You can import your components from other third party libraries, like theme-ui. Use cases for external libraries could be charting libraries for adding rich data visualizations, form components for adding email signups, styled portions of content like pullquotes, or call to action buttons throughout your pages. You can also import and reuse your own React components and MDX documents.

Import components for use from another library

Components imported from other libraries can be rendered inline with your markdown content, allowing you to include rich media like charts, interactive buttons, or styled messages. Components are imported at the top of your MDX documents—in the same syntax they are imported in JavaScript files—and then added using opening and closing brackets like normal JSX elements.

To include a component from another library (this example uses the message component from theme-ui), you need to import it at the top of your MDX file:

```
title: Importing Components Example
import { Message } from "theme-ui" // highlight-line

You can import your own components.

<Message>MDX gives you JSX in Markdown!</Message> // highlight-line
```

Note: steps for importing custom components or MDX documents from a relative location in your project are also covered in the <u>Writing Pages in MDX guide</u>.

Make components available globally as shortcodes

To avoid having to import the same component inside of every MDX document you author, you can add components to an MDXProvider to make them globally available in MDX pages. This pattern is sometimes referred to as shortcodes.

All MDX components passed into the components prop of the MDXProvider will be made available to MDX documents that are nested under the provider. The MDXProvider in this example is in a layout component that wraps all MDX pages, you can read about this pattern in the layout section of the gatsby-plugin-mdx README.

Now, you can include components in your MDX without importing them:

Because the <Message /> and <Chart /> components were passed into the provider, they are available for use in all MDX documents.

Lazy-loading components

When you use components in your .mdx files, Gatsby will bundle them into the main application bundle. This can cause performance problems.

In the future, gatsby-plugin-mdx will address this. In the meantime, it can be prudent to lazy-load very large dependencies. The following snippet provides an example for lazy-loading an imaginary Thing component:

```
import React from "react"

const Placeholder = () => null

const LazyThing = props => {
    // While the component is loading, we'll render a fallback placeholder.
    // (The Placeholder is a component that renders nothing).
    const [Component, setComponent] = React.useState(() => Placeholder)

    // After the initial render, kick off a dynamic import to fetch
    // the real component, and set it into our state.
    React.useEffect(() => {
        import("./Thing.js").then(Thing => setComponent(() => Thing.default))
    }, [])

    return <Component {...props} />
}

export default LazyThing
```

Inside your MDX, swap out any references to Thing with LazyThing:

```
-import Thing from "../components/Thing/Thing.js"
+import LazyThing from "../components/Thing/LazyThing.js"

## Introducing Things

Here is a demo:
-<Thing hi={5} />
+<LazyThing hi={5} />
```

Additional resources

• Follow this detailed <u>example on using MDX</u> to import and render components.