



TAURI 2.0

More memory safe than ever.

Whoami?

Daniel / Denjell

Son, Brother, Father, Uncle

Cofounder of Tauri with Lucas

Chairperson of the Tauri Board of Directors

CEO of CrabNebula

Lifelong community volunteer (over 20k hours)

Not on social media since 2011

What is Tauri?

Tauri is a framework to make GUI Hybrid apps for any desktop and (almost any) mobile device.



- A great way to learn Rust
- Secure by design
- Hardened JS API to interact with Rust-core
- Feature opt-in for implicit tree shaking
- webview / egui / wgpu
- Tiny binaries (usually ~8MB - sometimes <1MB)
- Fearless (concurrency), blazing (fast), safe & fun

More than a PWA



r/github · 8 days ago
automatic_purpose_



I am new to GitHub and I have lots to say

I DONT GIVE A [REDACTED] ABOUT THE [REDACTED] CODE! i just want to download this stupid [REDACTED] application and use it
<https://github.com/sherlock-project/sherlock#installation>

WHY IS THERE CODE??? MAKE A [REDACTED] .EXE FILE AND GIVE IT TO ME. these [REDACTED] think that everyone is a developer and understands code. well i am not and i don't understand it. I only know to download and install applications. SO WHY THE [REDACTED] IS THERE CODE? make an EXE file and give it to me. [REDACTED]
NERDS

More than a PWA



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I am new to GitHub and I have lots to say

I DONT GIVE A FUCK ABOUT THE FUCKING CODE! i just want to download this stupid fucking application and use it
<https://github.com/sherlock-project/sherlock#installation>

