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# mdx-components.js

The `mdx-components.js|tsx` file is **required** to use [@next/mdx](#) with App Router and will not work without it. Additionally, you can use it to [customize styles](#).

Use the file `mdx-components.tsx` (or `.js`) in the root of your project to define MDX Components. For example, at the same level as `pages` or `app`, or inside `src` if applicable.

`TS mdx-components.tsx`

TypeScript ▾



```
1  import type { MDXComponents } from 'mdx/types'
2
3  export function useMDXComponents(components: MDXComponents): MDXComponents {
4    return {
5      ...components,
6    }
7  }
```

## Exports

### `useMDXComponents` function

The file must export a single function, either as a default export or named `useMDXComponents`.

`TS mdx-components.tsx`

TypeScript ▾



```
1  import type { MDXComponents } from 'mdx/types'
2
3  export function useMDXComponents(components: MDXComponents): MDXComponents {
4    return {
5      ...components,
6    }
7  }
```

## Params

### components

When defining MDX Components, the export function accepts a single parameter, `components`. This parameter is an instance of `MDXComponents`.

- The key is the name of the HTML element to override.
- The value is the component to render instead.

**Good to know:** Remember to pass all other components (i.e. `... components`) that do not have overrides.

## Version History

Version	Changes
v13.1.2	MDX Components added

## Learn more about MDX Components

App Router > ... > Configuring

MDX

Learn how to configure MDX and use it in your Next.js apps.

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