



WEEK 6

TABLE

Creating Web Pages with Tables

- A table is a part of a document where information is arranged in rows and columns
- Tables can provide an orderly arrangement of data
- Table Elements
 - Consist of rows, columns, and cells, much like spreadsheets.
 - **Row** – a horizontal line of information
 - **Column** – a vertical line of information
 - **Cell** – an intersection of a row and a column
 - **Data cell**
 - **Heading cell**

Table Elements

Column

Heading Cell

* Display text as bold and centre aligned

Row

First Name	Last Name	Position	Department	Committee
Mary	Stuba	Associate Professor	Management	Assessment
Leroy	Jackson	Assistant Professor	Biology	Grade appeal
Saul	Lerner	Professor	History	Senate

Cell

* Intersection of row and column

Data Cell

* Display normal text that is left aligned

HTML Tables Tags

TAG	Function
<table> </table>	<ul style="list-style-type: none">• Indicates the start and end of a table• All other table tags are inserted within these tags
<tr> </tr>	<ul style="list-style-type: none">• Indicates the start and end of a table row
<th> </th>	<ul style="list-style-type: none">• Indicates the start and end of a table heading / heading cell
<td> </td>	<ul style="list-style-type: none">• Indicates the start and end of a data cell in a table

HTML Table Tags – Example 1


```
<html>
<head>
<title>Example 1</title>
</head>
<body>
<table border="1" cols="5" cellpadding="0" cellspacing="0" width="80%">
  <tr>
    <th>First Name</th>
    <th>Last Name</th>
    <th>Position</th>
    <th>Department</th>
    <th>Committee</th>
  </tr>
  <tr>
    <td>Mary</td>
    <td>Stuba</td>
    <td>Associate Professor</td>
    <td>Management</td>
    <td>Assessment</td>
  </tr>
  <tr>
    <td>Leroy</td>
    <td>Jackson</td>
    <td>Assistant Professor</td>
    <td>Biology</td>
    <td>Grade appeal</td>
  </tr>
  <tr>
    <td>Saul </td>
    <td>Lerner</td>
    <td>Professor</td>
    <td>History</td>
    <td>Senate</td>
  </tr>
</table>
</body>
</html>
```

Output:

First Name	Last Name	Position	Department	Committee
Mary	Stuba	Associate Professor	Management	Assessment
Leroy	Jackson	Assistant Professor	Biology	Grade appeal
Saul	Lerner	Professor	History	Senate

Creating Table caption

`<caption align="alignment">caption text</caption>`



bottom top left right

To add the caption to the race results table:

1. Return to table.html in your text editor
2. Insert the following code below the `<table>` tag as below:-

```
<table>
  <caption align="top"><b>RaceResults</b></caption>
  <tr>
    <th>Group</th>
    <th>Runner</th>
    <th>Time</th>
    <th>Origin</th>
  </tr>
```

Table with caption

Table caption

Race Results

Group	Runner	Time	Origin
MEN	1.PETER TEAGAN	2:12:34	SAN ANTONIO, TEXAS
MEN	2.KYLE WILLS	2:13:05	BILLINGS, MONTANA
MEN	3.JASON WU	2:14:28	CUTLER, COLORADO
WOMEN	1.LAURA BLAKE	2:28:21	PARK CITY,COLORADO
WOMEN	2.KATHY LASKER	2:30:11	CHICAGO, ILLINOIS
WOMEN	3. LISA PETERSON	2:31:14	SEATTLE, WASHINGTON

Modifying the Appearance of a Table

- Adding a table border

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

To insert a table border:

1. Using your text editor, open table.html.
2. Locate the `<table>` tag, and within the tag, type `border="5"` as shown below.

```
<table border="5">
  <caption align="top"><b>Race Results</b></caption>
  <tr>
    <th>Group</th>
    <th>Runner</th>
    <th>Time</th>
    <th>Origin</th>
  </tr>
```


Race results table with a border

Race Results

Group	Runner	Time	Origin
MEN	1.PETER TEAGAN	2:12:34	SAN ANTONIO, TEXAS
MEN	2.KYLE WILLS	2:13:05	BILLINGS, MONTANA
MEN	3.JASON WU	2:14:28	CUTLER, COLORADO
WOMEN	1.LAURA BLAKE	2:28:21	PARK CITY,COLORADO
WOMEN	2.KATHY LASKER	2:30:11	CHICAGO, ILLINOIS
WOMEN	3. LISA PETERSON	2:31:14	SEATTLE, WASHINGTON

Controlling Cell Spacing

- The cellspacing attribute controls the amount of space inserted between table cells. The syntax for specifying the cell spacing is:

```
<table cellpadding="value">
```