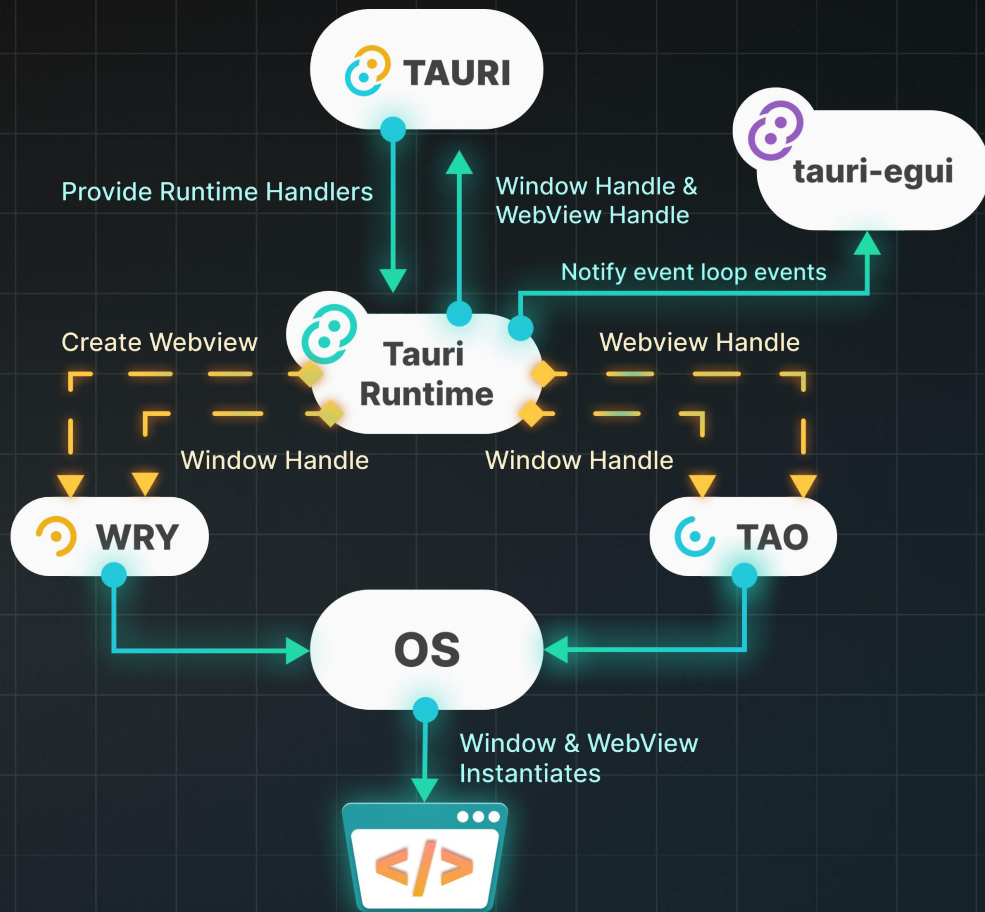
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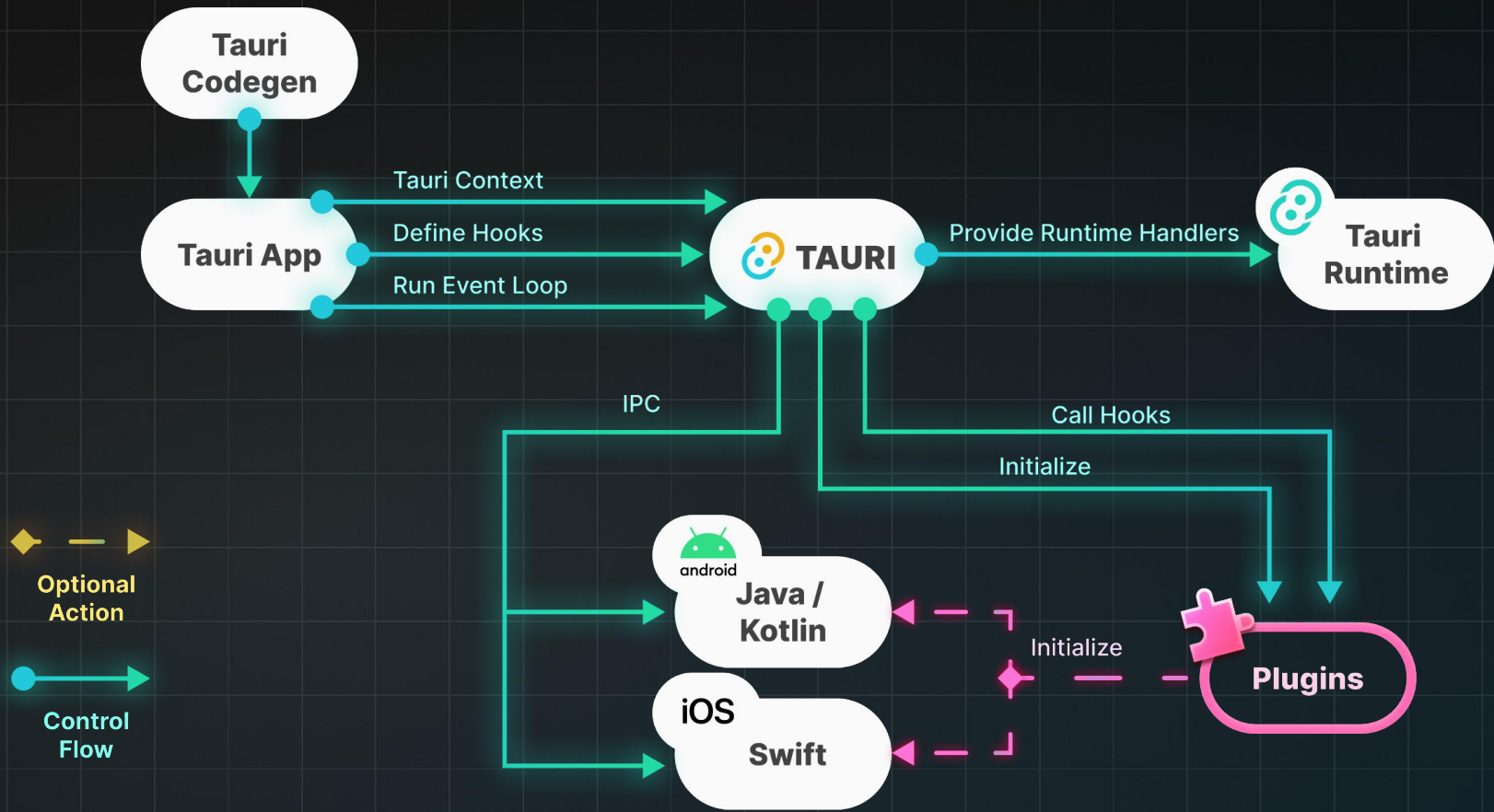
What is Tauri made of?

