

@ineuron

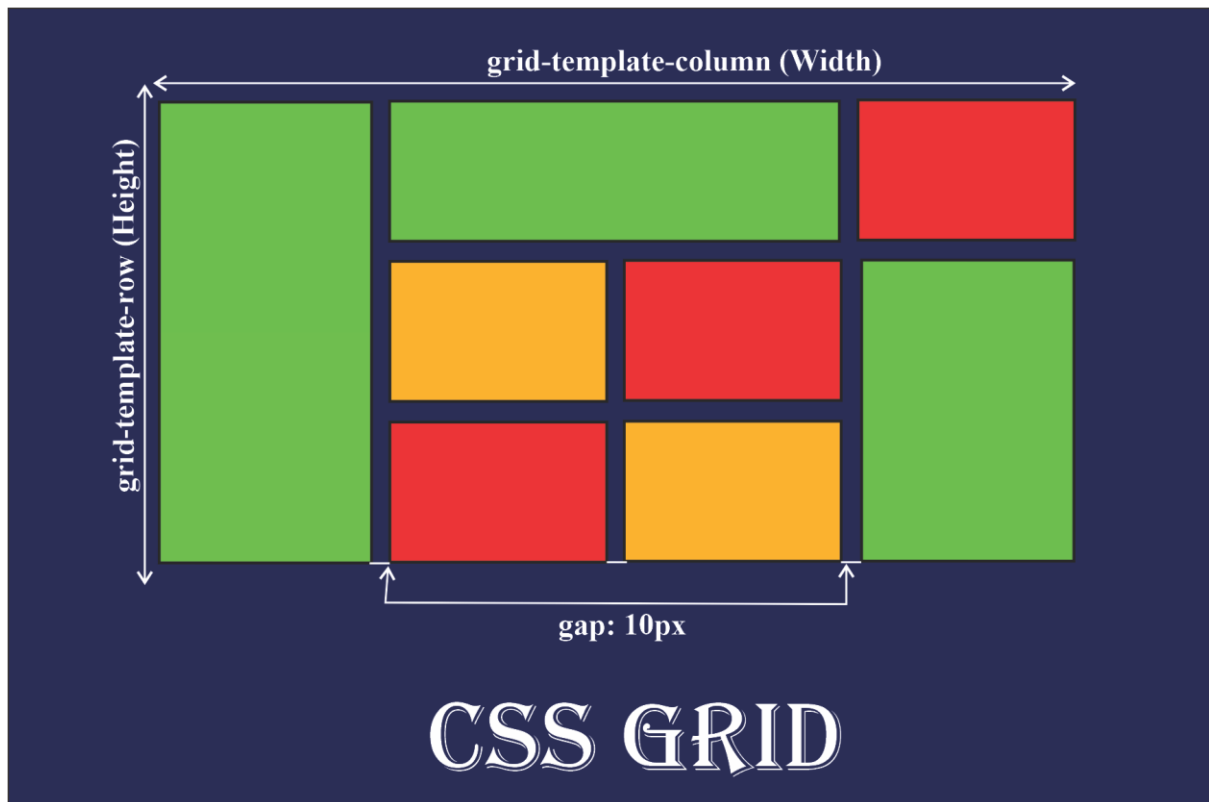
JavaScript Bootcamp 2.0

Assignment:7

CSS GRID

Email: abhinandankumar6204@gmail.com

Submitted by: Abhinandan Kumar



Introduction to CSS Grid

Hey everyone welcome to my new article CSS GRID

In this article, we will cover what is Grid in CSS, Basics terms in Grid, What the various Grid display properties are available in CSS and so many things.

Let's get started➡

What is Grid in CSS?

A grid can be defined as an **intersecting set of vertical and horizontal lines**. CSS Grid layout separates a page into major sections. Grid property offers a grid-based layout system having

rows and columns. It makes the designing of web pages easy without positioning and floating.

