

Miroslav Jonas / @meeroslav

The Age of Monorepos

agent.sh / monorepo.tools / nx.dev / nrwl.io



Miroslav Jonas
engineer at  Nrwl
[@meeroslav](https://twitter.com/meeroslav)



vienna.js

Mono- what?



Static Web (pre JS era)

Yahoo - A Guide to WWW

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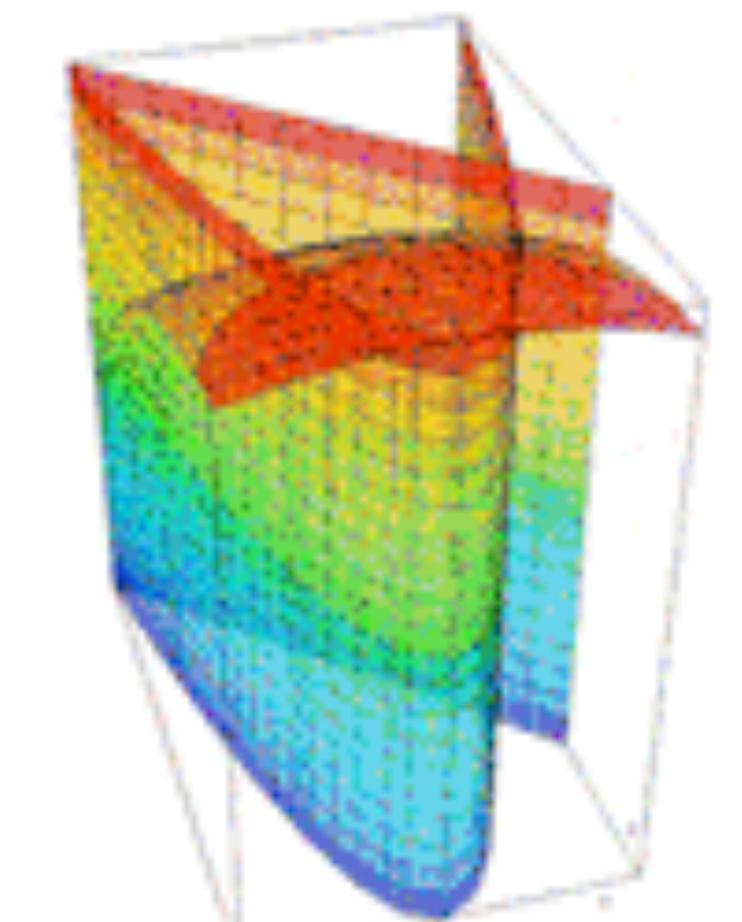
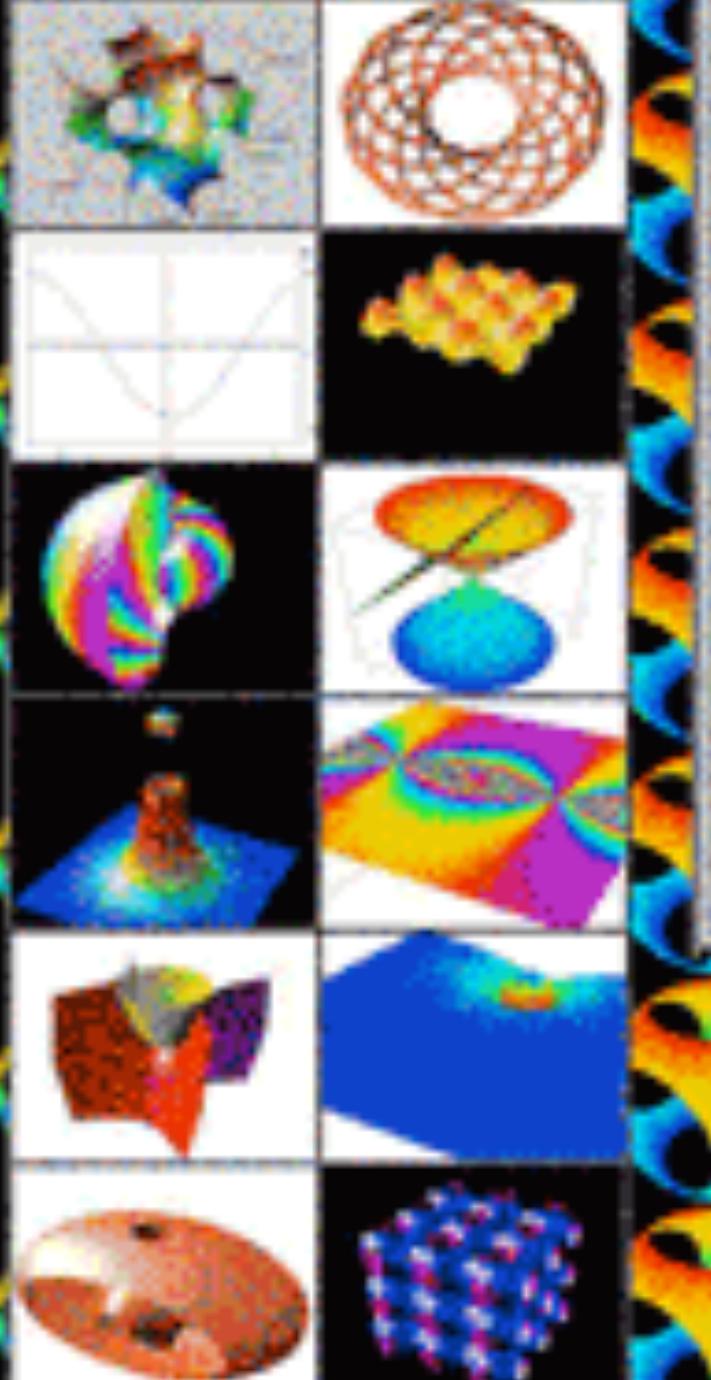
**UNDER
CONSTRUCTION**

