



FEU INSTITUTE OF TECHNOLOGY
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Web Design Fundamentals / Basic Web Design

**Linking Pages, Images, Tables –
ITEWEBDES**



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CREATING LINKS





Anchor Tag **<A>** **<a>**

A tag that identifies a link or a location within a document that creates hyperlink using HREF = attribute.

Ex:

` Visit FEU `

` Visit FEU `



Attribute Information

HREF="URL"

Specifies the relative or absolute location of a file to which you want to provide a hyperlink.

Absolute URL - points to another web site
(like

`href="http://www.example.com/theme.css"`)

Relative URL - points to a file within a web site
(like `href="/themes/theme.css"`)



HTML Link with Image

Make a hyperlink of an image and text.

- a. Create a folder inside the main folder ITEWEBDES_section.
- b. Foldername: surnamelImageLink
- b. Open notepad++, create two .html file.
 1. index.html
 2. nextpage.html
- c. Save any image. Filename: pic01.jpg

```
index.htm
<html>
<head> <title> Hyperlink of an Image </title></head>

<body>
<p> Use an image as a link: <br><br>

<a href="nextpage.htm">

  </a> <br>
<a href="nextpage.htm"> Link Text </a>

  </p>
</body>
</html>
```



Adding images to the body content either static images, animated icons, pictures, drawing illustration can make documents more attractive, inviting, professionally looking, informative and easy to browse.



There is also a special feature for adding images for it to become visual map of hyperlinks.

Disadvantage is, it would lengthen the time it takes for users to download pages.



There is no prescribed format for images to be used in web.

However most popular browsers accommodate certain images like GIF, PNG, and JPEG.

Other formats requires special applications to be installed to view special files.



WEB OUTPUT

FILE FORMAT	WHEN TO USE
JPEG (Joint Photographic Experts Group)	Commonly used for graphics that include a wide range of colors, like photos. It compresses images so they take up less space, but the smaller file size comes at a price: loss of quality.
GIF (graphics interchange format)	Use GIF for images with solid blocks of color. If you're dealing with line art or images made from areas of solid color (logos, comic strips, and so on).
PNG (Portable Network Graphics)	Use PNG for super high-quality files. If quality is more important than download speed, save your image as a PNG. It also offers true transparency and better image quality than a JPEG, but it generates larger files.
WBMP (Wireless Bitmap)	Use for black-and-white images headed for mobile devices. If you're designing black-and-white images for handheld devices (cell-phones, smart phones, and so on), choose WBMP.



Inserting Image

```
<html>
<head> <title> Adding Images </title> </head>

<body>
 <br>

</body>

</html>
```




** tag src attribute**

The `` tag is empty, which means that it contains attributes only, and has no closing tag.

Src stands for "source". The value of the src attribute is the URL of the image you want to display.

```

```



 tag alt attribute

The required **alt** attribute specifies an alternate text for an image, if the image cannot be displayed.

```

```




** tag title attribute**

Provides a balloon text whenever the mouse pointer is hovered over the image

```

```



** tag height and width attribute**

The height and width attributes are used to specify the height and width of an image in pixels.

```

```




INLINE IMAGES IN HTML

It can be inserted within HTML document using an empty tag ``

IMAGES IN BETWEEN TEXT

Images can be displayed among text in HTML document.

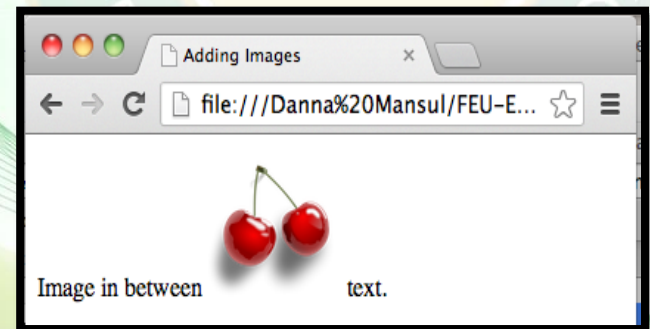


Image in between `` text



IMAGES AND LINKS

Put `` tag inside `<a>` tag for it to become an image link.

