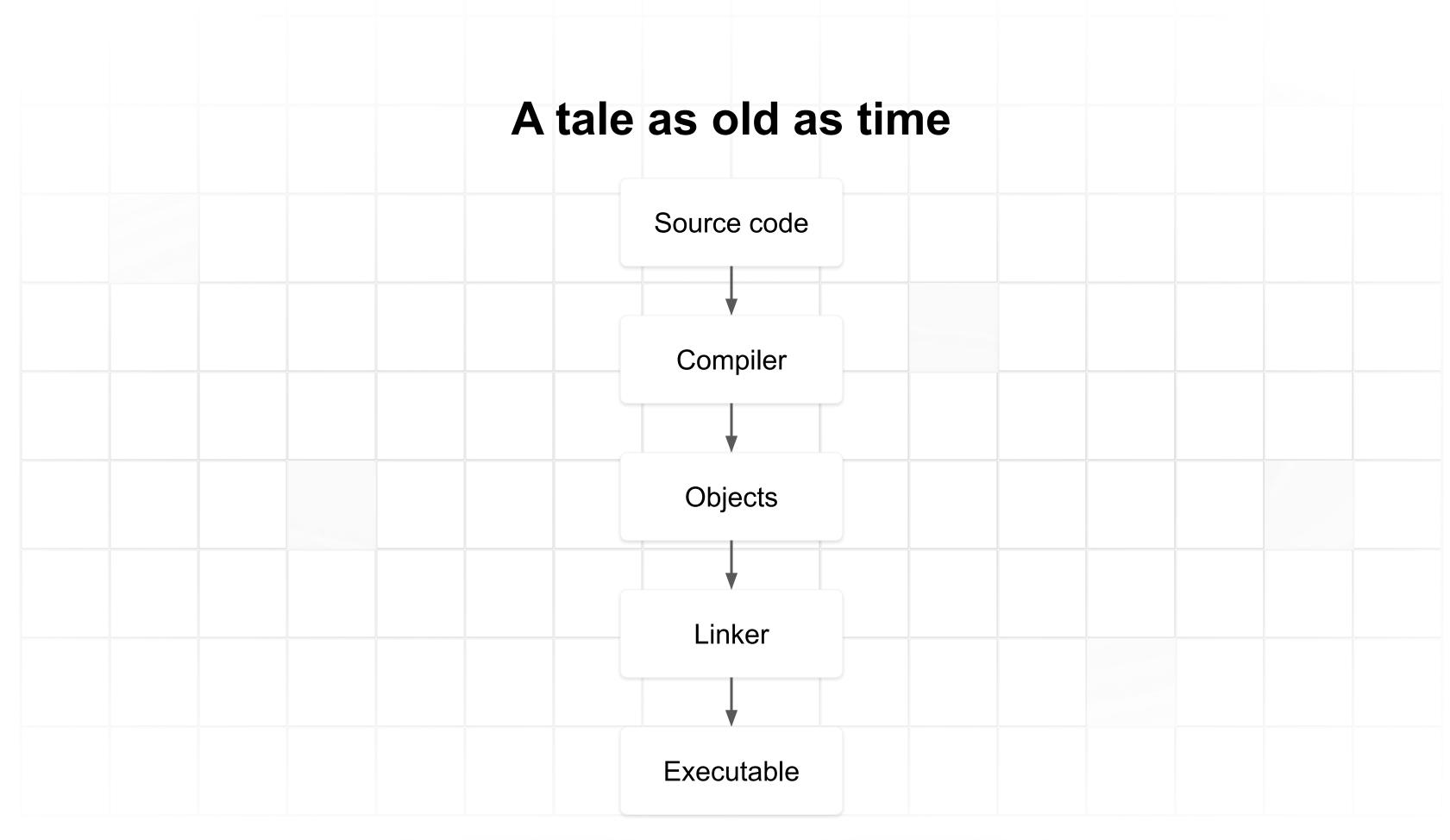


Nixifying your provisioning problems with Nix & OpenTofu

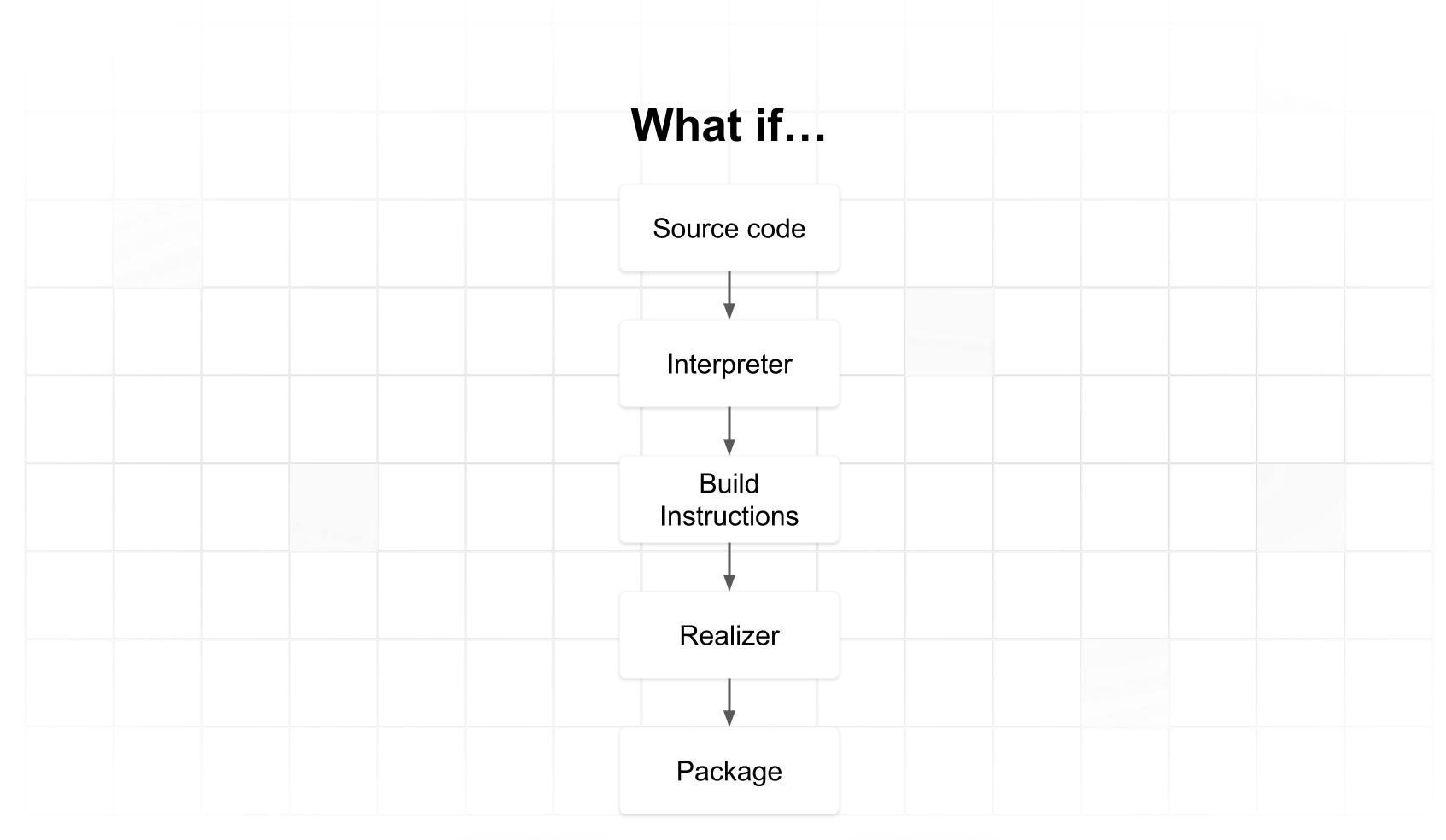
Bryan HONOF

Let's start with an idea

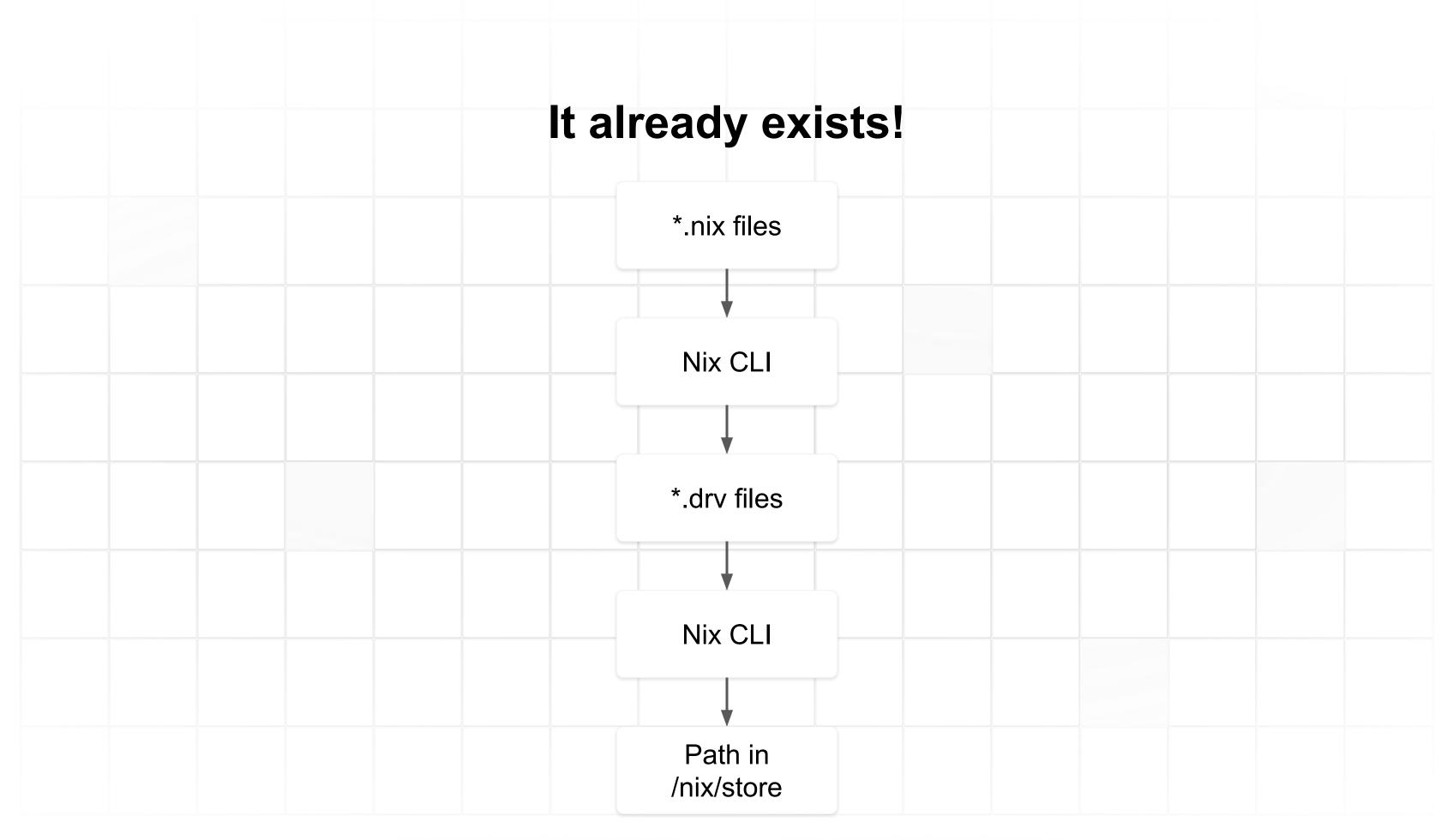














So, what is Nix?



Well...



The term "Nix" is overloaded

Nix, as in the CLI tool you interface with

Nix, as in the language you write into *.nix files

Nix, as in nixpkgs the package repository

Nix, as in NixOS the Linux distribution

And a bunch of community projects having Nix somewhere in their name



The term "Nix" is overloaded Nix, as in the CLI tool you interface with Nix, as in the language you write into *.nix files Nix, as in nixpkgs the package repository Nix, as in NixOS the Linux distribution And a bunch of community projects having Nix