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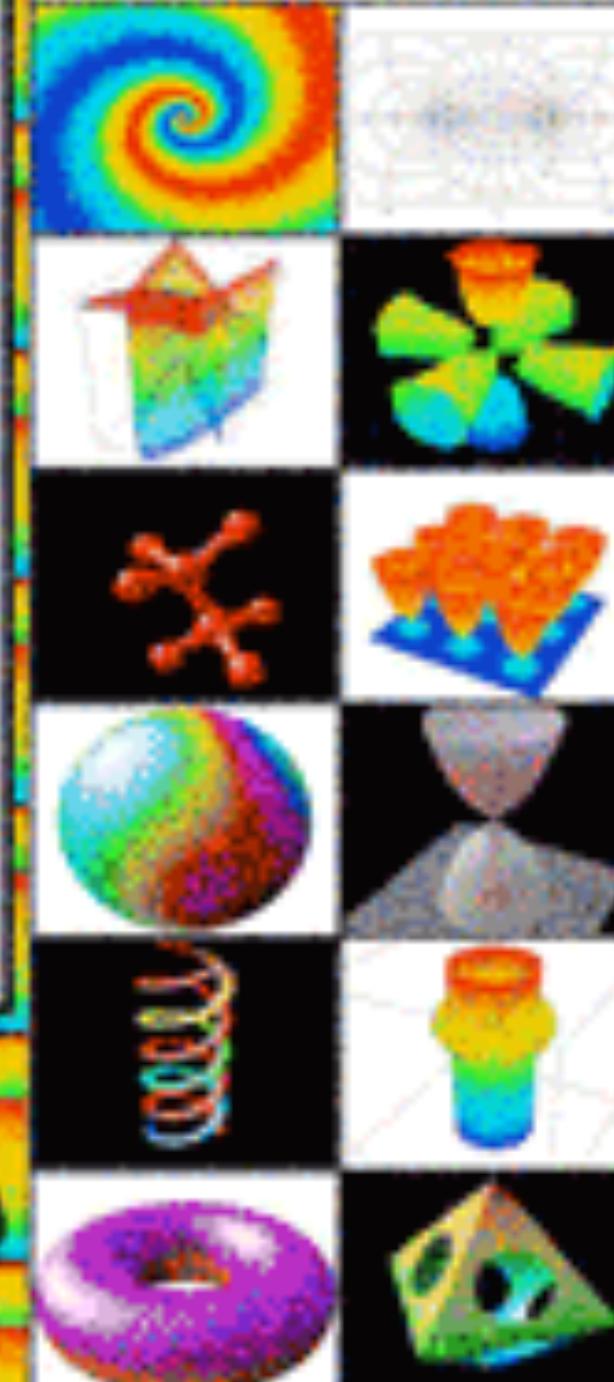
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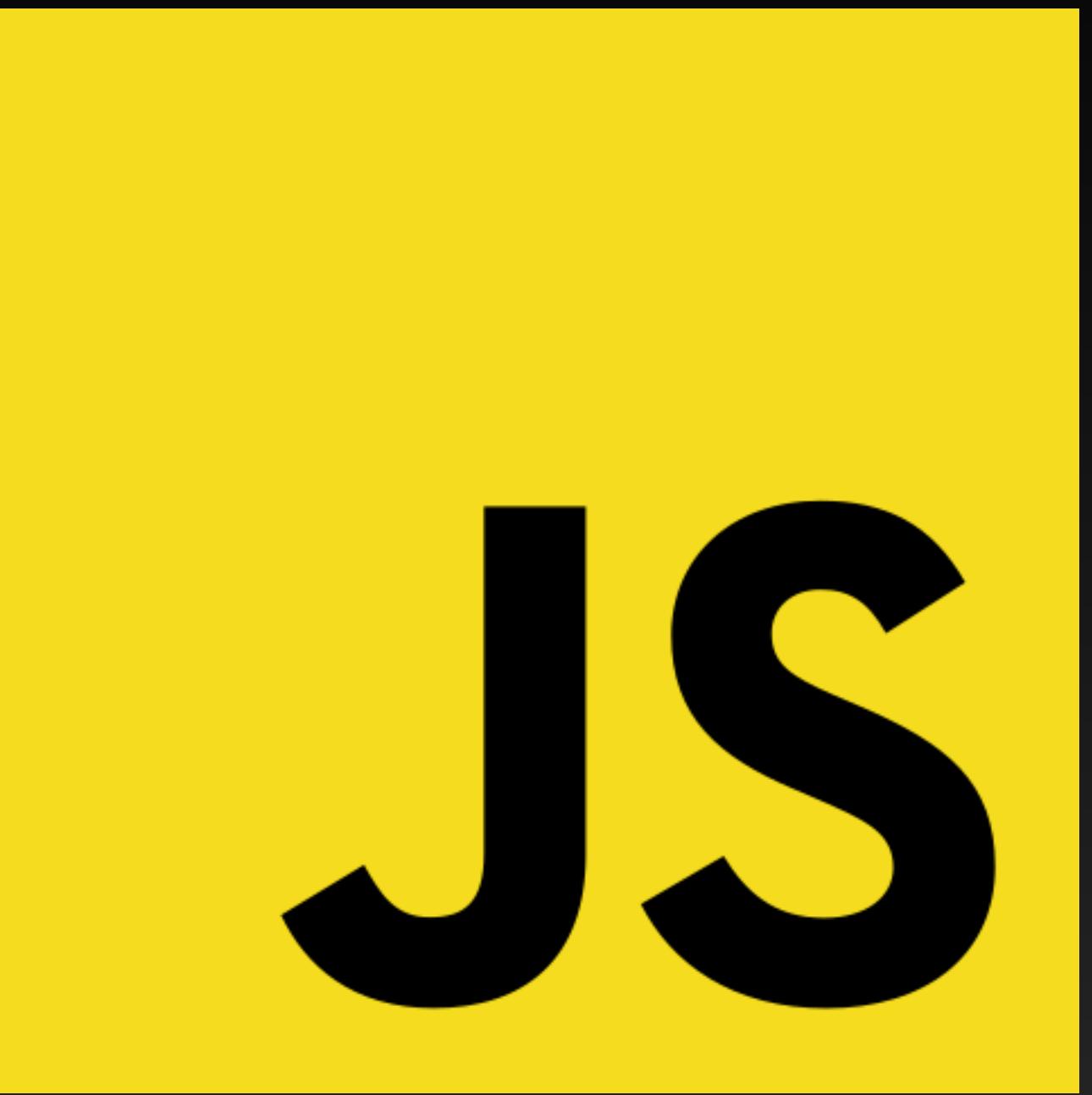
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Age
of
Scripting

ACCEPT JESUS, FOREVER FORGIVEN

Behold, now is the accepted time; behold, now is the day of salvation. - 2 Cor. 6:2

