> Menu

```
Pages Router > ... > Components > <Link>
```

<Link>

▶ Examples

<Link> is a React component that extends the HTML <a> element to provide prefetching and client-side navigation between routes. It is the primary way to navigate between routes in Next.js.

For an example, consider a pages directory with the following files:

```
- pages/index.js
```

- pages/about.js
- pages/blog/[slug].js

We can have a link to each of these pages like so:

```
import Link from 'next/link';
2
   function Home() {
3
     return (
4
5
       <l
         <1i>>
6
7
           <Link href="/">Home</Link>
8
         9
         <1i>>
           <Link href="/about">About Us</Link>
10
         11
         <1i>>
12
           <Link href="/blog/hello-world">Blog Post</Link>
14
         15
16
      );
17
18
19
   export default Home;
```

Props

Here's a summary of the props available for the Link Component:

Prop	Example	Туре	Required
href	(href="/dashboard")	String or Object	Yes
replace	<pre>(replace={false})</pre>	Boolean	-
prefetch	<pre>prefetch={false}</pre>	Boolean	-

Good to know: <a> tag attributes such as className or target="_blank" can be added to <Link> as props and will be passed to the underlying <a> element.

href (required)

The path or URL to navigate to.

```
<Link href="/dashboard">Dashboard</Link>
```

href can also accept an object, for example:

```
1 // Navigate to /about?name=test
2 <Link
3 href={{
4  pathname: '/about',
5  query: { name: 'test' },
6  }}
7 >
8  About
9 </Link>
```

replace

Defaults to false. When true, next/link will replace the current history state instead of adding a new URL into the browser's history stack.

```
1 import Link from 'next/link';
```

prefetch

Defaults to (true). When (true), (next/link) will prefetch the page (denoted by the (href)) in the background. This is useful for improving the performance of client-side navigations. Any <Link /> in the viewport (initially or through scroll) will be preloaded.

Prefetch can be disabled by passing prefetch={false}. Prefetching is only enabled in production.

```
Ts app/page.tsx
    import Link from 'next/link';
 2
 3
   export default function Page() {
 4
    return (
        <Link href="/dashboard" prefetch={false}>
 5
 6
          Dashboard
 7
        </Link>
 8
      );
   }
 9
```

Other Props

legacyBehavior

An (<a>) element is no longer required as a child of (<Link>). Add the (legacyBehavior) prop to use the legacy behavior or remove the (<a>) to upgrade. A codemod is available to automatically upgrade your code.

```
Note: when legacyBehavior is not set to true, all anchor 7 tag properties can be passed to next/link as well such as, className, onClick, etc.
```

passHref

Forces Link to send the href property to its child. Defaults to false

scroll

Scroll to the top of the page after a navigation. Defaults to true

shallow

Update the path of the current page without rerunning getStaticProps, getServerSideProps or getInitialProps. Defaults to false

locale

The active locale is automatically prepended. locale allows for providing a different locale. When false href has to include the locale as the default behavior is disabled.

Examples

Linking to Dynamic Routes

For dynamic routes, it can be handy to use template literals to create the link's path.

For example, you can generate a list of links to the dynamic route pages/blog/[slug].js

```
\Box
Js pages/blog/index.js
   import Link from 'next/link';
 2
   function Posts({ posts }) {
 3
     return (
 4
        <l
 5
          {posts.map((post) => (}
 6
 7
            key={post.id}>
              <Link href={\`/blog/${post.slug}\`}>{post.title}</Link>
 8
 9
            10
          ))}
        11
12
      );
    }
13
14
   export default Posts;
15
```

If the child of Link is a custom component that wraps an <a> tag, you must add passHref to Link. This is necessary if you're using libraries like styled-components ?. Without this, the <a> tag will not have the href attribute, which hurts your site's accessibility and might affect SEO. If you're using ESLint, there is a built-in rule next/link-passhref to ensure correct usage of passHref.

```
import Link from 'next/link';
 1
   import styled from 'styled-components';
 3
   // This creates a custom component that wraps an <a> tag
 5
   const RedLink = styled.a`
    color: red;
 6
 7
 8
 9
   function NavLink({ href, name }) {
      return (
10
11
        <Link href={href} passHref legacyBehavior>
          <RedLink>{name}</RedLink>
12
13
        </Link>
14
      );
15
16
17
   export default NavLink;
```