Basics terms of Grid:

In the basic terms of a grid, first, we have to be familiar with Grid-container, Grid-items, Grid-lines and Grid-cells.

so let see what are all these things

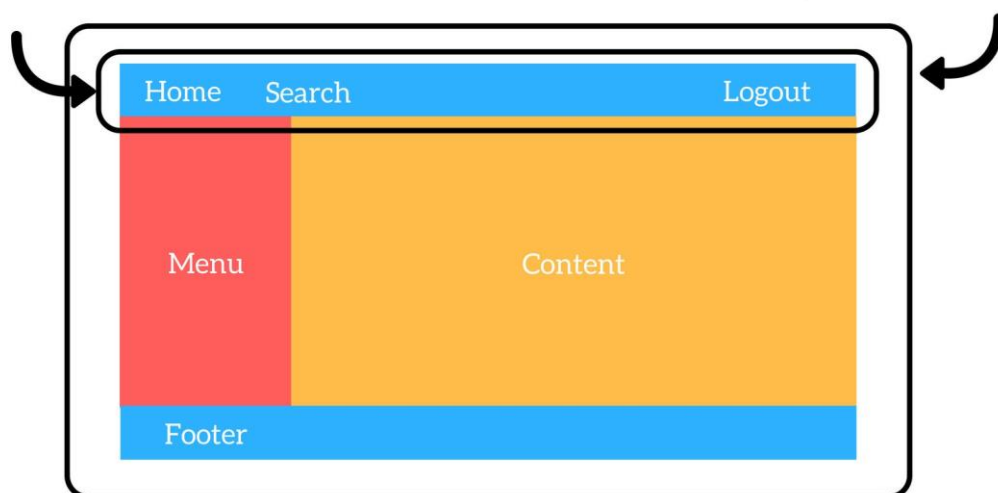
Grid Container:

A grid container is an element of any web page where we apply the display property Grid. The Grid container consists of all the grid items inside it.

In this image, you can see clearly that the upper border of the container is named a grid container and there are several things available inside it which is items.