**For the wages of sin is death;
but the gift of God is eternal life
through Jesus Christ our Lord.**

-Romans 6:23

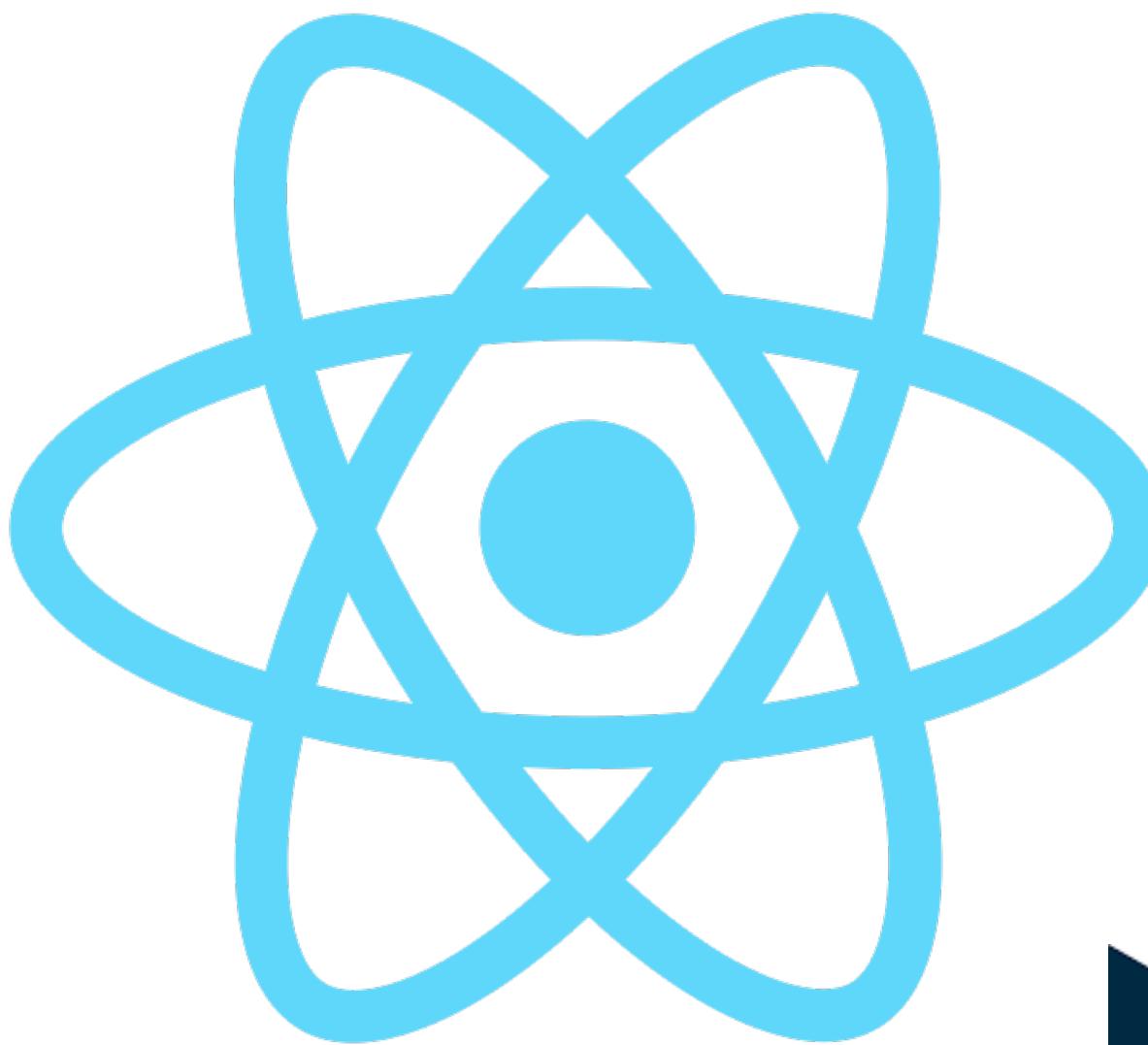
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Age
of
jQuery

