

## HTML TABLE:

**Defining Tables in HTML:** An HTML table is defined with the “table” tag. Each table row is defined with the “tr” tag. A table header is defined with the “th” tag. By default, table headings are bold and centered. A table data/cell is defined with the “td” tag.

### HTML Table Tags

Tag	Description
<table>	It defines a table.
<tr>	It defines a row in a table.
<th>	It defines a header cell in a table.
<td>	It defines a cell in a table.
<caption>	It defines the table caption.

Create table in HTML using a table tag.

```
<!DOCTYPE html>
<html>
<body>
  <table>
    <tr>
      <th>Book Name</th>
      <th>Author Name</th>
      <th>Genre</th>
      <th>price</th>
    </tr>
    <tr>
      <td>The Book Thief</td>
      <td>Markus Zusak</td>
      <td>Historical Fiction</td>
    </tr>
    <tr>
      <td>The Cruel Prince</td>
      <td>Holly Black</td>
      <td>Fantasy</td>
    </tr>
    <tr>
      <td>The Silent Patient</td>
      <td> Alex Michaelides</td>
      <td>Psychological Fiction</td>
    </tr>
  </table>
</body>
</html>
```

```

<!DOCTYPE html>
<html>
<body>
  <table>
    <tr>
      <th>Firstname</th>
      <th>Lastname</th>
      <th>Age</th>
    </tr>
    <tr>
      <td>Priya</td>
      <td>Sharma</td>
      <td>24</td>
    </tr>
    <tr>
      <td>Arun</td>
      <td>Singh</td>
      <td>32</td>
    </tr>
    <tr>
      <td>Sam</td>
      <td>Watson</td>
      <td>41</td>
    </tr>
  </table>
</body>
</html>

```

Output:

Firstname	Lastname	Age
Priya	Sharma	24
Arun	Singh	32
Sam	Watson	41

**Adding a border to an HTML Table:** A border is set using the CSS border property. If you do not specify a border for the table, it will be displayed without borders.

```

table, th, td {
  border: 1px solid black;
}

```

**Example 3:** This example explains the addition of the border to the HTML Table.

```

<!DOCTYPE html>
<html> <head>
  <style>
    table,
    th,
    td {
      border: 1px solid black;
    }
  </style> </head>
<body>
  <table style="width:100%">
    <tr>
      <th>Firstname</th>
      <th>Lastname</th>
      <th>Age</th>          </tr>
    <tr>
      <td>Priya</td>
      <td>Sharma</td>
      <td>24</td>          </tr>
    <tr>
      <td>Arun</td>
      <td>Singh</td>
      <td>32</td>          </tr>
    <tr>
      <td>Sam</td>
      <td>Watson</td>
      <td>41</td>          </tr>
  </table> </body>
</html>

```

Output:

Firstname	Lastname	Age
Priya	Sharma	24
Arun	Singh	32
Sam	Watson	41

**Adding Collapsed Borders in an HTML Table:** For borders to collapse into one border, add the CSS border-collapse property.

```

table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
}

```

**Example 4:** This example of Collapsed Borders in HTML.

```

<!DOCTYPE html>
<html> <head>
  <style>
    table,
    th,
    td {
      border: 1px solid black;
      border-collapse: collapse;
    }
  </style> </head>
<body>
  <table style="width:100%">
    <tr>
      <th>Firstname</th>
      <th>Lastname</th>
      <th>Age</th>          </tr>
    <tr>
      <td>Priya</td>
      <td>Sharma</td>
      <td>24</td>          </tr>
    <tr>
      <td>Arun</td>
      <td>Singh</td>
      <td>32</td>          </tr>
    <tr>
      <td>Sam</td>
      <td>Watson</td>
      <td>41</td>          </tr>
  </table> </body>
</html>

```

Output:

Firstname	Lastname	Age
Priya	Sharma	24
Arun	Singh	32
Sam	Watson	41

**Adding Cell Padding in an HTML Table:** Cell padding specifies the space between the cell content and its borders. If we do not specify a padding, the table cells will be displayed without padding.

```
th, td {
    padding: 15px;
}
```

