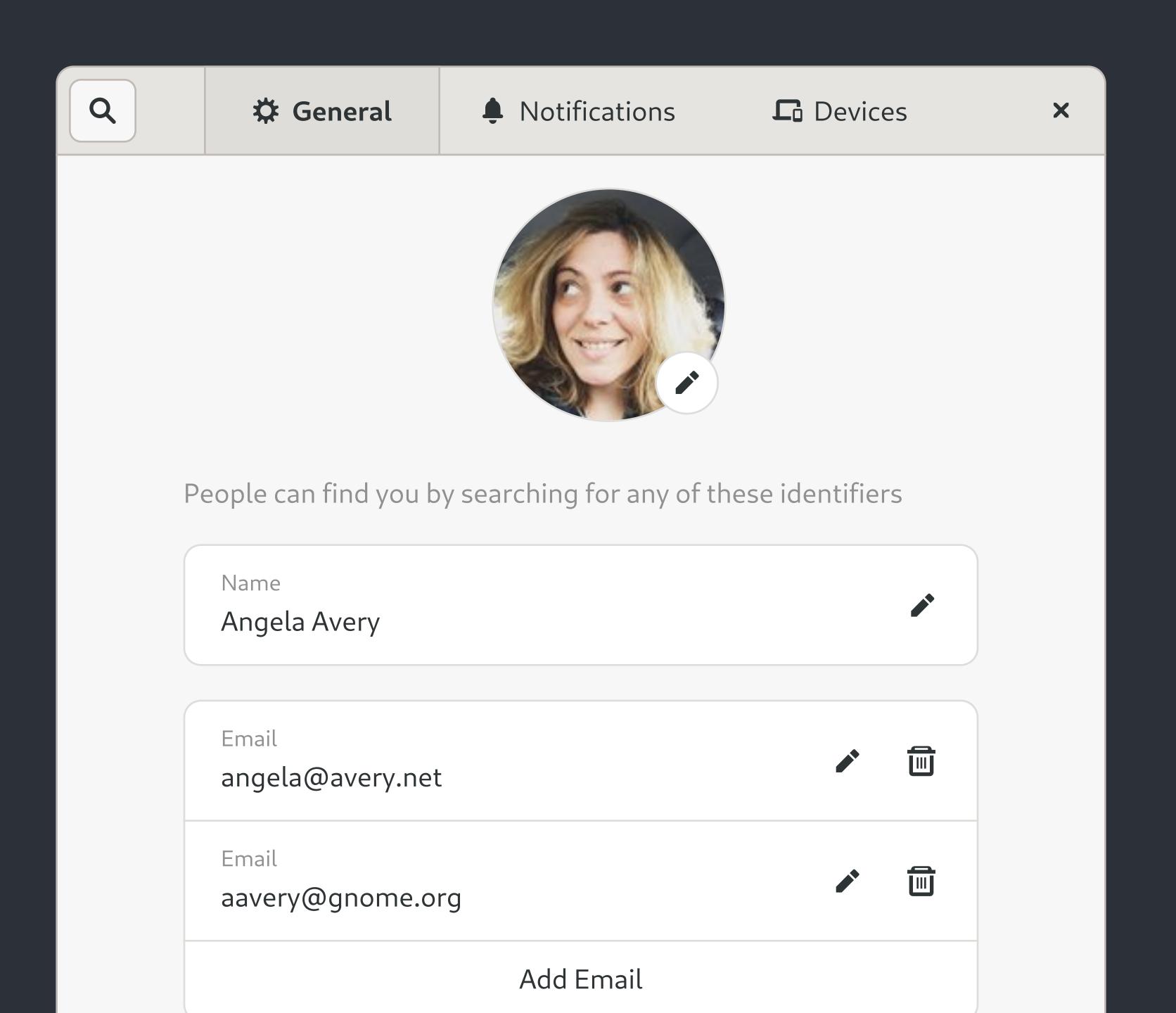
Mobile Tabs

List Row Entries

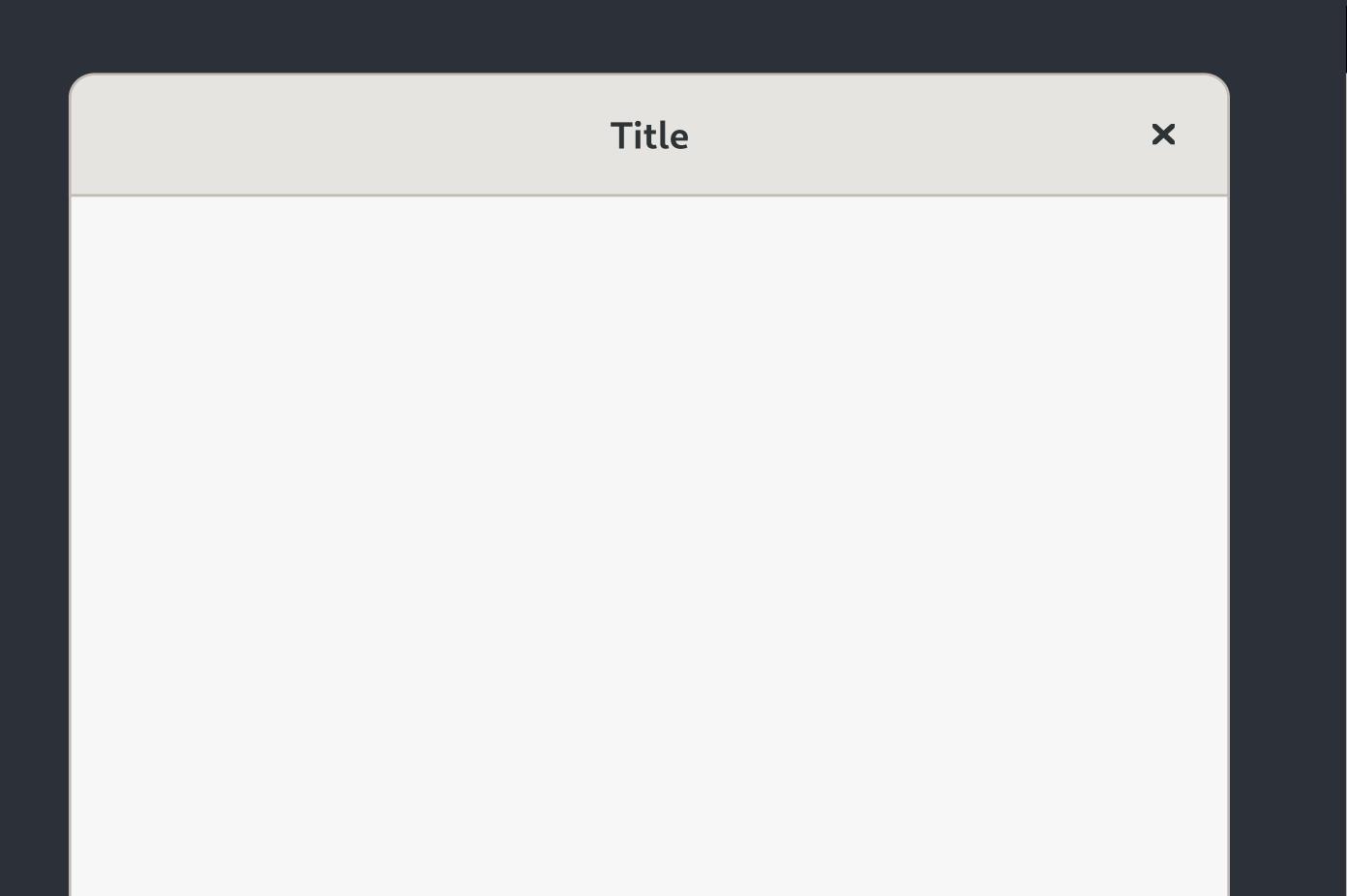
Device Name
Ange

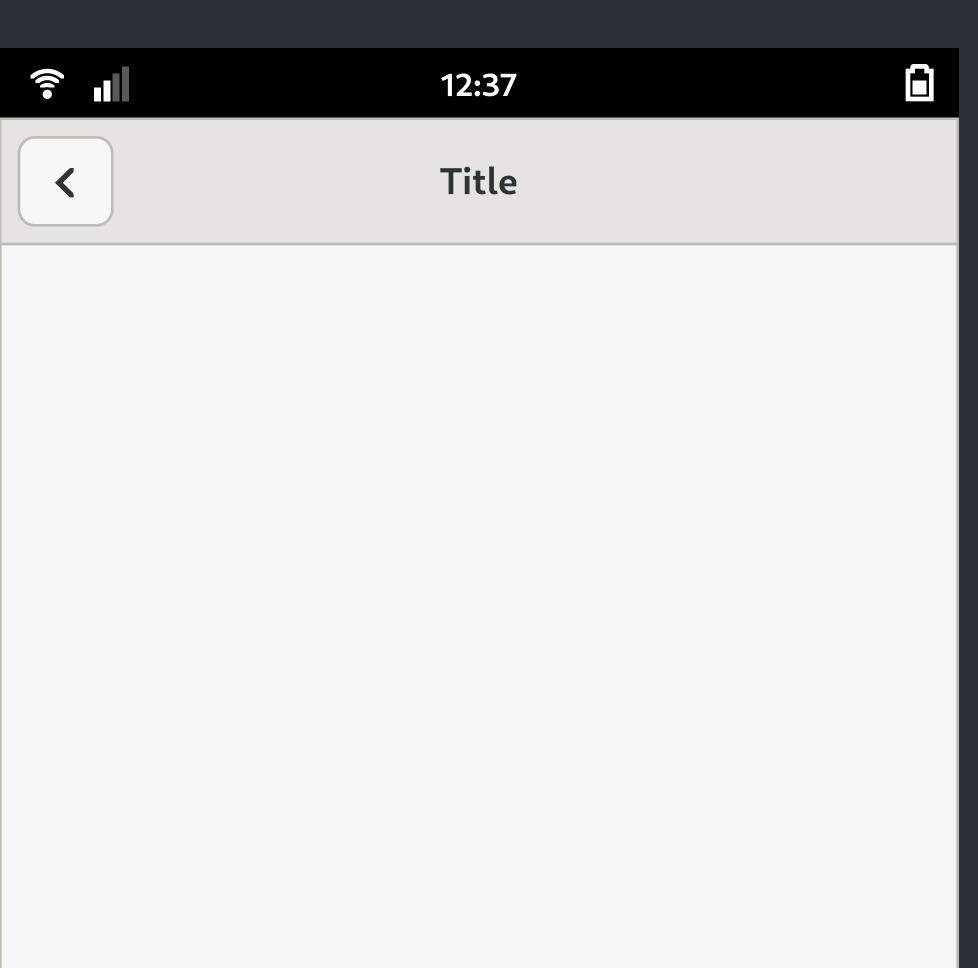
Device Name
Angel

Angela's Librem 5



In-Stack Dialogs





System Dialogs

About Dialog
Keyboard Shortcuts
File Chooser
Other Portals

Powered By

