

# HTML 5 Tabular Data

**HTML**



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**<https://github.com/swacademy/HTML5>**

## <table>

- Defines an HTML table.
- Differences Between HTML 4.01 and HTML5
  - HTML5 only supports the **border** attribute, and its value can be **1** or **""**.

```
1 <table border="1">
2   <tr>
3     <th>Month</th>
4     <th>Savings</th>
5   </tr>
6   <tr>
7     <td>January</td>
8     <td>$100</td>
9   </tr>
10 </table>
```

## <table> (Cont.)

### ■ Attributes

- **align**, **bgcolor**, **cellpadding**, **cellspacing**, **frame**, **rules**, **summary**, **width** is *NOT* supported in HTML5.
- **border**
  - Specifies whether the table cells should have borders or not.
  - **1** | ""

## <caption>

- Defines a table caption.
- Must be inserted immediately after the **<table>** tag.
- Differences Between HTML 4.01 and HTML5
  - The **align** attribute is removed from HTML5.

css align: "bottom"

```
1 <table border="1">
2   <caption>Monthly savings</caption>
3   <tr>
4     <th>Month</th>
5     <th>Savings</th>
6   </tr>
7   <tr>
8     <td>January</td>
9     <td>$100</td>
10  </tr>
11  <tr>
12    <td>February</td>
13    <td>$50</td>
14  </tr>
15 </table>
```

Month	Savings
January	\$100
February	\$50

## <colgroup>

- Specifies a group of one or more columns in a table for formatting.
- Is useful for applying styles to entire columns, instead of repeating the styles for each cell, for each row.
- Must be a child of a <table> element, after any <caption> elements and before any <thead>, <tbody>, <tfoot>, and <tr> elements.

## <colgroup> (Cont.)

```
1 <table border="1">
2 <colgroup>
3   <col span="2" style="background-color:red">
4   <col style="background-color:yellow">
5 </colgroup>
6 <tr>
7   <th>ISBN</th>
8   <th>Title</th>
9   <th>Price</th>
10 </tr>
11 <tr>
12   <td>3476896</td>
13   <td>My first HTML</td>
14   <td>$53</td>
15 </tr>
16 <tr>
17   <td>5869207</td>
18   <td>My first CSS</td>
19   <td>$49</td>
20 </tr>
21 </table>
```

ISBN	Title	Price
3476896	My first HTML	\$53
5869207	My first CSS	\$49

# <colgroup> (Cont.)

## ■ Attributes

- **span**

colgroup span

- Specifies the number of columns a column group should span.

```
1 <table border="1">
2   <colgroup span="2" style="background:red"></colgroup>
3   <tr>
4     <th>ISBN</th>
5     <th>Title</th>
6     <th>Price</th>
7   </tr>
8   <tr>
9     <td>3476896</td>
10    <td>My first HTML</td>
11    <td>$53</td>
12  </tr>
13  <tr>
14    <td>5869207</td>
15    <td>My first CSS</td>
16    <td>$49</td>
17  </tr>
18 </table>
```

ISBN	Title	Price
3476896	My first HTML	\$53
5869207	My first CSS	\$49

## <col>

- Specifies column properties for each column within a **<colgroup>** element.

```
1 <table border="1">
2   <colgroup>
3     <col span="2" style="background-color:red">
4     <col style="background-color:yellow">
5   </colgroup>
6   <tr>
7     <th>ISBN</th>
8     <th>Title</th>
9     <th>Price</th>
10  </tr>
11  <tr>
12    <td>3476896</td>
13    <td>My first HTML</td>
14    <td>$53</td>
15  </tr>
16  <tr>
17    <td>5869207</td>
18    <td>My first CSS</td>
19    <td>$49</td>
20  </tr>
21 </table>
```

ISBN	Title	Price
3476896	My first HTML	\$53
5869207	My first CSS	\$49



## <col> (Cont.)

### ■ Attributes

- **span**

- Specifies the number of columns a **<col>** element should span.

colgroup	col	col	.
----------	-----	-----	---

```
1 <colgroup>
2   <col span="2" style="background-color:red" />
3   <col style="background-color:yellow" />
4 </colgroup>
```

## **<tbody>**

- Is used to group the body content in an HTML table.
- Differences Between HTML 4.01 and HTML5
  - None of the HTML 4.01 attributes are supported in HTML5.

