

CSS Grid Layout Module

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Lorem Ipsum

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CSS Grid Layout

The Grid Layout Module offers a grid-based layout system, with rows and columns.

The Grid Layout Module allows developers to easily create complex web layouts.

The Grid Layout Module makes it easier to design a responsive layout structure, without using float or positioning.

The CSS grid properties are supported in all modern browsers.

Grid vs. Flexbox

The CSS Grid Layout should be used for two-dimensional layout, with rows AND columns.

The [CSS Flexbox Layout](#) should be used for one-dimensional layout, with rows OR columns.

CSS Grid Components

A grid always consists of:

- a **Grid Container** - the parent (container) `<div>` element
- **Grid Items** - the items inside the container `<div>`

Grid Container and Grid Items

A grid layout consists of a parent element (the grid container), with one or more grid items.

All direct children of the grid container automatically become grid items.

Example

```
<div class="container">
  <div>1</div>
  <div>2</div>
  <div>3</div>
  <div>4</div>
  <div>5</div>
  <div>6</div>
  <div>7</div>
  <div>8</div>
</div>
```

Result:

1	2	3
4	5	6
7	8	

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Display Grid Property

The `<div>` element becomes a grid container when its `display` property is set to `grid` or `inline-grid`.

Example

```
.container {  
  display: grid;  
}
```

Result:

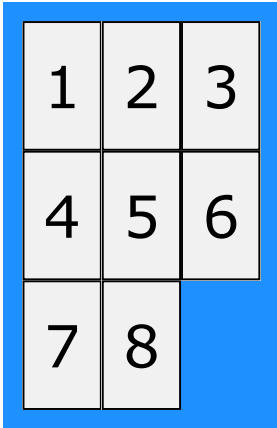
1	2	3
4	5	6
7	8	

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Example

```
.container {  
  display: inline-grid;  
}
```

Result:



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All CSS Grid Properties

Property	Description
<u>align-content</u>	Vertically aligns the whole grid inside the container (when total grid size is smaller than container)
<u>align-items</u>	Aligns content in a grid item along the column axis
<u>align-self</u>	Aligns the content for a specific grid item along the column axis
<u>display</u>	Specifies the display behavior (the type of rendering box) of an element
<u>column-gap</u>	Specifies the gap between the columns
<u>gap</u>	A shorthand property for the <i>row-gap</i> and the <i>column-gap</i> properties
<u>grid</u>	A shorthand property for the <i>grid-template-rows</i> , <i>grid-template-columns</i> , <i>grid-template-areas</i> , <i>grid-auto-rows</i> , <i>grid-auto-</i>

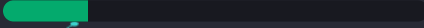
	<i>columns</i> , and the <i>grid-auto-flow</i> properties
<u>grid-area</u>	Either specifies a name for the grid item, or this property is a shorthand property for the <i>grid-row-start</i> , <i>grid-column-start</i> , <i>grid-row-end</i> , and <i>grid-column-end</i> properties
<u>grid-auto-columns</u>	Specifies a default column size
<u>grid-auto-flow</u>	Specifies how auto-placed items are inserted in the grid
<u>grid-auto-rows</u>	Specifies a default row size
<u>grid-column</u>	A shorthand property for the <i>grid-column-start</i> and the <i>grid-column-end</i> properties
<u>grid-column-end</u>	Specifies where to end the grid item
<u>grid-column-start</u>	Specifies where to start the grid item
<u>grid-row</u>	A shorthand property for the <i>grid-row-start</i> and the <i>grid-row-end</i> properties
<u>grid-row-end</u>	Specifies where to end the grid item
<u>grid-row-start</u>	Specifies where to start the grid item
<u>grid-template</u>	A shorthand property for the <i>grid-template-rows</i> , <i>grid-template-columns</i> and <i>grid-areas</i> properties
<u>grid-template-areas</u>	Specifies how to display columns and rows, using named grid items
<u>grid-template-columns</u>	Specifies the size of the columns, and how many columns in a grid layout
<u>grid-template-rows</u>	Specifies the size of the rows in a grid layout
<u>justify-content</u>	Horizontally aligns the whole grid inside the container (when total grid size is smaller than container)
<u>justify-self</u>	Aligns the content for a specific grid item along the row axis
<u>place-self</u>	A shorthand property for the <i>align-self</i> and the <i>justify-self</i> properties
<u>place-content</u>	A shorthand property for the <i>align-content</i> and the <i>justify-content</i> properties
<u>row-gap</u>	Specifies the gap between the grid rows

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