

talk 1

frontend tech talks

tdd & next.js



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How well do you know Next.js

- 1 first time hearing about it
- 2 heard of it, but haven't use it
- 3 used it, but only occasionally
- 4 used it quite a bit, but still learning
- 5 know all the in's & out's

What even is Next.js

- Developed by Vercel
- React framework (why react shouldn't be the framework)
 - Alternative frameworks like Remix, Expo, etc.
- Javascript and Typescript compatible
- Full stack framework that provides built-in routing, layouts, API handlers, and configuration

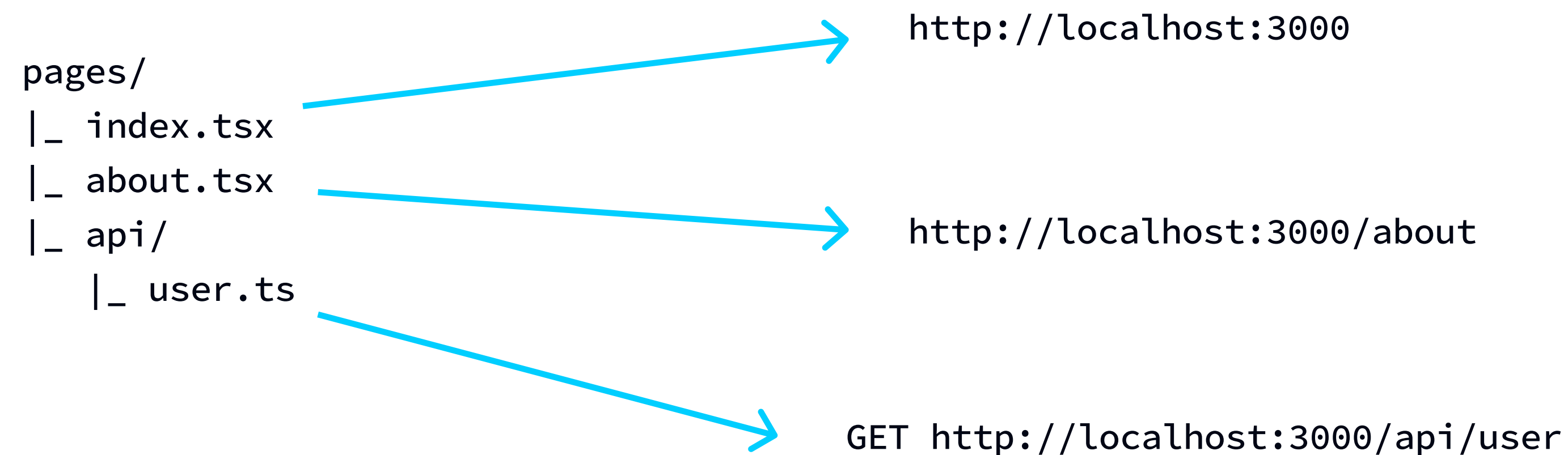
Next.js' newest paradigm

How Next.js and React have shifted to better utilize the server



Next.js Pages Router

- Every file under /pages represents a Page or an API endpoint (see tree)
- Simple structure where React components are rendered on the Client while easily can fetch data using `getStaticProps`, `getServerSideProps`, and `getInitialProps`
- `next build` can output a statically generated site or a node server (depending)



Pages Router Example

[source code](#)



Next.js App Router

- Every page, route, layout (specific file names) under `/app` represents a their respective things
- Introduces support for React Server Components (removing need for `getServerSideProps`, etc)
 - All Components **DEFAULT** to Server Components
- `next build` can output a statically generated site or a server (depending)
- Improved API route naming for functions (`GET`, `POST`, etc)



Client Components VS. Server Components

The current testing paradigms within Vercel's frontend framework



Rendering Server Components

Build time.

Next.js can automatically statically build server components at build time, allowing for your site to be statically deployed and cached over a CDN. This is a great way to

Run time.

Using a server, Next.js can dynamically render a route at the time of request.



```
export const dynamic =  
  "'auto' | 'force-dynamic' | 'error' | 'force-static'"
```

[Docs](#)

App Router Example

[source code](#)



Frontend Tech Talk Series

1 tdd & next.js

2 modern tooling

3 hexagonal architecture

4 build & deploy

end.