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NEXT.JS



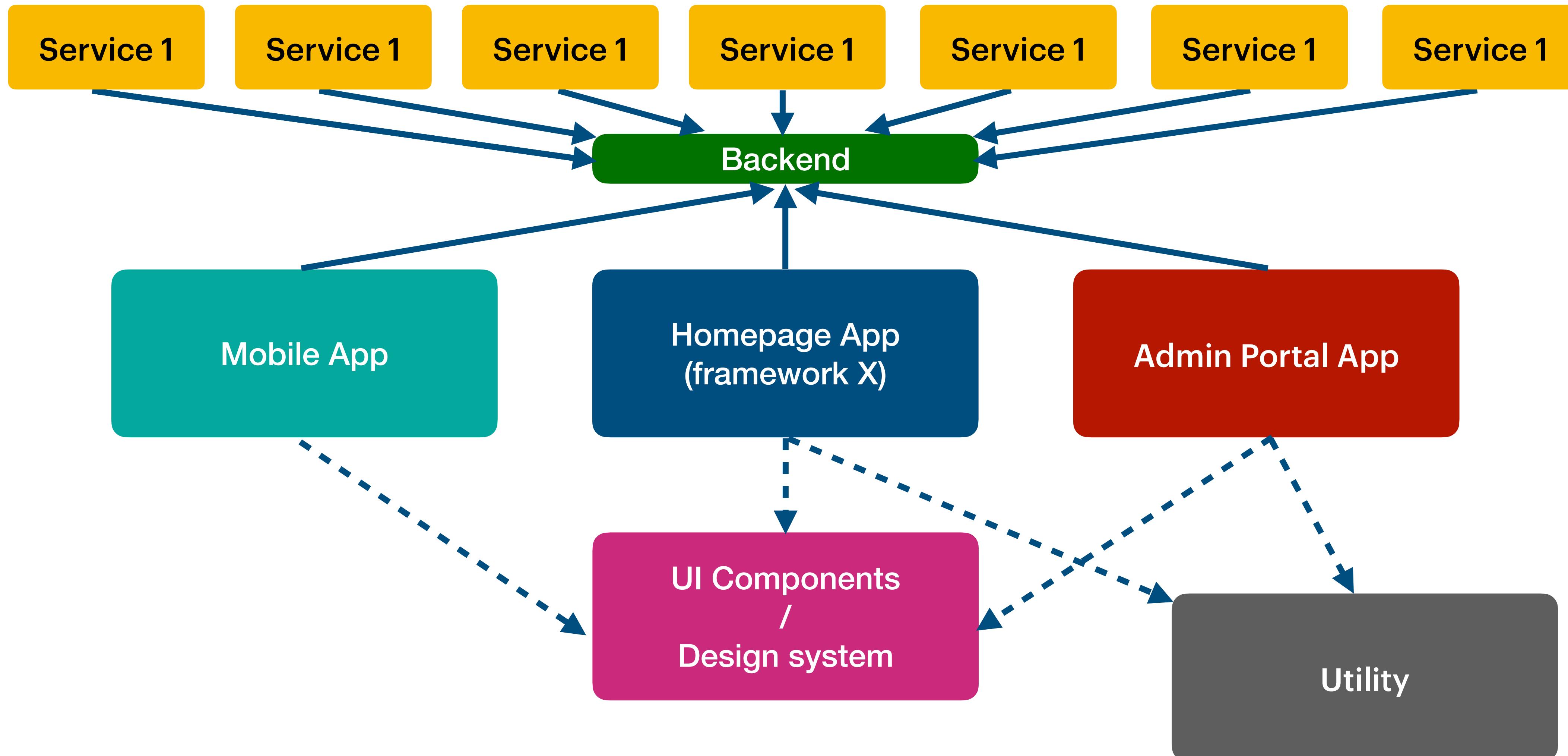
Remix



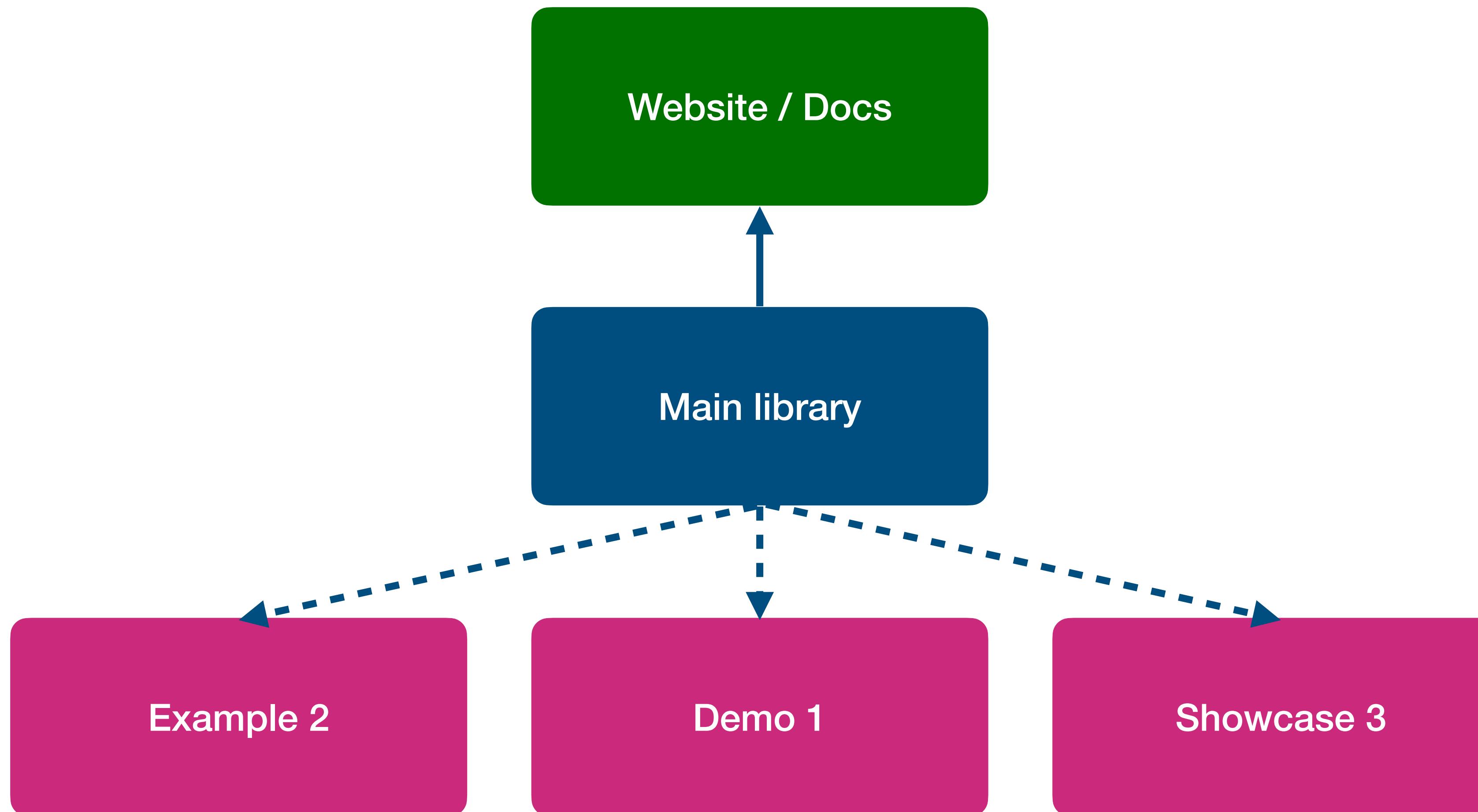
Qwik

Age of Monorepos

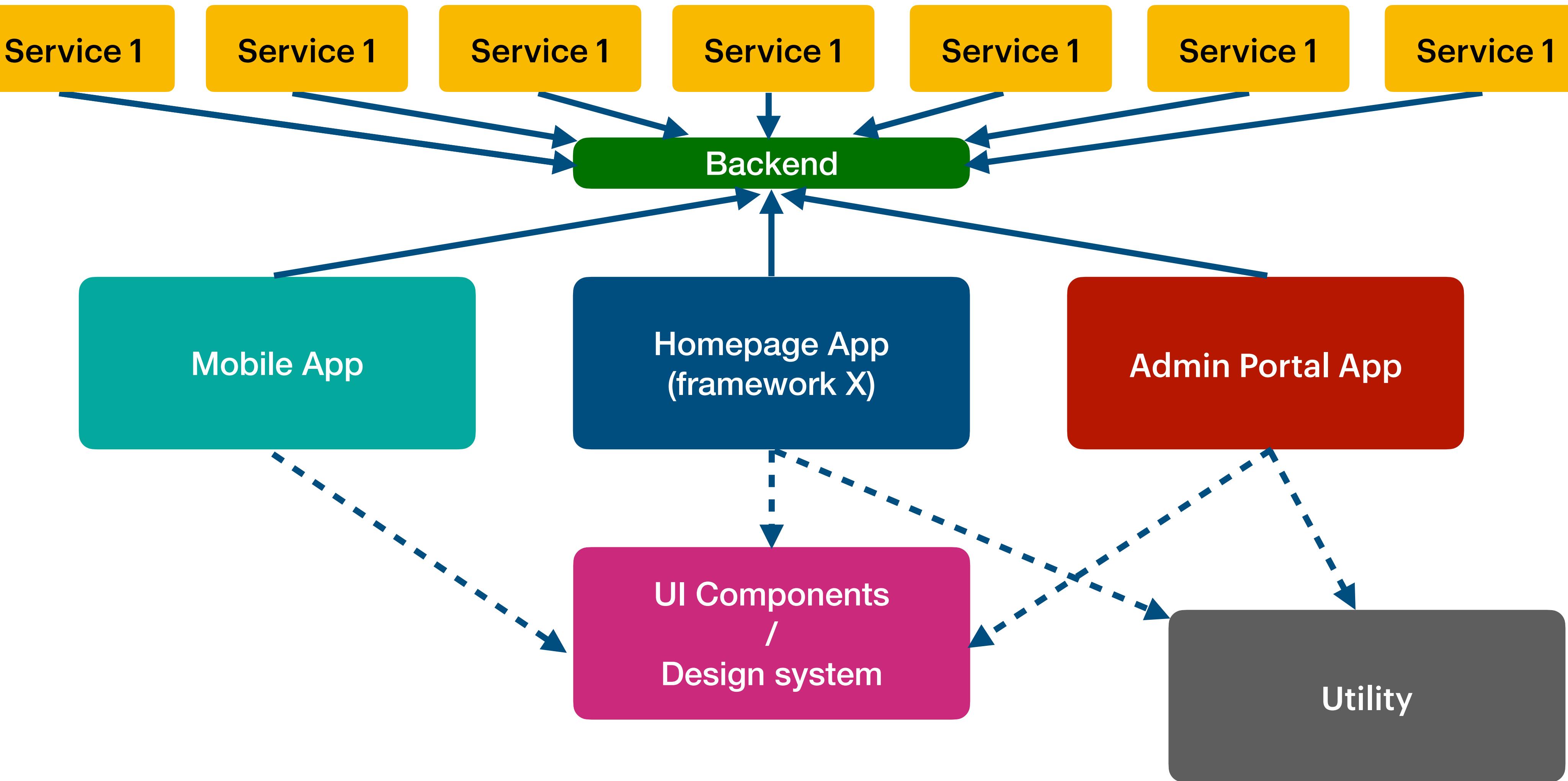
Every application*



Every open source*



Collocate



Code sharing



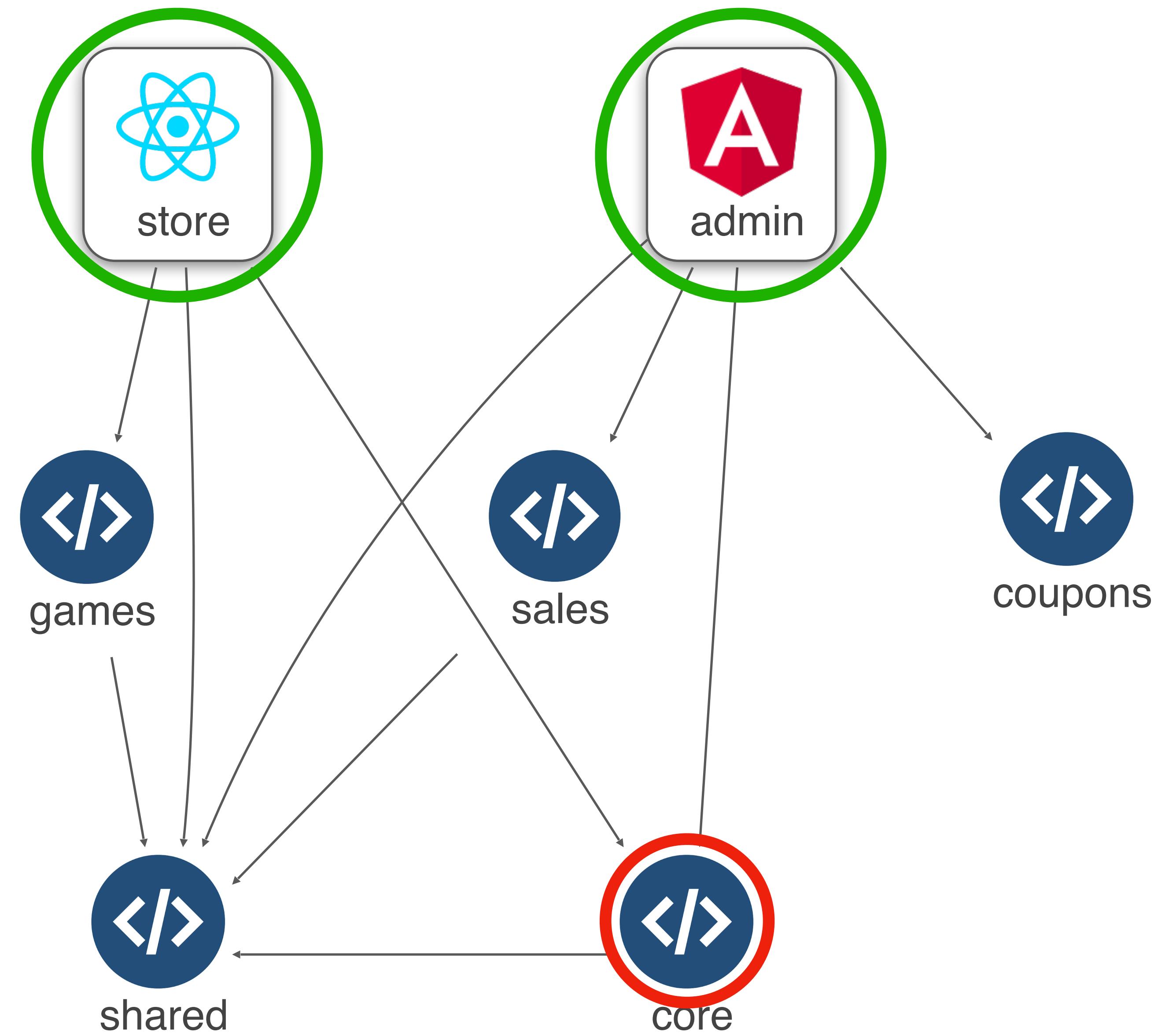
```
// super sophisticated authentication method
function amazingAuth(username: string, password: string): boolean {
  return username === 'admin' && password === '1234';
}
```

NOT
Just collocation



Speed matters

Rule 2: Find affected graph



Analysing and visualizing your workspace.

lib name, other lib name

Include related libraries
Show libraries that are related to your search.

Show all projects

Hide all projects

Group by folder
Visually arrange libraries by folders with different colors.

Activate proximity
Explore connected libraries step by step.

- 1 +

app projects

DEP-GRAF

dep-graph-client

E2E

e2e-add-nx-to-monorepo

e2e-angular-core

e2e-angular-extens...