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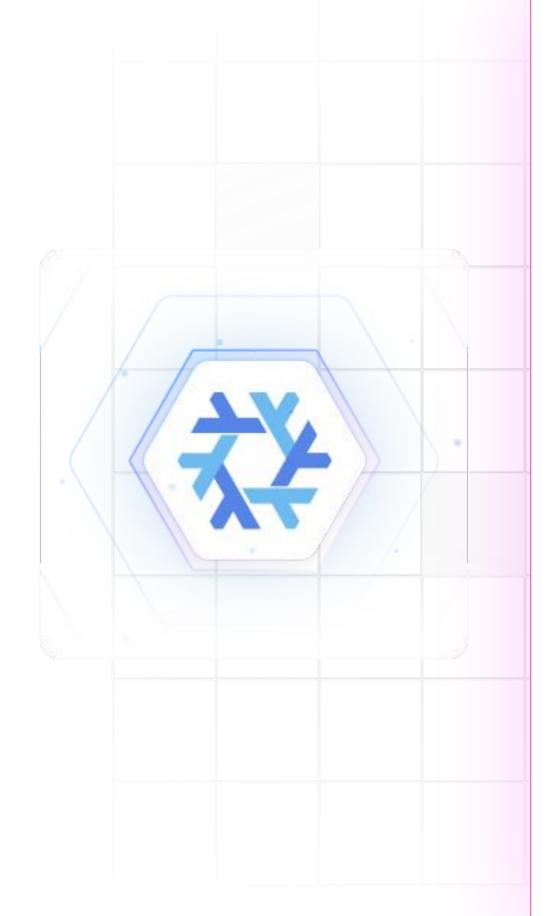


Great, another package manager 🙄









```
$ # What Python do I currently have?
$ python --version
zsh: command not found: python
$ # Oh...
$ # Let me hop in a shell with Python
$ nix shell --impure nixpkgs#python2
$ python --version
Python 2.7.18.8
$ # Wait, didn't Python 2 get deprecated?
$ exit
$ nix shell nixpkgs#python3
$ python --version
Python 3.11.8
$ # Back to my clean shell we go
$ exit
$ python --version
zsh: command not found: python
$ # I also don't need these packages anymore
$ nix store gc
```



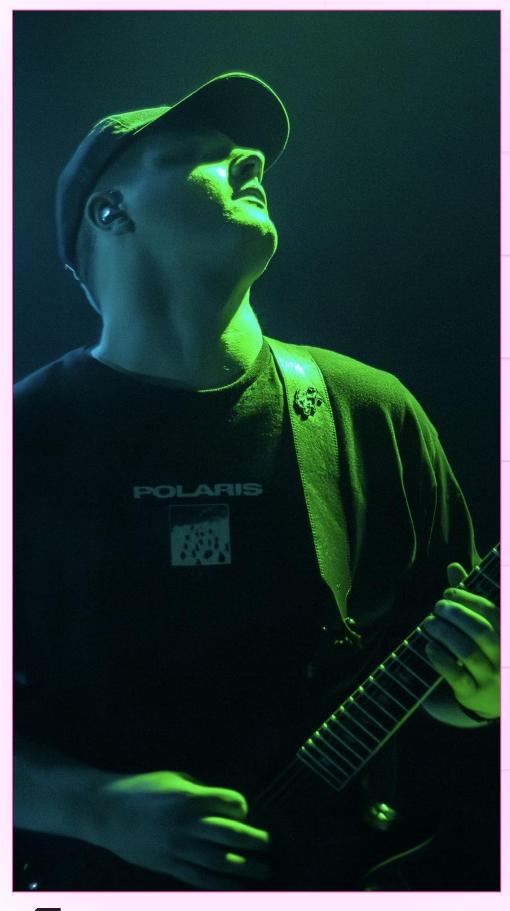
Wait, multiple versions of the same software?





Let's do some software spelunking





\$ whoami

name: Bryan HONOF

role: Software Engineer @ Flox

email: bryan@flox.dev

www: www.bryanhonof.be

socials:

- @bryanhonof@mastodon.social

- 🐦 @HonofBryan

- 🧳 in/bryanhonof



```
zsh
$ nix profile install nixpkgs#opentofu
```



```
1第7 🔵 🔾 🔞
                                     zsh
$ tofu --version
OpenTofu v1.6.2
on darwin_arm64
$
```



```
0 0 0 7 第1
                                     zsh
$ which tofu
/Users/bryanhonof/.nix-profile/bin/tofu
```



```
zsh
$ realpath "$(which tofu)"
/nix/store/y3iw1qvpzqzrk9azg9mm94hi6kzcbalr-opentofu-1.6.2/bin/tofu
```

