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.

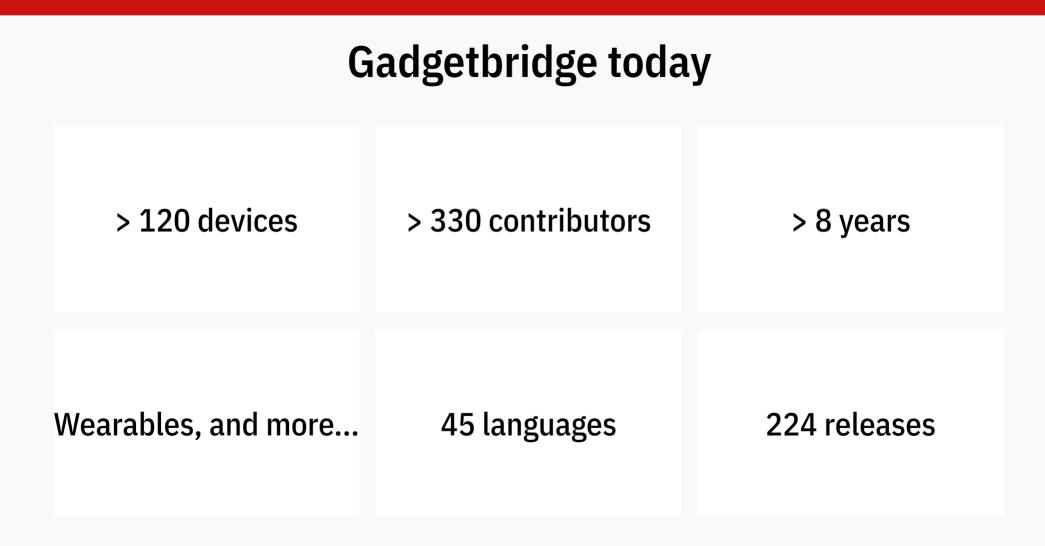
Gadgetbridge, Gadgetbridge, it's the one we crave, Open-source magic, gonna pave the way, Connecting devices, bridging every gap, A project so sweet, like a midnight snack.

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.

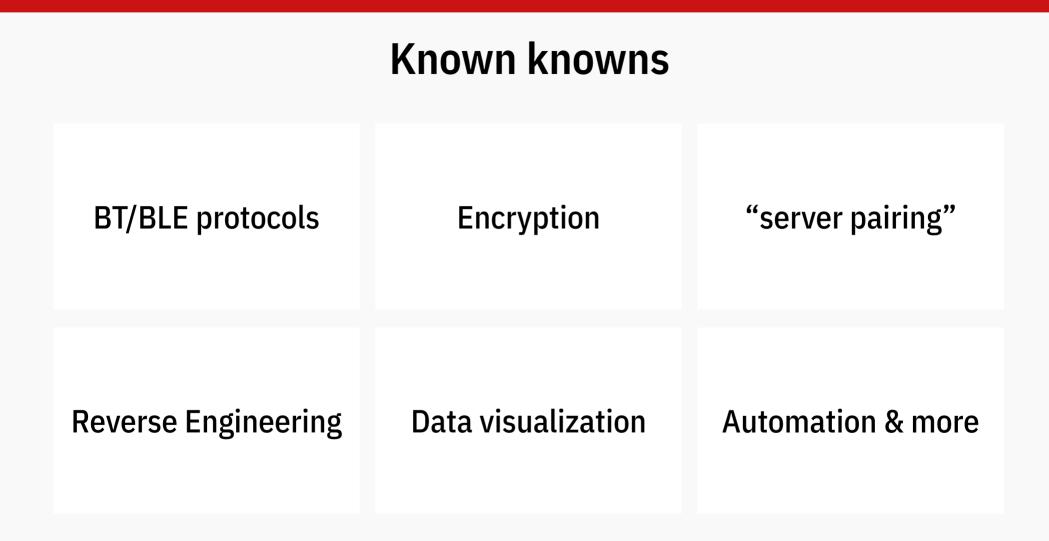
[...]