BACKGROUND IMAGE

You may also place an image into the background of a document with attribute in the `<body>` tag.

```
<body background="sample.jpg">
```

```
</body>
```




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<table>





Creating Basic Tables

Tables are collections of rows and columns that you use to organize and display data

In a table, the intersection of any given row and column is called a **cell**.

Tables are also used to lay out Web pages, much like frames have been used



Basic `<table>` Elements

You create tables using the `<table>` element. Within the `<table>` element you can nest a number of other elements that specify the content of each cell along with the structure and appearance of the table. The `<table>` element also includes several attributes that affect the appearance and structure of a table.



`<table>` Element

Specifies a container for a table within your document.

Inside these tags you can place **`<tr>`, `<td>`, `<th>`, `<caption>`**, and other `<table>` tags.



Table Elements

Element	Defines
<code><caption></code>	A table caption
<code><col></code>	A table column
<code><colgroup></code>	A table column group
<code><tbody></code>	A table body
<code><td></code>	Table data
<code><tfoot></code>	A table footer
<code><th></code>	A table heading
<code><thead></code>	A table header
<code><tr></code>	A table row



The `<td>` Element

- Cells are the most basic parts of a table
- You create a cell within the `<table>` element using the `<td>` element
- The `<td>` element stands for “table data”
- The content of each `<td>` element is the data that will appear in the table cell



<th> Element

The <th> tag defines a header cell in an HTML table.

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

The text in a <th> element is bold and centered.



Schedule Table

Metropolitan Commuter Railroad - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Address C:\XHTML_Projects\Chapter.06\Chapter\Schedule.html Go Links

Pleasantville to Coast City

6:00 a.m.	7:00 a.m.
7:00 a.m.	8:00 a.m.
8:00 a.m.	9:00 a.m.
4:00 p.m.	5:00 p.m.
5:00 p.m.	6:00 p.m.
6:00 p.m.	7:00 p.m.

Done My Computer



```
<html>
<head>
<title>TABLES </title>
<body>
<table border="10" cellspacing="7" bgcolor="#99CCFF" >
<tr>
<th>Jedi</th>
<th>Votes </th>
</tr>
<tr>
<td>Anakin</td>
<td>34</td>
</tr>
<tr>
<td>Obi Wan Kenobi</td>
<td>56</td>
</tr>
<tr>
<td>Yoda</td>
<td>1000</td>
</tr>
</table>
</head>
</html>
```

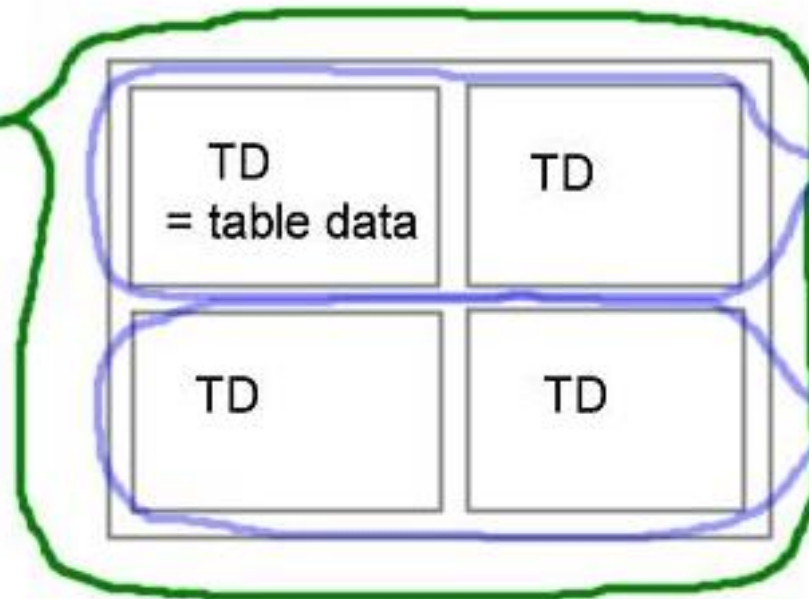
Try this:

Jedi	Votes
Anakin	34
Obi Wan Kenobi	56
Yoda	1000

NOTE: for easier reading
<tr> = rows
<th> or <td> = columns



TABLE



TR
= table row



Caption

Most tables include a caption that describes the data in the table

You create a caption for a Web page table using the <caption> element

The <caption> element must be the first element following the <table> element, and you can include only a single <caption> element per table

