# **Tables in HTML**

#### 1. Basic Table Structure:

```
<thead>
   >
     Header 1
     Header 2
     Header 3
   </thead>
 Row 1, Cell 1
     Row 1, Cell 2
     Row 1, Cell 3
   Row 2, Cell 1
     Row 2, Cell 2
     Row 2, Cell 3
```

- The `` element is used to define a table.
- `<thead>` contains the table header a group of rows containing heading cells (``).
- ` ` contains the main content a group of rows containing data cells (` `).
- Each row is defined by the `` element.
- Header cells are defined using ``, while data cells are defined using ``.

### 2. Table Headers and Cells:

- ``: Table header cell.
- ``: Table data cell.

## 3. Spanning Rows and Columns:

- `colspan`: Specifies the number of columns a cell should span.

```
Spanning two columns
```

- `rowspan`: Specifies the number of rows a cell should span.

```
Spanning two rows
```

#### 4. Table Borders:

- `border css`: Specifies the width of the table border.

```
table {
    width: 100%;
    border-collapse: collapse;
}
th,
td {
    border: 1px solid black;
    padding: 8px;
    text-align: left;
}
```

#### 5. Table Caption:

- `<caption>`: Adds a caption to the table.

```
<caption>My Table Caption</caption>
```

### 6. Table Styling with CSS:

- Use CSS to style tables for better appearance.

```
<style>
    table {
     width: 100%;
```

```
border-collapse: collapse;
}

th, td {
   border: 1px solid black;
   padding: 8px;
   text-align: left;
}
</style>
```

## 7. Accessibility:

```
Use semantic tags for better accessibility.- `<thead>`, ``, `<tfoot>`, `>`, `<caption>`.
```

## 8. Responsive Tables:

- Make tables responsive for small screens.

```
/* Responsive styling for small screens */
    @media (max-width: 600px) {
        th, td {
            display: block;
            width: 100%;
            box-sizing: border-box;
        }
        th, td:nth-child(1) {
            border-top: 1px solid #ddd;
        }
    }
```

# 9. Attributes for Accessibility:

- `scope`: Specifies whether a header cell is a header for a column, row, or group of columns or rows.

```
Column Header
```