## <tbody> (Cont.)

```
1 <style type="text/css">
2   <thead {color:green;}
3   <tbody {color:blue;}
4   <tfoot {color:red;}
5 </style>
6 </head>
7 <body>
8 <table border="1">
9   <thead>
10    <tr>
11      <th>Month</th>
12      <th>Savings</th>
13    </tr>
14  </thead>
15  <tfoot>
16    <tr>
17      <td>Sum</td>
18      <td>$180</td>
19    </tr>
20  </tfoot>
21  <tbody>
22    <tr>
23      <td>January</td>
24      <td>$100</td>
25    </tr>
26    <tr>
27      <td>February</td>
28      <td>$80</td>
29    </tr>
30  </tbody>
31 </table>
```

Month	Savings
January	\$100
February	\$80
Sum	\$180

**Tip:** The `thead`, `tbody`, and `tfoot` elements style these elements.

**Tip:** The `thead`, `tbody`, and `tfoot` elements will not affect the layout of the table by default. However, you can use CSS to style these elements.

## <thead>

- Is used to group header content in an HTML table.
- Differences Between HTML 4.01 and HTML5
  - None of the HTML 4.01 attributes are supported in HTML5.

## <tfoot>

- Is used to group footer content in an HTML table.
- Differences Between HTML 4.01 and HTML5
  - None of the HTML 4.01 attributes are supported in HTML5.

## <tr>

- Defines a row in an HTML table.
- Contains one or more **<th>** or **<td>** elements.
- Differences Between HTML 4.01 and HTML5
  - None of the HTML 4.01 attributes are supported in HTML5.

## <td>

- Defines a standard cell in an HTML table.
- Attributes
  - **abbr, align, axis, bgcolor, char, charoff, height, nowrap, scope, valign, width** is *NOT* supported in HTML5.
  - **headers**
    - Specifies one or more header cells a cell is related to.

## <td> (Cont.)

### ■ Attributes

- **rowspan**

- Sets the number of rows a cell should span.

```
1 <table border="1">
2 <tr>
3   <th>Month</th>
4   <th>Savings</th>
5   <th>Savings for holiday!</th>
6 </tr>
7 <tr>
8   <td>January</td>
9   <td>$100</td>
10  <td rowspan="2">$50</td>
11 </tr>
12 <tr>
13   <td>February</td>
14   <td>$80</td>
15 </tr>
16 </table>
```

Month	Savings	Savings for holiday!
January	\$100	\$50
February	\$80	



## <th>

- Defines a header cell in an HTML table.
- Attributes
  - **abbr, align, axis, bgcolor, char, charoff, height, nowrap, valign, width** is *NOT* supported in HTML5.

## <th> (Cont.)

- Defines a header cell in an HTML table.
- Attributes
  - **colspan**
    - Specifies the number of columns a header cell should span

```
1 <table border="1">
2   <tr>
3     <th colspan="2">Monthly Savings</th>
4   </tr>
5   <tr>
6     <td>January</td>
7     <td>$100</td>
8   </tr>
9   <tr>
10    <td>February</td>
11    <td>$80</td>
12  </tr>
13 </table>
```

Monthly Savings	
January	\$100
February	\$80

## <th> (Cont.)

- Defines a header cell in an HTML table.
- Attributes
  - **rowspan**
    - Specifies the number of rows a header cell should span.

```
1 <table border="1">
2 <tr>
3   <th>Month</th>
4   <th>Savings</th>
5   <th rowspan="3">Savings for holiday!</th>
6 </tr>
7 <tr>
8   <td>January</td>
9   <td>$100</td>
10 </tr>
11 <tr>
12   <td>February</td>
13   <td>$80</td>
14 </tr>
15 </table>
```

Month	Savings	Savings for holiday!
January	\$100	
February	\$80	

## <th> (Cont.)

- Defines a header cell in an HTML table.

- Attributes

- **scope**

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

- **col** | **colgroup** | **row** | **rowgroup**

```
1 <table border="1">
2 <tr>
3   <th></th>
4   <th scope="col">Month</th>
5   <th scope="col">Savings</th>
6 </tr>
7 <tr>
8   <td>1</td>
9   <td>January</td>
10  <td>$100</td>
11 </tr>
12 <tr>
13  <td>2</td>
14  <td>February</td>
15  <td>$80</td>
16 </tr>
17 </table>
```

	Month	Savings
1	January	\$100
2	February	\$80

# Lab1 : Table Tag

## ■ Web Browsers

- Edge, Firefox, Google Chrome, Opera, Safari

## ■ Text Editors

- Visual Studio Code, Notepad++, Editplus, etc...

