



Web Design

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Web Design

Designing Websites

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- A table is a **matrix of cells**, each possibly having content
- The cells can include **almost any element**
- Some cells have **row or column labels** and some have data
- A table is specified as the content of a **<table>** tag
- Tables are given **titles with the <caption> tag**, which can immediately **follow <table>**



Each **row of a table** is specified as the content of a `<tr>` tag.

- The **Column headings** are specified as the content of a `<th>` tag.
- The **contents of a data cell** is specified as the content of a `<td>` tag.

A **border** attribute in the `<table>` tag specifies a border between the cells.

- If **border** is set to "border", the browser's default width border is used
- The `border` attribute can be set to a number, which will be the **border width** without the `border` attribute, the table will have no lines!



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Table Tag

Example:

Each table starts with a table tag.

Each table row starts with a tr tag.

Each table data starts with a td tag.

One column:

100

One row and three columns:

100	200	300
-----	-----	-----

Two rows and three columns:

100	200	300
400	500	600



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Table Tag

Example 1:

```
<table border = "border">
```

```
<caption> Fruit Juice Drinks </caption>
```

```
<tr>
```

```
<th> </th>
```

```
<th> Apple </th>
```

```
<th> Orange </th>
```

```
<th> Grapes</th>
```

```
</tr>
```

```
<tr>
```

```
<th> Breakfast </th>
```

```
<td> 0 </td>
```

```
<td> 1 </td>
```

```
<td> 0 </td>
```

```
</tr>
```

```
<tr>
```

```
<th> Lunch </th>
```

```
<td> 1 </td>
```

```
<td> 0 </td>
```

```
<td> 0 </td>
```

```
</tr>
```

```
</table>
```

Fruit Juice Drinks

	Apple	Orange	Grapes
Breakfast	0	1	0
Lunch	1	0	0
Dinner	0	0	1



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colspan & rowspan

Colspan: To make a cell span over multiple columns, use the colspan attribute.

NAME		

Rowspan: To make a cell span over multiple rows, use the rowspan attribute

Name	Jill
Phone	555-1234
	555-8745



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colspan & rowspan



Example 2:

```
<table width="200">  
  <tr>  
    <th>Name</th>  
    <td>Gaurav</td>  
  </tr>  
  
  <tr>  
    <th rowspan="2">Phone</th>  
    <td>7758243239</td>  
  </tr>  
  
  <tr>  
    <td>9958245539</td>  
  </tr>  
</table>
```

Name	Gaurav
Phone	7758243239
	9958245539



- The `align` **attribute** controls the horizontal placement of the contents in a table cell
- Values are `left`, `right`, **and** `center`
- `align` is an attribute of `<tr>`, `<th>`, and `<td>` elements



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Align



- The `valign` attribute controls the vertical placement of the contents of a table cell
- Values are `top`, `bottom`, and `center` (default)
- `valign` is an attribute of `<th>` and `<td>` elements



Example:

The align and valign attributes

	Column Label	Another One	Still Another One
align	Left	Center	Right
valign	Default	Top	Bottom



```
<table border = "border">
  <caption> The align and valign attributes </caption>
  <tr align = "center">
    <th> </th>
    <th> Column Label </th>
    <th> Another One </th>
    <th> Still Another One </th>
  </tr>
  <tr>
    <th> align </th>
    <td align = "left"> Left </td>
    <td align = "center"> Center </td>
    <td align = "right"> Right </td>
  </tr>
```

```
<tr>
  <th> <br /> valign <br /> <br /> </th>
  <td> Default </td>
  <td valign = "top"> Top </td>
  <td valign = "bottom"> Bottom </td>
</tr>
</table>
```

The align and valign attributes

	Column Label	Another One	Still Another One
align	Left	Center	Right
valign	Default	Top	Bottom



The **cellpadding** attribute of <table> is used to specify the spacing between the content of a cell and the inner walls of the cell.

- The **cellspacing** attribute of <table> is used to specify **the distance between cells in a table.**
- **cellpadding="10"** adds 10 pixels of padding inside each cell, so **the content is spaced away from the cell's border.**
- **cellspacing="5"** adds 5 pixels of space between the borders of adjacent cells.