- If you're using emotion 7's JSX pragma feature (@jsx jsx), you must use passHref even if you use an <a> tag directly.
- The component should support onClick property to trigger navigation correctly

If the child is a functional component

If the child of Link is a functional component, in addition to using passHref and legacyBehavior, you must wrap the component in React.forwardRef 7:

```
import Link from 'next/link';
 1
 2
   // `onClick`, `href`, and `ref` need to be passed to the DOM element
   // for proper handling
   const MyButton = React.forwardRef(({ onClick, href }, ref) => {
 5
 6
      return (
        <a href={href} onClick={onClick} ref={ref}>
 7
 8
          Click Me
 9
        </a>
      );
10
    });
11
12
    function Home() {
13
      return (
14
        <Link href="/about" passHref legacyBehavior>
15
16
          <MyButton />
```

With URL Object

Link can also receive a URL object and it will automatically format it to create the URL string. Here's how to do it:

```
import Link from 'next/link';
 1
 2
   function Home() {
 4
    return (
        <l
 5
          <1i>>
 6
 7
            <Link
              href={{
 8
 9
                pathname: '/about',
10
                query: { name: 'test' },
11
              }}
12
13
              About us
14
            </Link>
15
          <1i>>
16
            <Link
17
              href={{
18
                pathname: '/blog/[slug]',
19
                query: { slug: 'my-post' },
20
              }}
21
22
23
              Blog Post
24
            </Link>
25
          26
        27
      );
   }
28
29
30 export default Home;
```

The above example has a link to:

- A predefined route: /about?name=test
- A dynamic route: /blog/my-post

You can use every property as defined in the Node.js URL module documentation 7.

Replace the URL instead of push

The default behavior of the Link component is to push a new URL into the history stack. You can use the replace prop to prevent adding a new entry, as in the following example:

Disable scrolling to the top of the page

The default behavior of Link is to scroll to the top of the page. When there is a hash defined it will scroll to the specific id, like a normal <a> tag. To prevent scrolling to the top / hash scroll={false} can be added to Link:

```
1 <Link href="/#hashid" scroll={false}>
2  Disables scrolling to the top
3 </Link>
```

Middleware

It's common to use Middleware for authentication or other purposes that involve rewriting the user to a different page. In order for the <Link /> component to properly prefetch links with rewrites via Middleware, you need to tell Next.js both the URL to display and the URL to prefetch. This is required to avoid un-necessary fetches to middleware to know the correct route to prefetch.

For example, if you have want to serve a /dashboard route that has authenticated and visitor views, you may add something similar to the following in your Middleware to redirect the user to the correct page:

```
\Box
Js middleware.js
   export function middleware(req) {
 2
      const nextUrl = req.nextUrl;
 3
      if (nextUrl.pathname === '/dashboard') {
 4
        if (req.cookies.authToken) {
          return NextResponse.rewrite(new URL('/auth/dashboard', req.url));
 5
 6
 7
          return NextResponse.rewrite(new URL('/public/dashboard', req.url));
 8
        }
 9
10
    }
```

In this case, you would want to use the following code in your <Link /> component:

```
import Link from 'next/link';
   import useIsAuthed from './hooks/useIsAuthed';
   export default function Page() {
 4
      const isAuthed = useIsAuthed();
 5
      const path = isAuthed ? '/auth/dashboard' : '/dashboard';
 6
 7
        <Link as="/dashboard" href={path}>
 8
 9
          Dashboard
        </Link>
10
11
      );
12
```

```
Note: If you're using Dynamic Routes, you'll need to adapt your as and href props. For example, if you have a Dynamic Route like /dashboard/[user] that you want to present differently via middleware, you would write: 
<Link href={{ pathname: '/dashboard/authed/[user]', query: { user: username } }}
as="/dashboard/[user]">Profile</Link>
```