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# Codemods

Codemods are transformations that run on your codebase programmatically. This allows a large number of changes to be programmatically applied without having to manually go through every file.

Next.js provides Codemod transformations to help upgrade your Next.js codebase when an API is updated or deprecated.

# Usage

In your terminal, navigate ( cd ) into your project's folder, then run:

```
>_ Terminal

npx @next/codemod <transform> <path>
```

Replacing <transform> and <path> with appropriate values.

- transform name of transform
- path files or directory to transform
- - dry Do a dry-run, no code will be edited
- - print Prints the changed output for comparison

# **Next.js Codemods**

13.2

**Use Built-in Font** 

#### built-in-next-font

```
>_ Terminal

npx @next/codemod@latest built-in-next-font
```

This codemod uninstalls the @next/font package and transforms @next/font imports into the built-in next/font.

For example:

```
import { Inter } from '@next/font/google';
```

Transforms into:

```
import { Inter } from 'next/font/google';
```

## 13.0

#### **Rename Next Image Imports**

next-image-to-legacy-image

```
>_ Terminal

npx @next/codemod@latest next-image-to-legacy-image ./pages
```

Safely renames next/image imports in existing Next.js 10, 11, or 12 applications to next/legacy/image in Next.js 13. Also renames next/future/image to next/image.

For example:

```
\Box
Js pages/index.js
 1
    import Image1 from 'next/image';
 2
    import Image2 from 'next/future/image';
 3
 4
    export default function Home() {
 5
     return (
        <div>
 6
 7
          <Image1 src="/test.jpg" width="200" height="300" />
          <Image2 src="/test.png" width="500" height="400" />
 8
 9
        </div>
```

```
10 );
11 }
```

Transforms into:

```
Js pages/index.js
   // 'next/image' becomes 'next/legacy/image'
    import Image1 from 'next/legacy/image';
    // 'next/future/image' becomes 'next/image'
    import Image2 from 'next/image';
 5
    export default function Home() {
 6
 7
      return (
 8
        <div>
 9
          <Image1 src="/test.jpg" width="200" height="300" />
          <Image2 src="/test.png" width="500" height="400" />
10
        </div>
11
12
      );
13
```

### Migrate to the New Image Component

#### next-image-experimental

```
>_ Terminal

npx @next/codemod@latest next-image-experimental ./pages
```

Dangerously migrates from next/legacy/image to the new next/image by adding inline styles and removing unused props.

- Removes layout prop and adds style.
- Removes objectFit prop and adds style.
- Removes objectPosition prop and adds style.
- Removes lazyBoundary prop.
- Removes lazyRoot prop.

### Remove <a> Tags From Link Components

new-link

>\_ Terminal ()

```
npx @next/codemod@latest new-link ./pages
```

Remove <a> tags inside Link Components, or add a legacyBehavior prop to Links that cannot be auto-fixed.

For example:

```
1 <Link href="/about">
2
    <a>About</a>
3 </Link>
   // transforms into
5 <Link href="/about">
    About
   </Link>
8
9
   <Link href="/about">
10
    <a onClick={() => console.log('clicked')}>About</a>
11 </Link>
12 // transforms into
   <Link href="/about" onClick={() => console.log('clicked')}>
13
   About
14
15 </Link>
```

In cases where auto-fixing can't be applied, the legacyBehavior prop is added. This allows your app to keep functioning using the old behavior for that particular link.

### 11

#### Migrate from CRA

```
cra-to-next
```

```
>_ Terminal

npx @next/codemod cra-to-next
```

Migrates a Create React App project to Next.js; creating a Pages Router and necessary config to match behavior. Client-side only rendering is leveraged initially to prevent breaking compatibility due to window usage during SSR and can be enabled seamlessly to allow the gradual adoption of Next.js specific features.

Please share any feedback related to this transform in this discussion ¬.

#### 10

### **Add React imports**

```
add-missing-react-import
```

```
>_ Terminal

npx @next/codemod add-missing-react-import
```

Transforms files that do not import React to include the import in order for the new React JSX transform 7 to work.

For example:

```
my-component.js

1 export default class Home extends React.Component {
2   render() {
3     return <div>Hello World</div>;
4   }
5 }
```

Transforms into:

```
import React from 'react';
export default class Home extends React.Component {
   render() {
    return <div>Hello World</div>;
}
```

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**Transform Anonymous Components into Named Components** 

name-default-component

```
>_ Terminal

npx @next/codemod name-default-component
```

#### Versions 9 and above.

Transforms anonymous components into named components to make sure they work with Fast Refresh →.

For example:

```
1 export default function () {
2  return <div>Hello World</div>;
3 }
```

Transforms into:

```
1 export default function MyComponent() {
2   return <div>Hello World</div>;
3 }
```

The component will have a camel-cased name based on the name of the file, and it also works with arrow functions.

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### Transform AMP HOC into page config

withamp-to-config

```
>_ Terminal

npx @next/codemod withamp-to-config
```

Transforms the withAmp HOC into Next.js 9 page configuration.

For example:

```
1 // Before
```

```
import { withAmp } from 'next/amp';
   3
   4
      function Home() {
   5
      return <h1>My AMP Page</h1>;
   6
   7
     export default withAmp(Home);
     // After
   1
      export default function Home() {
   3
      return <h1>My AMP Page</h1>;
   4
   5
     export const config = {
   7
     amp: true,
     };
6
Use withRouter
url-to-withrouter
                                                                                             >_ Terminal
  npx @next/codemod url-to-withrouter
Transforms the deprecated automatically injected url property on top level pages to using withRouter
and the router property it injects. Read more here: https://nextjs.org/docs/messages/url-deprecated
For example:
                                                                                             \Box
  From
     import React from 'react';
   2
     export default class extends React.Component {
```

 $\Box$ 

render() {

import React from 'react';

const { pathname } = this.props.url;

import { withRouter } from 'next/router';

return <div>Current pathname: {pathname}</div>;

3

6

7 }

To

}

```
3 export default withRouter(
4   class extends React.Component {
5    render() {
6      const { pathname } = this.props.router;
7      return <div>Current pathname: {pathname}</div>;
8   }
9   },
10 );
```

This is one case. All the cases that are transformed (and tested) can be found in the \_\_testfixtures\_\_\_ directory 7.