A	B
C	D

A	B
C	D

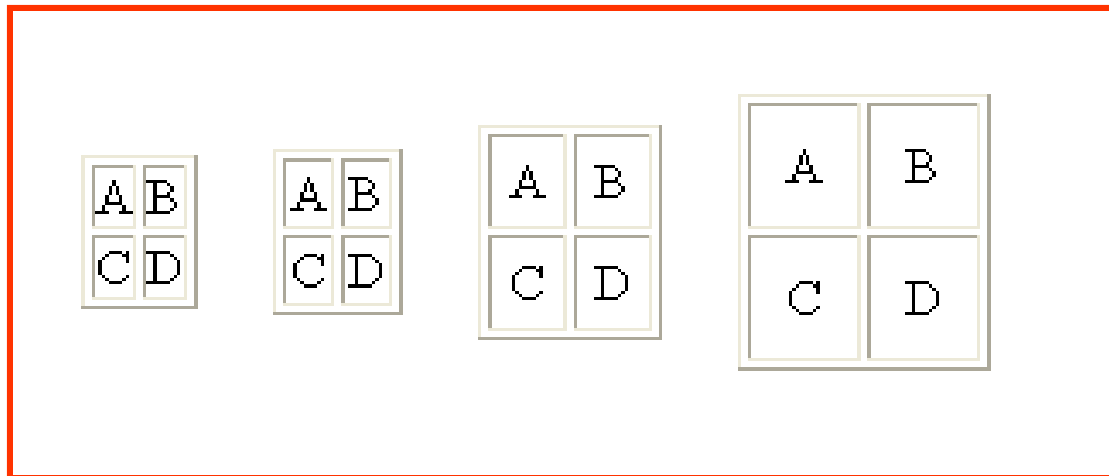
A	B
C	D

A	B
C	D

Defining Cell Padding

- To control the space between the table text and the cell borders, add the cellpadding attribute to the table tag. The syntax for this attribute is:

```
<table cellpadding="value">
```



To add cellspacing and cellpadding

1. Return to table.html in your text editor.
2. Type cellpadding =“5” and cellspacing =“1” within the <table>tag as shown below.

```
<table border="5" cellpadding="5" cellspacing="5">  
  <caption align="top"><b>Race  
Results</b></caption>  
  <tr>  
    <th>Group</th>  
    <th>Runner</th>  
    <th>Time</th>  
    <th>Origin</th>  
  </tr>
```

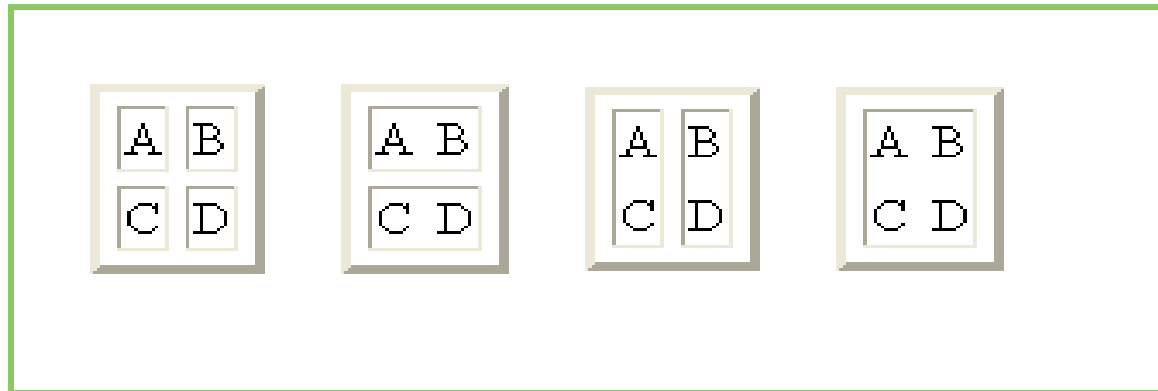
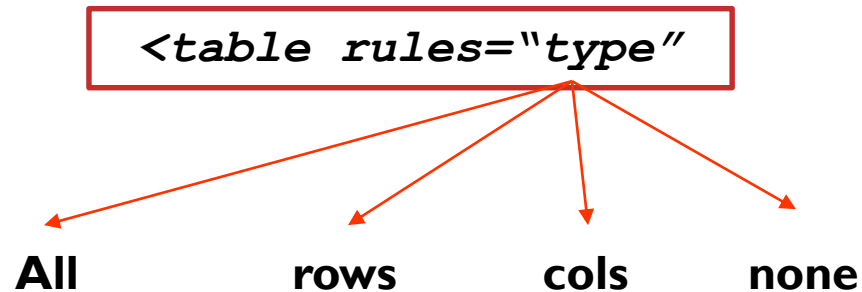
Table with cellspacing and cellpadding