Flexbox Container

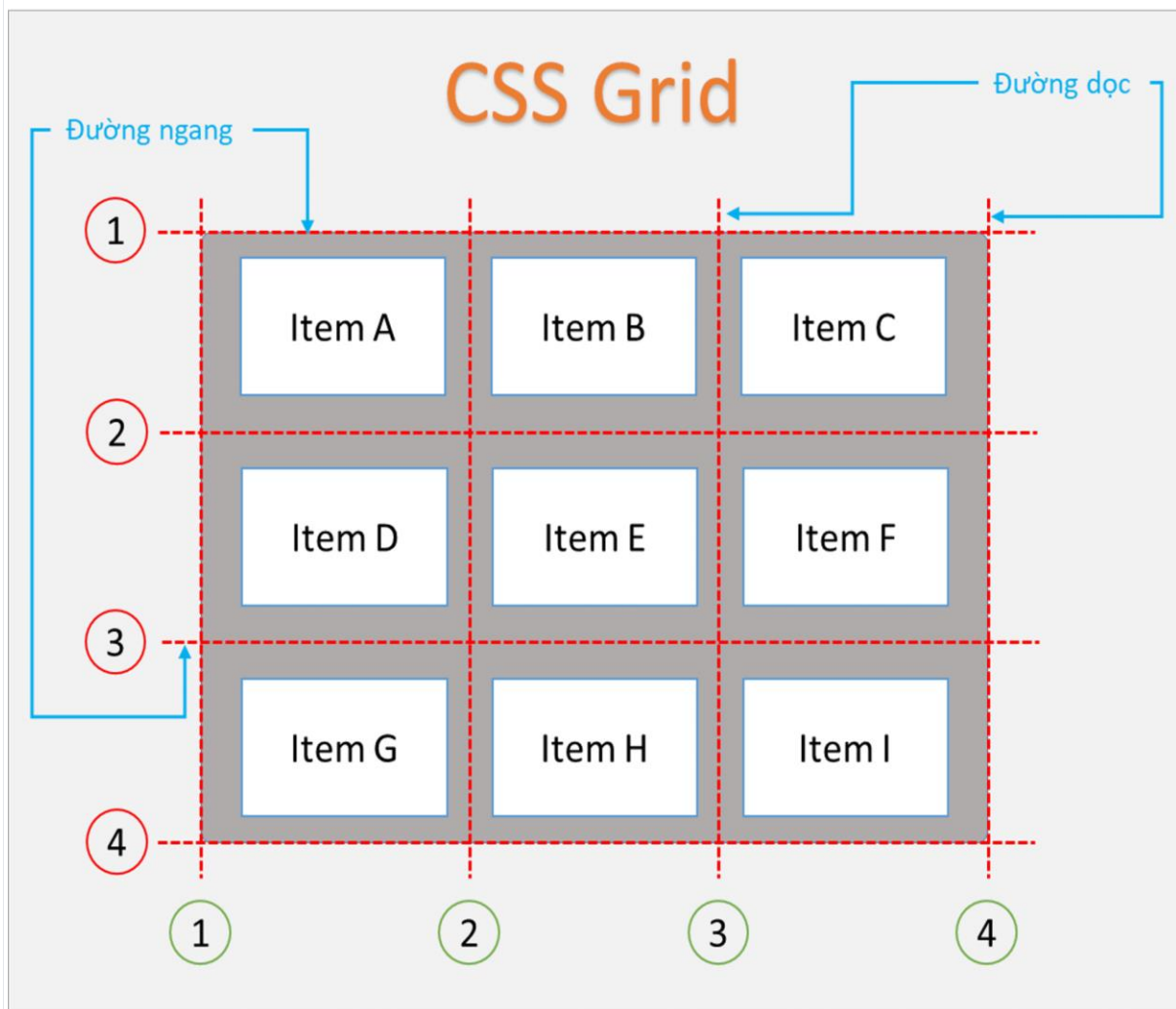
Grid Container



Grid items

The children inside the grid container are known as Grid items.

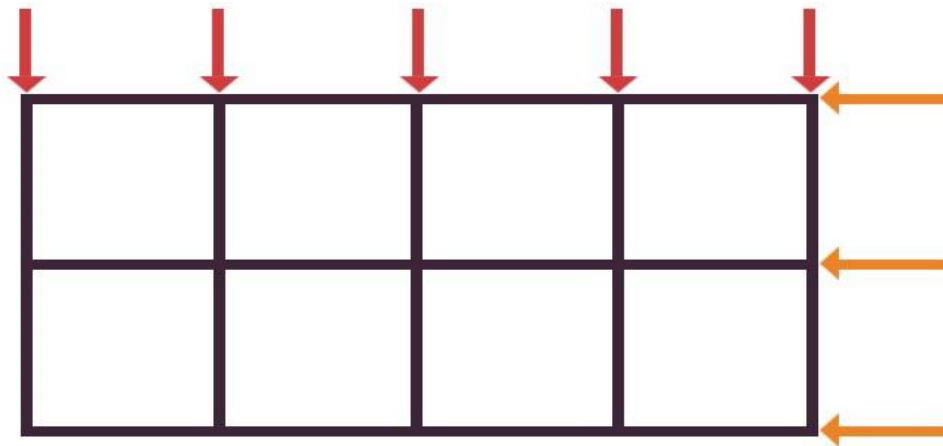
In this image items A to item I, all are Grid items of the Grid container.



Grid lines:

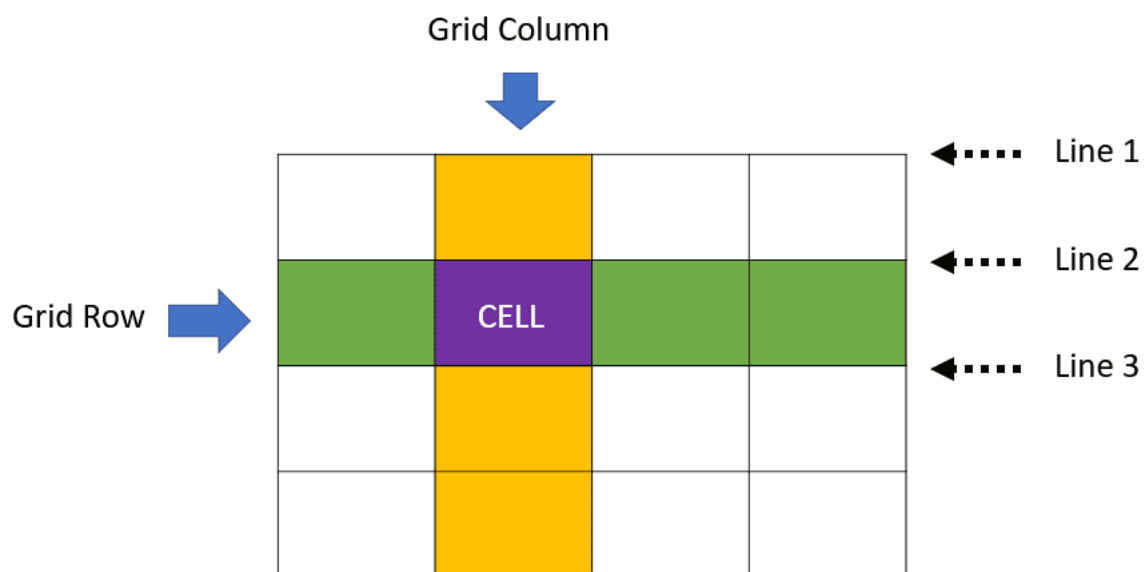
The dividing lines as known as grid lines. It can be row-wise or column-wise.

