

HTML Tables Masterclass

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1. What is a Table?

A table is an arrangement of data in the form of **Rows** and **Columns**.

- **Row:** Horizontal direction (Left to Right).
- **Column:** Vertical direction (Top to Bottom).
- **Cell:** The smallest unit (box) in a table.

2. Basic Tags

Tag Name	Description
<code><table></code>	Defines the container for the table.
<code><tr></code>	Table Row. Used to create a new row.
<code><th></code>	Table Header. Used for headings (bold & centered by default).
<code><td></code>	Table Data. Used for standard cells containing data.

3. Semantic Tags (Best Practices)

To make the code readable and SEO friendly, we divide the table into 3 parts:

- **<thead>** : Contains the header rows (headings).
- **<tbody>** : Contains the main body/content of the table.
- **<tfoot>** : Contains summary or footer information (e.g., Total).

4. Important Attributes: Rowspan & Colspan

Golden Rule: If you want to expand a cell, you must count how many cells it "eats up".

A. Rowspan (Vertical Expansion)

Used when a cell needs to stretch downwards across multiple rows.

Syntax: **<td rowspan="2">** (Merges 2 rows)

B. Colspan (Horizontal Expansion)

Used when a cell needs to stretch sideways across multiple columns.

Syntax: **<td colspan="3">** (Merges 3 columns)

5. Practical Code Example

Here is an example structure combining all concepts taught by Saurabh Sir:

```
<table border="1">
  <thead>
    <tr>
      <th>Name</th>
      <th>Position</th>
      <th>Salary</th>
    </tr>
  </thead>
```

```
<tbody>
  <!-- Row 1 -->
  <tr>
    <td>Bill Gates</td>
    <td>Founder</td>
    <td>$1000</td>
  </tr>
  <!-- Row 2: Using Rowspan -->
  <tr>
    <td>Steve Jobs</td>
    <!-- This cell spans 2 rows vertically -->
    <td rowspan="2">Founder</td>
    <td>$1200</td>
  </tr>
  <!-- Row 3 -->
  <tr>
    <td>Mark</td>
    <!-- Skipped Position cell because previous row ate it -->
    <td>$1300</td>
  </tr>
</tbody>
<tfoot>
  <tr>
    <!-- Using Colspan -->
    <td colspan="2">Total Expense</td>
    <td>$3500</td>
  </tr>
</tfoot>
</table>
```

6. Visual Output of Above Code

This is how the above code renders in the browser:

Name	Position	Salary
Bill Gates	Founder	\$1000
Total Expense (colspan=2)		\$3500

Name	Position	Salary
Steve Jobs	Founder (rowspan=2)	\$1200
Mark		\$1300
Total Expense (colspan=2)		\$3500

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