Race Results

Group	Runner	Time	Origin
MEN	1.PETER TEAGAN	2:12:34	SAN ANTONIO, TEXAS
MEN	2.KYLE WILLS	2:13:05	BILLINGS, MONTANA
MEN	3.JASON WU	2:14:28	CUTLER, COLORADO
WOMEN	1.LAURA BLAKE	2:28:21	PARK CITY,COLORADO
WOMEN	2.KATHY LASKER	2:30:11	CHICAGO, ILLINOIS
WOMEN	3. LISA PETERSON	2:31:14	SEATTLE, WASHINGTON

Effect of different rules values

- The rules attribute lets you control how the table gridlines are drawn. The syntax of this attribute is:



Defining the table size

- The syntax for specifying the table size is:

```
<table width = "size" height = "size">
```

Defining the table alignment

- The syntax for specifying the table alignment is:

```
<table align = "alignment">
```

Left right center

Table with alignment and size

```
<table border="5" cellspacing="5" cellpadding="5"
width="500" height="50%" align="center"
rules="all">
  <caption align="top"><b>Race Results</b></caption>
  <tr>
    <th>Group</th>
    <th>Runner</th>
    <th>Time</th>
    <th>Origin</th>
  </tr>
```


Aligning the contents of a table

Align="left" Valign="top"	Align="left" Valign="middle"	Align="left" Valign="bottom"
Align="center" Valign="top"	Align="center" Valign="middle"	Align="center" Valign="bottom"
Align="right" Valign="top"	Align="right" Valign="middle"	Align="right" Valign="bottom"

Table with align and valign

```
<table border="5" cellspacing="5"
  cellpadding="5" width="500" height="50%"
  align="left" rules="all">
  <caption align="top"><b>Race
  Results</b></caption>
  <tr align="center" valign="top">
    <th >Group</th>
    <th>Runner</th>
    <th>Time</th>
    <th>Origin</th>
  </tr>
```

Spanning Rows and Columns

Kevin's proposed table layout

Runner		Time	Origin
Men	1. Peter Teagan	2:12:34	SAN ANTONIO, TEXAS
	2. Kyle Wills	2:13:05	BILLINGS, MONTANA
	3. Jason Wu	2:14:28	CUTLER, COLORADO
Women	1. Laura Blake	2:28:21	PARK CITY, COLORADO
	2. Kathy Lasker	2:30:11	CHICAGO, ILLINOIS
	3. Lisa Peterson	2:31:14	SEATTLE, WASHINGTON

Creating a Spanning Cell

- To create a cell that spans several columns, enter the colspan attribute within the <td> or <th> tags as follows:
colspan="value"
where value is the number of columns to be spanned
- To create a cell that spans several rows, enter the rowspan attribute as follows:
rowspan="value"
where value is the number of rows to be spanned

<table border="5" cellspacing="5" cellpadding="5" width="500" height="50%" align="left" rules="all">

<caption align="top">Race Results</caption>

<tr align="center" valign="top">

<th colspan="2">Runner</th>

<th>Time</th>

<th>Origin</th>

</tr>

<tr>

<td rowspan="3">MEN</td>

<td>1.PETER TEAGAN</td>

<td>2:12:34</td>

<td>SAN ANTONIO, TEXAS</td>

</tr>

<tr>

<td>2.KYLE WILLS</td>

<td>2:13:05</td>

<td>BILLINGS, MONTANA</td>

</tr>

<tr>

<td>3.JASON WU</td>

<td>2:14:28</td>

<td>CUTLER, COLORADO</td>

</tr>

<tr>

<td rowspan="3">WOMEN</td>

<td>1.LAURA BLAKE</td>

<td>2:28:21</td>

<td>PARK CITY,COLORADO</td>

</tr>

<tr>

<td>2.KATHY LASKER</td>

<td>2:30:11</td>

<td>CHICAGO, ILLINOIS</td>

</tr>

<tr>

<td>3. LISA PETERSON</td>

<td>2:31:14</td>

<td>SEATTLE, WASHINGTON</td>

</tr>

</table>

Race Results

Runner		Time	Origin
MEN	1.PETER TEAGAN	2:12:34	SAN ANTONIO, TEXAS
	2.KYLE WILLS	2:13:05	BILLINGS, MONTANA
	3.JASON WU	2:14:28	CUTLER, COLORADO
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	2.KATHY LASKER	2:30:11	CHICAGO, ILLINOIS
	3. LISA PETERSON	2:31:14	SEATTLE, WASHINGTON

Additional

- Defining the table background color
`<table bgcolor="color">`
`<tr bgcolor="color">`
`<td bgcolor="color">`
`<th bgcolor="color">`
- Using the bordercolor attribute
`<table border="10" bordercolor="blue"`
`bordercolorlight="#b2b2ff">`

Useful link

- <http://html-color-codes.com/>
- http://www.w3schools.com/html/html_colors.asp