## ■ Files

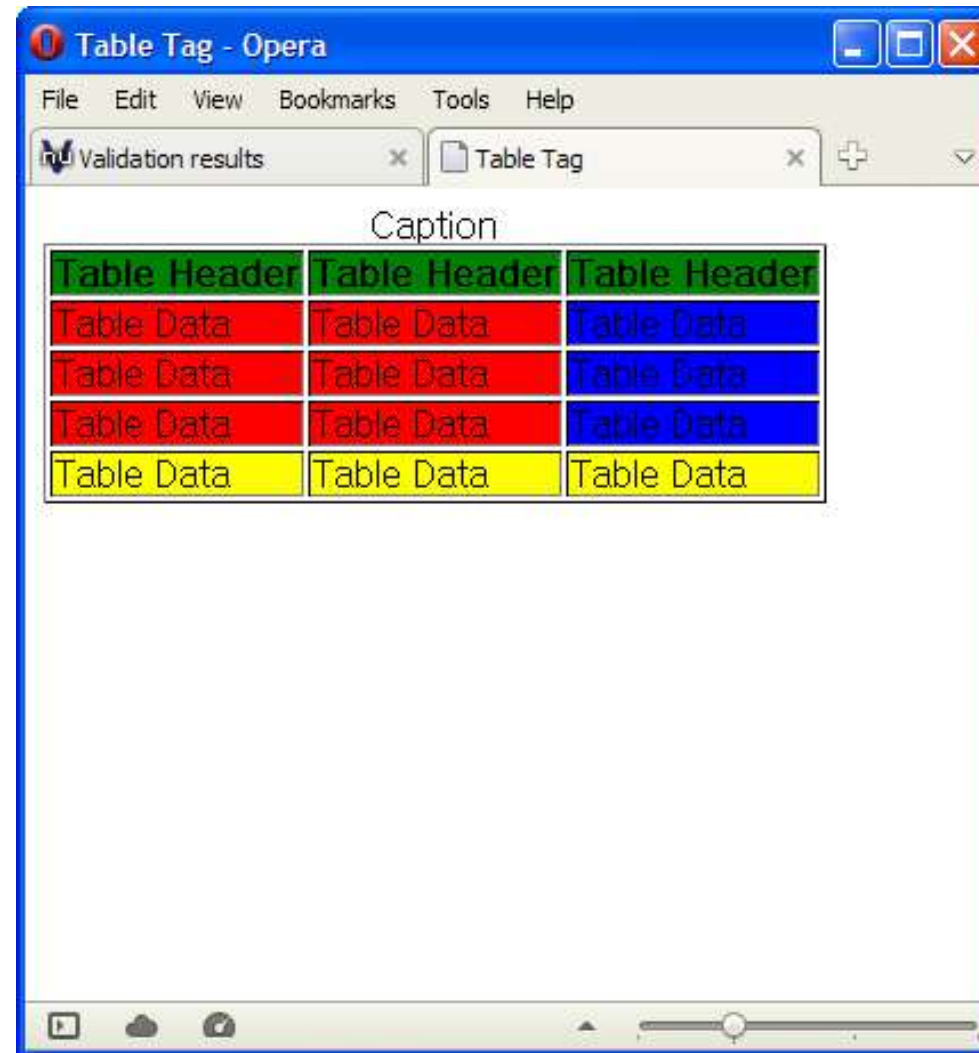
- table.html

# Lab1 : table.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>Table Tag</title>
5  </head>
6  <body>
7    <table border="1">
8      <caption>Caption</caption>
9      <colgroup>
10       <col span="2" style="background: red" />
11       <col style="background: blue" />
12     </colgroup>
13     <thead style="background: green" >
14       <tr>
15         <th>Table Header</th>
16         <th>Table Header</th>
17         <th>Table Header</th>
18       </tr>
19     </thead>
20     <tbody>
21       <tr>
22         <td>Table Data</td>
23         <td>Table Data</td>
24         <td>Table Data</td>
25       </tr>
26       <tr>
27         <td>Table Data</td>
28         <td>Table Data</td>
29         <td>Table Data</td>
30       </tr>
```

```
31  <tr>
32    <td>Table Data</td>
33    <td>Table Data</td>
34    <td>Table Data</td>
35  </tr>
36 </tbody>
37 <tfoot style="background: yellow" >
38   <tr>
39     <td>Table Data</td>
40     <td>Table Data</td>
41     <td>Table Data</td>
42   </tr>
43 </tfoot>
44 </table>
45 </body>
46 </html>
```

# Lab1 : Result



# Lab2 : Table Tag

## ■ Web Browsers

- Edge, Firefox, Google Chrome, Opera, Safari

## ■ Text Editors

- Visual Studio Code, Notepad++, Editplus, etc...

## ■ Files

- table1.html



## Lab2 : table1.html

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Table Tag</title>
5  </head>
6  <body>
7      <table border="1" >
8          <tr>
9              <th colspan="3">Table Data</th>
10             <th rowspan="3">Table Data</th>
11          </tr>
12          <tr>
13              <td>Table Data</td>
14              <td rowspan="2">Table Data</td>
15              <td>Table Data</td>
16          </tr>
17          <tr>
18              <td>Table Data</td>
19              <td>Table Data</td>
20          </tr>
21      </table>
22  </body>
23  </html>
```

# Lab2: Result

