

GRID in CSS

In CSS, a grid is a layout system that allows you to create complex and flexible layouts for your web pages. It works by dividing a web page into a grid of rows and columns, and then placing content within those rows and columns.

The CSS Grid layout provides two-dimensional layout control, where you can place items in rows and columns. It allows you to create a grid container, which is the parent element that holds the grid items (child elements).

To Create Grid Container use the Following Property
display : grid


The **grid-template-columns** property in CSS Grid layout is used to define the columns of a grid. It specifies the size, shape, and number of columns in a grid container.

The grid-template-columns property can take one or more values, which specify the size of each column. You can use various units like pixels, percentages, em, rem, auto, and fractional units (like fr) to define the size of the columns. Here's an example that creates a grid with three columns of equal width:

```
CSS Copy code  
  
.grid-container {  
  display: grid;  
  grid-template-columns: 1fr 1fr 1fr;  
}
```

In this example, the grid-template-columns property has three values, each with a value of 1fr. The fr unit is a fractional unit that divides the available space among the columns. In this case, the available space is divided into three equal parts.

css

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```
.grid-container {  
  display: grid;  
  grid-template-columns: 200px 1fr 2fr;  
}
```


In this example, the first column is set to a fixed width of 200px, while the second and third columns are set to take up one-third and two-thirds of the remaining space, respectively.

In addition to setting the size of columns, you can also use the `grid-template-columns` property to define the number and position of grid lines, which can be used to position grid items within the grid.

The **`grid-template-rows`** property in CSS Grid layout is used to define the rows of a grid. It specifies the size, shape, and number of rows in a grid container.

The **`grid-template-rows`** property can take one or more values, which specify the size of each row. You can use various units like pixels, percentages, em, rem, auto, and fractional units (like fr) to define the size of the rows. Here's an example that creates a grid with three rows of equal height:

css

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```
.grid-container {  
  display: grid;  
  grid-template-rows: 1fr 1fr 1fr;  
}
```

In this example, the `grid-template-rows` property has three values, each with a value of 1fr. Like with `grid-template-columns`, the fr unit is a fractional unit that divides the available space among the rows. In this case, the available space is divided into three equal parts.

You can also use other units and values in combination with the fr unit to create more complex layouts. For example:

```
css Copy code  
  
.grid-container {  
  display: grid;  
  grid-template-rows: 200px 1fr 2fr;  
}
```

In this example, the first row is set to a fixed height of 200px, while the second and third rows are set to take up one-third and two-thirds of the remaining space, respectively.

In addition to setting the size of rows, you can also use the grid-template-rows property to define the number and position of grid lines, which can be used to position grid items within the grid.