Display Properties in CSS

The display property in CSS defines how an element is displayed on the web page. It's one of the most important properties for layout and design.

Common Display Values

1. block

- The element takes up the full width available and starts on a new line.
- Examples: <div>, <h1>-<h6>, , <header>, <footer>, <section>.

```
div {
    display: block;
}
```

2. inline

- The element only takes up as much width as necessary and does not start on a new line.
- Examples: , <a>, , , .

```
span {
    display: inline;
}
```

3. inline-block

- The element flows like an inline element but can have a width and height set like a block element.
- It does not start on a new line.

```
img {
    display: inline-block;
    width: 100px;
    height: 100px;
}
```

4. none

• The element is completely removed from the document flow and will not be displayed on the page. No space is reserved for it.

```
.hidden {
    display: none;
}
```

5. flex

- Enables a flexbox layout, allowing for flexible and responsive designs.
- Parent element becomes a flex container, and its children become flex items.

```
.container {
    display: flex;
}
```

6. grid

• Enables a grid layout, allowing for a two-dimensional layout system with rows and columns.

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

7. inline-flex

• Behaves like inline-block but for a flex container.

```
.container {
    display: inline-flex;
}
```

8. inline-grid

• Behaves like inline-block but for a grid container.

```
.container {
    display: inline-grid;
}
```

9. table

• The element behaves like a element, with table-row and table-cell behavior.

```
.container {
    display: table;
}
```

10. table-row, table-cell, etc.

These values make an element behave like
 (table row), (table cell), and other table-related elements.

```
.row {
    display: table-row;
}
.cell {
    display: table-cell;
}
```

Usage and Examples

Block-Level Element Example

```
<div style="display: block;">
   This is a block-level element.
</div>
```

Inline-Level Element Example

```
<span style="display: inline;">
   This is an inline element.
</span>
```

Inline-Block Example

```
<div style="display: inline-block; width: 200px;">
    This is an inline-block element.
</div>
```

Flexbox Example

```
<div class="container" style="display: flex;">
    <div>Flex Item 1</div>
```

Grid Example

Key Points to Remember

- block elements take up the full width of their parent container.
- inline elements only take up as much space as needed.
- inline-block elements combine the characteristics of both block and inline elements.
- none hides the element entirely from the page.
- flex and grid are powerful tools for creating responsive layouts.