# PART - 3

# CSS GRID
# ( GRID CONTAINER PROPERTIES)

# CSS Grid

The CSS Grid offers a grid-based layout system, with rows and columns, making it easier to design web pages

For simplicity, I have divided the topic into three parts:

1. Grid Terminologies

2. Grid Containers (parents)

3. Grid Items (children)

In PART-1 of this Grid SERIES I have discussed about flexbox terminologies, in PART 2 I have discussed about few of the Grid Container properties and  in this part we will be discussing about rest of them.

# CSS Grid

Following are the grid container properties.

1. grid
2. gap
3. justify items
4. align items
5. place items
6. justify content
7. align content
8. place content

# CSS Grid

▶️ grid:

It is a shorthand property for the following:

① grid-template-rows

② grid-template-columns

③ grid-template-areas

④ grid-auto-rows

⑤ grid-auto-columns

⑥ grid-auto-flow

First three properties have already been discussed in the previous part of the GRID series. We will cover rest of the properties in this part !!

# CSS Grid

④ grid-auto-rows:

It sets the size for the rows in a grid container.

⑤ grid-auto-columns:

It sets size for the column in a grid container

Note: grid-template- properties are used to define the position and size, and grid-auto-* properties are used to define the size.

# CSS Grid

EXPLICIT GRID :

The three properties grid-template-rows, grid-template-columns, and grid-template-areas together define the explicit grid.

IMPLICIT GRID:

When grid items are positioned outside of the explicit grid, the grid generates implicit grid tracks.
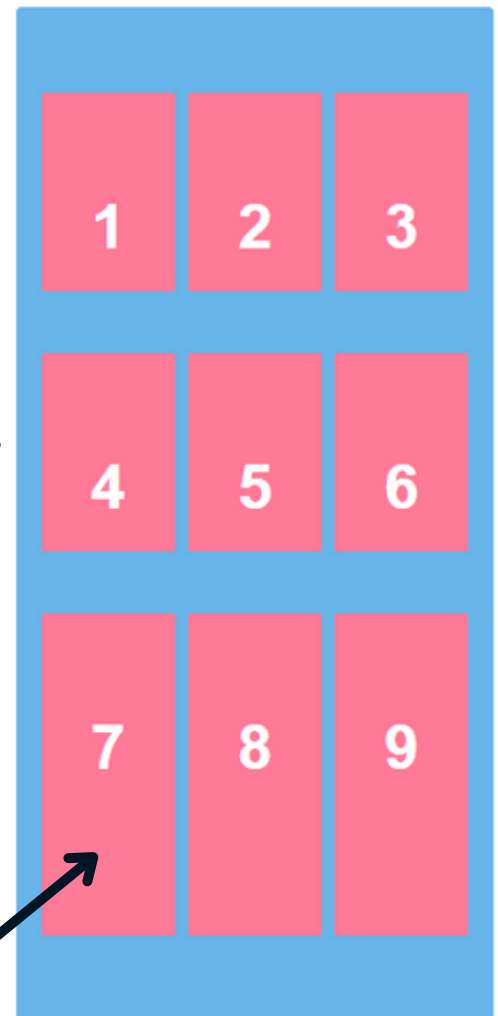
# CSS Grid Guide

**Grid Container Properties**

```css
.flex-container {
    display: grid;
    grid-template-columns: auto auto auto;
    grid-template-rows: 100px 100px;
    grid-auto-rows: 180px;

}
```

| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |

**Explicit grid**

**Implicit grid**

# CSS Grid

⑥ grid-auto-flow :

This property controls how auto-placed items get inserted into the grid.

Here, it auto-fills the columns.

# CSS Grid Guide
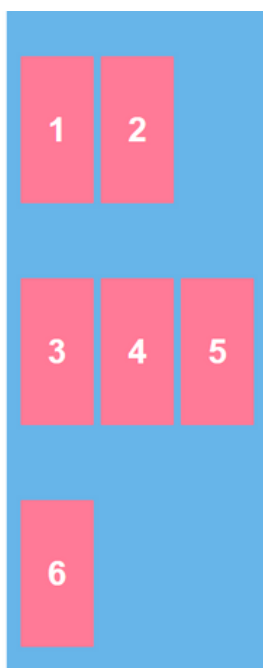
## Grid Container Properties

```css
<!-- CSS -->

.flex-container {
    display: grid;
    grid-template-columns: auto auto auto;
    grid-template-rows: auto auto auto;
    grid-auto-flow: column
}

.gitem3 {
    grid-column-start: 1;
}
```
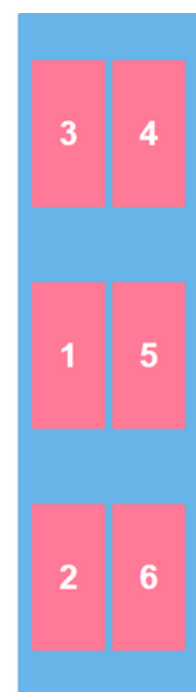
```html
<!-- HTML -->

<div class="grid-container">
    <h3
     class="gitem1">1</h3>
    <h3
     class="gitem2">2</h3>
    <h3
     class="gitem3">3</h3>
    <h3
     class="gitem4">4</h3>
    <h3
     class="gitem5">5</h3>
    <h3
    class="gitem6">6</h3>
</div>
```

**BEFORE**

**AFTER**

# CSS Grid

Thanks for reading till the end

We are still left with many GRID container properties.

Will discuss them in next part of GRID SERIES.

Stay tuned !!!!!!!

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