### Example 5: Table cell padding in HTML.

```
<!DOCTYPE html>
<html>
<head>
  <style>
    table,
    th,
    td {
      border: 1px solid black;
      border-collapse: collapse;
    }

    th,
    td {
      padding: 20px;
    }
  </style>
</head>
<body>
  <table style="width:100%">
    <tr>
      <th>Firstname</th>
      <th>Lastname</th>
      <th>Age</th>
    </tr>
    <tr>
      <td>Priya</td>
      <td>Sharma</td>
      <td>24</td>
    </tr>
    <tr>
      <td>Arun</td>
      <td>Singh</td>
      <td>32</td>
    </tr>
    <tr>
      <td>Sam</td>
      <td>Watson</td>
      <td>41</td>
    </tr>
  </table>
</body>
</html>
```

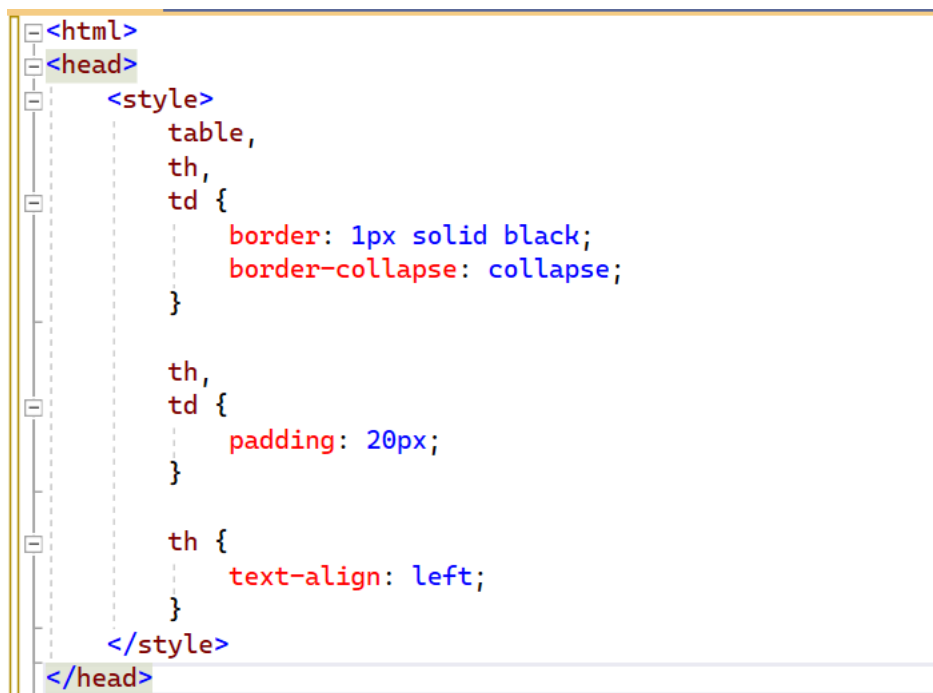
Output:

Firstname	Lastname	Age
Priya	Sharma	24
Arun	Singh	32
Sam	Watson	41

**Adding Left Align Headings in an HTML Table:** By default, the table headings are bold and centered. To left-align the table headings, we must use the CSS text-align property.

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

**Example 6:** [text-align property](#) where the text is aligned to the left.

A screenshot of a code editor with a dark theme. The code is HTML/CSS. The HTML structure is <html>, <head>, <style>, and </head>. The CSS code is: table, th, td { border: 1px solid black; border-collapse: collapse; }, th, td { padding: 20px; }, th { text-align: left; }. The code is color-coded: tags are blue, property names are red, and values are blue. A vertical line on the left indicates the file structure.

```
<html>  
<head>  
  <style>  
    table,  
    th,  
    td {  
      border: 1px solid black;  
      border-collapse: collapse;  
    }  
  
    th,  
    td {  
      padding: 20px;  
    }  
  
    th {  
      text-align: left;  
    }  
  </style>  
</head>
```

```

<body>
  <table style="width:100%">
    <tr>
      <th>Firstname</th>
      <th>Lastname</th>
      <th>Age</th>
    </tr>
    <tr>
      <td>Priya</td>
      <td>Sharma</td>
      <td>24</td>
    </tr>
    <tr>
      <td>Arun</td>
      <td>Singh</td>
      <td>32</td>
    </tr>
    <tr>
      <td>Sam</td>
      <td>Watson</td>
      <td>41</td>
    </tr>
  </table>
</body>
</html>

