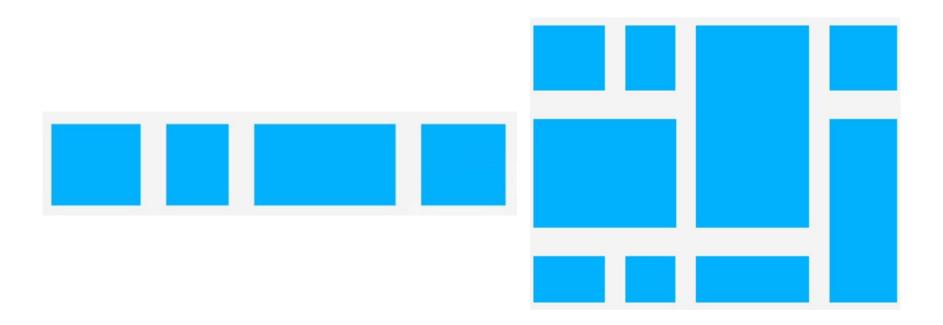
Day - 9

Grid

Introduction to Grid



Resources

- 1. <u>https://cssgridgarden.com/</u>
- 2. https://css-tricks.com/snippets/css/complete-guide-grid/
- 3. https://developer.mozilla.org/en-US/docs/Web/CSS/grid

Basic Concepts

- 1. Grid container and grid items
- 2. Rows and columns
- 3. Grid lines and gutters

Creating a grid container

- 1. display: grid | inline-grid
- 2. grid-template-columns
- 3. grid-template-rows
- 4. grid-template

```
.container {
.container {
                                     display: grid;
 display: grid | inline-grid;
                                     grid-template-columns: ... ...;
                                        1fr 1fr
                                         50px auto 100px 1fr
                                     grid-template-rows: ...;
                                        1fr 1fr
                                         minmax(10px, 1fr) 3fr
                                         repeat(5, 1fr)
                                         50px auto 100px 1fr
```

Grid Lines and Gutters

- 1. Specifying grid lines
- 2. Adjusting gutter with grid-gap

```
A shorthand for row-gap and column-gap
Values:

    <grid-row-gap> <grid-column-gap> - length values

   .container {
    /* standard */
     gap: <grid-row-gap> <grid-column-gap>;
    grid-gap: <grid-row-gap> <grid-column-gap>;
```

Placing Items on the Grid

- 1. grid-column-start / grid-column-end
- 2. grid-column
- 3. grid-row-start / grid-row-end
- 4. grid-row

grid-column-start grid-column-end grid-row-start grid-row-end

Determines a grid item's location within the grid by referring to specific grid lines. grid-column-start/grid-row-start is the line where the item begins, and grid-column-end/grid-row-end is the line where the item ends.

Values:

- <a number to refer to a numbered grid line, or a name to refer to a named grid line
- span <number> the item will span across the provided number of grid tracks
- span <name> the item will span across until it hits the next line with the provided name
- auto indicates auto-placement, an automatic span, or a default span of one

Responsive Design

- ı. auto
- 2. minmax

Adjusting Items inside Grid

1. justify-items

2. align-items

© justify-items

Aligns grid items along the *inline (row)* axis (as opposed to <u>align-items</u> which aligns along the *block (column)* axis). This value applies to all grid items inside the container.

Values:

- . start aligns items to be flush with the start edge of their cell
- end aligns items to be flush with the end edge of their cell
- center aligns items in the center of their cell
- stretch fills the whole width of the cell (this is the default)

```
.container {
   justify-items: start | end | center | stretch;
}
```

[™] align-items

Aligns grid items along the *block* (*column*) axis (as opposed to <u>justify-items</u> which aligns along the *inline* (*row*) axis). This value applies to all grid items inside the container.

Values:

- **stretch** fills the whole height of the cell (this is the default)
- start aligns items to be flush with the start edge of their cell
- end aligns items to be flush with the end edge of their cell
- · center aligns items in the center of their cell

```
.container {
  align-items: start | end | center | stretch;
}
```

Adjusting individual items on grid

- 1. justify-self
- 2. align-self

ூjustify-self

Aligns a grid item inside a cell along the *inline (row)* axis (as opposed to align-self which aligns along the *block (column)* axis). This value applies to a grid item inside a single cell.

Values:

- start aligns the grid item to be flush with the start edge of the cell
- end aligns the grid item to be flush with the end edge of the cell
- center aligns the grid item in the center of the cell
- stretch fills the whole width of the cell (this is the default)

```
.item {
   justify-self: start | end | center | stretch;
}
```

[©]align-self

Aligns a grid item inside a cell along the *block (column)* axis (as opposed to <code>justify-self</code> which aligns along the *inline (row)* axis). This value applies to the content inside a single grid item.

Values:

- start aligns the grid item to be flush with the start edge of the cell
- end aligns the grid item to be flush with the end edge of the cell
- center aligns the grid item in the center of the cell
- stretch fills the whole height of the cell (this is the default)

```
.item {
   align-self: start | end | center | stretch;
}
```