

phosh: Yet another year around the sun!

Evangelos Ribeiro Tzaras

2025-02-01



Pleased to make your acquaintance

\$ whoami

- goes by devrtz
- Daily driving "Linux first" phones since early 2020
- Mobian member, Debian Maintainer
- Free Software Developer
- contributor to phosh / GNOME ecosystem

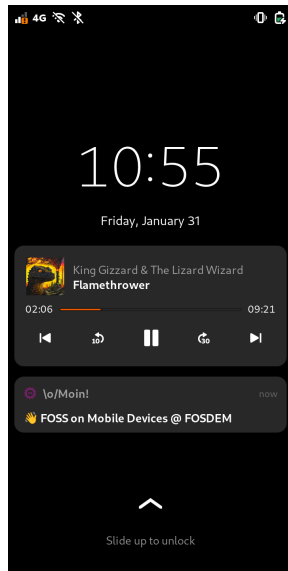
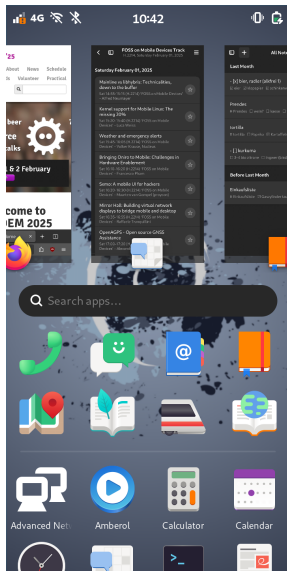
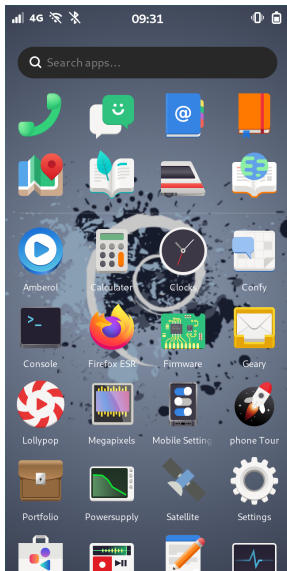
phosh in a nutshell

- phosh: graphical shell targetting mobile devices
- touch friendly
- wayland
- written in GTK
- makes heavy use of GNOME technologies
- phoc: wayland compositor, based on wlroots (currently 0.18.2)

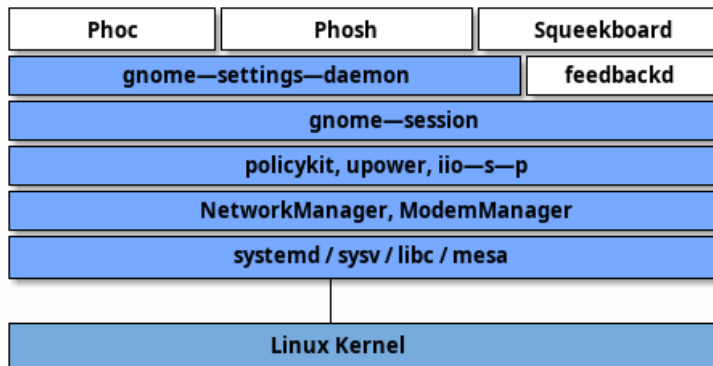
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- phoc: wayland compositor, based on wlroots (currently 0.18.2)
- originally written for Purism's Librem 5
- primary target: phones running mainline kernels
- goal: driving #LinuxMobile forward => contributing mobile specific bits to relevant components

phosh - what it looks like



The stack roughly



Standing on the shoulders of giants

The ecosystem

The main cast

- phosh, phoc
- squeekboard, phosh-osk-stub
- feedbackd
- phosh-mobile-settings

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Lesser known (?)

