HTML Tables

Table Tags:

1. **<table> Tag:** An HTML table is defined with the **<table>** tag.
2. **<tr> Tag** : Each table row is defined with the **<tr>** tag.
3. **The <td> tag** defines a standard cell in an HTML table.

An HTML table has **two** kinds of cells:

- **Header cells** - contains header information (created with the <th> element)

  <th> Tag : A table header is defined with the **<th>** tag. By default, table headings **are bold and centered.**

- **Standard cells** - contains data (created with the <td> element)

  <td> Tag :A table data/cell is defined with the **<td>** tag. The <td> elements are the data containers of the table. They can contain all sorts of HTML elements; **text, images, lists, other tables**, etc.

4. **<caption>Tag :** The <caption> tag defines a table caption. it must be inserted **immediately after** the <table> tag. **Note:** You can specify **only one** caption per table.

5. **The <thead>** tag is used to group header content in an HTML table.
6. **The <tbody>** tag is used to group the body content in an HTML table.
7. **The <tfoot>** tag is used to group footer content in an HTML table.

The <thead> element is used in conjunction with the <tbody> and <tfoot> elements to specify each part of a table (header, body, footer).

Example1

```
<table > <caption>Student Info</caption>
 <thead>

<tr>
  <th>Firstname</th>
  <th>Lastname</th>
  <th>Age</th>
 </tr>

</thead>
```

Student Info

Firstname	Lastname	Age
Asma	Mohammad	33
Abed	Ayyash	36

Age Average= 34.5

```
<tbody>

 <tr>
  <td>Asma</td>
  <td>Mohammad</td>
  <td>33</td>
 </tr>

 <tr>
  <td>Abed</td>
  <td>Ayyash</td>
  <td>36</td>
 </tr>

</tbody>

<tfoot>

<tr>

  <td>Age Average= </td>

  <td>34.5</td>
</tr>

</tfoot>
</table>
```

Table Attributes:

1. **border attribute:** measured in pixel and the default of the table border is : **no border**

2. **width and height attribute:** measured in pixel or %.

3. **bgcolor attribute:** allow you to give a color to the cell ,the row or to the whole table.

4. **cellpadding attribute:** specifies the space between **the cell content and its borders**.

5. **cellspacing attribute:** specifies the **space, in pixels, between cells.**

   Note: The effect of cellspacing will appear only if **collapse: separate** or if it is not **mentioned in the css.**

6. **bordercolor attribute:** specifies the border color of the table.

Ex.   <table border="1" bordercolor="blue" cellspacing="5" cellpadding="6">

    <thead>

    <tr>

       <th bgcolor="green" >Name</th>

      <th bgcolor="green" >Mark</th>

    </tr>

</thead>

<tbody>

    <tr>

      <td>Ali</td>

    <td>30</td>

    </tr>

</tbody>

    </table>

Name	Mark
Ali	30

7. **align attribute:** The align attribute specifies the **horizontal** alignment of the content in a cell.

8. **valign attribute:** The valign attribute specifies the **vertical** alignment of the content in a cell.

Table Formatting Using internal CSS:

1- **Double Border Table, Coloring and width**

<html>

<head>

<style>

 table, th, td {   border: solid;

              border-width: 3px;

              border-color : red;}

th {   color : green;}

td {   color : blue;}

</style>

</head>

<body>

Firstname	Lastname	Age
Asma	Mohammad	33
Abed	Ayyash	36

……… write the code of your table here.

</body>

</html>

2- Single Border Table

```
   <head>

  <style>    table, th, td {

          border: solid ;

          border-collapse: collapse; //single line border

          border-width: 3px;

          border-color : red;}

        th {    color : green;  →Text Color

            background-color:blue; }→ Cell Color

        td {    color : blue;}

    </style>

    </head>
```

Firstname	Lastname	Age
Asma	Mohammad	33
Abed	Ayyash	36

```
<table >

<thead>

 <tr>

  <th>Month</th>

  <th>Savings</th>

 </tr>

</thead>

<tbody >

 <tr>

  <td >January</td>

  <td align="left"  valign="bottom">$100</td>

 </tr>

 <tr>

  <td>February</td>

  <td align="center" valign="bottom">$80</td>

 </tr></tbody>  </table>
```

3- rowspan and colspan Attributes

To combine /merge adjacent cells to create larger cell for data.

- ✓ **rowspan:** This attribute specifies the number of rows a cell should merged.
- ✓ **colspan:** This attribute specifies the number of columns a cell should merged.

Example1: rowspan attribute

```
<table>
<thead>
  <tr>
   <th>Month</th>
   <th>Savings</th>
   <th>Savings for holiday!</th>
  </tr>
</thead>


<tbody >
  <tr>
   <td>January</td>
   <td>$100</td>
   <td rowspan="2">$50</td>
  </tr>
  <tr>
   <td>February</td>
   <td>$80</td>
  </tr>
</tbody >


<tfoot >
   <tr>
    <td colspan="2">Sum: $180</td>
</tr>
</tfoot >


 </table>
```