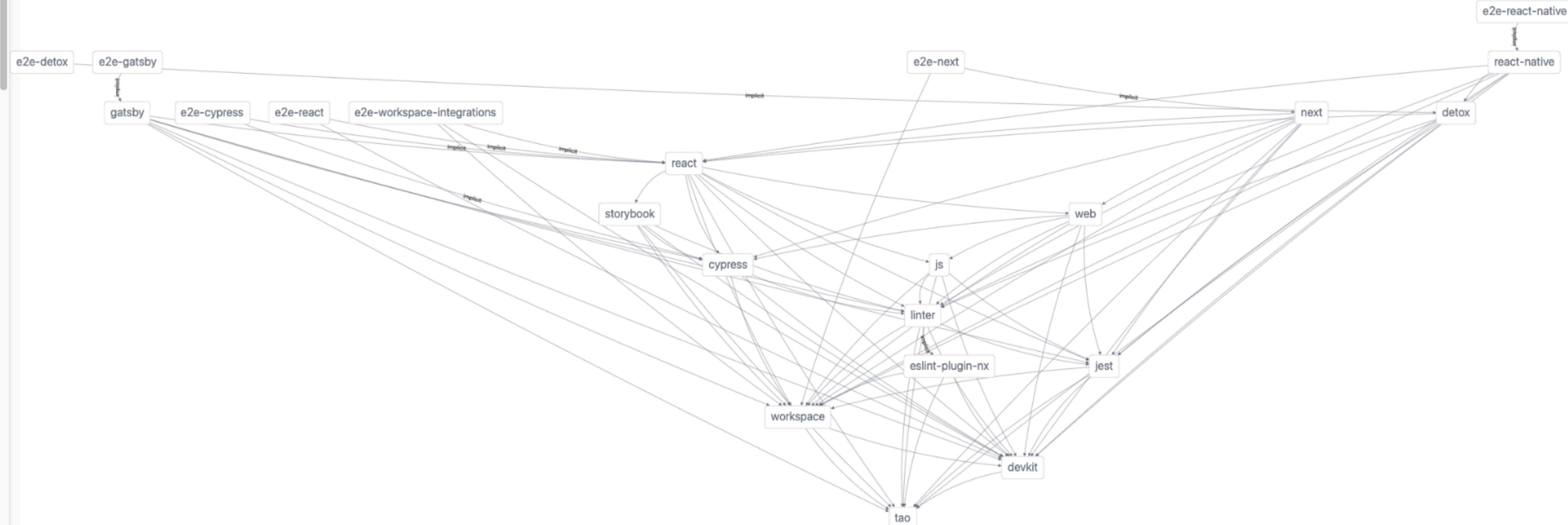
e2e-cli

e2e-cypress

e2e-detox

e2e-gatsby

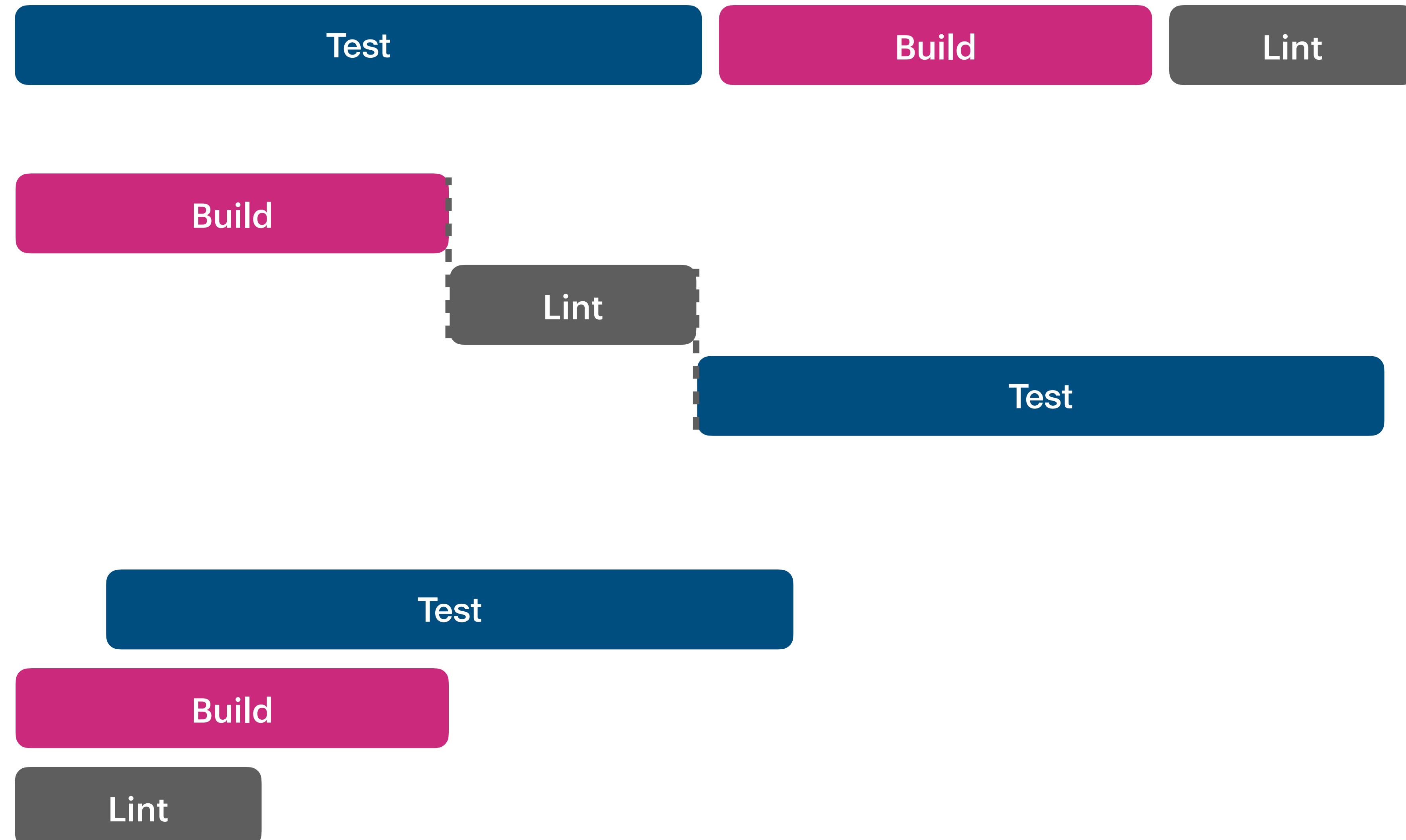
e2e-jest



Workspace analysis



