

Gimme! Gimme! Gimme! (Some good algorithms)



Why Gadgetbridge



[...]

Bluetooth watches, fitness trackers, so much to pair,
Gadgetbridge, you're the answer, we're well aware,
No more vendor lock-ins, no more corporate strings,
Our data stays private, and freedom it brings.

Gadgetbridge, Gadgetbridge, it's the one we crave,
Open-source magic, gonna pave the way,
Connecting devices, bridging every gap,
A project so sweet, like a midnight snack.

Gimme, gimme, gimme that Gadgetbridge,
I want to sync my gadgets, don't you see my wish?
Gimme, gimme, gimme that open-source dream,
No more locked doors, with this software team.

[...]

Gadgetbridge today

> 120 devices

> 330 contributors

> 8 years

Wearables, and more...

45 languages

224 releases

Known knowns

BT/BLE protocols

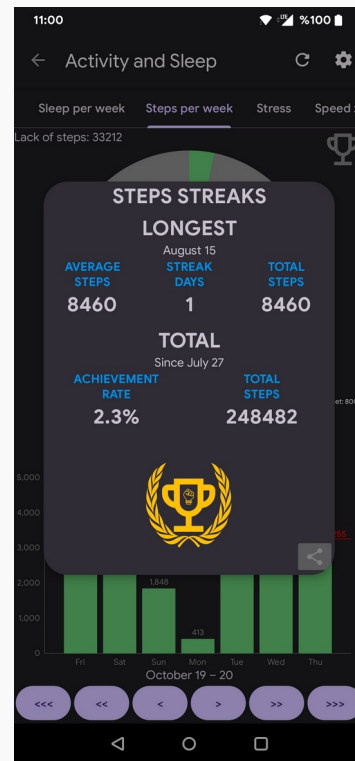
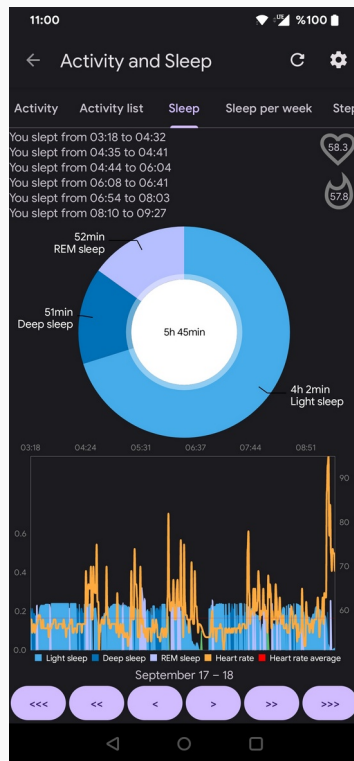
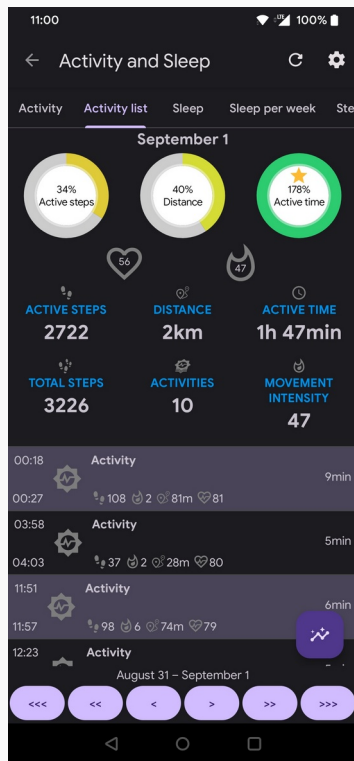
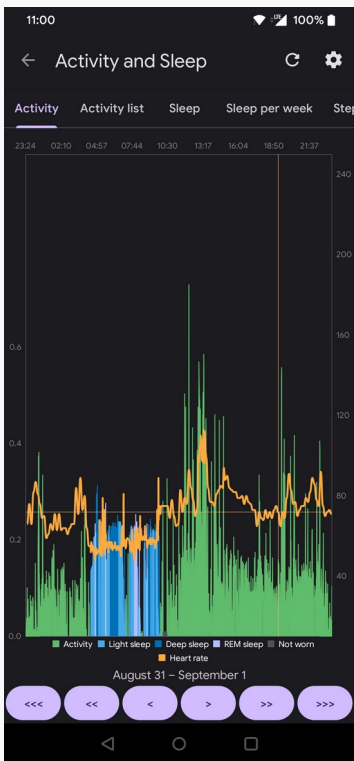
Encryption

“server pairing”

Reverse Engineering

Data visualization

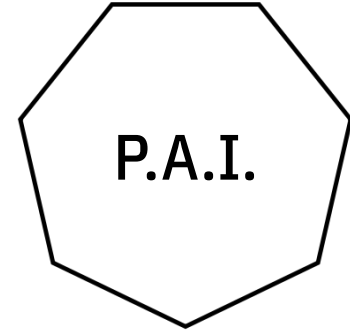
Automation & more



Known unknowns



HRV / RHR



Deep / Light / REM
SLEEP

Stress

SpO2

Roadmap ?

- ✓ Keep on adding new devices
- ✓ Gather as much raw data as possible

We can do this!

- × Generate insights from collected data
- × Find meaningful (and open) algorithms

Who can do this?

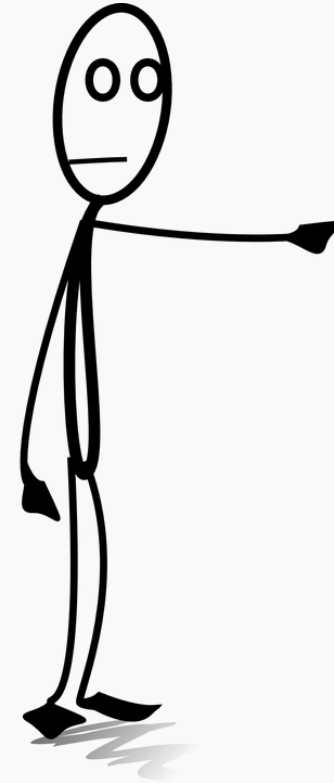
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We can do this!

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You can do this!



Thank you

- Gadgetbridge website: gadgetbridge.org
- Android app – on f-droid
- Source code – on codeberg
- Translations – on weblate
- Community chat – on matrix



About me

- I'm a passionate open source developer and curious person, feel free to call me a hacker.
- Professionally, I'm a freelance consultant, PMP®, Information Engineer with several years of experience in CTO and CEO roles. Innovation, digital strategy and development are my areas of expertise.

Find out more on danielegobbetti.it