

Css Extintion

This document explains the following CSS Extentions:

1. **Flexbox**
 2. **Grid**
 3. **Overflow**
 4. **Float**
 5. **Inline-Block**
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1. Flexbox

Flexbox is a **one-dimensional layout model** that allows you to arrange elements in a row or a column. It is ideal for creating flexible and responsive layouts.

Key Properties:

Container Properties:

- `display: flex;` : Defines a flex container.
- `flex-direction` : Sets the direction of the flex items.
 - `row` (default): Items are placed in a row.
 - `column` : Items are placed in a column.
- `justify-content` : Aligns items horizontally.
 - `flex-start` : Items align to the start.
 - `flex-end` : Items align to the end.
 - `center` : Items are centered.
 - `space-between` : Items are evenly distributed.
 - `space-around` : Items are evenly spaced with equal space around them.
- `align-items` : Aligns items vertically.

- `stretch` (default): Items stretch to fill the container.
- `flex-start`: Items align to the top.
- `flex-end`: Items align to the bottom.
- `center`: Items are centered vertically.
- `flex-wrap`: Controls whether items wrap to the next line.
 - `nowrap` (default): All items stay in one line.
 - `wrap`: Items wrap to the next line if needed.

Item Properties:

- `flex-grow`: Defines how much an item can grow relative to others.
 - `flex-shrink`: Defines how much an item can shrink relative to others.
 - `flex-basis`: Sets the initial size of an item before remaining space is distributed.
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2. Grid

CSS Grid is a **two-dimensional layout system** that allows you to create complex layouts with rows and columns.

Key Properties:

Container Properties:

- `display: grid`: Defines a grid container.
- `grid-template-columns`: Defines the number and size of columns.
 - Example: `grid-template-columns: 100px 200px auto;` (three columns).
- `grid-template-rows`: Defines the number and size of rows.
 - Example: `grid-template-rows: 50px 100px;` (two rows).
- `gap`: Sets the spacing between grid items.
 - Example: `gap: 10px;`
- `justify-items`: Aligns items horizontally within their cells.

- `align-items` : Aligns items vertically within their cells.

Item Properties:

- `grid-column` : Specifies the column placement of an item.
 - Example: `grid-column: 1 / 3;` (spans from column 1 to column 3).
 - `grid-row` : Specifies the row placement of an item.
 - Example: `grid-row: 2 / 4;` (spans from row 2 to row 4).
 - `justify-self` : Aligns an item horizontally within its cell.
 - `align-self` : Aligns an item vertically within its cell.
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3. Overflow

The `overflow` property controls what happens when content overflows its container.

Key Values:

- `visible` (default): Content is not clipped and may overflow.
 - `hidden` : Content is clipped and hidden.
 - `scroll` : Adds scrollbars to view overflowed content.
 - `auto` : Adds scrollbars only if necessary.
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4. Float

The `float` property is used to position elements to the left or right, allowing text and other elements to wrap around it.

Key Values:

- `left` : Floats the element to the left.
 - `right` : Floats the element to the right.
 - `none` (default): The element does not float.
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5. Inline-Block

The `display: inline-block;` property allows an element to behave like an inline element while retaining block-level properties.

Key Features:

- Elements can sit next to each other (like inline elements).
- Elements can have width, height, padding, and margin (like block elements).