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Cellpadding & Cellspacing



Example:

```
<table cellspacing = "50">
```

```
<tr>
```

```
<td> Colorado is a state of ...
```

```
</td>
```

```
<td> South Dakota is somewhat...
```

```
</td>
```

```
</tr>
```

```
</table>
```

Colorado is a state of contrasts. The eastern half is a mostly treeless prairie. On the prairie, trees grow only in the Platte and Arkansas river valleys, with a few found along some other small streams. The forested Rocky Mountains rise abruptly from the high plains about midway from east to west and cover most of the western half of the state. There are 54 mountains in Colorado that top 14,000 feet.

South Dakota is somewhat similar to Colorado in that it is a mostly treeless prairie in the east, but has a range of forested mountains in the west. But in South Dakota, the mountains, named the Black Hills, lie only in the far western part of the state and rise to only a little over 7500 feet. However, they are still the highest mountains east of the Rockies in the U.S. The famous Mount Rushmore is nestled in the middle of the Black Hills.



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Cellpadding & Cellspacing

CELLPADDING and CELLSPACING.

peaches	cherries
walnuts	almonds

CELLSPACING controls the space between table cells. Although there is no official default, browsers usually use a default of 2.

<TABLE BORDER>

peaches	cherries
walnuts	almonds

<TABLE BORDER CELLSPACING=2>

peaches	cherries
walnuts	almonds

<TABLE BORDER CELLSPACING=10>

peaches	cherries
walnuts	almonds

CELLPADDING sets the amount of space between the contents of the cell and the cell wall. The default is 1. CELLPADDING is usually more effective than CELLSPACING for spreading out the contents of the table.

peaches peaches peaches peaches peaches peaches	cherries cherries cherries cherries cherries cherries
--	--

<TABLE BORDER>

peaches	cherries
walnuts	almonds

<TABLE BORDER CELLPADDING=1>

peaches	cherries
walnuts	almonds

<TABLE BORDER CELLPADDING=10>

peaches	cherries
walnuts	almonds



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Table Tag



- Header, body, and footer, which are the elements:
 - thead, tbody, and tfoot
- If a document has multiple tbody elements, they are separated by thicker horizontal lines
- <thead> tag is used within a <table> element to group the header content in a table <th>
- The <tbody> tag in HTML is used to group the body content of a table <tr>
- The <tfoot> tag in HTML is used to group the footer content in a table. It is particularly useful for summarizing information, providing totals, or adding notes related to the table's data.
- The <tfoot> element is typically placed after the <tbody> and before the closing </table> tag,



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Nested Table

Header 1	Header 2	Header 3
Row 1 Data 1	Row 1 Data 2	Row 1 Data 3
Row 2 Data 1	Row 2 Data 2	Row 2 Data 3
Row 3 Data 1	Row 3 Data 2	Row 3 Data 3
Footer Content		

- Semantic meaning:** Makes your HTML table structured and easier to understand.
- Accessibility:** Screen readers and browsers know which is header, data, and footer.



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Nested Table

Nested Table Example

AaAa	BbBb	CcCc				
4	5	6				
Gg	Hh	<table><tr><td>11</td><td>12</td></tr><tr><td>13</td><td>14</td></tr></table>	11	12	13	14
11		12				
13	14					
Kk						



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Nested Table

```
<table border="3" cellpadding="10px" cellspacing="5px">  
  <caption><strong>Nested Table Example </strong></caption>  
  <tr>  
    <td align="left">AaAa </td>  
    <td align="left">BbBb </td>  
    <td align="left">CcCc </td>  
  </tr>  
  <tr>  
    <td align="right">4 </td>  
    <td align="right">5 </td>  
    <td align="right">6 </td>  
  </tr>
```



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Nested Table

```
<tr>
  <td align="left">Gg </td>
  <td rowspan="2" align="left">Hh
</td>
  <td rowspan="2">
    <table border="1">
      <tr>
        <td>11</td>
        <td>12</td>
      </tr>
```

```
<tr>
  <td>13</td>
  <td>14</td>
</tr>
</table>
</td>
</tr>
<tr>
  <td align="left"> Kk </td>
</tr>
</table>
```



THANK YOU

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