A caption should provide a short phrase or title that clearly describes the contents of the table



Caption

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

<table>
  <caption>Monthly savings</caption>
  <tr>
    <th>Month</th>
    <th>Savings</th>
  </tr>
  <tr>
    <td>January</td>
    <td>$100</td>
  </tr>
  <tr>
    <td>February</td>
    <td>$50</td>
  </tr>
</table>

</body>
</html>
```

Monthly savings

Month	Savings
January	\$100
February	\$50

Note:

- The <caption> tag must be inserted immediately after the <table> tag.
- You can specify only one caption per table.



Table Widths

You use the width attribute of the <table> element to specify the size of a table

You can assign a fixed value in pixels or a percentage representing the visible width of a Web browser window



10+ RBI - Microsoft Internet Explorer

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Address C:\XHTML_Projects\Chapter.06\Chapter\RBI.html Go Links

10+ RBI in a Game

Player	Team	Date	RBI
Jim Bottomley	Cardinals	9/24/1924	12
Mark Whiten	Cardinals	9/7/1993	12
Wilbert Robinson	Orioles	6/10/1892	11
Tony Lazzeri	Yankees	5/24/1936	11
Phil Weintraub	Giants	4/30/1944	11
Rudy York	Red Sox	7/27/1946	10
Walker Cooper	Reds	7/6/1949	10
Norm Zauchin	Red Sox	5/27/1955	10
Reggie Jackson	A's	6/14/1969	10
Fred Lynn	Red Sox	6/18/1975	10
Nomar Garciaparra	Red Sox	5/10/1999	10

Done My Computer

Table that take up 100% of the visible Web browser window



Horizontal Alignment

You can use the align attribute to adjust the horizontal alignment of the contents of all table elements with the exception of the <table> and <caption> elements

The values you can assign to the align attribute are left, center, right, and justify



Horizontal Alignment

A screenshot of a Microsoft Internet Explorer window displaying a web page titled "Pleasantville to Coast City". The page shows a "Weekday Schedule" table with two columns: "Depart Pleasantville" and "Arrive Coast City". The table lists departure and arrival times for various trains. The browser's address bar shows the file path "C:\HTML_Projects\Chapter.06\Chapter\Schedule.html". The status bar at the bottom indicates "Done" and "My Computer".

Metropolitan Commuter Railroad - Microsoft Internet Explorer

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Address C:\HTML_Projects\Chapter.06\Chapter\Schedule.html Go Links

Pleasantville to Coast City

Weekday Schedule

Depart Pleasantville	Arrive Coast City
6:00 a.m.	7:00 a.m.
7:00 a.m.	8:00 a.m.
8:00 a.m.	9:00 a.m.
4:00 p.m.	5:00 p.m.
5:00 p.m.	6:00 p.m.
6:00 p.m.	7:00 p.m.

Done My Computer

Schedule.html after adjusting the table width to 100% and centering the contents of each cell



Borders

- You use the <table> element's border attribute to add a border to a table
- The value you assign to the border attribute determines the thickness of the border in pixels



American Life Expectancy - Microsoft Internet Explorer

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← Back → Stop Home Search Favorites Media

Address C:\XHTML_Projects\Chapter.06\LifeExpectancy.html Go Links »

American Life Expectancy

Group	At Birth	At Age 65
Males	74.1	16.3
Females	79.5	19.2
All Americans	76.9	17.9

Done My Computer

Table with a 5-pixel border in a Web browser



Displaying Empty Cells

- Web browsers do not render the borders around empty cells
- To fix this problem, you need to add a <td> element for each empty cell, and include a non-breaking space character entity (** **) as each cell's content



Cell Margins

The cellspacing attribute specifies the amount of horizontal and vertical space between table cells

You assign to the cellspacing attribute a value representing the number of pixels that you want between table cells

In comparison, the cellpadding attribute specifies the amount of horizontal and vertical space between each cell's border and the contents of the cell



Cell Margins

A screenshot of a Microsoft Internet Explorer browser window. The title bar reads "American Life Expectancy - Microsoft Internet Explorer". The address bar shows the file path "C:\XHTML_Projects\Chapter.06\LifeExpectancy.html". The main content area displays a table titled "American Life Expectancy". The table has three columns: "Group", "At Birth", and "At Age 65". The rows represent "Males", "Females", and "All Americans". The table cells are separated by a 10-pixel margin.

Group	At Birth	At Age 65
Males	74.1	16.3
Females	79.5	19.2
All Americans	76.9	17.9

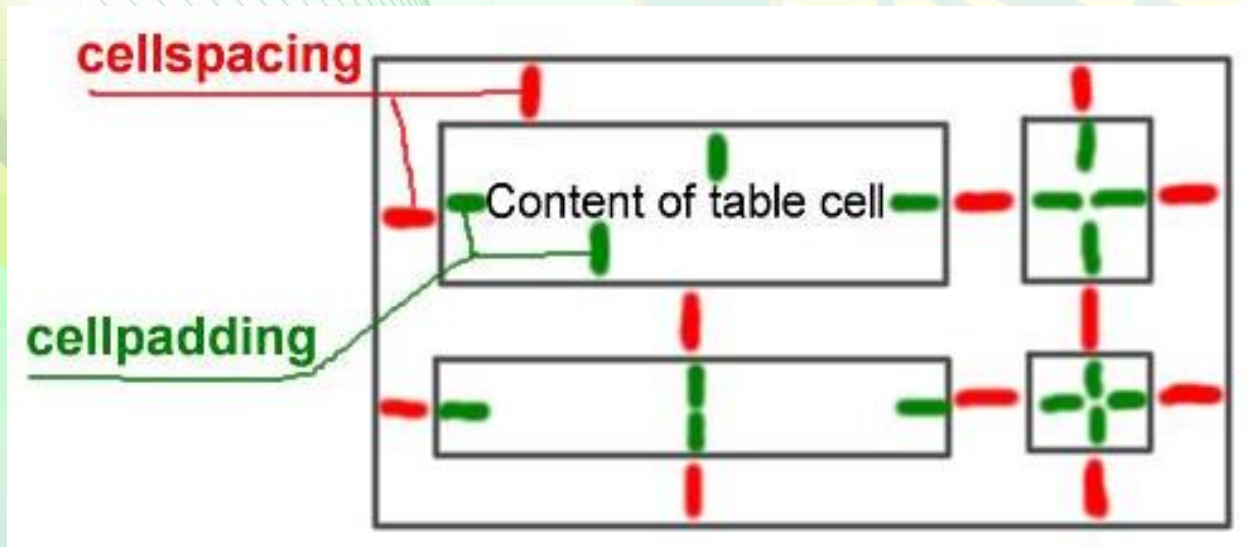
Table with 10 pixels between the table cells



The Attributes **CELLPADDING** and **CELLSPACING**

The attribute **CELLPADDING** describes the space in pixels between a table cell's border and its content.

The attribute **CELLSPACING** describes the space in pixels between the different table cells.