- phosh-tour
- phog, phrog
- libphosh, libcall-ui
- gmobile
- xdg-desktop-portal-phosh, PhoshFileSelector
- PhoshEv, phosh-antispam, phom

Some stats

- v0.0.1 released on 2018-09-20
- A total of 78 stable releases
- 13 stable releases (including 3 bugfix releases) since 2024-01-01
- translated for 49 different locales

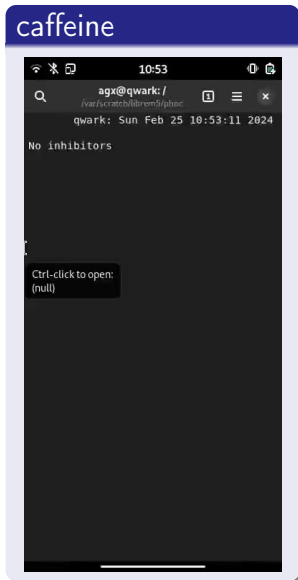
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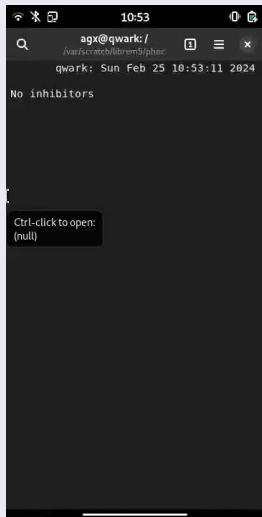
what else is new?

- release every 1.5 months (used to be monthly)
- new lockscreen widgets
- new quick settings widgets
- visual polish

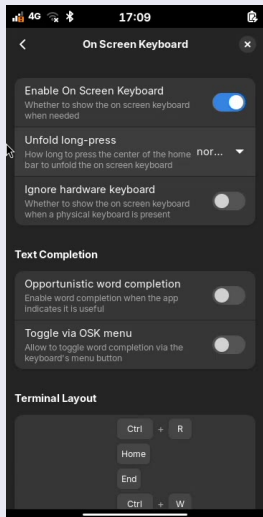
quick settings



caffeine

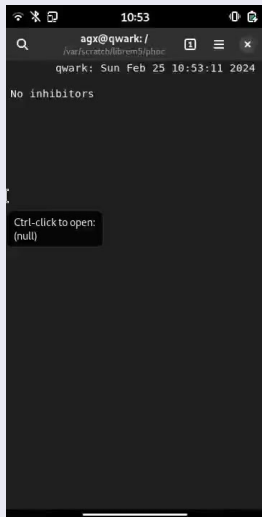


wifi

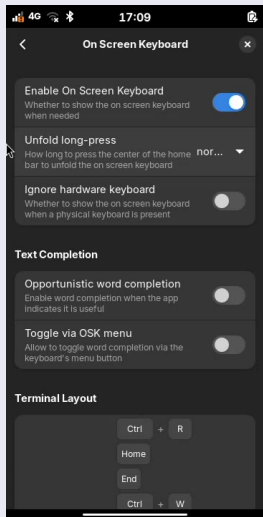


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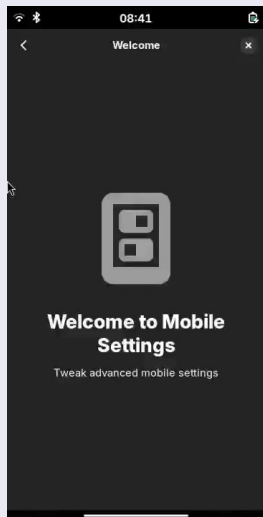
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hotspot



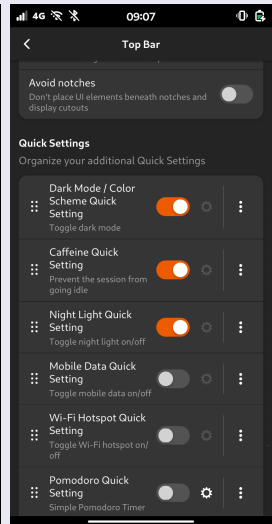
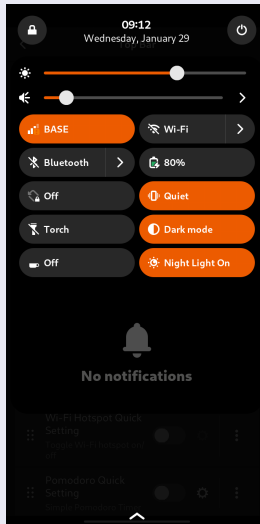
toggle all the things

