React Box component

Box

The Box component serves as a wrapper component for most of the CSS utility needs.

The Box component packages all the style functions that are exposed in <code>@mui/system</code>.

 $\{\{\text{``component''}: \text{``modules/components/ComponentLinkHeader.js''}, \text{``design''}: false\}\}$

Example

The palette style function.

The sx prop

All system properties are available via the **sx** prop. In addition, the **sx** prop allows you to specify any other CSS rules you may need. Here's an example of how you can use it:

```
{{"demo": "BoxSx.js", "defaultCodeOpen": true }}
```

Overriding MUI components

The Box component wraps your component. It creates a new DOM element, a <div> that by default can be changed with the component prop. Let's say you want to use a instead:

```
\label{eq:component.js} $$ { \{\text{``demo''}: ``BoxComponent.js'', ``defaultCodeOpen'': true }\} $$ $$
```

This works great when the changes can be isolated to a new DOM element. For instance, you can change the margin this way.

However, sometimes you have to target the underlying DOM element. As an example, you may want to change the border of the Button. The Button component defines its own styles. CSS inheritance doesn't help. To workaround the problem, you can use the sx prop directly on the child if it is a MUI component.

API
import Box from '@mui/material/Box';

Name	Type	Default	Description
children	node		Box render function or node.
component	union: string func object	'div'	The component used for the root node. Either a string to use a DOM element or a
sx	object	{}	component. Accepts all system properties, as well as any valid CSS properties.

System props

As a CSS utility component, the Box also supports all system properties. You can use them as prop directly on the component. For instance, a margin-top:

<Box $mt={2}>$