```
<table align="center" border="5" width="500" height="200" cellpadding="10" cellspacing="20">
```

Abbreviation

Long Form

ASAP

as soon as possible

IMHO

in my humble opinion



Understanding **rowspan** and **colspan**:

Table cells can span across more than one column or row.

The attributes **COLSPAN** ("how many across") and **ROWSPAN** ("how many down") indicate how many columns or rows a cell should take up.



Animal Kingdom - Microsoft Internet Explorer

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Address C:\XHTML_Projects\Chapter.06\Chapter\Animalkingdom.html Go Links

Kingdom	Phylum	Class
Animalia	Chordata	Mammalia
		Amphibia
	Arthropoda	Insecta
		Arachnida

Done My Computer

Table with cells that span multiple rows



rowspan

Row Span extends cells on a vertical row (up and down). The line to add for Row Span is `ROWSPAN="X"`. This line adds onto the `<TD>` cell



```
<html>
<head>
<title>My Homepage</title>
</head>
<body>
<table border="1">
<tr>
<td rowspan="2">CELL 1 </td>
<td> Cell 2 </td>
</tr>
<tr>
<td> Cell 3 </td>
</tr>
</table>
</body>
</html>
```

Without spanning:

CELL 1	Cell 2
Cell 3	

	Cell 2
CELL 1	Cell 3



colspan

Column Span extends cells on a horizontal row (left and right). The line to add for Column Span is `colspan="X"`. This line adds onto the `<TD>` cell.


