CSS Grid

Quickly manage the layout, alignment, and sizing of grid columns, navigation, components, and more with a full suite of responsive grid utilities.

If you are **new to or unfamiliar with grid**, you're encouraged to read this CSS-Tricks grid guide.

Properties for the parent

display

To define a grid container, you must specify the display CSS property to have one of the values: grid or inline-grid.

```
{{"demo": "Display.js", "defaultCodeOpen": false}}

<Box sx={{ display: 'grid' }}>...</Box>
<Box sx={{ display: 'inline-grid' }}>...</Box>
```

grid-template-rows

The grid-template-rows property defines the line names and track sizing functions of the grid rows.

```
{{"demo": "GridTemplateRows.js", "bg": true}}
```

grid-template-columns

The grid-template-columns property defines the line names and track sizing functions of the grid columns.

```
{{"demo": "GridTemplateColumns.js", "bg": true}}
```

gap

The gap: size property specifies the gap between the different items inside the CSS grid.

```
{{"demo": "Gap.js", "bg": true}}
```

row-gap & column-gap

The row-gap and column-gap CSS properties allow for specifying the row and column gaps independently.

```
{{"demo": "RowAndColumnGap.js", "bg": true}}
```

grid-template-areas

The grid-template-area property defines a grid template by referencing the names of the grid areas which are specified with the grid-area property.

```
{{"demo": "GridTemplateAreas.js", "bg": true}}
```

grid-auto-columns

The grid-auto-column property specifies the size of an implicitly-created grid column track or pattern of tracks.

```
{{"demo": "GridAutoColumns.js", "bg": true}}
```

On the demo above, the second non-visible column has a width of 1fr/4 which is approximately equal to 25%.

grid-auto-rows

The grid-auto-rows property specifies the size of an implicitly-created grid row track or pattern of tracks.

```
{{"demo": "GridAutoRows.js", "bg": true}}
```

grid-auto-flow

The grid-auto-flow property controls how the auto-placement algorithm works, specifying exactly how auto-placed items get flowed into the grid.

```
{{"demo": "GridAutoFlow.js", "bg": true}}
```

Properties for the children

grid-column

The grid-column property is a shorthand for grid-column-start + grid-column-end. You can see how it's used in the grid-auto-columns example.

You can either set the start and end line:

```
<Box sx={{ gridColumn: '1 / 3' }}>...
Or set the number of columns to span:
```

```
<Box sx={{ gridColumn: 'span 2' }}>...
```

grid-row

The grid-row property is a shorthand for grid-row-start + grid-row-end. You can see how it's used in the grid-auto-rows example.

You can either set the start and end line:

```
<Box sx={{ gridRow: '1 / 3' }}>...
Or set the number of rows to span:
<Box sx={{ gridRow: 'span 2' }}>...
```

grid-area

The grid-area property allows you to give an item a name so that it can be referenced by a template created with the grid-template-areas property. You can see how it's used in the grid-template-area example.

```
<Box sx={{ gridArea: 'header' }}>...
```

API
import { grid } from '@mui/system';

			Theme
Import name	Prop	CSS property	key
gap	gap	gap	none
columnGap	columnGap	column-gap	none
rowGap	rowGap	row-gap	none
gridColumn	gridColumn	grid-column	none
gridRow	gridRow	grid-row	none
${ t gridAutoFlow}$	gridAutoFlow	grid-auto-flow	none
${ t grid}{ t AutoColumns}$	gridAutoColumns	grid-auto-columns	none
gridAutoRows	gridAutoRows	grid-auto-rows	none
$\verb gridTemplateColumnsgrid-template-columnsmone \\$			
${\tt gridTemplateRows}$	${ t gridTemplateRows}$	grid-template-rows	none
${\tt gridTemplateAreas}$	${\tt gridTemplateAreas}$	grid-template-areas	none
gridArea	gridArea	grid-area	none