- caffeine
- dark mode
- night light
- hotspot
- mobile data
- pomodoro timer

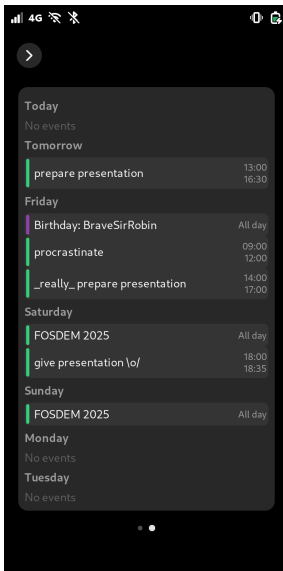
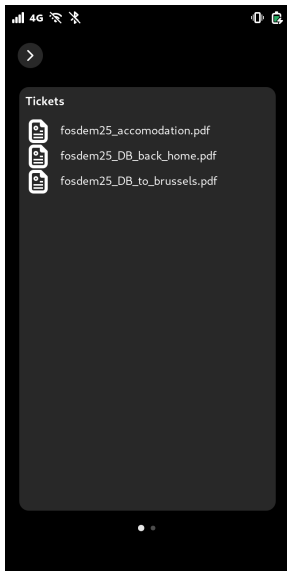
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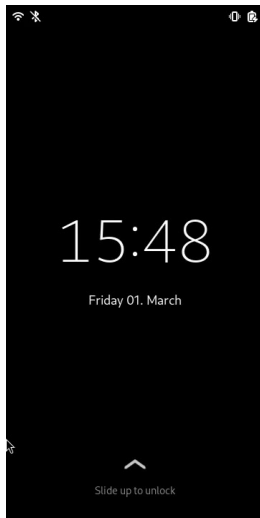
set up all the things

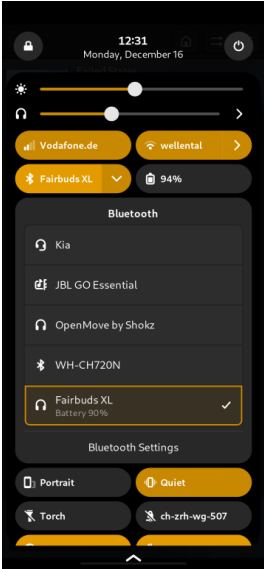


lockscreen



lockscreen: launcher entry protocol





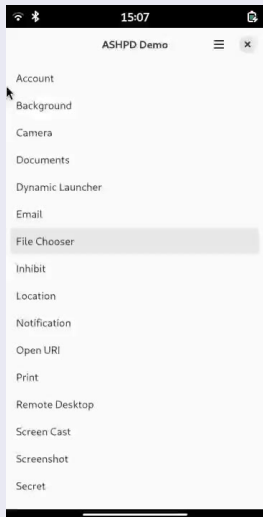
- ModemManager support; needs ≥ 1.24 (to be released)
- phosh bits are in
- TODO historical data in chatty
- thanks to NLnet! <https://nlnet.nl/project/SMS-CB/>

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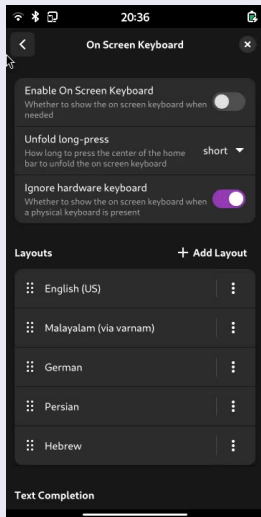


- desktop backgrounds
- accent color support
- fling gesture
- adaptive file chooser
- captive portal
- notification categories