Task orchestration

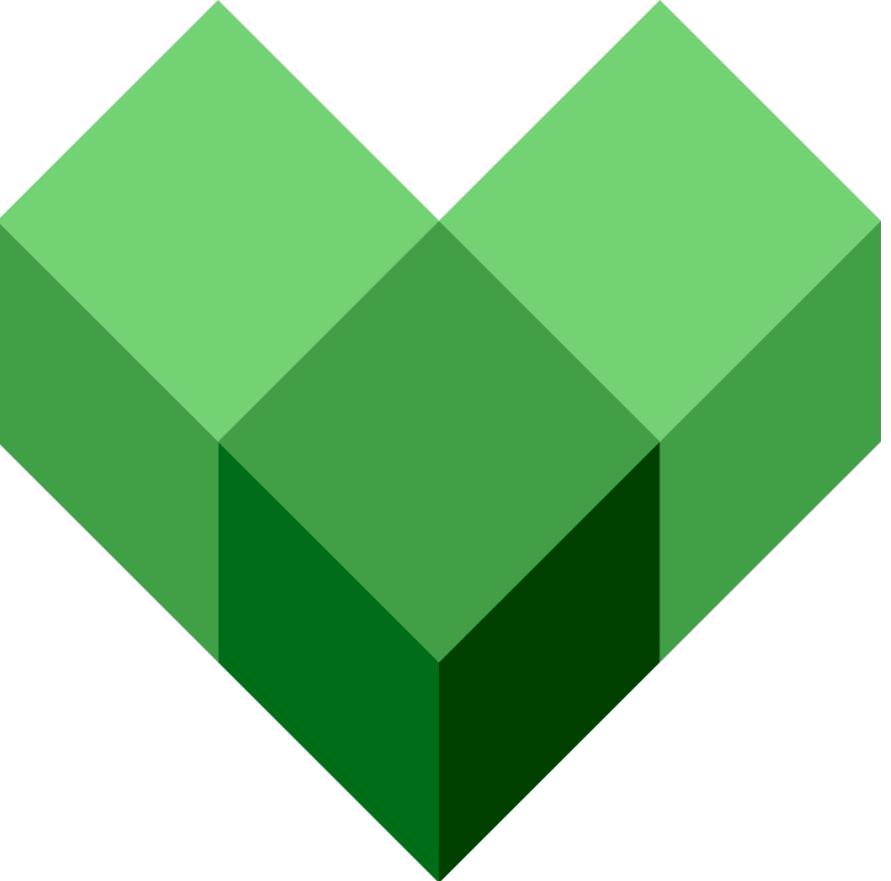




Lerna

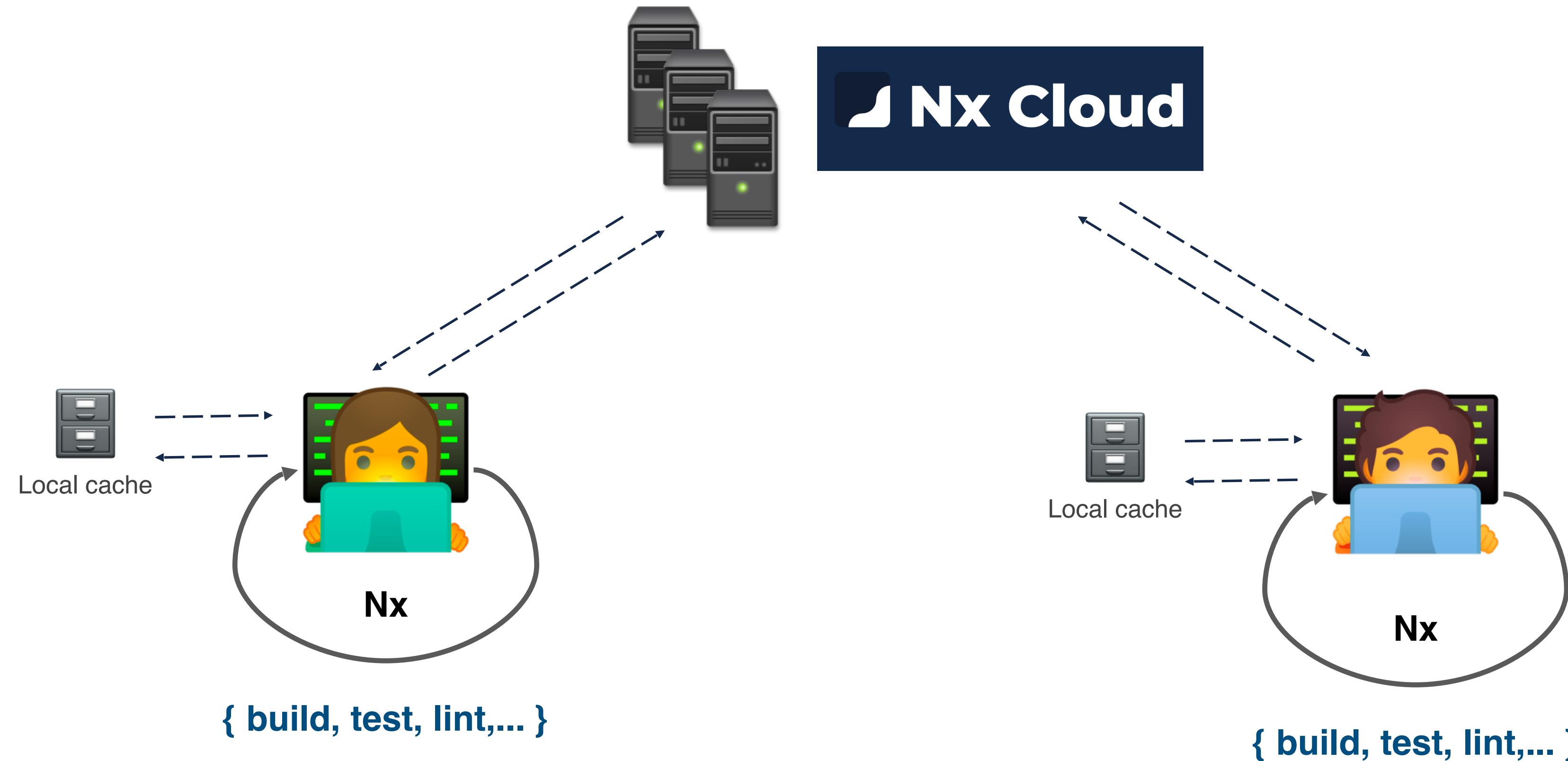
*A tool for managing JavaScript projects with multiple packages.

