



**TWIN CITIES**  
**DRUPAL CAMP**

# Server-side rendering a Drupal site with Next.js

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# Who is JohnAlbin?

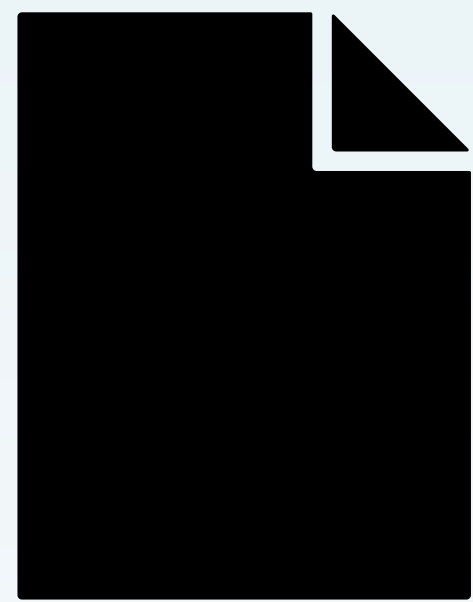
- Web developer since 1993
- Drupal dev since 2004
- Drupal core dev since 2006
- MAINTAINERS.txt since 2010
- 70+ presentations and keynotes in 4 continents
- One of the Next Drupal maintainers





# Server-side rendering

If Drupal can already do it,  
why have Next.js render on the server?



JavaScript  
rendered on  
the server

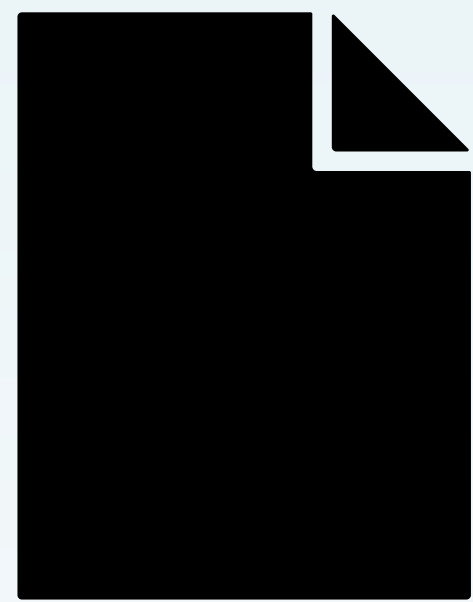


PHP  
rendered on  
the server



# Server-side rendering

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JavaScript  
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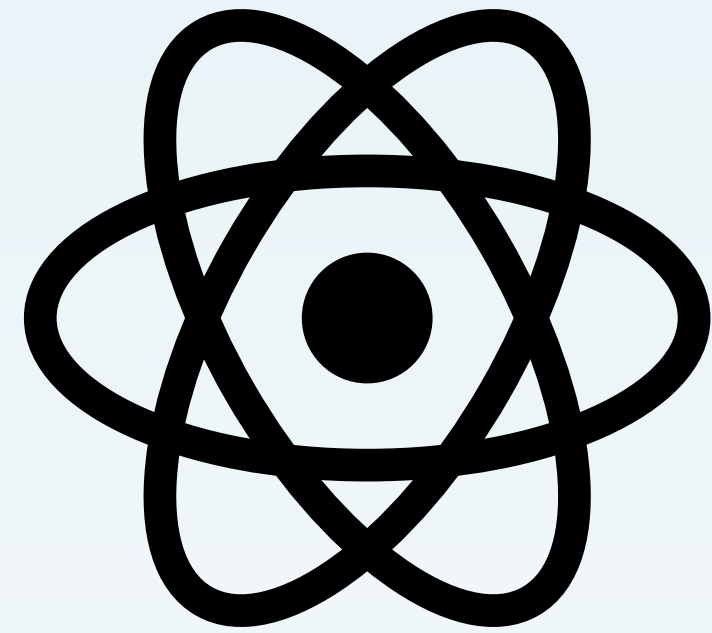


HTML  
on  
the server

**0 ms**



# React.js Server Components & Client Components



**React.js v19 (pre-release)**



**Next.js v14 (official release)**



# GETTING STARTED WITH APP ROUTER

```
/Users/johnalbin/.nvm/versions/node/v22.5.1/bin/npx --yes create-next-app@latest
```

✓ Would you like to use **TypeScript**? ... No / Yes

✓ Would you like to use **ESLint**? ... No / Yes

✓ Would you like to use **Tailwind CSS**? ... No / Yes

✓ Would you like to use **`src/` directory**? ... No / Yes

✓ Would you like to use **App Router**? (recommended) ... No / Yes



# MIGRATING FROM PAGES ROUTER TO APP ROUTER

**CAN BE DONE PER ROUTE  
INSTEAD OF ALL-AT-ONCE**



# Next.js App Router

Project ▾

▾ src

▾ app

▾ admin

JS page.js 202

▾ settings

JS page.js 2

▾ blog

▾ [segment]