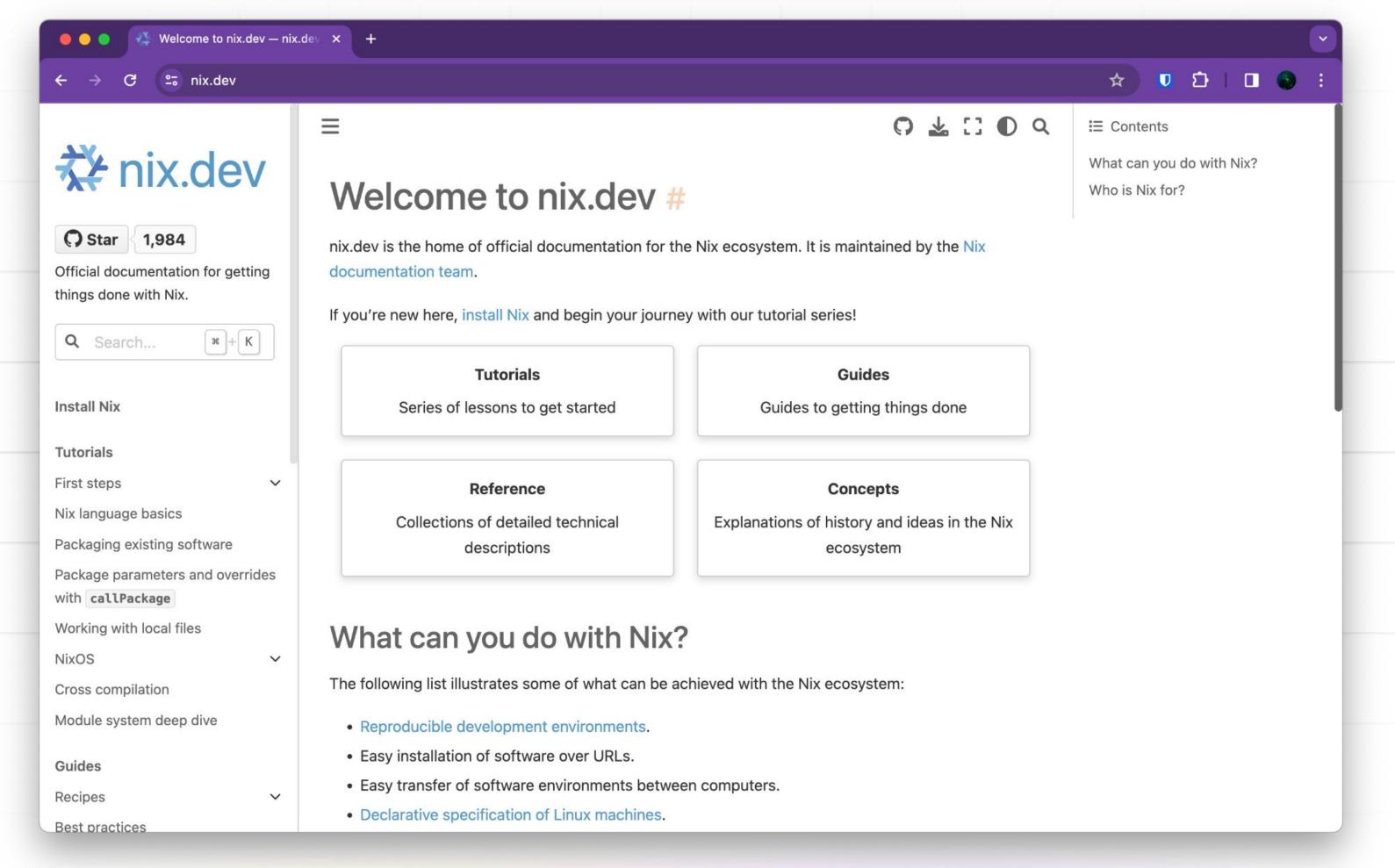


```
13次 🔵 🔾 🔞
                                  zsh
$ ls "$(nix eval --raw nixpkgs#opentofu.outPath)"
bin share
$ ls "$(nix eval --raw nixpkgs#opentofu.outPath)/share"
bash-completion
$ ls "$(nix eval --raw nixpkgs#opentofu.outPath)/bin"
tofu
```