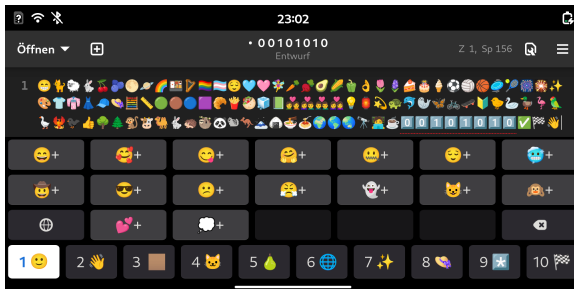
pfs



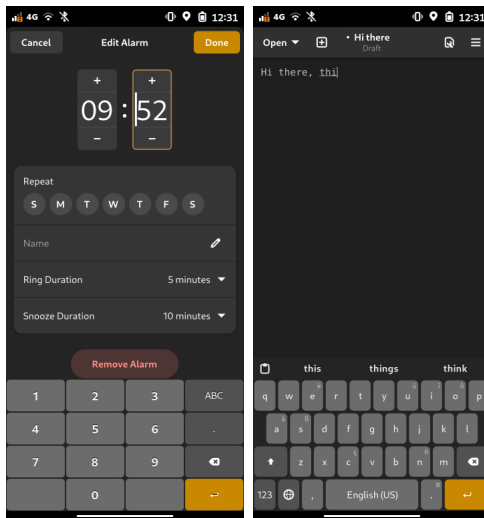
captive portals



- better sizing
- electron apps work correctly now
- unicode 16 emojis



- configurable shortcuts
- word completion
- number layout

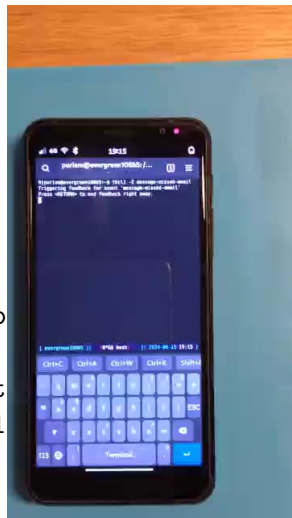


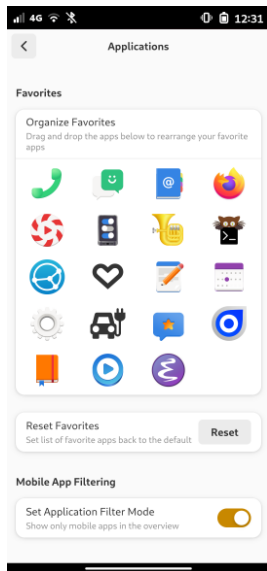
- RGB colors (instead of named color)
- hw patterns for Qualcomm devices
- haptic interface for games

```
busctl call --user org.sigxcpu.Feedback \  
/org/sigxcpu/Feedback \  
org.sigxcpu.Feedback.Haptic Vibrate \  
'sau' org.foo.app 7 123 1000 500 1000 750
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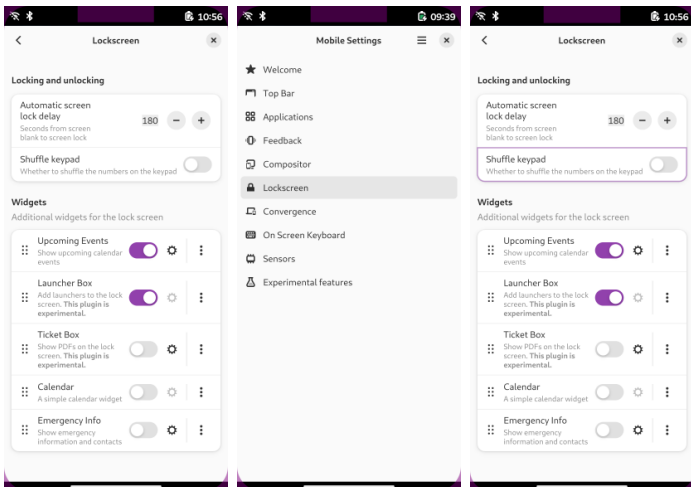




- support library
- wakeup keys (udev, hwdb)
- notch support
- <https://phosh.mobi/posts/notch-support/>

