

# HTML Table

**HTML table tag** is used to display data in tabular form (row \* column). There can be many columns in a row.

We can create a table to display data in tabular form, using `<table>` element, with the help of `<tr>`, `<td>`, and `<th>` elements.

In Each table, table row is defined by `<tr>` tag, table header is defined by `<th>`, and table data is defined by `<td>` tags.

HTML tables are used to manage the layout of the page e.g. header section, navigation bar, body content, footer section etc. But it is recommended to use `div` tag over `table` to manage the layout of the page .

## HTML Table Tags

Tag	Description
<code>&lt;table&gt;</code>	It defines a table.
<code>&lt;tr&gt;</code>	It defines a row in a table.
<code>&lt;th&gt;</code>	It defines a header cell in a table.
<code>&lt;td&gt;</code>	It defines a cell in a table.
<code>&lt;caption&gt;</code>	It defines the table caption.
<code>&lt;colgroup&gt;</code>	It specifies a group of one or more columns in a table for formatting.
<code>&lt;col&gt;</code>	It is used with <code>&lt;colgroup&gt;</code> element to specify column properties for each column.
<code>&lt;tbody&gt;</code>	It is used to group the body content in a table.
<code>&lt;thead&gt;</code>	It is used to group the header content in a table.
<code>&lt;tfooter&gt;</code>	It is used to group the footer content in a table.

## HTML Table Example

Let's see the example of HTML table tag. Its output is shown above.

```
<table>
<tr><th>First_Name</th><th>Last_Name</th><th>Marks</th></tr>
<tr><td>Sonoo</td><td>Jaiswal</td><td>60</td></tr>
<tr><td>James</td><td>William</td><td>80</td></tr>
<tr><td>Swati</td><td>Sironi</td><td>82</td></tr>
<tr><td>Chetna</td><td>Singh</td><td>72</td></tr>
</table>
```

### Test it Now

#### Output:

First_Name	Last_Name	Marks
Sonoo	Jaiswal	60
James	William	80
Swati	Sironi	82
Chetna	Singh	72

In the above html table, there are 5 rows and 3 columns =  $5 * 3 = 15$  values.

## HTML Table with Border

There are two ways to specify border for HTML tables.

1. By border attribute of table in HTML
2. By border property in CSS

### 1) HTML Border attribute

You can use border attribute of table tag in HTML to specify border. But it is not recommended now.

```
<table border="1">
<tr><th>First_Name</th><th>Last_Name</th><th>Marks</th></tr>
<tr><td>Sonoo</td><td>Jaiswal</td><td>60</td></tr>
<tr><td>James</td><td>William</td><td>80</td></tr>
<tr><td>Swati</td><td>Sironi</td><td>82</td></tr>
<tr><td>Chetna</td><td>Singh</td><td>72</td></tr>
</table>
```

### Test it Now

#### Output:

First_Name	Last_Name	Marks
------------	-----------	-------

Sonoo	Jaiswal	60
James	William	80
Swati	Sironi	82
Chetna	Singh	72

## 2) CSS Border property

It is now recommended to use border property of CSS to specify border in table.

```
<style>
table, th, td {
  border: 1px solid black;
}
</style>
```

### Test it Now

You can collapse all the borders in one border by border-collapse property. It will collapse the border into one.

```
<style>
table, th, td {
  border: 2px solid black;
  border-collapse: collapse;
}
</style>
```

### Test it Now

### Output:

Name	Last Name	Marks
Sonoo	Jaiswal	60
James	William	80
Swati	Sironi	82
Chetna	Singh	72

## HTML Table with cell padding

You can specify padding for table header and table data by two ways:

1. By cellpadding attribute of table in HTML
2. By padding property in CSS

The cellpadding attribute of HTML table tag is obsolete now. It is recommended to use CSS. So let's see the code of CSS.