Modern monorepo tools

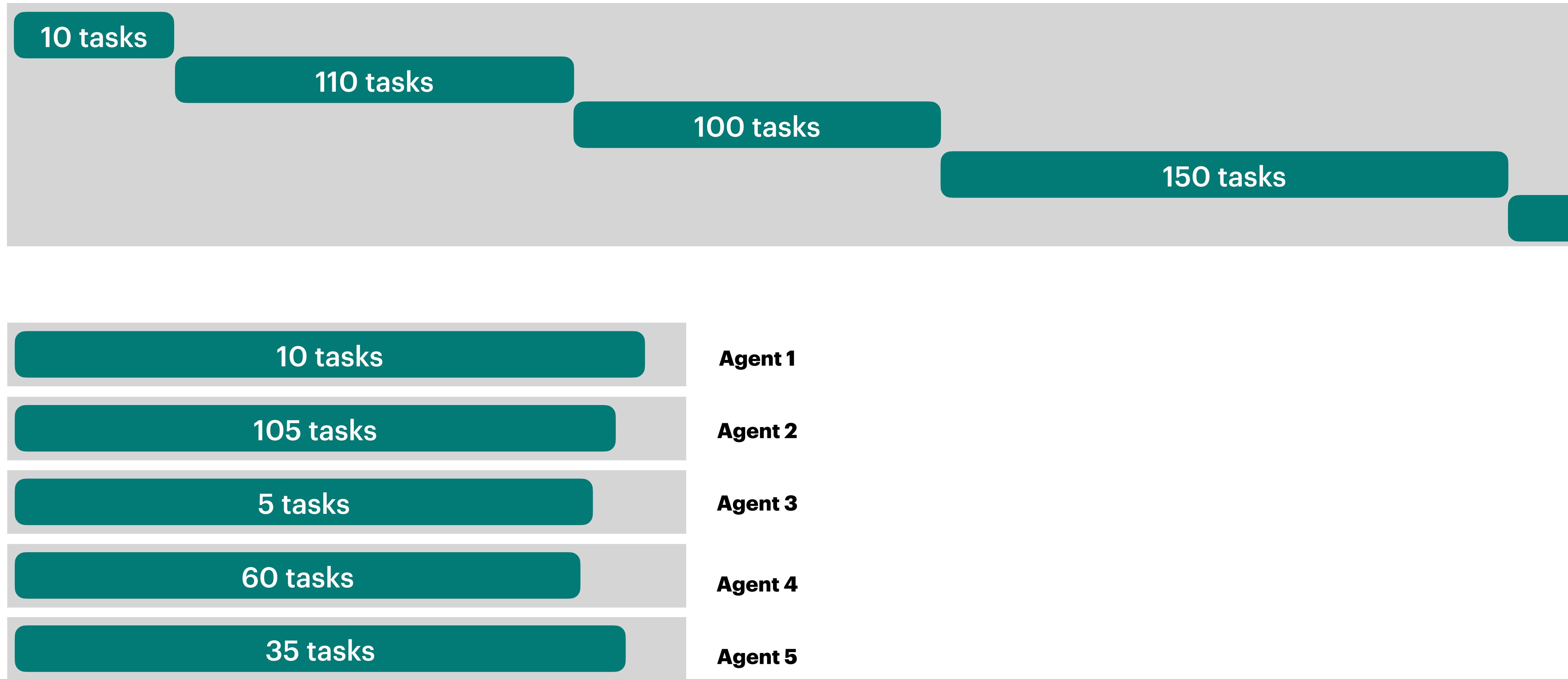


Caching

Never { build, test, lint... } same code twice



Distributed task execution

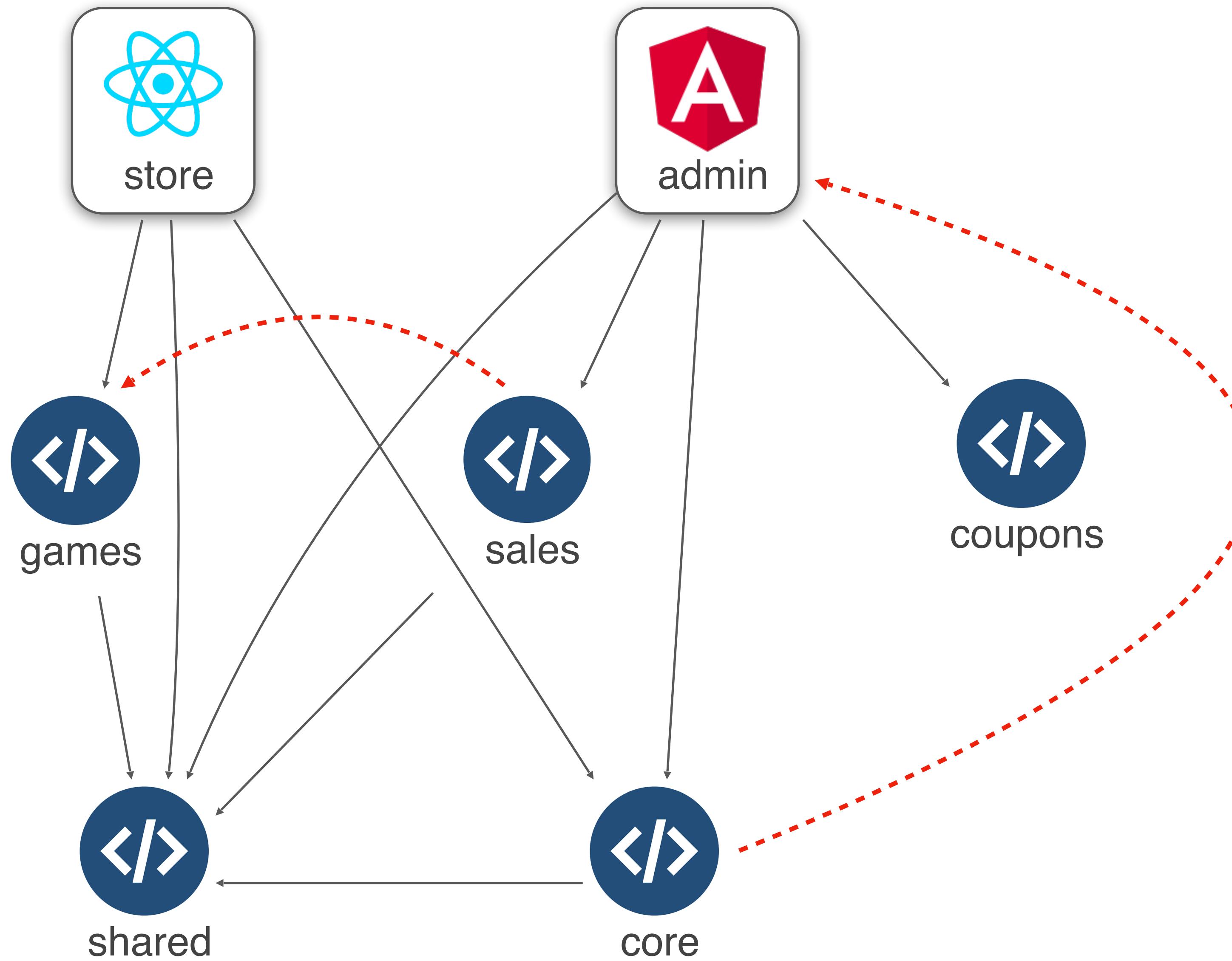


Code constraints



```
import { unstableDontUse } from '@myorg/shared-ui/i/hope/no/one/finds/this';
```

Code constraints



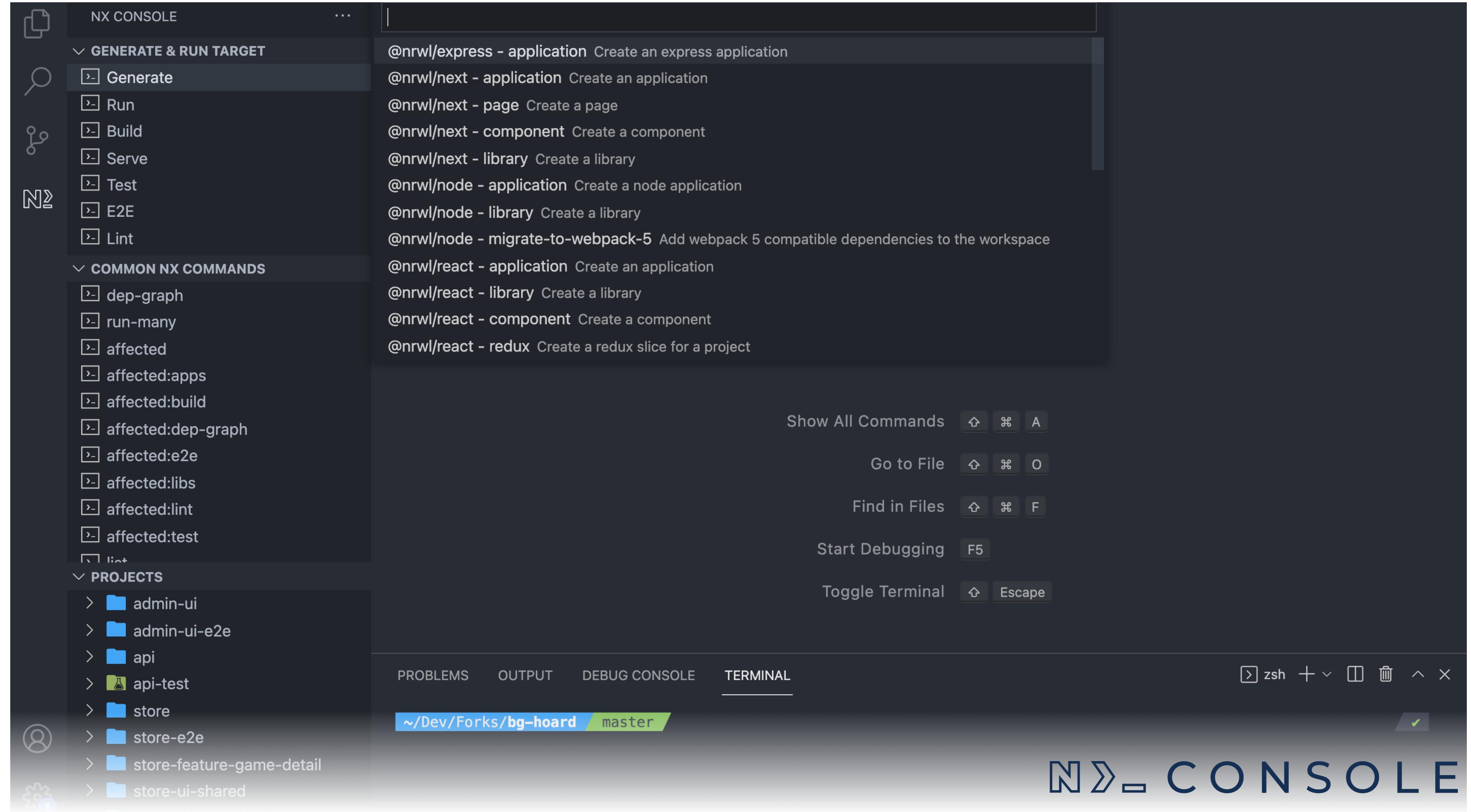
**But I have only one
project...**

Consistent tooling



```
npm run launch-homepage-app --exceptOnTuesdays
npm run build-shared-ui --turnOnProductionFlags
npm run i-forget-what-this-does --butItRunsEveryWeek
```

Powerful generators



NX CONSOLE

Monorepos bring clarity

- workspace analysis
- graph visualization

Monorepos bring speed

- local & remote caching
- task orchestration
- detecting affected nodes
- distributed task execution
- remote execution

Monorepos make it easy

- code sharing
- code collocation
- powerful generators
- consistent tooling
- code constraints

monorepo.tools

Everything you need to know about monorepos,
and the tools to build them.

- Made with love by Nrwl (the company behind Nx)

Use **NX**

The background features a series of overlapping, wavy horizontal bands. The colors transition from a deep purple on the left to a dark navy blue on the right. In the center, there are lighter bands in shades of blue and green. The overall effect is reminiscent of water or a digital interface.

nx.dev / nrwl.io

Miroslav Jonas / [@meeroslav](#)
Thank you!

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