# **HTML** - Tables

**HTML tables** represent data, such as text, images, etc. in a structured format with rows and columns.

**HTML tables** offer a visual structure that aids in clarity and comprehension, making them a fundamental element in web development.

	ML Tab	162
Product	Category	Price
Laptop	Electronics	\$800
Bookshelf	Furniture	\$150
Coffee Maker	Appliances	\$50

### Why HTML Tables are Used?

HTML tables are used for various reasons, primarily centered around organizing and presenting data effectively. Some key purposes include —

- **Structuring Data** Tables provide a coherent structure for organizing and displaying data, making it easier for users to interpret information.
- Comparative Presentation When there is a need to compare different sets of data side by side like difference between two concepts, tables offer a clear and visually accessible format.
- **Tabular Data Representation** Information that naturally fits into rows and columns, such as schedules, statistics, or pricing tables, can be well-represented using HTML tables.

# Creating an HTML Table

You can create a table in HTML by using the tag along with several tags that define the structure and content inside the table. The primary tags that are used with the tag are , , and .

Creating tables in HTML involves several elements that define the structure and content. The primary tags used are , , **, and** .

- **HTML Tag:** This tag is used to create the table that wrap the rows and columns within it.
- HTML Tag: Stands for "table row" and is used to create a row within the table.

- **HTML Tag:** Represents "table data" and is used to create standard cells within a row.
- HTML Tag: Represents "table header" and is used to create header cells within a row.

Explore our **latest online courses** and learn new skills at your own pace. Enroll and become a certified expert to boost your career.

#### HTML Table Structure - Rows and Columns

- Rows: Each row in an HTML table is defined using the `` tag. It contains a set of table cells (`` or ``), representing the individual elements within that row.
- **Columns:** The actual data or header information is contained within the table cells. Cells in the same position in different rows form a column.
- A table row is defined by the tag. To set table header, we use tag. To insert data in table cell, use the tag.
- A table in HTML consists of table cells inside rows and columns of the table.
- Table heading is defined by the **...**. Data inside the are the headings of the column of a table.
- Each table cell is defined by a **...** tag. Data inside the tag are the content of the table rows and columns.
- Each table row starts with a  **....** tag.
- We use style sheet to create border for the table.

# Example

Consider a table representing a simple list of products with their respective categories and prices. This basic table structure organizes data in a clear, tabular format, making it easy to read and understand. Here, the **border** is an attribute of tag and it is used to put a border across all the cells. If you do not need a border, then you can use **border="0"**.

```
Electronics
   $800
 Bookshelf
   Furniture
   $150
 Coffee Maker
   Appliances
   $50
 </body>
</html>
```

## Styling HTML Tables

You can also style an HTML table using CSS properties to give it a custom appearance. Either you can create classes to apply styles on a table, or you can simply write internal CSS properties to style the table.

## Example

In the example below, we are styling the table with some CSS properties to make it stylish:

```
</style>
</head>
<body>
  <h2>HTML Table</h2>
  This table is 3*3 cells including table header.
  Header 1
      >Header 2
      Header 3
    Data 1
      Data 2
      Data 3
    Data 4
      Data 5
      Data 6
    </body>
</html>
```

## Table Background Color and Image

You can set the background color and background image of an HTML table by using the CSS and attributes of the tag.

### **Using Attributes**

The following are the attributes that can be used with tag to set the background color and/or image:

■ bgcolor: The bgcolor attribute sets the table's background color.

background: The background attribute sets a background image.

## **Using CSS Properties**

Using table tag's attributes is an old (outdated) style. It is recommended that you should use CSS to style an HTML table. The **background-color** and **background-image** properties are used to set background color and image respectively.

```
table {
  background-color: #f0f0f0;
  background-image: url('image.jpg');
}
```

### Example to set table's background color and image using attributes

Here we are setting background color and image for a table using the attributes of tag:

```
</>
                                        Open Compiler
<!DOCTYPE html>
<html>
<head>
 <title>HTML Table Background Color</title>
<body>
  background="/images/test.png">
   Column 1
     Column 2
     Column 3
   Row 1 Cell 1
     Row 1 Cell 2
     Row 1 Cell 3
   Row 2 Cell 2
     Row 2 Cell 3
   Row 3 Cell 1
```

</body>
</html>

### Example to set table's background color and image using CSS

Here we are setting background color and image for a table using the CSS properties:

```
</>>
                                                    Open Compiler
<!DOCTYPE html>
<html>
<head>
  <title>HTML Table Background Color</title>
  <style>
table {
 background-color: yellow;
 background-image: url('/images/test.png');
</style>
</head>
<body>
  Column 1
      Column 2
       Column 3
    Row 1 Cell 1
      Row 1 Cell 2
       Row 1 Cell 3
    Row 2 Cell 2
      Row 2 Cell 3
    Row 3 Cell 1
    </body>
</html>
```

## Table Width and Height

The table's width and height can be set using either attributes or CSS properties. These values can be defined in pixels or percentages.

### **Using Attributes**

The following attributes can set the width and height of a table:

• width: It defines the width of the table.

height: It defines the height of the table.

### Using CSS

The following CSS properties can set the width and height of a table:

width: It defines the width of the table.

```
table { width: 80%; }
```

height: It defines the height of the table.

```
table { height: 400px; }
```

# Example to set table's width and height using attributes

Here we are setting width (80%) and height (400px) of the table using the tag's attributes:

## Example to set table's width and height using CSS

Here we are setting width (80%) and height (400px) to the table using the CSS properties:

```
</>>
                                                     Open Compiler
<!DOCTYPE html>
<html>
<head>
  <title>HTML Table Width/Height</title>
  <style>
  table{
    width: 80%;
    height: 400px;
  </style>
</head>
<body>
  Header 1
       Header 2
     Row 1, Column 1
       Row 1, Column 2
     Row 2, Column 1
       Row 2, Column 2
```

```
</body>
```

#### **HTML Nested Tables**

Nested HTML tables refer to create tables inside a table. You can create tables inside a table by using the tab inside any tag, it creates another table in the main table's cell.

### Example

In the following example, we are creating nested tables:

```
</>>
                                            Open Compiler
<!DOCTYPE html>
<html>
<head>
  <title>HTML Nested Tables</title>
</head>
<body>
  First Column of Outer Table 
       >
         First row of Inner Table 
            Second row of Inner Table 
           First row of Inner Table 
            Second row of Inner Table
```

```
</body>
</html>
```

# Table-related Tags Reference

The following are the table-related tags. You can click on the link to read about the specific tag and click on "Try It" to practice its example:

Tag	Descripttion	Example
	It is used to create HTML table.	Try It
>	This tag defines the header of the table.	Try It
	This tag defines a table row.	Try It
>	This tag is used to store table data of each cell.	Try It
<caption></caption>	This tag specifies the caption for the table.	Try It
<colgroup></colgroup>	This tag describes the collection of one or more columns in a table for formattig.	Try It
<col/>	This tag is used to offer information about columns.	Try It
<thead></thead>	This tag is used to define table header section.	Try It
	This tag is used to define table body section.	Try It

<tfoot>

This tag is used to define the table footer section.