```
<html>
<head>
<title>My Homepage</title>
</head>
<body>
<table border="1">
<tr>
<td>CELL 1 </td>
<td> Cell 2 </td>
</tr>
<tr>
<td colspan="2"> Cell 3
</td>
</tr>
</table>
</body>
</html>
```

CELL 1	Cell 2
Cell 3	





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Tag	Tag attribute	Function
<table>		Begins a table.
	border="..."	Sets the border width in numerical values from 0 and up.
	cellspacing="..."	Empty space between table data cells.
	cellpadding="..."	Empty space between the edge of a cell and cell content.
	align="..."	Aligns the table to the left, right or center.
	width="..."	The width of the table; measured in pixels or as a percentage of available space.
	bgcolor="..."	Background color for all cells that do not have a background color or image specified.
	background="..."	Background image for all cells that do not have a background color or image specified.
	bordercolor="..."	Border color for the table.
	bordercolorlight="..."	Light border color. When used with bordercolordark, helps to create a 3d effect. (Internet Explorer)
	bordercolordark="..."	Dark border color. When used with bordercolorlight, helps to create a 3d effect. (Internet Explorer)
	valign="..."	Vertical alignment of the content, values are top or bottom.



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<code><tr></code>		Establishes a table row.
	<code>align="..."</code>	Horizontal alignment of the content of all cells within this row. Values are left, right and center.
	<code>valign="..."</code>	Vertical alignment of all cells within this row. Values are top, middle, bottom, and baseline.
	<code>bgcolor="..."</code>	Background color of all cells within this row that don't have their own background color or background image.
	<code>background="..."</code>	Background image of all cells within this row that don't have their own background color or background image.
	<code>bordercolor="..."</code>	Border color for this row (Internet Explorer).
	<code>bordercolorlight="..."</code>	Light border color for 3d look (Internet Explorer).
	<code>bordercolordark="..."</code>	Dark border color for 3d look (Internet Explorer).



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<code><th></code>		Begins the table header cell. *See note.
	<code>align="..."</code>	Horizontal alignment of the cell content. Values are left, right and center.
	<code>valign="..."</code>	Vertical alignment of the cell content. Values are top, middle, bottom, and baseline.
	<code>rowspan="..."</code>	The number of rows the cell will span.
	<code>colspan="..."</code>	The number of columns the cell will span.
	<code>nowrap</code>	Prevents cell content from automatically wrapping.
	<code>width="..."</code>	The width of this cell, expressed in pixels or percentage.
	<code>bgcolor="..."</code>	Background color of the cell.
	<code>background="..."</code>	Background image of the cell.
	<code>bordercolor="..."</code>	Border color of the cell (Internet Explorer).
	<code>bordercolorlight="..."</code>	Light border color for 3d look. (Internet Explorer)
	<code>bordercolordark="..."</code>	Dark border color for 3d look. (Internet Explorer)



<td>		Begins the table data cell.
	align="..."	Horizontal alignment of the cell content. Values are left, right and center.
	valign="..."	Vertical alignment of the cell content. Values are top, middle, bottom, and baseline.
	rowspan="..."	The number of rows the cell will span.
	colspan="..."	The number of columns the cell will span.
	nowrap	Prevents cell content from automatically wrapping.
	width="..."	The width of this cell, expressed in pixels or percentage.
	bgcolor="..."	Background color of the cell.
	background="..."	Background image of the cell.
	bordercolor="..."	Border color of the cell (Internet Explorer).
	bordercolorlight="..."	Light border color for 3d look. (Internet Explorer)
	bordercolordark="..."	Dark border color for 3d look. (Internet Explorer)
</td>		Closes a table data cell.
</th>		Closes a table header cell.
</tr>		Closes a table row.
</table>		Closes a table.



HTML TABLE ACTIVITY:

rowspan

– how many down

colspan

– how many acrosss



HTML TABLE HANDS-ON QUIZ:

1. 25 points

1

2

3

4

1

2

3

4

5

6

7

8

9

rowspan – how many down

colspan – how many acrosss



HTML TABLE HANDS-ON QUIZ:

2. 25 points

	1	2	3	4
1				
2				
3				



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End of Module

