



ATUIN

Keeping history in sync with turtles and magic
Or: the same shell history, everywhere.

github.com/ellie/atuin

> whoami

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The Great A'tuin
(art by Paul Kidby)

What is Atuin? 🐢

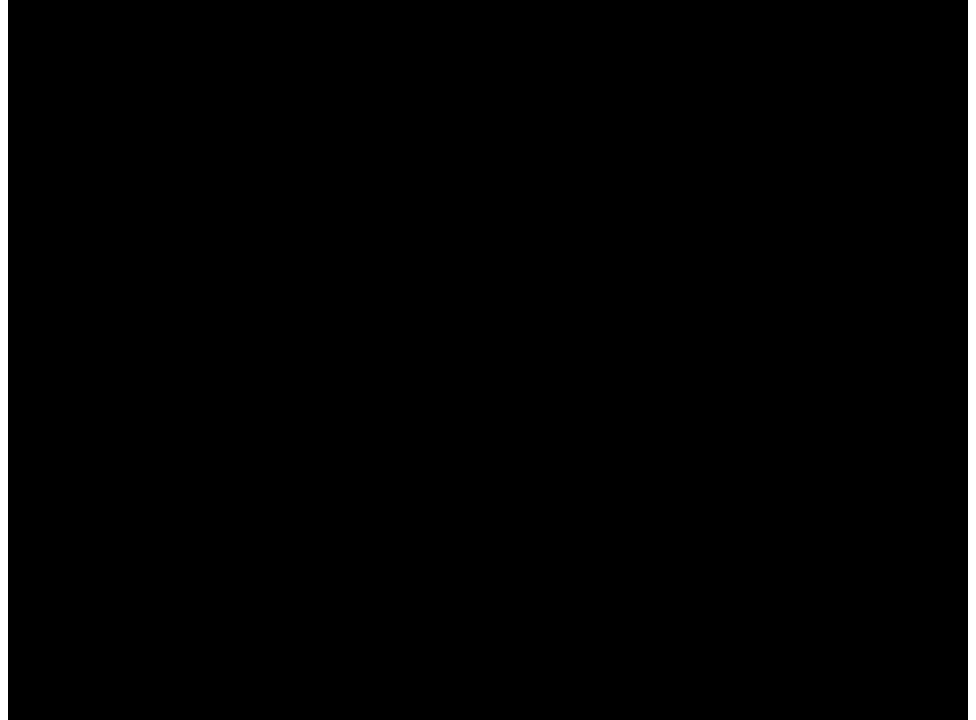
- Sync shell history between machines
- Replace `.zsh_history/etc` with SQLite
- Import existing history
- Adds extra context
- Plugs into prompt or shell hooks



ATUIN

The UI

- Search TUI on ctrl-r + up
 - Totally remap-able
- Search modes
- Filter modes



Extra context

- Fun stats 🕶️
- Day, week, month
- Could definitely do way more

```
🦄 atuin stats
```

Statistic	Value
Most used command	ls
Commands ran	37878
Unique commands ran	12355

Shell search interface

```
🐉 atuin search --exit 0 --after "yesterday 3pm" '^git'  
2023-01-25 15:00:09 git checkout main 46ms  
2023-01-25 22:32:46 git add . 34ms  
2023-01-25 22:32:53 git commit -m "Add a bunch of image modifiers" 39ms  
2023-01-25 22:58:22 git add pkg/ 18ms  
2023-01-25 22:58:27 git commit -m "Correct quality range" 30ms  
2023-01-25 22:58:28 git push 2s  
2023-01-26 14:22:56 git add terraform/environments/README.md 23ms  
2023-01-26 14:22:57 git status 31ms
```

- Very specific search
- Integrate with other tools (eg fzf)

Sync server 🚀

- HTTP API
 - Just stores blobs
 - Originally warp, now axum
 - Warp was fun, but axum is neater + faster to compile
- Self-hostable
 - “atuin server”, docker, k8s
- Sync is not yet truly real-time, but can be close to it

Public deployment

- 11 million+ lines of shell history
- 300+ active users
- One Hetzner box
- Thank you sponsors!

Encryption

- Fully e2e encrypted
- I don't want to see your history!
- libsodium SecretBox
 - Finding reliable bindings was difficult...
- Key auto generated
- Key required for sync

Why Rust?

