

Using MDX, you can replace every HTML element that Markdown renders with a custom implementation. This allows you to use a set of design system components when rendering.

```
import { MDXProvider } from "@mdx-js/react"
import * as DesignSystem from "your-design-system"

export default function Layout({ children }) {
  return (
    <MDXProvider
      components={{
        // Map HTML element tag to React component
        h1: DesignSystem.H1,
        h2: DesignSystem.H2,
        h3: DesignSystem.H3,
        // Or define component inline
        p: props => <p {...props} style={{ color: "rebeccapurple" }} />,
      }}
    >
      {children}
    </MDXProvider>
  )
}
```

**Note:** you can also provide your own custom components to the `MDXProvider` that make them globally available while writing MDX. You can find more details about this pattern in the [Importing and Using Components in MDX guide](#).

The following components can be customized with the MDXProvider:

Tag	Name	Syntax
p	<a href="#">Paragraph</a>	
h1	<a href="#">Heading 1</a>	#
h2	<a href="#">Heading 2</a>	##
h3	<a href="#">Heading 3</a>	###
h4	<a href="#">Heading 4</a>	####
h5	<a href="#">Heading 5</a>	#####
h6	<a href="#">Heading 6</a>	#####
thematicBreak	<a href="#">Thematic break</a>	***
blockquote	<a href="#">Blockquote</a>	>
ul	<a href="#">List</a>	-
ol	<a href="#">Ordered list</a>	1.
li	<a href="#">List item</a>	

table	<a href="#">Table</a>	<code>`---</code>
tr	<a href="#">Table row</a>	<code>`This</code>
td/th	<a href="#">Table cell</a>	
pre	<a href="#">Pre</a>	<code>```js console.log()```</code>
code	<a href="#">Code</a>	<code>`console.log()`</code>
em	<a href="#">Emphasis</a>	<code>_emphasis_</code>
strong	<a href="#">Strong</a>	<code>**strong**</code>
delete	<a href="#">Delete</a>	<code>~~strikethrough~~</code>
code	<a href="#">InlineCode</a>	<code>`console.log()`</code>
hr	<a href="#">Break</a>	<code>---</code>
a	<a href="#">Link</a>	<code>https://mdxjs.com <b>or</b> [MDX] (https://mdxjs.com)</code>
img	<a href="#">Image</a>	<code>![alt] (https://mdx-logo.now.sh)</code>

## How does this work?

Components passed to the MDXProvider are used to render the HTML elements that Markdown creates. It uses [React's Context API](#).

## Related

- [MDX components](#)