



CSS Grid Layout



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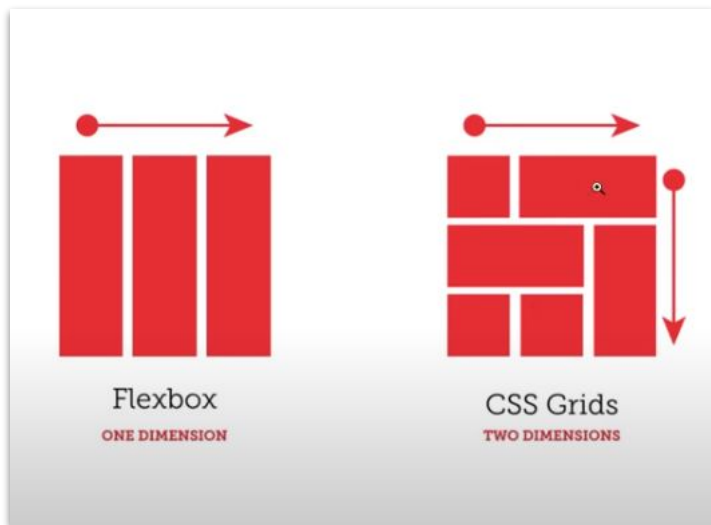


1 Introduction



Introduction

- CSS Grid Layout is the most powerful layout system available in CSS.
- It is a 2-dimensional system, meaning it can handle both columns and rows, unlike flexbox which is largely a 1-dimensional system.



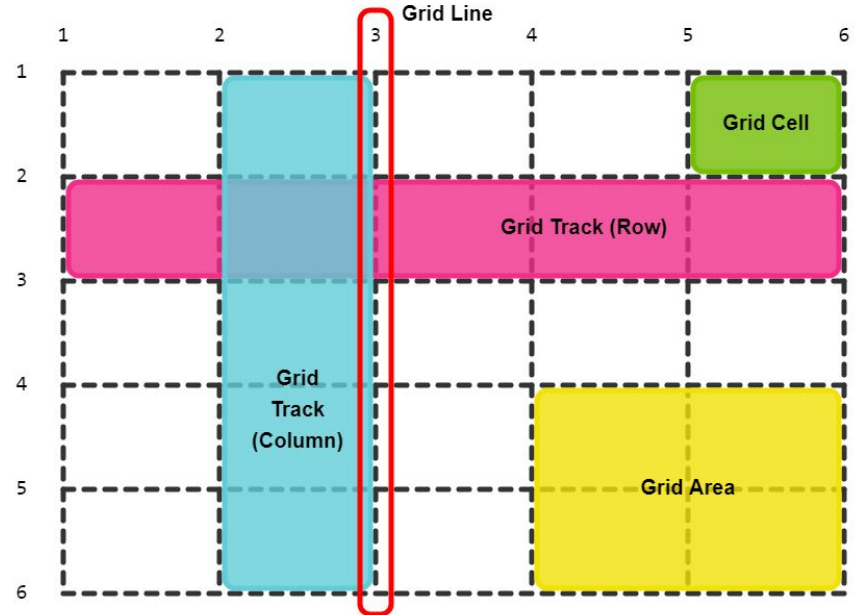


2 Terminology

Terminology



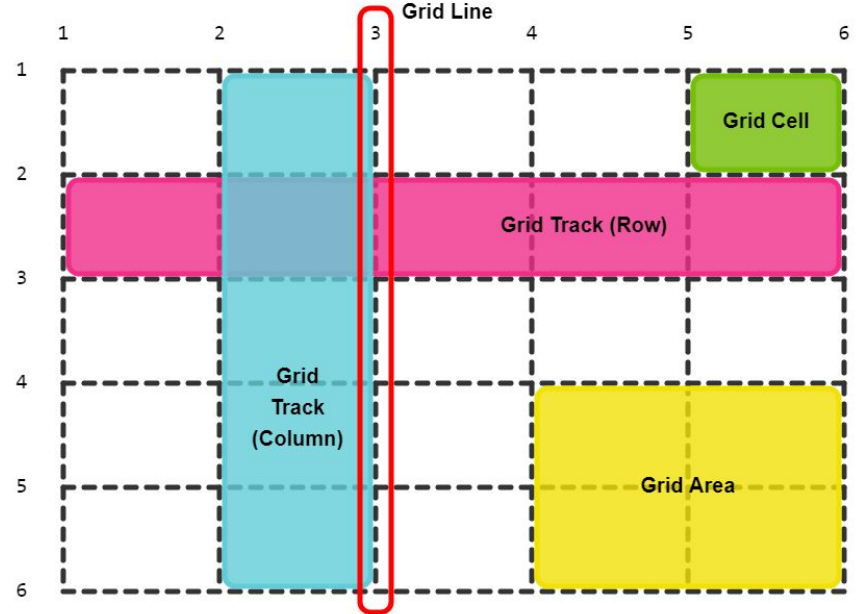
- **Grid Lines:** The vertical and horizontal lines that divide the grid and separate the columns and rows.
- **Grid cell:** A single unit of a CSS grid.
- **Grid area:** Rectangular space surrounded by four grid lines. A grid area can contain any number of grid cells.