JS page.js 2

JS page.js 202

JS layout.js 2024/9

JS page.js 2024/9

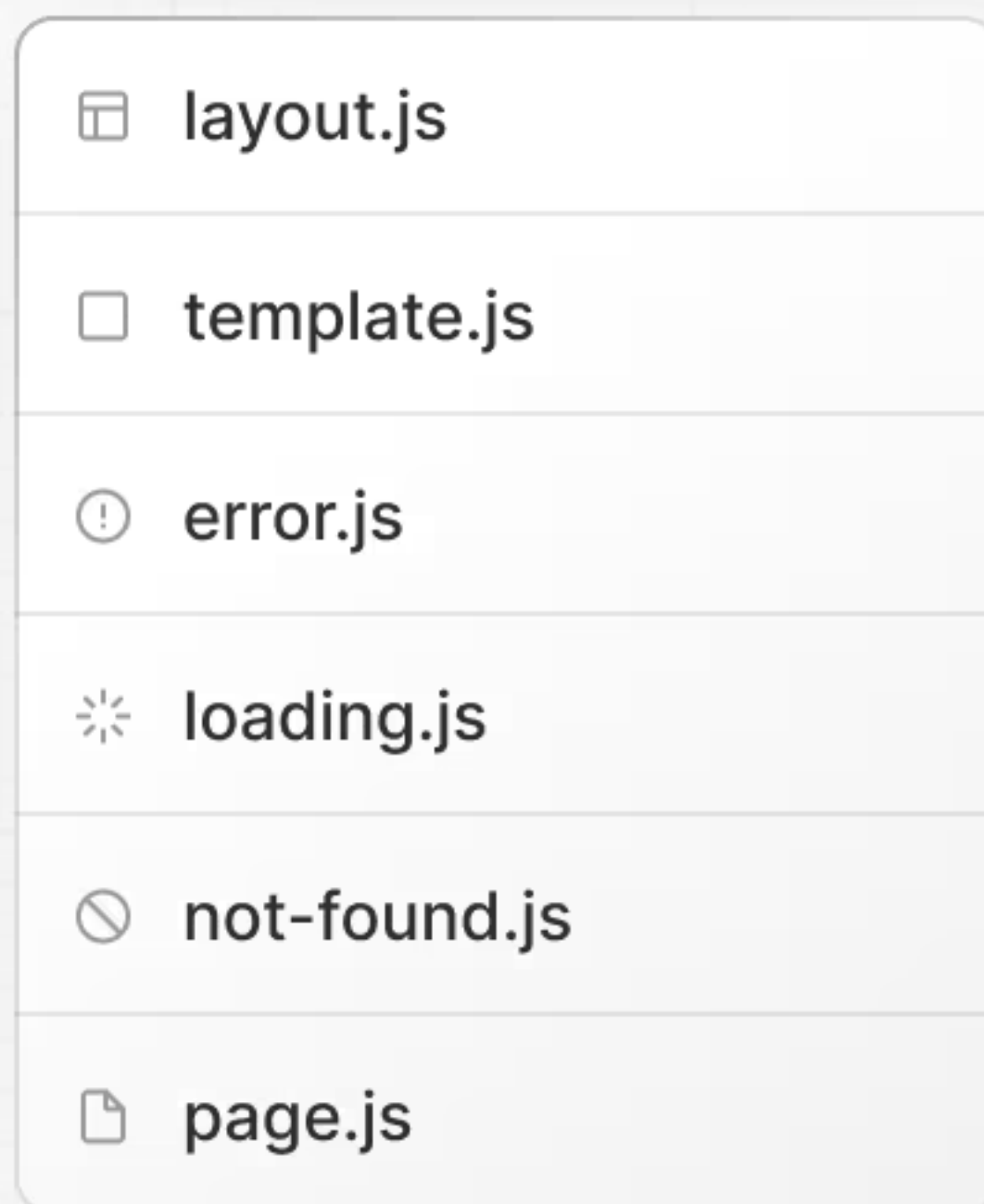


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# Next.js App Router



## Component Hierarchy

```
<Layout>
  <Template>
    <ErrorBoundary fallback={<Error />}>
      <Suspense fallback={<Loading />}>
        <ErrorBoundary fallback={<NotFound />}>
          <Page />
        </ErrorBoundary>
      </Suspense>
    </ErrorBoundary>
  </Template>
</Layout>
```