**<style>**

```
table, th, td {  
    border: 1px solid pink;  
    border-collapse: collapse;  
}  
th, td {  
    padding: 10px;  
}
```

**</style>****Test it Now****Output:**

Name	Last Name	Marks
Sonoo	Jaiswal	60
James	William	80
Swati	Sironi	82
Chetna	Singh	72

## HTML Table width:

We can specify the HTML table width using the **CSS width** property. It can be specify in pixels or percentage.

We can adjust our table width as per our requirement. Following is the example to display table with width.

```
table{  
    width: 100%;  
}
```

## Example:

```
<!DOCTYPE html>  
<html>
```

```
<head>
  <title>table</title>
  <style>
    table{
      border-collapse: collapse;
      width: 100%;
    }
    th,td{
      border: 2px solid green;
      padding: 15px;
    }

  </style>
</head>
<body>
  <table>
    <tr>
      <th>1 header</th>
      <th>1 header</th>
      <th>1 header</th>
    </tr>
    <tr>
      <td>1data</td>
      <td>1data</td>
      <td>1data</td>
    </tr>
    <tr>
      <td>2 data</td>
      <td>2 data</td>
      <td>2 data</td>
    </tr>
    <tr>
      <td>3 data</td>
      <td>3 data</td>
      <td>3 data</td>
    </tr>
  </table>
</body>
</html>
```

**Test it Now**

**Output:**

## HTML Table with colspan

If you want to make a cell span more than one column, you can use the colspan attribute.

It will divide one cell/row into multiple columns, and the number of columns depend on the value of colspan attribute.

Let's see the example that span two columns.

CSS code:

```
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
}
th, td {
  padding: 5px;
}
</style>
```

HTML code:

```
<table style="width:100%">
<tr>
<th>Name</th>
<th colspan="2">Mobile No.</th>
</tr>
<tr>
<td>Ajeet Maurya</td>
<td>7503520801</td>
<td>9555879135</td>
</tr>
</table>
```

**Test it Now**

**Output:**

Name	Mobile No.
------	------------

Ajeet Maurya	7503520801	9555879135
--------------	------------	------------

## HTML Table with rowspan

If you want to make a cell span more than one row, you can use the rowspan attribute.

It will divide a cell into multiple rows. The number of divided rows will depend on rowspan values.

Let's see the example that span two rows.

CSS code:

```
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
}
th, td {
  padding: 10px;
}
</style>
```

HTML code:

```
<table>
<tr><th>Name</th><td>Ajeet Maurya</td></tr>
<tr><th rowspan="2">Mobile No.</th><td>7503520801</td></tr>
<tr><td>9555879135</td></tr>
</table>
```

**Test it Now**

**Output:**

Name	Ajeet Maurya
Mobile No.	7503520801
	9555879135

## HTML table with caption

HTML caption is displayed above the table. It must be used after table tag only.

```
<table>
<caption>Student Records</caption>
<tr><th>First_Name</th><th>Last_Name</th><th>Marks</th></tr>
<tr><td>Vimal</td><td>Jaiswal</td><td>70</td></tr>
<tr><td>Mike</td><td>Warn</td><td>60</td></tr>
<tr><td>Shane</td><td>Warn</td><td>42</td></tr>
<tr><td>Jai</td><td>Malhotra</td><td>62</td></tr>
</table>
```

**Test it Now**

## Styling HTML table even and odd cells

CSS code:

```
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
}
th, td {
  padding: 10px;
}
table#alter tr:nth-child(even) {
  background-color: #eee;
}
table#alter tr:nth-child(odd) {
  background-color: #fff;
}
table#alter th {
  color: white;
  background-color: gray;
}
</style>
```






**Test it Now**

**Output:**



NOTE: You can also create various types of tables using different CSS properties in your table.

## Supporting Browsers













Element	 Chrome	 IE	 Firefox	 Opera	 Safari
<table>	Yes	Yes	Yes	Yes	Yes

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