- Rust core
- Winit / Tao
- Wry / egui / wgpu
- Muda / menubar
- npx create tauri-app
- System Webview (someday Servo)
- Plugin architecture with full JS and Rust API

Who is Tauri made by?

- A community of over 15000 people, like you!
- A volunteer ~~fire department~~ working group
- A foundation (Commons Conservancy)
- Its partner CrabNebula Ltd.
- Contributors solving their own problems
- Rustlang and MANY other upstream communities





What about security?

- Trusted security that is verified continuously
- Internal security audits for minor releases
- External security audits for major releases
- IPC exposure configuration at compile time
- Use only what you need
- Tauri app asset signing for updates
- Partnerships with ROS, CrabNebula and NLNET

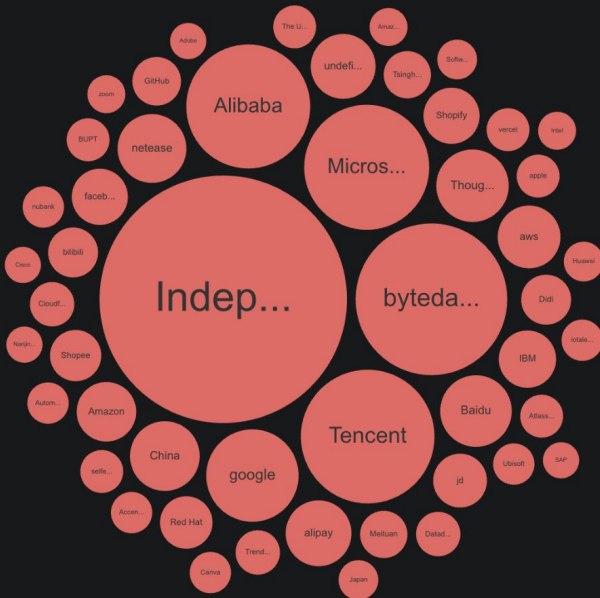
What platforms can we build for?

- macOS
- Windows
- Linux
- iOS
- Android

Who has given us 75k stars?

● tauri-apps/tauri

Stargazers' Companies















Top 10 Companies

Independent	0.6%
bytedance	0.2%
Tencent	0.2%
Microsoft	0.2%
Alibaba	0.1%
google	0.1%
ThoughtWorks	0.1%
Baidu	0.1%
China	0.1%
netease	0.1%

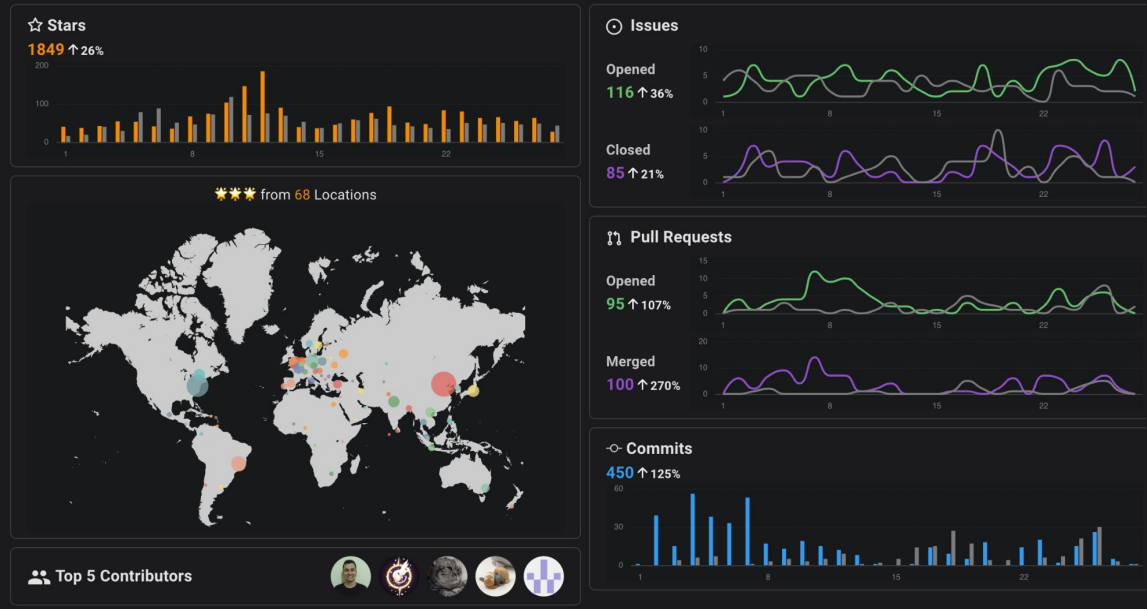
What else is out there?

