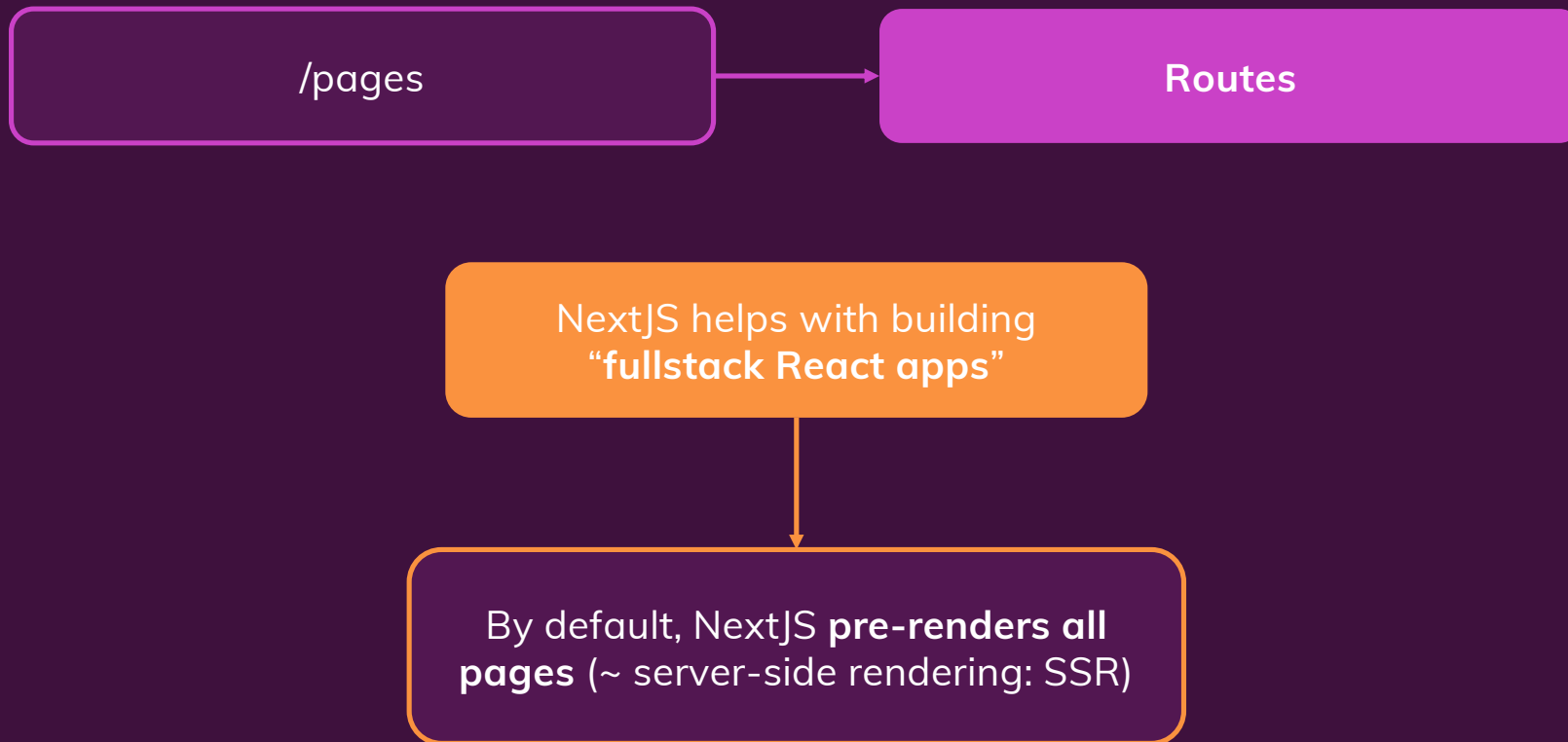
