



React JS

VS

Next JS



About React JS

Developed by Facebook: React.js is a JavaScript library for building user interfaces.

Component-Based Architecture: Allows for the creation of reusable UI components.

Declarative: React makes it painless to create interactive UIs.

Virtual DOM: Efficiently updates and renders components.





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About Next JS

Built on Top of React: Next.js is a framework for server-rendered or statically-exported React applications.

SSR and SSG: Supports Server-Side Rendering (SSR) and Static Site Generation (SSG).

Automatic Code Splitting: Optimizes loading time.

API Routes: Allows for backend functionalities within the same application.





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Key Differences

	React JS	Next JS
<i>Rendering</i>	Client-side rendering.	Supports SSR, SSG, and client-side rendering.
<i>Routing</i>	Uses libraries like React Router for navigation.	Built-in routing based on file system.
<i>Setup</i>	Requires manual setup for SSR and SSG.	Provides a ready-to-use structure with SSR and SSG out of the box.
<i>Performance</i>	Performance depends on the setup.	Optimized performance with automatic code splitting & SSR.





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Best Use Cases

React JS

- Single Page Applications (SPAs)
- Applications with high interactivity
- Projects where client-side rendering is sufficient

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- Applications needing SEO benefits (SSR/SSG)
- Content-heavy websites
- Projects requiring a full-stack approach (with API routes)





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Why Next.js is Gaining Popularity

SEO Optimization

Better Search Rankings: Next.js's server-side rendering (SSR) significantly improves SEO, leading to higher visibility and organic traffic.

Faster Load Times: Static Site Generation (SSG) ensures faster page load times, enhancing user experience and reducing bounce rates.





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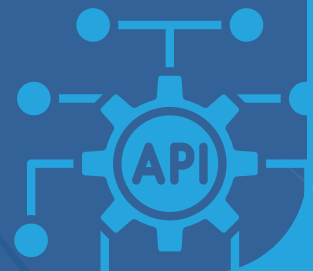


Why Next.js is Gaining Popularity

Developer Productivity

Out-of-the-Box Features: Built-in routing, API routes, and optimizations reduce development time and complexity.

Automatic Code Splitting: Enhances performance without manual intervention, leading to quicker deployment and easier maintenance.





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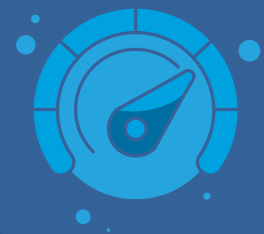
Why Next.js is Gaining Popularity

Scalability

Versatile Rendering Options: Ability to choose between SSR, SSG, and client-side rendering based on specific needs.

Edge and Serverless Functions: Integration with Vercel (Next.js's deployment platform) allows for scalable, edge-ready applications.

Reduced Infrastructure Costs: Optimized rendering leads to lower server costs.





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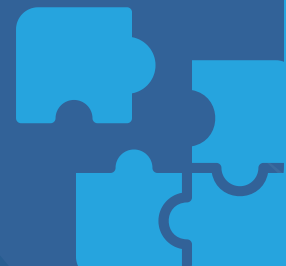
Why Next.js is Gaining Popularity

Integration Capabilities

Backend Flexibility: Seamless integration with various backend services and APIs through API routes.

Enterprise Ready: Suitable for complex and large-scale applications, making it a preferred choice for enterprises.

Faster Time to Market: Quick setup and deployment cycles reduce development costs and speed up time to market.





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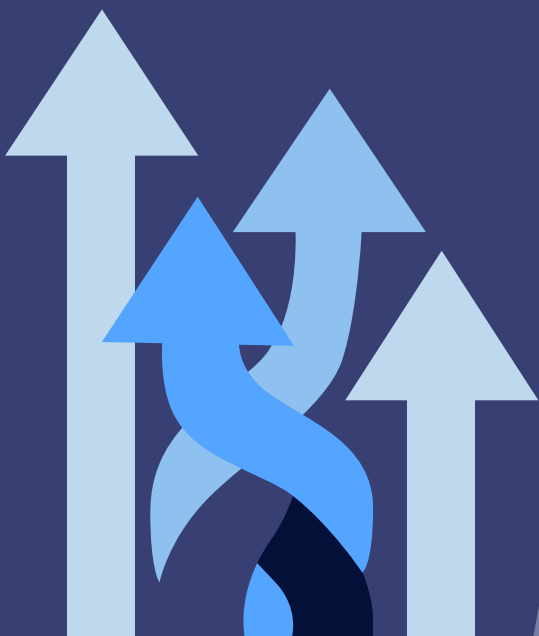
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