Routing

Next.js has a file-system based router built on the concept of pages.

When a file is added to the pages directory, it's automatically available as a route.

The files inside the pages directory can be used to define most common patterns.

Index routes

The router will automatically route files named <code>index</code> to the root of the directory.

```
pages/index.js → /
pages/blog/index.js → /blog
```

Nested routes

The router supports nested files. If you create a nested folder structure, files will automatically be routed in the same way still.

```
pages/blog/first-post.js → /blog/first-post
pages/dashboard/settings/username.js → /dashboard/settings/username
```

Dynamic route segments

To match a dynamic segment, you can use the bracket syntax. This allows you to match named parameters.

```
pages/blog/[slug].js → /blog/:slug (/blog/hello-world)
pages/[username]/settings.js → /:username/settings (/foo/settings)
pages/post/[...all].js → /post/* (/post/2020/id/title)
```

Check out the <u>Dynamic Routes documentation</u> to learn more about how they work.

Linking between pages

The Next.js router allows you to do client-side route transitions between pages, similar to a single-page application.

A React component called Link is provided to do this client-side route transition.

The example above uses multiple links. Each one maps a path (href) to a known page:

```
/ → pages/index.js
/about → pages/about.js
/blog/hello-world → pages/blog/[slug].js
```

Any <Link /> in the viewport (initially or through scroll) will be prefetched by default (including the corresponding data) for pages using Static Generation. The corresponding data for server-rendered routes is not prefetched.

Linking to dynamic paths

You can also use interpolation to create the path, which comes in handy for <u>dynamic route segments</u>. For example, to show a list of posts which have been passed to the component as a prop:

<u>encodeURIComponent</u> is used in the example to keep the path utf-8 compatible.

Alternatively, using a URL Object:

Now, instead of using interpolation to create the path, we use a URL object in href where:

- pathname is the name of the page in the pages directory. /blog/[slug] in this case.
- query is an object with the dynamic segment. slug in this case.

Injecting the router

▶ Examples

To access the router object in a React component you can use useRouter or withRouter .

In general we recommend using <u>useRouter</u>.

Learn more

The router is divided in multiple parts:

next/link: Handle client-side navigations.

next/router: Leverage the router API in your pages.