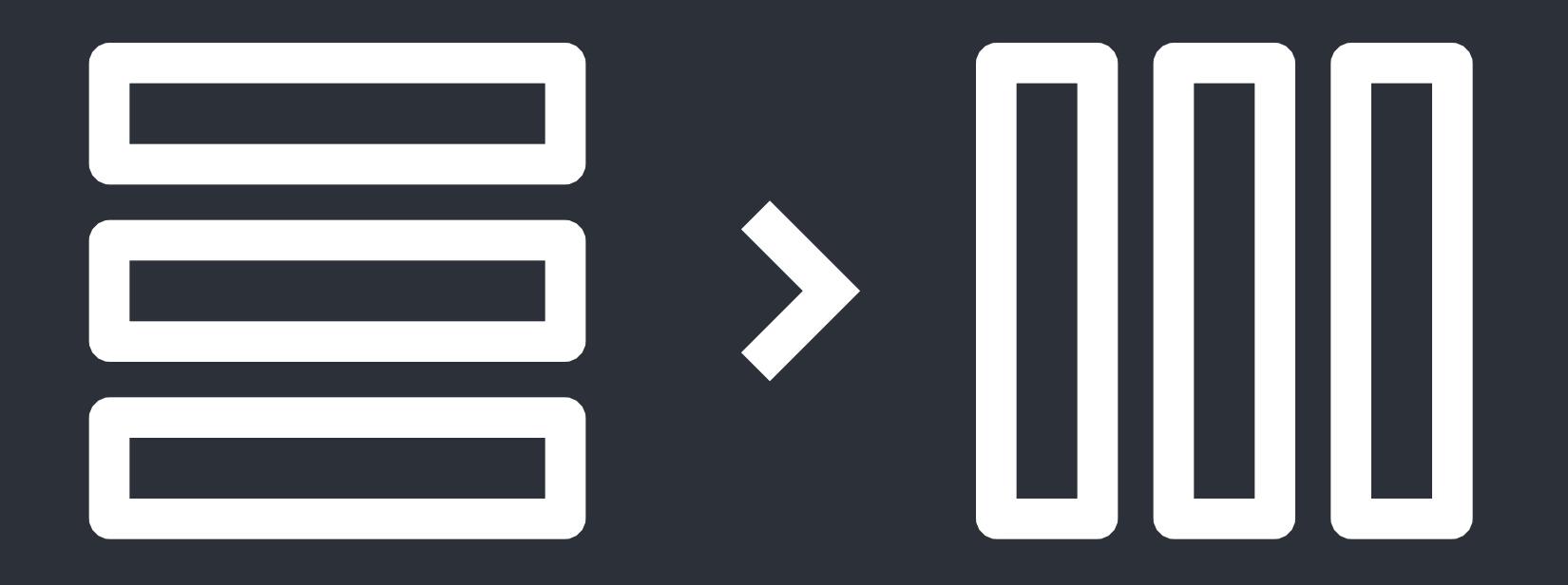


Animation



SCA L

Layout Morphing



One More Thing

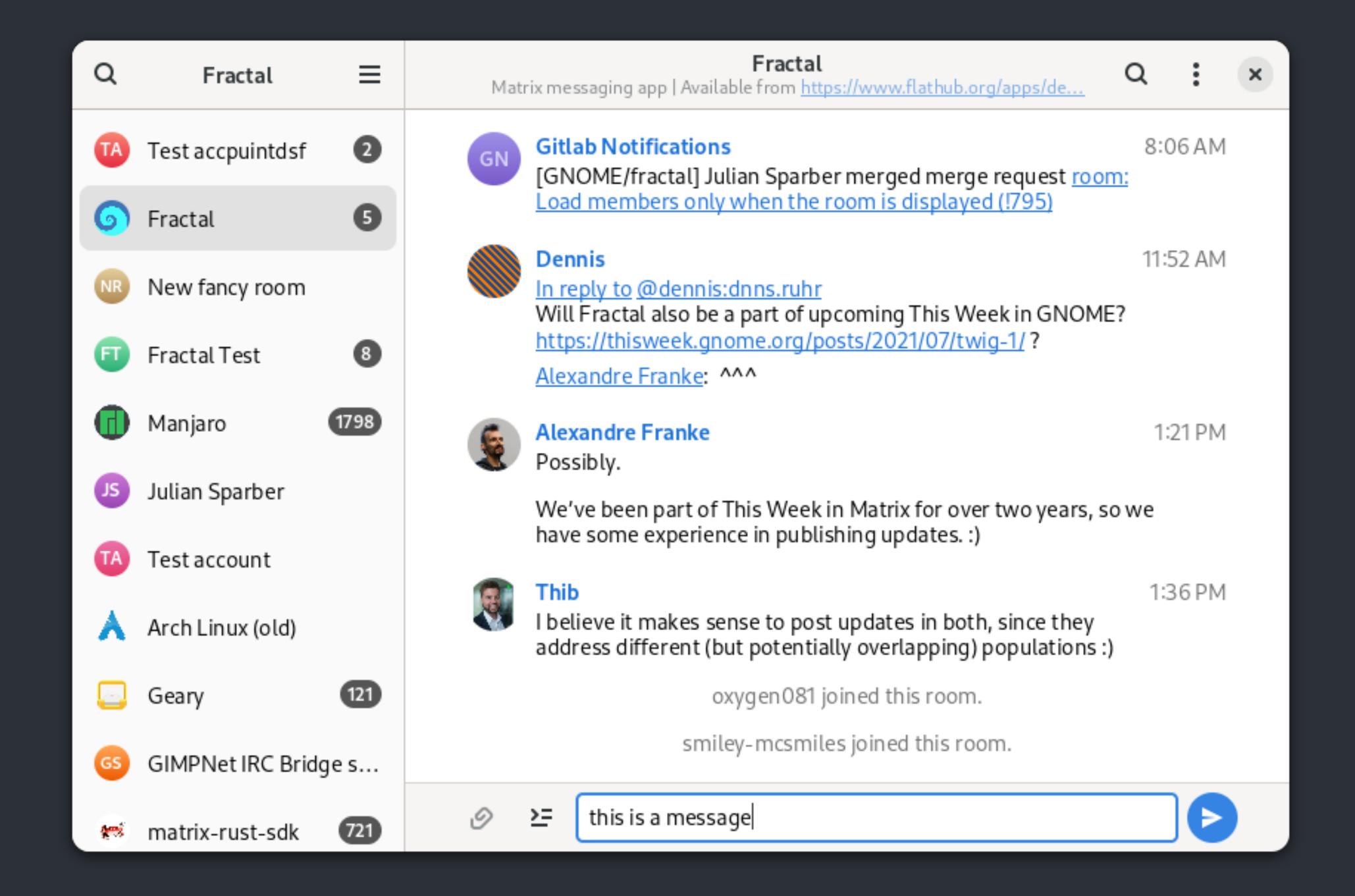
Style Refresh

Cleaner Visuals

Better Contrast in Dark Variant

App Accent Colors

Widget Recoloring



Summary

Mainline Linux phones are real now Everything is going adaptive New widget library and HIG GTK4 is going to be amazing

The future is

AWESOME

Developers

Adwaita API is not stable yet
New apps: Start with GTK4/Adwaita
GTK3 apps: Maybe wait a bit
Adwaita 1.0 release before 42

GNOME Mobile

July 29, 14:00 UTC

meet.gnome.org/ale-u66-xf7-kic

Thanks

Alex Mikhaylenko Adrien Plazas

Guido Günther

Julian Sparber

Zander Brown

Felix Häcker

Andrei Lișiță

Bilal Elmoussaoui

Allan Day

Jakub Steiner

Get Involved

gitlab.gnome.org/GNOME/libhandy #libhandy:gnome.org

gitlab.gnome.org/GNOME/libadwaita #libadwaita:gnome.org

Thanks

tbernard@gnome.org tbernard@mastodon.social

Slides: github.com/bertob/guadec2021-slides