# Dynamic Routes



# Async Promises on the Server

# Client Components and the "use client" directive





# Suspense boundaries and React rehydration

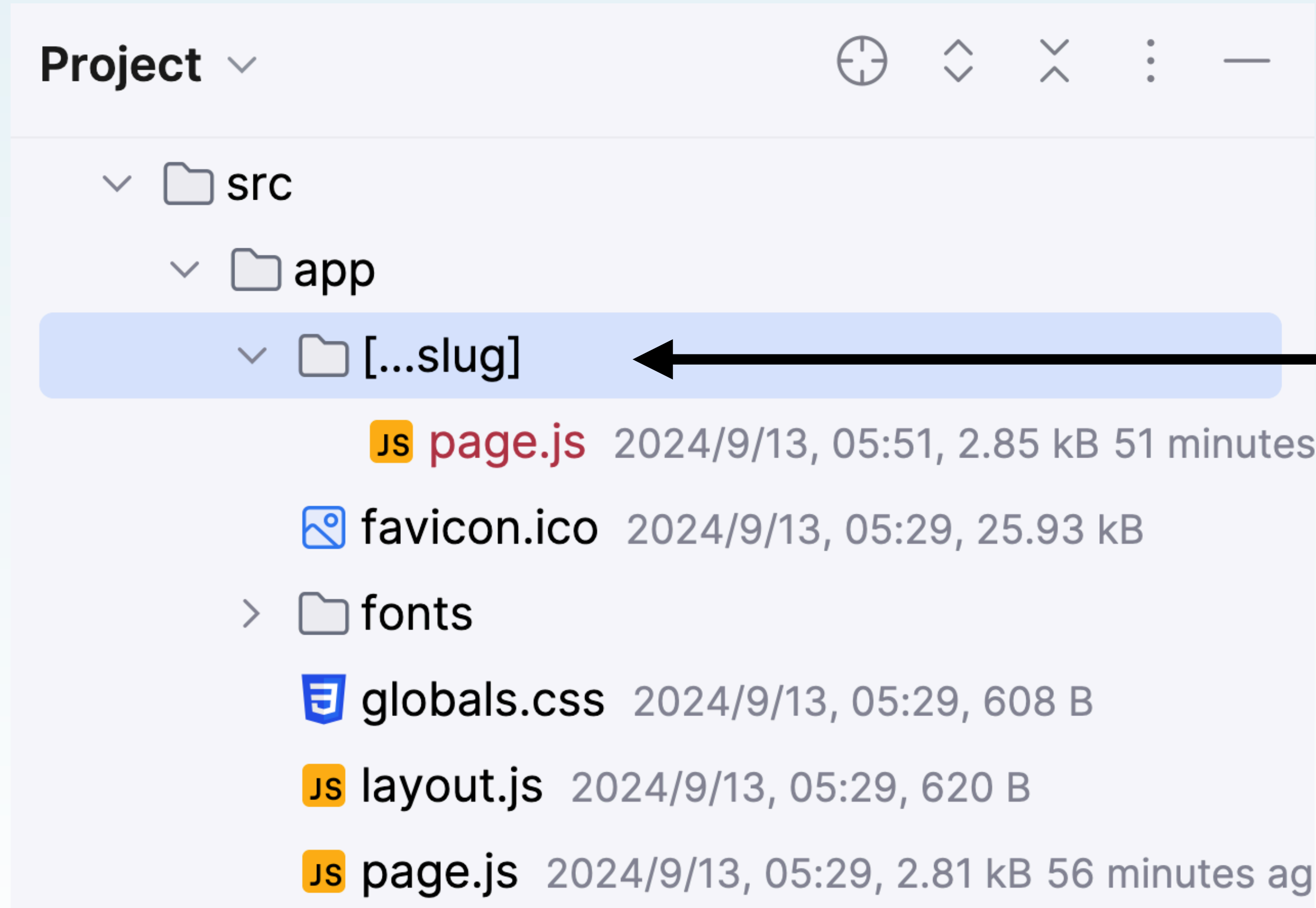
# How the Next module improves the Drupal content editor experience

# LIVE DEMO

OH GOD. OH GOD. OH GOD. OH GOD.



# Tip: the perils of a catch-all route



Use ALL paths defined by Drupal



# Tip: the perils of a catch-all route

PHP imports are *dynamic*

if a path needs Paragraphs, import its code

JavaScript imports are *static*

if a page.js route needs Paragraphs, import its code





Tip: the perils of a catch-all route

**ALL COMPONENTS**

**ARE IMPORTED**

**FOR ALL PATHS**



# Solution: the catch-all route problem

- ★ **ONE NEXT.JS ROUTE**  
**PER PATHAUTO PATTERN**
- ★ **CONSTRAIN PARAGRAPH TYPES**  
**PER FIELD**

