## **Properties**

This page lists all of the custom system properties, how are they linked with the theme, and which CSS properties they compute. All other regular CSS properties and selectors are supported too.

## **Properties reference table**

Note that this table only lists custom properties, all other regular CSS properties and selectors are supported. You can check out the <u>legend</u> below.

System key(s)	CSS property/properties	System style function	Theme mapping
border	border	border	\${value}px solid
borderBottom	border-bottom	borderBottom	\${value}px solid
borderColor	border-color	borderColor	theme.palette[value]
borderLeft	border-left	borderLeft	\${value}px solid
borderRadius	border-radius	<u>borderRadius</u>	<pre>theme.shape.borderRadius * value</pre>
borderRight	border-right	<u>borderRight</u>	\${value}px solid
borderTop	border-top	<u>borderTop</u>	\${value}px solid
boxShadow	box-shadow	boxShadow	theme.shadows[value]
displayPrint	display	displayPrint	none
display	display	displayRaw	none
alignContent	align-content	alignContent	none
alignItems	align-items	<u>alignItems</u>	none
alignSelf	align-self	alignSelf	none
flex	flex	flex	none
flexDirection	flex-direction	flexDirection	none
flexGrow	flex-grow	flexGrow	none
flexShrink	flex-shrink	flexShrink	none
flexWrap	flex-wrap	<u>flexWrap</u>	none
justifyContent	justify-content	justifyContent	none
order	order	order	none
gap	gap	g <u>ap</u>	theme.spacing(value)
columnGap	column-gap	<u>columnGap</u>	theme.spacing(value)

rowGap	row-gap	<u>rowGap</u>	theme.spacing(value)
gridColumn	grid-column	gridColumn	none
gridRow	grid-row	gridRow	none
gridAutoFlow	grid-auto-flow	gridAutoFlow	none
gridAutoColumns	grid-auto-columns	gridAutoColumns	none
gridAutoRows	grid-auto-rows	gridAutoRows	none
gridTemplateColumns	grid-template-columns	gridTemplateColumns	none
gridTemplateRows	grid-template-rows	gridTemplateRows	none
gridTemplateAreas	grid-template-areas	<u>gridTemplateAreas</u>	none
gridArea	grid-area	gridArea	none
bgcolor	background-color	<u>bgcolor</u>	theme.palette[value]
color	color	color	theme.palette[value]
bottom	bottom	bottom	none
left	left	<u>left</u>	none
position	position	<u>position</u>	none
right	right	right	none
top	top	<u>top</u>	none
zIndex	z-index	zIndex	theme.zIndex[value]
height	height	<u>height</u>	none
maxHeight	max-height	maxHeight	none
maxWidth	max-width	maxWidth	none
minHeight	min-height	minHeight	none
minWidth	min-width	minWidth	none
width	width	width	none
boxSizing	box-sizing	boxSizing	none
m, margin	margin	<u>spacing</u>	theme.spacing(value)
mb, marginBottom	margin-bottom	<u>spacing</u>	theme.spacing(value)
ml, marginLeft	margin-left	<u>spacing</u>	theme.spacing(value)
mr, marginRight	margin-right	<u>spacing</u>	theme.spacing(value)
mt, marginTop	margin-top	<u>spacing</u>	theme.spacing(value)
mx, marginX	margin-left, margin-right	spacing	theme.spacing(value)

my, marginY	margin-top, margin-bottom	<u>spacing</u>	theme.spacing(value)
marginInline	margin-inline	spacing	theme.spacing(value)
marginInlineStart	margin-inline-start	<u>spacing</u>	theme.spacing(value)
marginInlineEnd	margin-inline-end	<u>spacing</u>	theme.spacing(value)
marginBlock	margin-block	<u>spacing</u>	theme.spacing(value)
marginBlockStart	margin-block-start	<u>spacing</u>	theme.spacing(value)
marginBlockEnd	margin-block-end	spacing	theme.spacing(value)
p, padding	padding	spacing	theme.spacing(value)
pb, paddingBottom	padding-bottom	spacing	theme.spacing(value)
pl, paddingLeft	padding-left	<u>spacing</u>	theme.spacing(value)
pr, paddingRight	padding-right	spacing	theme.spacing(value)
pt, paddingTop	padding-top	spacing	theme.spacing(value)
px, paddingX	padding-left, padding-right	spacing	theme.spacing(value)
py, paddingY	padding-top, padding-bottom	spacing	theme.spacing(value)
paddingInline	padding-inline	spacing	theme.spacing(value)
paddingInlineStart	padding-inline-start	spacing	theme.spacing(value)
paddingInlineEnd	padding-inline-end	spacing	theme.spacing(value)
paddingBlock	padding-block	spacing	theme.spacing(value)
paddingBlockStart	padding-block-start	spacing	theme.spacing(value)
paddingBlockEnd	padding-block-end	spacing	theme.spacing(value)
typography	font-family, font-weight, font-size, line-height, letter-spacing, text- transform	<u>typography</u>	theme.typography[value]
fontFamily	font-family	<u>fontFamily</u>	theme.typography[value]
fontSize	font-size	<u>fontSize</u>	theme.typography[value]
fontStyle	font-style	<u>fontStyle</u>	theme.typography[value]
fontWeight	font-weight	<u>fontWeight</u>	theme.typography[value]
letterSpacing	letter-spacing	<u>letterSpacing</u>	theme.typography[value]
lineHeight	line-height	lineHeight	theme.typography[value]
textAlign	text-align	<u>textAlign</u>	none

## Legend

Let's take one row from the table above, for example:

System key(s)	CSS property/properties	System style function	Theme mapping
mb, marginBottom	margin-bottom	spacing	theme.spacing(value)

and detail each column:

• **System keys**. The column lists the key(s) by which you can use this property with the sx prop (or as a system function).

```
<Button sx={{ mb: 3 }}>
// or
<Box mb={3}>
// or
<Box marginBottom={3}>
```

• **CSS properties**. The column describes which CSS property will be generated when this system property is used.

```
.my-class {
  margin-bottom: Xpx;
}
```

- System style function. The column lists the function which generates the properties shown in the other columns, as a reference in case you want to add this functionality to your custom components. The functions can be imported from <code>@mui/system</code>. You can see an example of using the style functions on the <u>advanced page</u>. The content links to the documentation page where this properties are described; in this example, the <u>spacing</u> page.
- **Theme mapping**. Lastly, the column tells you how this property is wired with the theme with this example, whatever value you provide will be used as input to the theme.spacing helper.

Let's take a look at an example:

```
<Button sx={{ mb: 3 }} />

// is equivalent to
<Button sx={{ marginBottom: theme => theme.spacing(3)}} />
```

As the default theme spacing is 8px, this will result in the following CSS class:

```
.my-class {
  margin-bottom: 24px;
}
```