```
gm-display-panel-run-phosh -c oneplus,fajita
```

gmobile: notches



Want to get involved?

- contribute code
- file issues
- test the latest & greatest
- submit translations

- No need to download 10GB SDKs
- No developer accounts needed
- No virtual machines needed
- Use existing/familiar tooling and frameworks
- No hardware needed

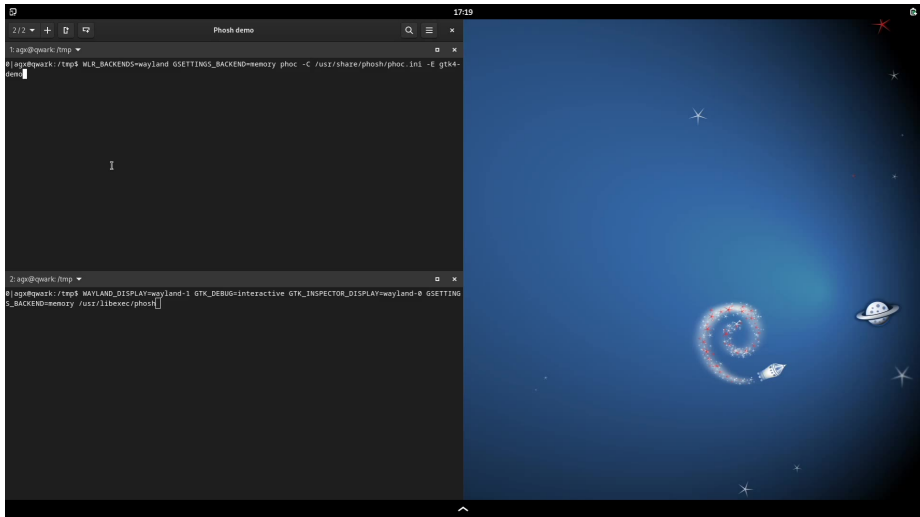
- No need to download 10GB SDKs
- No developer accounts needed
- No virtual machines needed
- Use existing/familiar tooling and frameworks
- No hardware needed
- Unless your application needs to talk to the hardware, e.g. modem, sensors (and you can't mock it)

- phrog
- plugins

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- language bindings available (gir1.2-phosh-0-dev, libphosh-rs)
- documentation @
<https://world.pages.gitlab.gnome.org/Phosh/phosh/>

Running nested

<https://phosh.mobi/posts/phosh-dev-part-0/>



Testing the latest and greatest

phosh-nightly

- <https://phosh.mobi/posts/phosh-nightly/>
- <https://gitlab.gnome.org/guidog/phosh>
- <https://gitlab.gnome.org/guidog/phoc>

Running the latest and greatest

```
$ cat /etc/apt/sources.list.d/phosh-nightly.sources
Types: deb
URIs: http://deb.phosh.mobi/nightly/
Suites: trixie-nightly
Components: main
[...]
$ apt -t trixie-nightly full-upgrade
```

- runtime management background apps
- push notifications
- wake-up on IP connections
- more applications
- "share to" functionality
- monetization in app store to incentivize developers

Thanks <3

Thanks <3
Questions?

phosh

- Homepage <https://phosh.mobi>
- Matrix [#phosh:talk.puri.sm](https://matrix.to/#/phosh:talk.puri.sm)
- Fedi [@phosh@fosstodon.org](https://fosstodon.org/@phosh)
- Donate <https://liberapay.com/Phosh>

devrtz

- Email: devrtz@fortysixandtwo.eu
- Matrix: [@devrtz:fortysixandtwo.eu](https://matrix.to/#/devrtz:fortysixandtwo.eu)
- Fediverse: [@devrtz@fosstodon.org](https://fosstodon.org/@devrtz)
- IRC: [devrtz @ oftc](#)