



CSS Grid Layout Module

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Grid Layout

The CSS Grid Layout Module offers a grid-based layout system, with rows and columns, making it easier to design web pages without having to use floats and positioning.

Browser Support

The grid properties are supported in all modern browsers.

57.0	16.0	52.0	10	44

A grid layout consists of a parent element, with one or more child elements.

Example

```
<div class="grid-container">
  <div class="grid-item">1</div>
  <div class="grid-item">2</div>
  <div class="grid-item">3</div>
  <div class="grid-item">4</div>
  <div class="grid-item">5</div>
  <div class="grid-item">6</div>
  <div class="grid-item">7</div>
  <div class="grid-item">8</div>
  <div class="grid-item">9</div>
</div>
```

1	2	3
4	5	6
7	8	9

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Display Property

An HTML element becomes a grid container by setting the `display` property to `grid` or `inline-grid`.

HTML

CSS

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

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Example

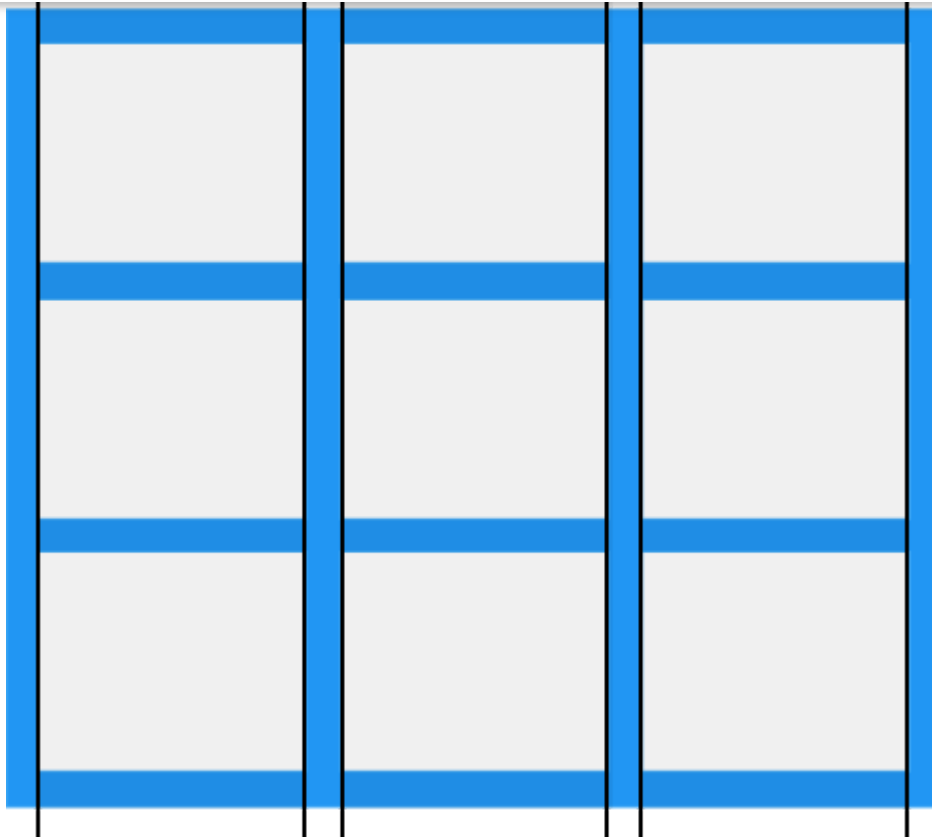
```
.grid-container {  
  display: inline-grid;  
}
```

