# Working with Lists and Tables in CSS

**Unit-III** 

SCS181 Web Technologies-I

# Working with Lists and Tables in CSS

- Lists and tables are essential HTML elements for organizing content on web pages.
- CSS provides various properties to style and control their appearance, allowing developers to create visually appealing, structured layouts.

# 1. Working with Lists

HTML lists come in two primary types:

- Ordered Lists () Displayed with numbered items.
- Unordered Lists () Displayed with bullet points.
- There are also **definition lists** (<dl>), used to create lists of terms and definitions.

# **Key Properties for Lists:**

#### i. list-style-type

Specifies the type of marker (bullet or numbering style) used in lists.

#### Values:

For unordered lists: disc (default), circle, square, none (removes bullets).

For ordered lists: decimal (default), loweralpha, upper-alpha, lower-roman, upperroman.

#### **Example:**

```
ul { list-style-type: square;
/* Squares for bullets instead of discs */ }
ol { list-style-type: upper-roman;
/* Roman numerals in ordered list */ }
```

#### ii. list-style-position

Controls whether the marker appears inside or outside the list item's content.

#### Values:

inside: The marker is placed inside the content area.

outside: The marker is outside the content area (default).

#### **Example:**

ul { list-style-position: inside;
/\* Moves the bullet points inside the
content area \*/ }

# **Key Properties for Lists:**

### iii. list-style-image

Replaces the default marker (bullet or number) with a custom image.

# **Example:**

```
ul {
list-style-image: url('custom-bullet.png');
/* Replaces bullets with an image
*/
}
```

#### iv. list-style

A shorthand for setting all list style properties (list-style-type, list-style-position, and list-style-image) in one declaration.

```
ul {
list-style: square inside;
/* Squares for bullets, placed
inside content */
}
```

# Removing Default List Styles

Sometimes, you may want to remove the default list markers (bullets or numbers) entirely.

```
Example:
ul {
list-style-type: none;
padding-left: 0;
/* Removes default indentation */
}
```

# **Customizing Spacing in Lists**

You can control spacing between items and indentation using margins and padding.

```
Example:
ul {
padding-left: 20px;
/* Adds space between bullet and list content */
li {
margin-bottom: 10px;
/* Adds space between list items */
```

# **Working with Tables**

HTML tables allow you to display tabular data in rows and columns. You can style tables using CSS to improve readability and make them more appealing.

#### a. Basic HTML for Tables

: Wraps the entire table.

<thead>: Contains table headers.

: Contains the body rows.

: Defines a row.

: Defines a header cell (bold by default).

: Defines a data cell.

# **Key Properties for Tables:**

#### i. border

Sets borders around table cells and the table itself.

# **Example:**

```
table, th, td {
border: 1px solid black;
border-collapse: collapse;
/* Combines adjacent borders */
}
```

### ii. padding

Adds space inside table cells for better readability.

```
td, th {
 padding: 10px;
}
```

# **Key Properties for Tables:**

### ii. text-align

Aligns text inside table cells. Typically, header cells () are centered, while data cells () are left-aligned.

# **Example:**

```
th { text-align: center; }
td { text-align: left; }
```

#### iv. width

Controls the width of the entire table or individual columns.

```
table { width: 100%;

/* Makes the table full width */ }
th, td { width: 33%;

/* Each column takes up 33% of
the table width */ }
```

# **Key Properties for Tables:**

### v. table-layout

Controls the algorithm used to lay out the table columns.

#### Values:

auto: Default. Column widths are based on the widest content.

fixed: Columns have equal widths, or widths are determined by the first

row.

```
table {
table-layout: fixed;
width: 100%; }
```

# **Zebra Striping for Tables**

You can use the nth-child() pseudo-class to create alternating row colors, which improves readability in tables with many rows.

```
tr: nth-child(even)
{ background-color: #f2f2f2;
/* Lighter background for even rows */}
tr:nth-child(odd) {
 background-color: #ffffff;
}
/*white background for odd rows */}
```

# d. Hover Effects for Tables

To highlight a row when the user hovers over it, you can use the :hover pseudo-class.

```
tr:hover {
background-color: #f1f1f1;
/* Change background color on hover */
}
```

# e. Border Spacing and Collapse

### i. border-spacing

Controls the space between borders of adjacent table cells.

### **Example:**

```
table {
border-spacing: 15px;
}
```

#### ii. border-collapse

Merges adjacent borders of cells into a single border.

#### Values:

```
collapse: Combines borders into a single border. separate: Keeps borders separate (default).
```

### **Example:**

```
table {
```

border-collapse: collapse; }

# f. Caption for Tables

You can add a table caption to give a title to the table.

# **Example:**

```
<caption>Monthly Sales Data</caption>
```

```
<thead>  Month Sales
```

```
  January $10,000
```

# **Responsive Tables**

Tables can be challenging to display on small screens. You can use CSS to make tables more responsive by enabling horizontal scrolling or converting them into a card layout for smaller screens.

### a. Adding Horizontal Scroll for Tables

Use overflow-x to allow tables to scroll horizontally when they overflow the screen width.

```
.table-container { overflow-x: auto; }
table { width: 100%;
/* Ensures the table takes full width */
}
```

# b. Stacking Table Cells for Small Screens

Using media queries, you can create a card-like layout where each table row becomes a block of information on small screens.

### **Example using Media Queries:**

```
@media (max-width: 600px)
{
table, thead, tbody, th, td, tr {
display: block; }
th, td {
width: 100%; text-align: left; padding: 10px;
}}
```