CSS Display Property

What is the CSS display Property?

The display property defines **how an element is rendered on the page**, how it **takes space**, and **how it interacts with other elements**.

Basic Syntax: element {

        display: value;

        }

- **display: block:** A **block-level element**:
  - Starts on a new line
  - Takes **full width** available
  - You can set `width, height, margin, padding`
  - `.box {`

    ```
    display: block;
    width: 200px;
    background: lightblue;
    ```
    `}`
- **display: inline:** An **inline element**:
  - Does **not start on a new line**
  - Takes **only content width**
  - Cannot set `width` & `height`
  - .text {

    ```
    display: inline;
    background: yellow;
    ```
    `}`
- **display: inline-block:** A **hybrid** of inline + block:
  - Stays in the same line
  - Allows `width, height, margin, padding`
  - `.item {`

    ```
    display: inline-block;
    width: 120px;
    height: 60px;
    ```

```
            background: coral;
        }
```

- **display: none:** Completely **removes element from layout.** No space is reserved
  - .hidden {
    ```
            display: none;
    ```
    }
- **display: flex (Flexbox):** Turns an element into a **flex container** for 1-D layout (row OR column).
  - .container {
    ```
            display: flex;
            gap: 10px;
    ```
    }
- **display: inline-flex:** Same as `flex` but container behaves **inline**.
- **display: grid (CSS Grid):** Creates a **2-D layout system** (rows + columns).
  - .grid {
    ```
            display: grid;
            grid-template-columns: repeat(3, 1fr);
            gap: 15px;
    ```
    }
- **display: inline-grid:** Grid container but behaves like an inline element.
- **display: table:** Makes elements behave like HTML tables.
  - .table {
    ```
            display: table;
    ```
    }
    .row {
    ```
            display: table-row;
    ```
    }
    .cell {
    ```
            display: table-cell;
    ```
    }
- **display: contents:** Removes the parent box Children behave as if parent doesn't exist
  - .wrapper {
    ```
            display: contents;
    ```
    }

Display Value	Layout Type	Width/Height	Common Use
block	Block	Yes	Sections, containers
inline	Inline	No	Text, links
inline-block	Hybrid	Yes	Buttons
none	Removed	No	Hide elements
flex	1-D Layout	Yes	Navbar, cards
inline-flex	Inline flex	Yes	Badges
grid	2-D Layout	Yes	Full layouts
table	Table	Yes	Old layouts
contents	No box	No	Advanced layouts