Terminology



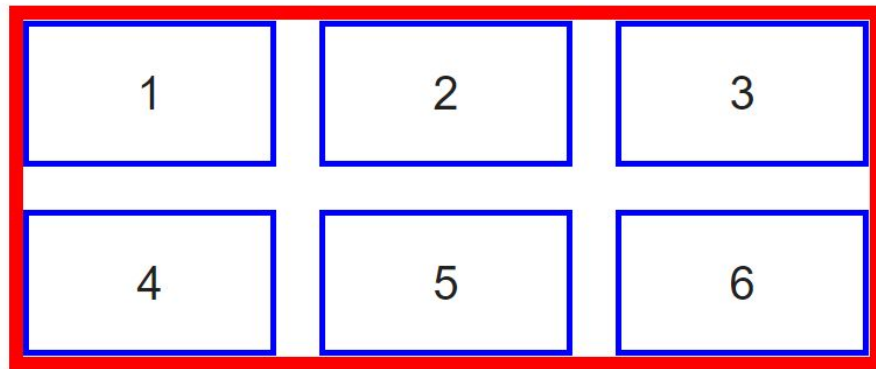
- **Grid track:** The space between two grid lines. This space can be horizontal or vertical
- **Grid row:** A horizontal track of a grid.
- **Grid column:** A vertical track of a grid.



Terminology



- **Gap** (Gutter): The space between rows and columns in a grid.





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Grid Container



Grid Container

- Grid container : The container that holds the entire CSS grid



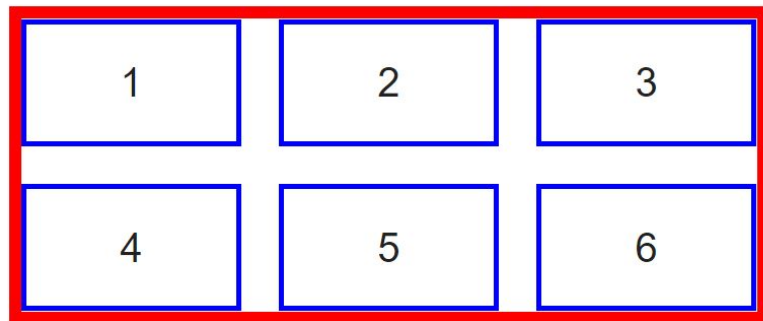
```
<div class="container">  
  <div class="item item-1"> </div>  
  <div class="item item-2"> </div>  
  <div class="item item-3"> </div>  
</div>
```



Grid Container

- Grid container : The container that holds the entire CSS grid

```
.container {  
  display: grid;  
  grid-template-columns: 1fr 1fr 1fr;  
  gap: 15px;  
  
  margin: 50px auto;  
  max-width: 300px;  
  border: 5px red solid;  
  width: auto;  
}
```





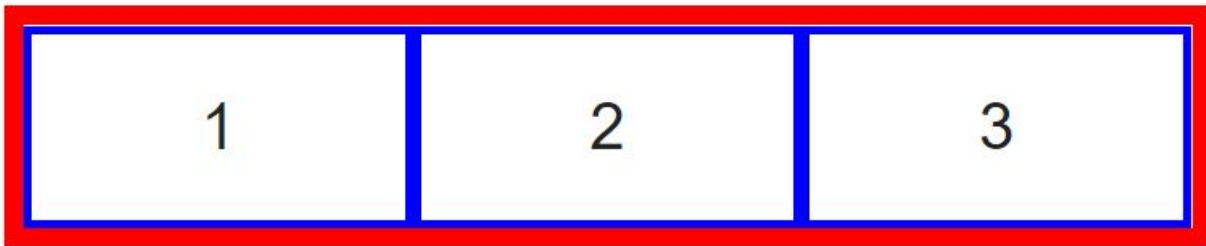
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Grid Items



Grid Items

- Grid item : Any element that is a direct child of a grid container.



```
<div class="container">
  <div class="item"> </div>
  <div class="item">
    <p class="sub-item"> </p>
  </div>
  <div class="item"> </div>
</div>
```

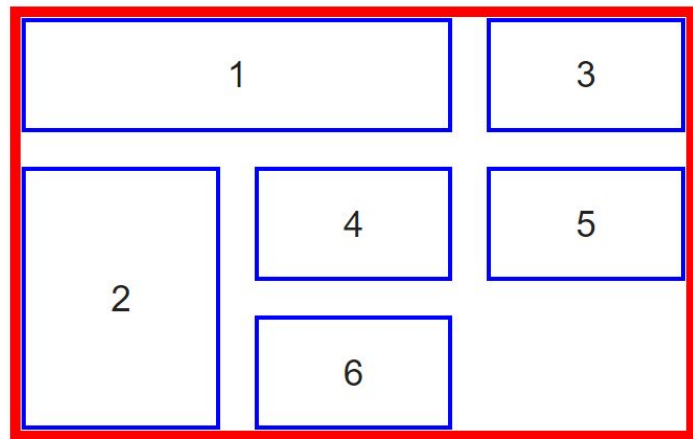
HTML



Grid Items

- grid-column
- grid-row

```
.container {  
  display: grid;  
  grid-template-columns: 1fr 1fr 1fr;  
  gap: 15px;  
}  
.item-1 {  
  grid-column: 1/3;  
}  
.item-2 {  
  grid-row: 2/4;  
}
```





THANKS!

Any questions?

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