New Features in Next.js 15

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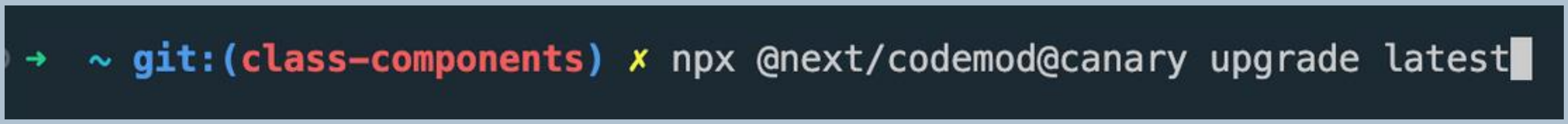
🚀 What's New in Next.js 15?

- ## Automated Upgrades

Easily upgrade to the latest Next.js and React versions using the new @next/codemod CLI.



```
→  ~ git:(class-components) ✗ npx @next/codemod@canary upgrade latest
```

- ## Async request APIS (breaking change)

Next.js is moving towards a more simplified rendering and caching model. The new async APIs allow for better control over asynchronous data fetching, making apps more scalable.

- ## Caching Semantics (Breaking Change)

Fetch requests, GET Route Handlers, and client-side navigations are no longer cached by default. This change enhances caching flexibility, giving developers more control over how data is cached.

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- ## React 19 Support

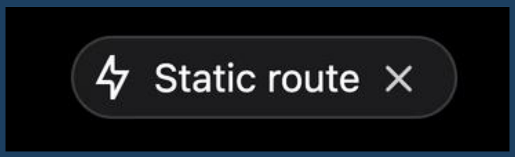
Next.js 15 supports React 19, which brings new features and optimizations. This includes React Compiler (Experimental), along with improvements to the hydration error experience

- ## Turbopack Dev (Stable)

With Next.js 15, Turbopack, the new bundler, is now stable. Expect improved performance, particularly during development. Turbopack is designed to be faster than Webpack, providing quicker rebuilds and better hot module replacement (HMR) for a smoother developer experience.

- ## Static Indicator

Next.js now displays a Static Route Indicator during development to help you identify which routes are static or dynamic.



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- **unstable_after API (Experimental)**

Execute code after a response finishes streaming. This is particularly useful for server-side rendering scenarios, enabling more control over when certain actions are triggered in the lifecycle.

- **instrumentation.js API (Stable)**

This new API provides a way to observe and instrument the server lifecycle. By adding instrumentation hooks, you can gain deep insights into your server-side performance and better monitor your Next.js application.

- **Enhanced Forms (next/form)**

Next.js now makes it easier to work with HTML forms. With the next/form feature, forms are enhanced with client-side navigation, improving user experience by preventing full-page reloads.

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- ## next.config

TypeScript support is now available for the next.config.ts file, making it easier to manage your Next.js configuration with strong typing and autocompletion.

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- ## Self-hosting Improvements

Next.js 15 brings more control over Cache-Control headers, allowing you to fine-tune how your application caches static assets. This is a huge benefit for self-hosted apps, where more granular control over caching can drastically improve performance.

- ## Server Actions Security:

The new security improvements make it harder for attackers to exploit your app. They include "unguessable" endpoints, which means the routes in your app are harder to predict, and the removal of unused server actions, reducing the risk of leaving security gaps in your code.

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- **Bundling External Packages (Stable)**

Next.js 15 introduces new configuration options for bundling external packages in both the App and Pages Routers. This helps optimize the size of your JavaScript bundles, reducing the time it takes for your application to load.

- **ESLint 9 Support**

Next.js 15 now includes support for ESLint 9, which comes with improved linting rules and bug fixes.

- **Development and Build Performance**

Significant improvements in build times, with Next.js 15 focusing on faster Fast Refresh and optimized build processes. This leads to a smoother development experience, especially for large-scale applications, by minimizing waiting times during development and build phases.