



Grid API

API reference docs for the React Grid component. Learn about the props, CSS, and other APIs of this exported module.



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Demos



For examples and details on the usage of this React component, visit the component demo pages:

Grid

Import

```
import Grid from '@mui/material/Grid';
// or
import { Grid } from '@mui/material';
```

Learn about the difference by reading this guide on minimizing bundle size.

Props

View: Table ▼

Props of the native component are also available.

Name	Туре	Default	Description
children	node	-	The content of the component.

Name	Туре	Default	Description
classes	object	-	See <u>CSS classes API</u> below for more details.
columns	Array <number> number object</number>	12	The number of columns.
columnSpacing	Array <number string="" =""> number object string</number>	-	Defines the horizontal space between the type item components. It overrides the value of the spacing prop.
component	elementType	-	
container	bool	false	If true, the component will have the flex container behavior. You should be wrapping items with a container.
direction	<pre>'column-reverse' 'column' 'row-reverse' 'row' Array<'column- reverse' 'column' 'row-reverse' 'row'> object</pre>	'row'	Defines the flex-direction style property. It is applied for all screen sizes.
item	bool	false	
lg	'auto' number bool	false	If a number, it sets the number of columns the grid item uses. It can't be greater than the total number of columns of the container (12 by default). If 'auto', the grid item's width matches its content. If false, the prop is ignored. If true, the grid item's width grows to use the space available in the grid container. The value is applied for the lg breakpoint and wider screens if not overridden.

Name	Туре	Default	Description
md	'auto' number bool	false	If a number, it sets the number of columns the grid item uses. It can't be greater than the total number of columns of the container (12 by default). If 'auto', the grid item's width matches its content. If false, the prop is ignored. If true, the grid item's width grows to use the space available in the grid container. The value is applied for the md breakpoint and wider screens if not overridden.
rowSpacing	Array <number string="" =""> number object string</number>	-	Defines the vertical space between the type item components. It overrides the value of the spacing prop.
SM	'auto' number bool	false	If a number, it sets the number of columns the grid item uses. It can't be greater than the total number of columns of the container (12 by default). If 'auto', the grid item's width matches its content. If false, the prop is ignored. If true, the grid item's width grows to use the space available in the grid container. The value is applied for the sm breakpoint and wider screens if not overridden.
spacing	Array <number string="" =""> number object string</number>	0	Defines the space between the type item components. It can only be used on a type container component.
SX	Array <func bool="" object="" =""> func object</func>	-	See the <u>`sx` page</u> for more details.
wrap	'nowrap' 'wrap-reverse' 'wrap'	'wrap'	Defines the flex-wrap style property. It's applied for all screen sizes.

Name	Туре	Default	Description
χl	'auto' number bool	false	If a number, it sets the number of columns the grid item uses. It can't be greater than the total number of columns of the container (12 by default). If 'auto', the grid item's width matches its content. If false, the prop is ignored. If true, the grid item's width grows to use the space available in the grid container. The value is applied for the xl breakpoint and wider screens if not overridden.
xs	'auto' number bool	false	If a number, it sets the number of columns the grid item uses. It can't be greater than the total number of columns of the container (12 by default). If 'auto', the grid item's width matches its content. If false, the prop is ignored. If true, the grid item's width grows to use the space available in the grid container. The value is applied for all the screen sizes with the lowest priority.
zeroMinWidth	bool	false	

As a CSS utility, the Grid component also supports all <u>system</u> properties. You can use them as props directly on the component.

The ref is forwarded to the root element.

Theme default props

You can use MuiGrid to change the default props of this component with the theme.

CSS classes

View: Table ▼

These class names are useful for styling with CSS. They are applied to the component's slots when specific states are triggered.

Class name	Rule name	Description
.MuiGrid-container	container	Styles applied to the root element if container={true}.
.MuiGrid-direction-xs- column	direction-xs- column	Styles applied to the root element if direction="column".
.MuiGrid-direction-xs- column-reverse	direction-xs- column-reverse	Styles applied to the root element if direction="column-reverse".
.MuiGrid-direction-xs- row-reverse	direction-xs-row- reverse	Styles applied to the root element if direction="row-reverse".
.MuiGrid-grid-xs-1	grid-xs-1	
.MuiGrid-grid-xs-10	grid-xs-10	
.MuiGrid-grid-xs-11	grid-xs-11	
.MuiGrid-grid-xs-12	grid-xs-12	
.MuiGrid-grid-xs-2	grid-xs-2	
.MuiGrid-grid-xs-3	grid-xs-3	
.MuiGrid-grid-xs-4	grid-xs-4	
.MuiGrid-grid-xs-5	grid-xs-5	
.MuiGrid-grid-xs-6	grid-xs-6	
.MuiGrid-grid-xs-7	grid-xs-7	
.MuiGrid-grid-xs-8	grid-xs-8	
.MuiGrid-grid-xs-9	grid-xs-9	

Class name	Rule name	Description
.MuiGrid-grid-xs-auto	grid-xs-auto	
.MuiGrid-grid-xs-true	grid-xs-true	
.MuiGrid-item	item	Styles applied to the root element if `item= {true}`.
.MuiGrid-root	root	Styles applied to the root element.
.MuiGrid-spacing-xs-1	spacing-xs-1	
.MuiGrid-spacing-xs-10	spacing-xs-10	
.MuiGrid-spacing-xs-2	spacing-xs-2	
.MuiGrid-spacing-xs-3	spacing-xs-3	
.MuiGrid-spacing-xs-4	spacing-xs-4	
.MuiGrid-spacing-xs-5	spacing-xs-5	
.MuiGrid-spacing-xs-6	spacing-xs-6	
.MuiGrid-spacing-xs-7	spacing-xs-7	
.MuiGrid-spacing-xs-8	spacing-xs-8	
.MuiGrid-spacing-xs-9	spacing-xs-9	
.MuiGrid-wrap-xs- nowrap	wrap-xs-nowrap	Styles applied to the root element if wrap="nowrap".
.MuiGrid-wrap-xs-wrap- reverse	wrap-xs-wrap- reverse	Styles applied to the root element if wrap="reverse".
.MuiGrid-zeroMinWidth	zeroMinWidth	Styles applied to the root element if

Class name	Rule name	Description	
		`zeroMinWidth={true}`.	

You can override the style of the component using one of these customization options:

- With a global class name.
- With a rule name as part of the component's <u>styleOverrides</u> <u>property</u> in a custom theme.