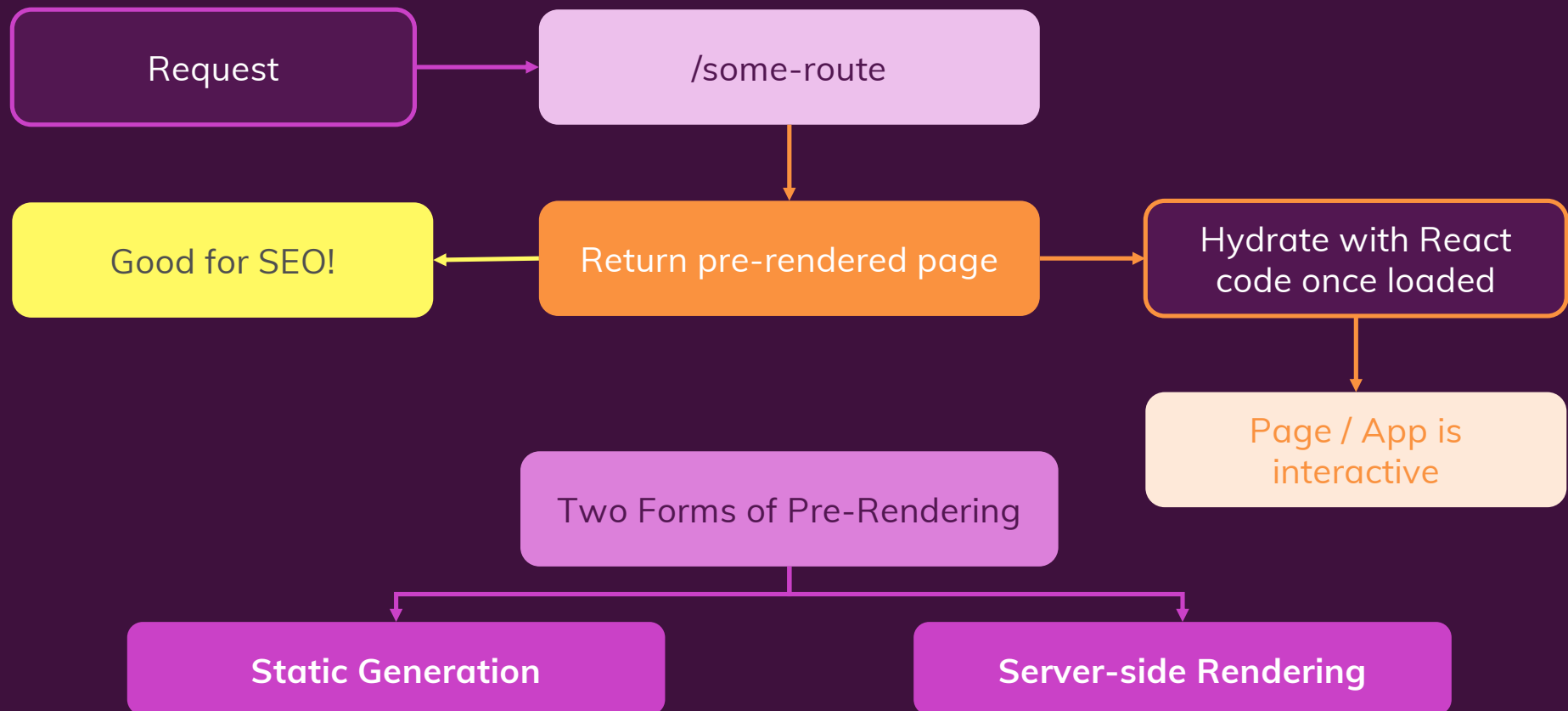