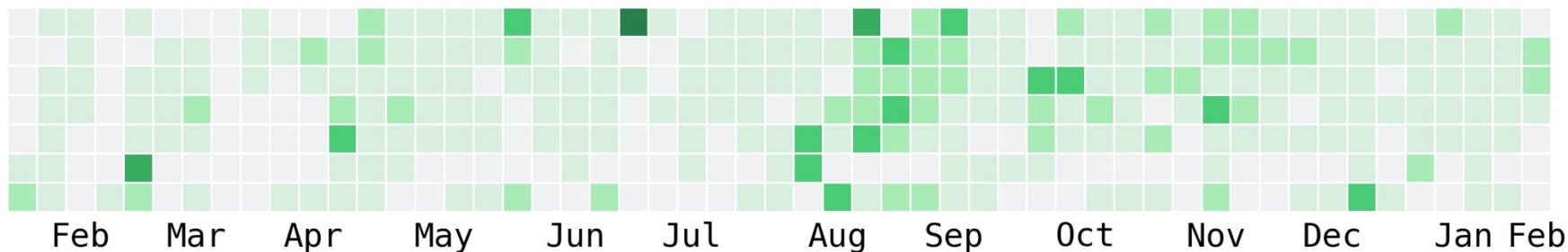
- Atuin runs twice for every shell command
- It needs to be fast + low latency
- It needs to be reliable
- Static binary
- Rust is safe!
- Rust is fun (especially vs Go)
- The community is fantastic

Rincewind

Shell History

2022

2023



Longest Streak: 19 days

<https://atuin.sh>

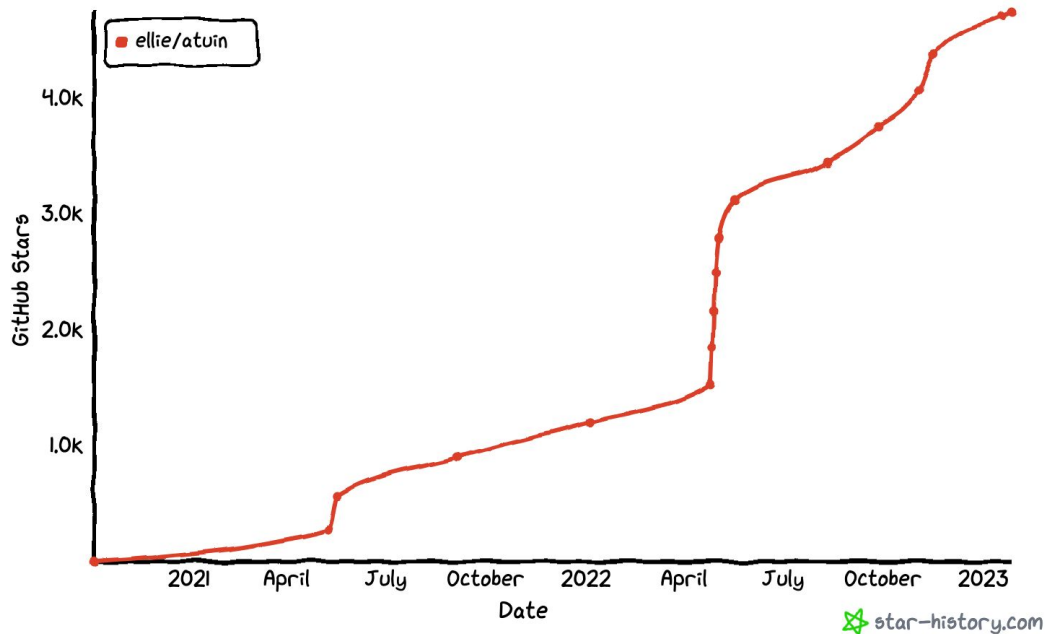
- Notice a naming theme?
- Closed source (because it's gross)
- Quick hack in Python (numpy...)
- Opt-in

Open source



 Star History

Align timeline



- I just made it for me, but people like it? 🤖
- We ended up in a bunch of package repos
- People contributing (63!)
- Thank you Conrad <3

The future 🚀

- DELETIONS! ❌
- Sort out bash 😬
- More info exposed in TUI
- Improved search
- Better sorting

The even further future

- Dev secrets storage?
- Favourite commands?
- Runbook recording?



magical shell history

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[English](#) | [简体中文](#)

Atuin replaces your existing shell history with a SQLite database, and records additional context for your commands. Additionally, it provides optional and *fully encrypted* synchronisation of your history between machines, via an Atuin server.

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