

Optimizations

Terms

Image component

Metadata

Lazy loading

Link component

Script component

Summary

- The Image component in Next.js automatically optimizes and serves images in various formats and sizes, reducing loading times and bandwidth usage for improved site performance.
- The Link component enables client-side navigation between pages within our Next.js application, eliminating full page reloads and creating a smoother user experience.
- The Script component allows you to load and manage external scripts efficiently.
- Next.js automatically optimizes our fonts and removes external network requests for improved privacy and performance.
- To make our applications search engine friendly, we can export a metadata object from our pages and layouts. Metadata exported from a page overwrite metadata defined in the layouts.
- Lazy loading helps us improve the initial loading performance of a page by reducing the amount of JavaScript needed to render the page. With lazy loading we can defer loading of client components and external libraries until when they're needed.

Creating Metadata

```
export const metadata: Metadata = {  
  title: 'Create Next App',  
  description: 'Generated by create next app',  
};  
  
export async function generateMetadata(): Promise<Metadata> {  
  
};
```

Lazy Loading

```
import dynamic from "next/dynamic";  
const HeavyComponent = dynamic(  
  () => import('./HeavyComponent'),  
  {  
    ssr: false,  
    loading: () => <p>Loading...</p>  
  }  
);
```