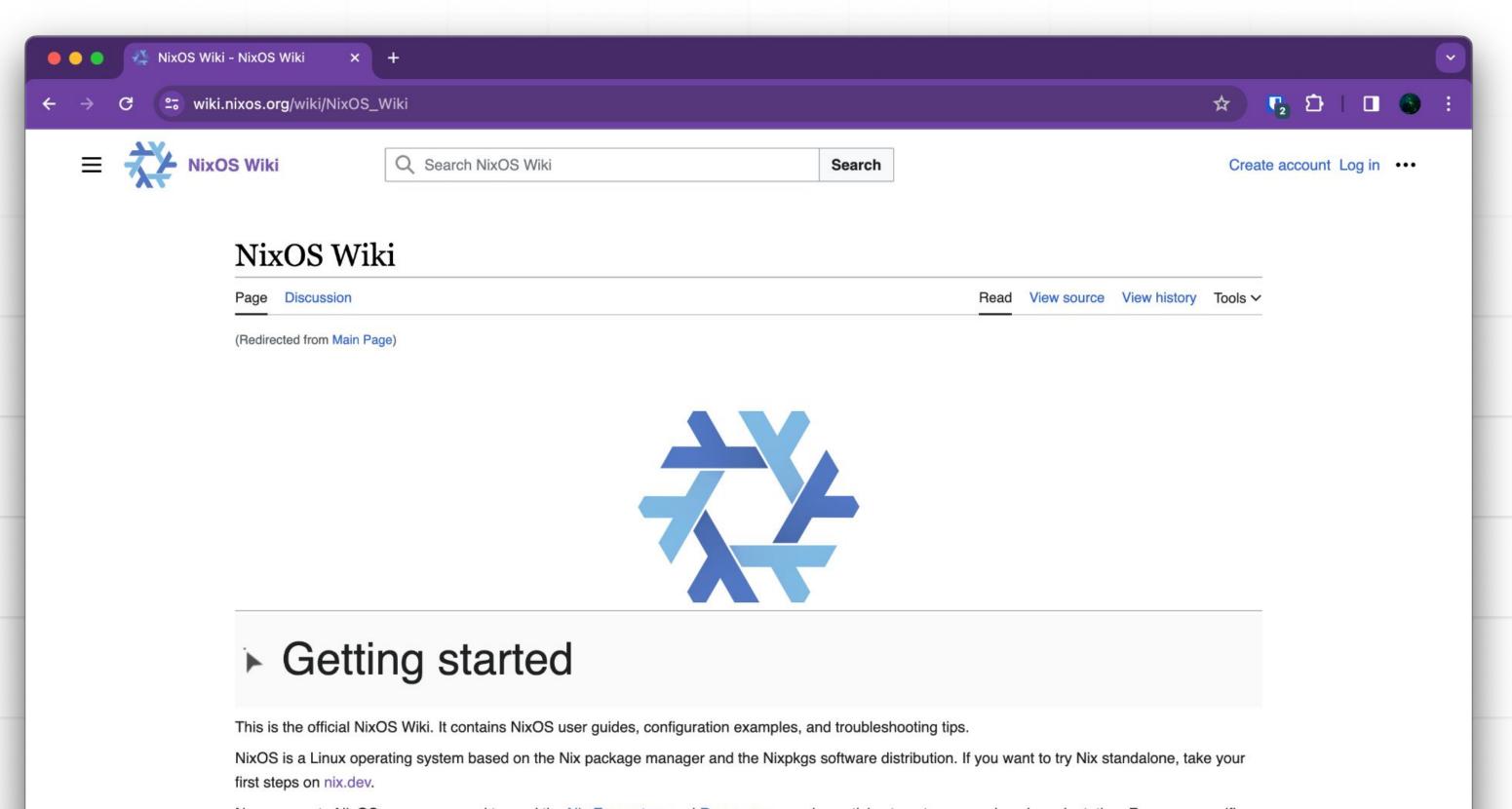


Let me demo this live!









Newcomers to NixOS are encouraged to read the Nix Ecosystem and Resources overview articles to get a comprehensive orientation. For more specific introductions, see:

- Nix Package Manager
- Nix Language
- Nixpkgs