## NextJS Is NOT Just About Routing



# Page Pre-Rendering



Data is prepared before the page  
is sent back to the client

Data fetching is NOT performed in  
client-side code

## Static Generation

Pre-generate a page (with data prepared on the server-side) **during build time**

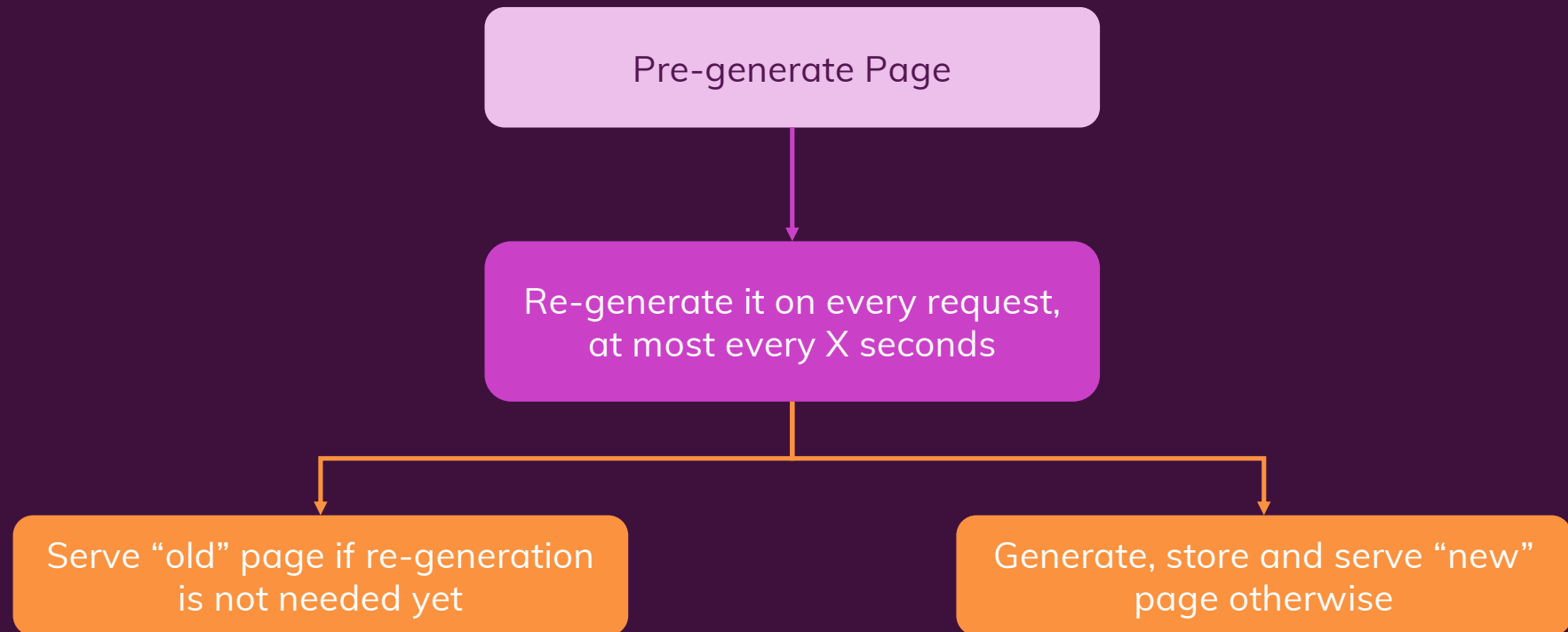


Pages are prepared ahead to time and can be cached by the server / CDN serving the app

```
export async function getStaticProps(context) { ... }
```

Server-side code is **NOT** included  
in the client-side code bundle

# Incremental Static Generation



## Pre-Generated Paths (Routes)

Dynamic pages ([id].js etc) don't just need data:  
You also need to know **which [id] values will be available**



Multiple concrete [id] page instances (e.g. id = 1, id = 2 etc.) are pre-generated

```
export async function getStaticPaths() { ... }
```

## Server-side Rendering

Sometimes, you need to pre-render for every request OR you need access to the request object (e.g. for cookies)

NextJS allows you to run “real server-side code” as well

```
export async function getServerSideProps(context) { ... }
```



## Client-side Data Fetching

Some data doesn't need to be pre-rendered

Data changing with high frequency (e.g. stock data)

Highly user-specific data (e.g. last orders in an online shop)

Partial data (e.g. data that's only used on a part of an page)

Pre-fetching the data for page generation might not work or be required

"Traditional" client-side data fetching (e.g. `useEffect()` with `fetch()` is fine)