```

Output:

Firstname	Lastname	Age
Priya	Sharma	24
Arun	Singh	32
Sam	Watson	41



**Adding Border Spacing in an HTML Table:** Border spacing specifies the space between the cells. To set the border-spacing for a table, we must use the CSS border-spacing property.

```
table {  
    border-spacing: 5px;  
}
```

```
<html>  
  
<head>  
  <style>  
    table,  
    th,  
    td {  
      border: 1px solid black;  
    }  
  
    table {  
      border-spacing: 5px;  
    }  
  </style>  
</head>  
  
<body>  
  <table style="width:100%">  
    <tr>  
      <th>Firstname</th>  
      <th>Lastname</th>  
      <th>Age</th>  
    </tr>  
    <tr>  
      <td>Priya</td>  
      <td>Sharma</td>  
      <td>24</td>  
    </tr>  
    <tr>  
      <td>Arun</td>  
      <td>Singh</td>  
      <td>32</td>  
    </tr>  
    <tr>  
      <td>Sam</td>  
      <td>Watson</td>  
      <td>41</td>  
    </tr>  
  </table>  
</body>  
</html>
```

Output:

Firstname	Lastname	Age
Priya	Sharma	24
Arun	Singh	32
Sam	Watson	41

**Adding Cells that Span Many Columns in HTML Tables:** To make a cell span more than one column, we must use the colspan attribute.

**Example 8:** Use of the [colspan attribute](#) in HTML.

```

<!DOCTYPE html>
<html>
<head>
<style>
    table,
    th,
    td {
        border: 1px solid black;
        border-collapse: collapse;
    }

    th,
    td {
        padding: 5px;
        text-align: left;
    }
</style>
</head>
<body>
<h2>Cell that spans two columns:</h2>
<table style="width:100%">
<tr>
<th>Name</th>
<th colspan="2">Telephone</th>
</tr>
<tr>
<td>Vikas Rawat</td>
<td>9125577854</td>
<td>8565557785</td>
</tr>
</table>
</body></html>

```

OUTPUT:

## Cell that spans two columns:

Name	Telephone	
Vikas Rawat	9125577854	8565557785

**Adding Cells that span many rows in HTML Tables:** To make a cell span more than one row, we must use the rowspan attribute.

**Example 9:** Use of the [rowspan attribute](#) in HTML.

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      table,
      th,
      td {
        border: 1px solid black;
        border-collapse: collapse;
      }

      th,
      td {
        padding: 5px;
        text-align: left;
      }
    </style>
  </head>
  <body>
    <h2>Cell that spans two rows:</h2>
    <table style="width:100%">
      <tr>
        <th>Name:</th>
        <td>Vikas Rawat</td>
      </tr>
      <tr>
        <th rowspan="2">Telephone:</th>
        <td>9125577854</td>
      </tr>
      <tr>
        <td>8565557785</td>
      </tr>
    </table>
  </body>
</html>
```

Output:

## Cell that spans two rows:

Name:	Vikas Rawat
Telephone:	9125577854
	8565557785

**Adding a Caption in an HTML Table:** To add a caption to a table, we must use the “caption” tag.

```
<table style="width:100%">
<caption>DETAILS</caption>
```

**Example 10:**Example on HTML Table caption by specifying the CSS properties for setting its width.

```
<html>
<head>
  <style>
    table,
    th,
    td {
      border: 1px solid black;
      border-collapse: collapse;
    }

    th,
    td {
      padding: 20px;
    }

    th {
      text-align: left;
    }
  </style>
</head>
```

```

<body>
  <table style="width:100%">
    <caption>DETAILS</caption>
    <tr>
      <th>Firstname</th>
      <th>Lastname</th>
      <th>Age</th>
    </tr>
    <tr>
      <td>Priya</td>
      <td>Sharma</td>
      <td>24</td>
    </tr>
    <tr>
      <td>Arun</td>
      <td>Singh</td>
      <td>32</td>
    </tr>
    <tr>
      <td>Sam</td>
      <td>Watson</td>
      <td>41</td>
    </tr>
  </table>
</body>
</html>

```

OUTPUT:

DETAILS		
Firstname	Lastname	Age
Priya	Sharma	24
Arun	Singh	32
Sam	Watson	41