We can see clearly in this picture which is given below.



Grid cells:

The space between two rows and two columns of grid lines is known as one grid cell. The grid cell is a single unit of the grid.



Now we have a basic understanding of Grid. Now we move into the depth of the CSS grid.

Display properties of CSS Grid.

A CSS grid can be initialized using:

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

By giving the display property Grid, all the direct children automatically become grid items.

The grid-column-gap property:

This property is used to adjust the space between the columns of the CSS grid.

The grid-row-gap property:

This property is used to adjust the space between the rows of a CSS grid.

The grid-gap property:

It is a shorthand property for **grid-row-gap** and **grid-column-gap**.

EXAMPLE:

HTML code:

```
<body>
  <div class="container">
    <div class="item">A</div>
    <div class="item">B</div>
    <div class="item">C</div>
    <div class="item">D</div>
    <div class="item">E</div>
    <div class="item">G</div>
    <div class="item">H</div>
    <div class="item">I</div>

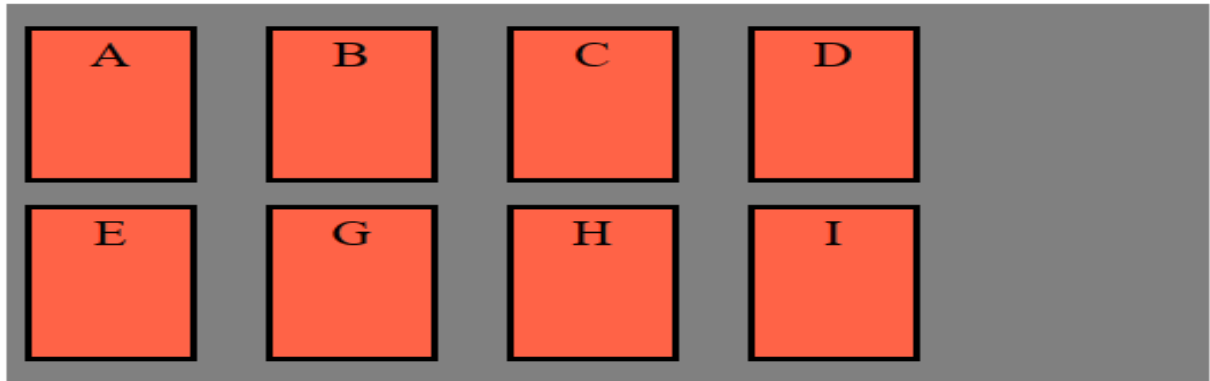
  </div>
</body>
```

CSS code:

```
.container{
  height:150px;
  display:grid;
  grid-template-columns: 50px
50px 50px 50px;
  grid-gap: 10px 20px;
  background:gray;
  padding:10px 5px;
}

.item{
  padding: 2px;
  background:tomato;
  border:2px solid black;
  text-align:center;
}
```

OUTPUT:



Note: for a single value of grid-gap, both row and column gaps can be set in one value.

Properties for grid container

1).The grid-template-columns property can be used to specify the width of columns.

```
.container{  
    display: grid;  
    grid-template-columns: 80px 120px auto;  
}
```

2).The grid-template-row property can be used to specify the height of each row.


```
.container{
    display: grid;
    grid-template-rows : 80px 120px auto;
}
```

3).The justify-content property is used to align the whole grid inside the container.

4).The align-content property is used to vertically align the whole grid inside the container.

Properties for grid items:

1).The grid-column property defines how many columns an item will span.

```
.grid-item{
    grid-column:1/5;
}
```

2).The grid-row property defines how many rows an item will span.

3).We can make an item to start on column 1 and span 3 columns like this:

```
.item{  
    grid-column:1/span 3;  
}
```

Rest of these properties there are so many properties provided by CSS Grid.

For better understanding, you can try with yourself.

THANK YOU😊