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

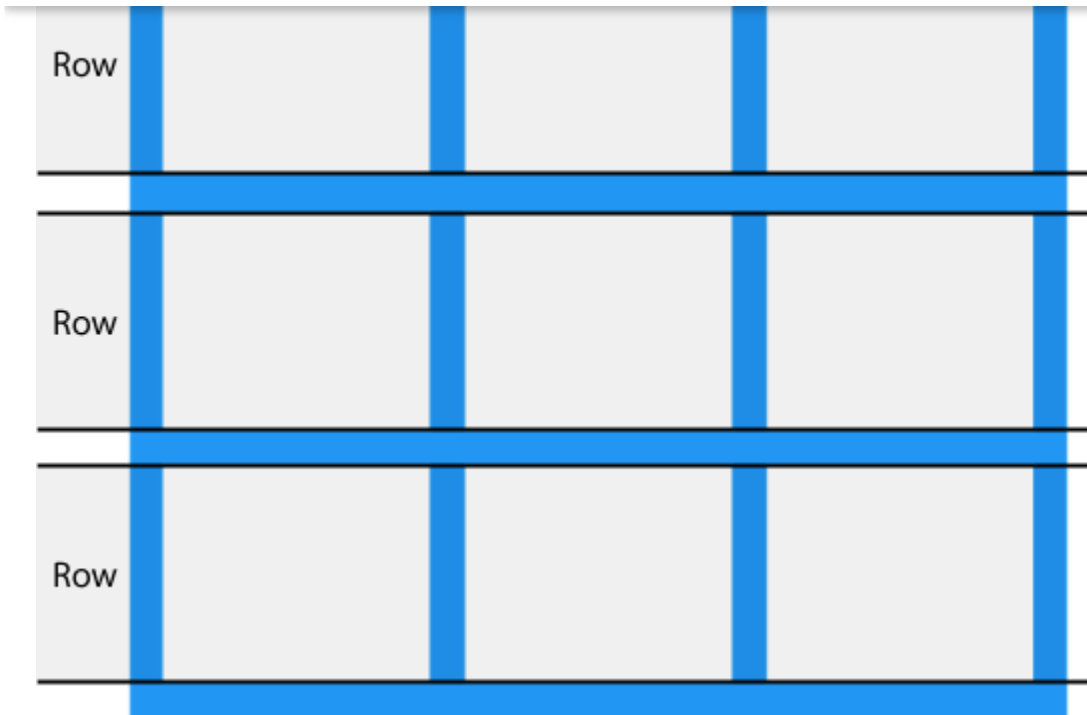
Grid Columns

The vertical line of grid items are called *columns*.

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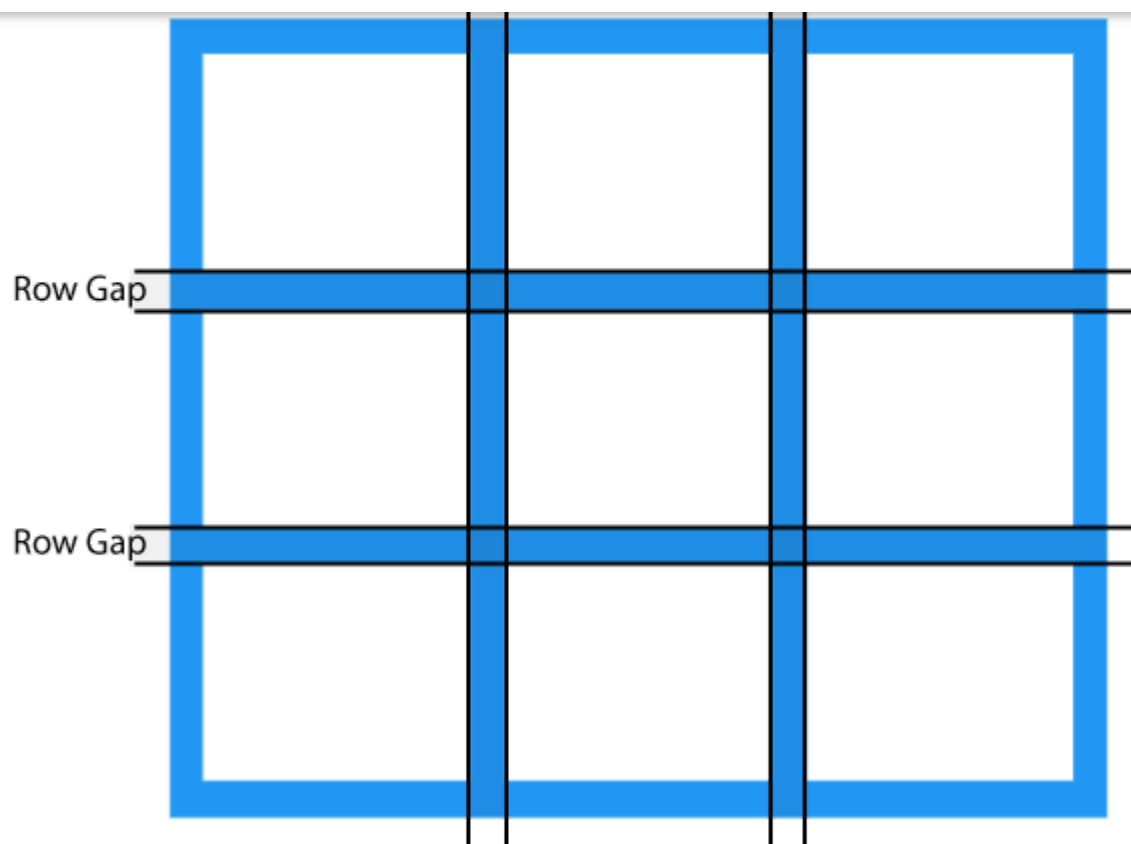
Grid Rows

The horizontal line of grid items are called *rows*.

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Grid Gaps

The space between each column/row are called *gaps*.