Last 28 days Ranking - Stars

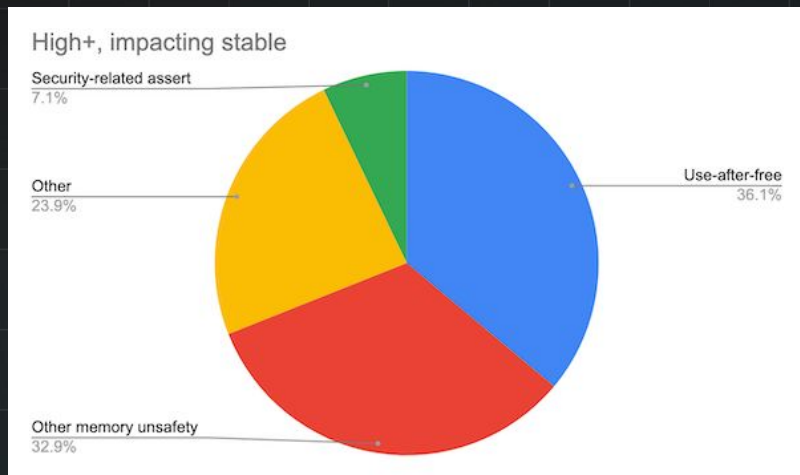
Last 28 Days	Repository	Stars	Total
1	 tauri-apps/tauri	1801 ↑24%	76.71k
2	 flutter/flutter	936 ↑6.2%	172.51k
3 ↑1	 facebook/react-native	843 ↑41.9%	125.97k
4 ↑1	 electron/electron	485 ↓12.6%	124.25k
5 ↓2	 wailsapp/wails	468 ↓35.3%	21.94k
6 ↑2	 iced-rs/iced	427 ↑54.2%	22.05k
7	 fyne-io/fyne	237 ↓23.8%	23.6k
8 ↓2	 ionic-team/ionic-framework	145 ↓54.1%	57.64k
9	 NativeScript/NativeScript	122 ↑14%	25.79k
10 ↑1	 neutralinojs/neutralinojs	86 ↑115%	7.36k
11 ↓1	 infinitered/reactotron	68 ↑3%	15.38k
12	 alibaba/weex	13 ↓38.1%	20.09k

Is it healthy? (Yes.)

Repository Statistics - Last 28 Days



Make safe.



<https://www.chromium.org/Home/chromium-security/memory-safety/>

WH.GOV



FEBRUARY 26, 2024

PRESS RELEASE: Future Software Should Be Memory Safe



Microsoft revealed at a conference in 2019 that from 2006 to 2018 70 percent of their vulnerabilities were due to memory safety issues

<https://www.zdnet.com/article/microsoft-70-percent-of-all-security-bugs-are-memory-safety-issues/>

Who is building with it?



✦ Fig is now part of Amazon CodeWhisperer



Spacedrive



appflowy

Kino AI



Cody



GitButler



Hoppscotch



Yaak



Pathfinder

Shall we try a Demo?

Go for it.



Extra slide if demo broke



Demo thanks a lot

This work was a collab between **Sam Willis** from **ElectricSQL** & **Denjell** + **Lucas** from **CrabNebula**:

> ElectricSQL is an open source platform for building local-first software. It provides a sync layer that works on top of standard open source Postgres and a programming model that solves the concurrency challenges with local-first software development.

Proud partners of Tauri



Igniting the Tauri community's potential by empowering devs with:

- A cutting-edge OSS Tauri app debugger
- Best-in-class app distribution system
- Expert security guidance
- Unwavering support through CrabNebula dedicated Tauri contributors.

(over 1200 hours since October 2023)

check us out at crabnebula.dev



شكراً

感谢您

Tack!

Danke



TAURI 2.0

Gracias

Thank you.

Merci

ありがとう

Bedankt