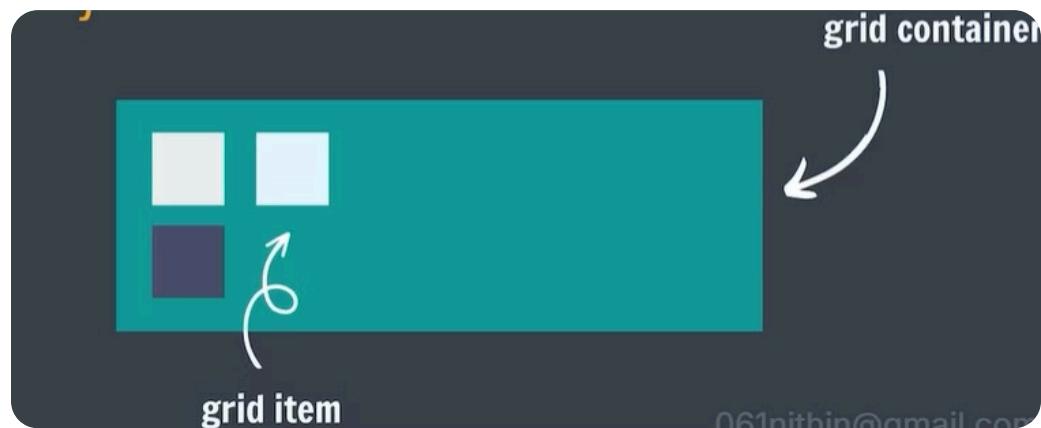
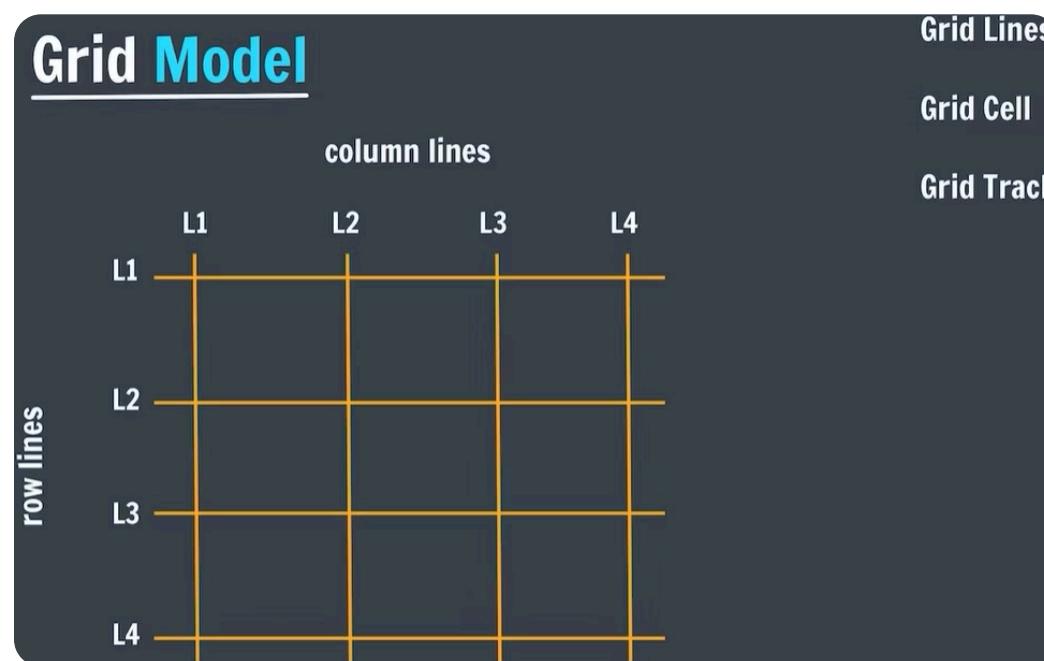


CSS Grid



Setting a container to `display: grid` transforms all direct children into grid items, enabling powerful two-dimensional layouts. Each grid item occupies a cell.

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



CSS Grid uses a two-dimensional system of explicit rows and columns. Grid lines are numbered and create this structure. Column lines run vertically, and row lines run horizontally. Grid cells form where these lines intersect. The space between any two adjacent grid lines is known as a grid track.

Grid Template

Grid template properties define the structure of your grid by setting the number and size of rows and columns.

grid-template-rows

Defines the size of number of row track

grid-template-columns

Defines size of column track.

```
.container {  
  display: grid;  
  grid-template-columns: 200px 200px 200px;  
  grid-template-rows: 100px 100px;  
}
```

Using repeat()

The repeat() function simplifies grid definitions when you have multiple tracks of the same size.

```
.container {  
  display: grid;  
  grid-template-columns: repeat(3, 200px);  
  grid-template-rows: repeat(2, 100px);  
}
```

This creates the same grid as the example above but with cleaner syntax.

Grid Gap

Grid gap controls the spacing between grid items. It creates gutters between rows and columns.

gap

Sets both row and column gaps at once.

row-gap

Controls spacing between rows.

column-gap

Controls spacing between columns.

```
.container {  
  display: grid;  
  grid-template-columns: repeat(3, 200px);  
  gap: 20px;  
}
```

Grid Columns

Grid column properties define an item's starting and ending position inside the column structure.

`grid-column-start: line_number`

Specifies which column line the item starts at.

`grid-column-end: line_number`

Specifies which column line the item ends at.

`grid-column: start_col / end_col`

Shorthand for setting both start and end positions.

`grid-column: start_col / span number`

Alternative syntax where you specify the start position and how many columns to span.

```
.item {  
  grid-column: 1 / 3; /* Spans from line 1 to line 3 */  
}
```

```
.item {  
  grid-column: 1 / span 2; /* Starts at line 1, spans 2 columns */  
}
```

Grid Rows

Grid row properties define an item's starting and ending position inside the row structure.

`grid-row-start: line_number`

Specifies which row line the item starts at.

`grid-row-end: line_number`

Specifies which row line the item ends at.

`grid-row: start_row / end_row`

Shorthand for setting both start and end positions.

`grid-row: start_row / span number`

Alternative syntax where you specify the start position and how many rows to span.

```
.item {  
  grid-row: 1 / 3; /* Spans from line 1 to line 3 */  
}  
  
.item {  
  grid-row: 1 / span 2; /* Starts at line 1, spans 2 rows */  
}
```