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You can adjust the gap size by using one of the following properties:

`grid-column-gap`

`grid-row-gap`

`grid-gap`

Example

The *grid-column-gap* property sets the gap between the columns:

```
.grid-container {  
  display: grid;  
  grid-column-gap: 50px;  
}
```

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Example

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```
.grid-container {  
  display: grid;  
  grid-row-gap: 50px;  
}
```

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Example

The *grid-gap* property is a shorthand property for the *grid-column-gap* and the *grid-row-gap* properties:

```
.grid-container {  
  display: grid;  
  grid-gap: 50px 100px;  
}
```

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Example

The *grid-gap* property can also be used to set both the row gap and the column gap in one value:

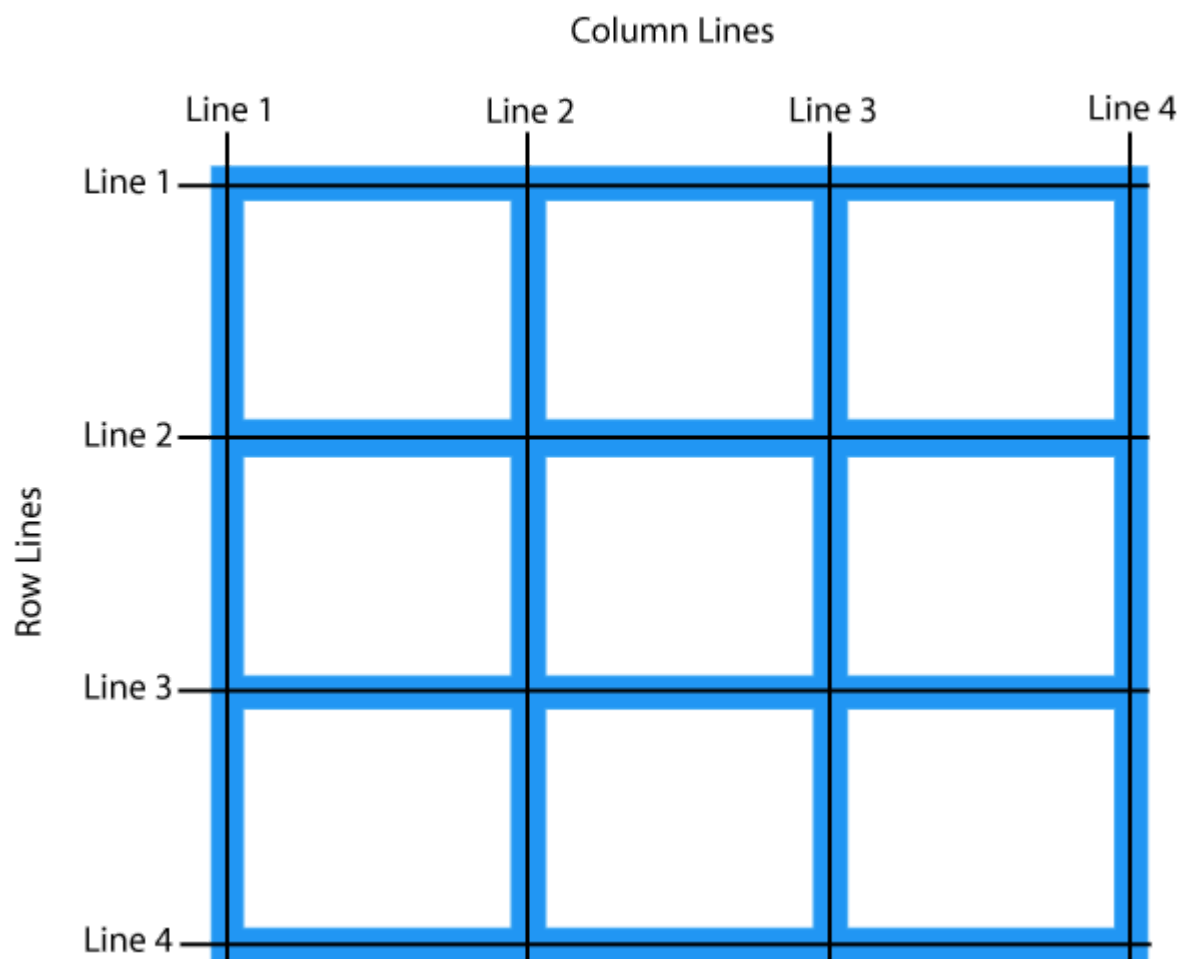
```
.grid-container {  
  display: grid;  
  grid-gap: 50px;  
}
```

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Grid Lines

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The line between rows are called *row lines*.



Refer to line numbers when placing a grid item in a grid container:

Example

Place a grid item at column line 1, and let it end on column line 3:

```
.item1 {  
  grid-column-start: 1;  
  grid-column-end: 3;  
}
```

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Place a grid item at row line 1, and let it end on row line 3:

```
.item1 {  
  grid-row-start: 1;  
  grid-row-end: 3;  
}
```

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