SFScon 2023

Nina Shimokawa (picture) & GPT-3.5 (lyrics)



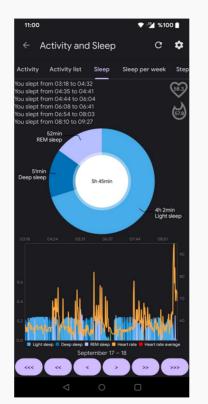
https://gadgetbridge.org



https://gadgetbridge.org

11:00				5	₽ : ™ 100	9% 📋
÷	Activity	/ and	Sleep		C	۵
Activity	Activi	ty list	Sleep	Sleep	per week	Ste
23:24 C						240
						200
0.6						160
						120
0.4						
Λ	. <u>M I</u> I		ЫŴ	My		80
0.2 " W	~~\ U					
	h					40
0.0	Activity	ight sleep			p 🗏 Not worr	,
	~~	August	Heart rate		*	>>>
222			0		<i>"</i>	***

11:00			▼ ¹	100% 📋
← Acti	vity and	Sleep		c 🌣
Activity A	ctivity list	Sleep	Sleep per v	veek Ster
34% Active steps		40% Distance		78% ive time
ACTIVE STER 2722		ා ISTANCE 2km		© ve time I 7min
۹۹ ^۴ TOTAL STEF 3226		CTIVITIES 10		© YEMENT ENSITY 47
Image: A = 1	Activity 108 🗟 2 🔅			9min
	Activity 937 🗟 2 😒	28m 🕫 80		5min
	ctivity ≇98 ⊌ 6 ©			6min ☆
	ctivity August 3	81 – Septem	iber 1	>>>
	\triangleleft	0		



11	:00		% 🕊 💎	100 💼
	Activity	and Sleep	G	\$
	leep per week	Steps per week		Speed zo
ack				ወ
				T
	ST	EPS STREA	KS	
		LONGEST		
		August 15 STREAK		
	steps 8460	DAYS 1	STEPS	
	8460		8460	
		TOTAL Since July 27		
	ACHIEVEM		TOTAL	
	RATE 2.3%		steps 48482	et: 8000
		<i>«</i>		
				255
				<
		1,848	ТТ	
		413		
_	Fri Sat	Sun Mon Tue October 19 – 20	Wed 1	'hu
<-	«) »)	>>>
	4	0		

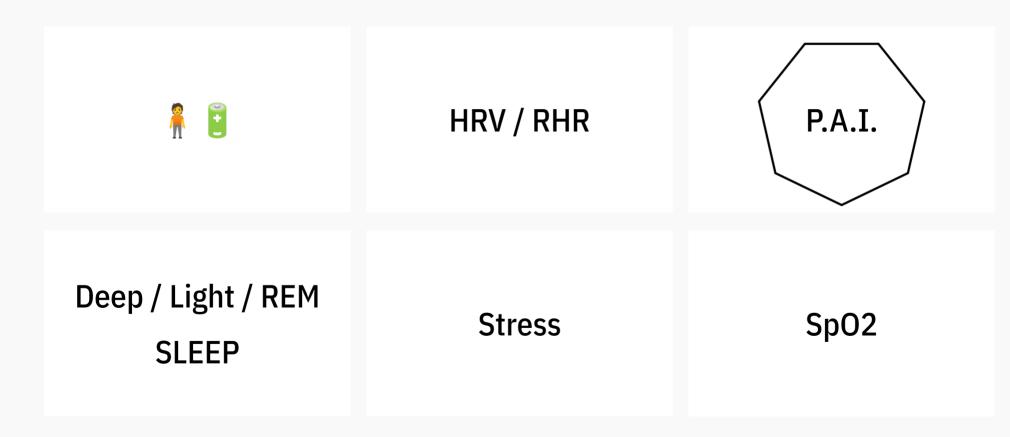
11:00)		▼ ¹⁰	%100 📋	
÷	Sport Activity [) []	Take Scree	enshot	
n.	Walking _{Start}		Show GPS	5 Track	
Λ	End Duration		Share GPS	S Track	
Activi	ty		Dev Tools		
Active				1011111 403	
Heartra				103 bpm	
	eartrate			119 bpm	
	artrate			83 bpm	
Averag Steps	e Stride			78 cm	
Distanc				1570 steps 1228.74 m	
Calorie				80 kcal	
Elevat				oo noar	
	levation			812 m	
Speed				012111	
Max Ca			107 (5 steps/min	
	e Cadence			1 steps/min	
Fastest Pace			6.67 min/km		
Pace			13	.65 min/km	
Averag				4.4 km/h	
Heart	Rate Zones				
N/A				5min 32s	
Warm-	Up			10min 56s	
Traini	ng Effect				
Aerobi	c Effect			0.6	
Worko	ut Load				
12:52					
0.6				240	
			. 🔺	120	
				120	

https://gadgetbridge.org

SFScon 2023

Gadgetbridge docs contributors

Known unknowns



https://gadgetbridge.org

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

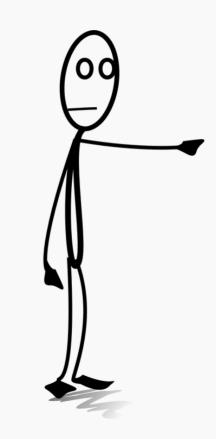
Who can do this?

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

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

	Я
T	1 98
	iRτ.

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