



University Of Babylon  
College of Information Technology  
Department Of Information Networks

# Dynamic HTML

Lecture 3:

HTML Main Concepts

Lecturer:

Ali Kadhim Bermani

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# Overview

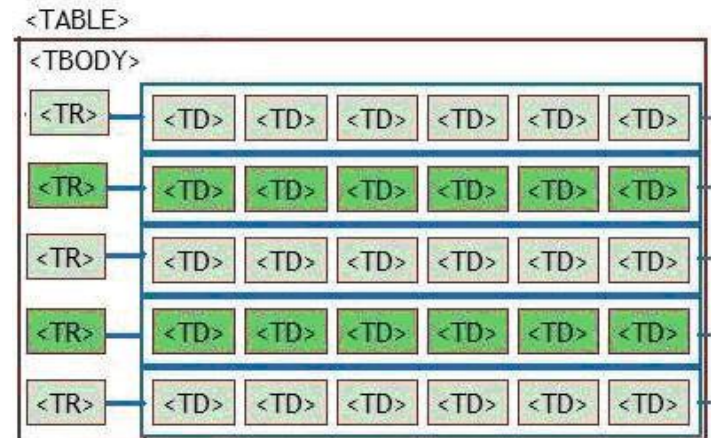
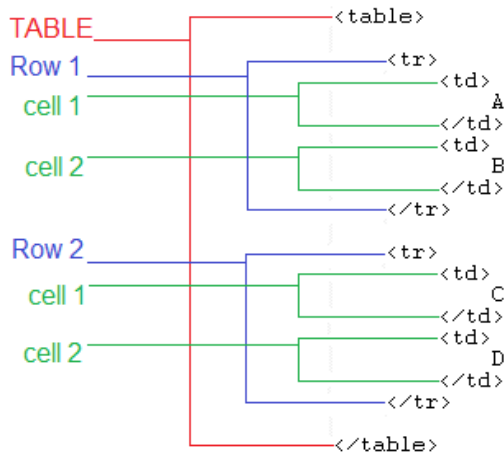
- Table and Table Properties
- Type of Links
- Images and Images Properties

## Lecture Goals

- At the end of this lecture, you will be able to:
  - Design tables and use different properties.
  - Linking your page with other pages or jumping to another position in the same page.
  - Using images in the web pages design.

# Tables

Element	Description
<code>&lt;table&gt;</code> <code>&lt;/table&gt;</code>	The <i>table</i> element creates the table. Use this element for each table you wish to create on a page.
<code>&lt;tr&gt;</code> <code>&lt;/tr&gt;</code>	The <i>table row</i> element establishes, as you would expect, a row. If your table is to have ten rows, you will use this element ten times.
<code>&lt;td&gt;</code> <code>&lt;/td&gt;</code>	TD stands for <i>table data</i> . This element creates individual cells in a row (and, by default, the table's columns). Whatever content you want to place in the table goes between the <code>&lt;td&gt;</code> tags.



# Table (Cont...)

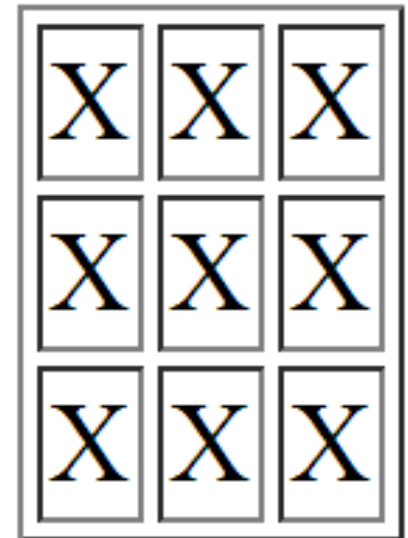
```
<html>
<head><title>Table Exercise</title></head>
<body>
<table>
<tr> <td>X</td> <td>X</td> <td>X</td> </tr>
<tr> <td>X</td> <td>X</td> <td>X</td> </tr>
<tr> <td>X</td> <td>X</td> <td>X</td> </tr>
</table>
</body>
</html>
```

X	X	X
X	X	X
X	X	X

# Table (Cont...)

## Display a Border

```
<html>
<head><title>Table Exercise</title></head>
<body>
<table border="1px">
<tr> <td>X</td> <td>X</td> <td>X</td> </tr>
<tr> <td>X</td> <td>X</td> <td>X</td> </tr>
<tr> <td>X</td> <td>X</td> <td>X</td> </tr>
</table>
</body>
</html>
```



X	X	X
X	X	X
X	X	X

# Table (Cont...)

## Add Headings

```
<html>
<head> <title>Table Exercise</title> </head>
<body>
<table border="1px">
<tr> <th>Col 1</th> <th>Col 2</th> <th>Col 3</th> </tr>
<tr> <td>X</td> <td>X</td> <td>X</td> </tr>
<tr> <td>X</td> <td>X</td> <td>X</td> </tr>
<tr> <td>X</td> <td>X</td> <td>X</td> </tr>
</table>
</body>
</html>
```

Col 1	Col 2	Col 3
X	X	X
X	X	X
X	X	X

# Table (Cont...)

## Add Caption

```
<html>
<head><title>Table Exercise</title></head>
<body>
<table border="1px">
<caption>The Caption</caption>
<tr><th>Col 1</th><th>Col 2</th><th>Col 3</th></tr>
<tr><td>X</td><td>X</td><td>X</td></tr>
<tr><td>X</td><td>X</td><td>X</td></tr>
<tr><td>X</td><td>X</td><td>X</td></tr>
</table>
</body>
</html>
```

Col 1	Col 2	Col 3
X	X	X
X	X	X
X	X	X

## Table (Cont...)

- ❑ Position Content **Horizontally** with the **align=" "** Attribute

Left, right, center, or justify values

- ❑ Position Content **Vertically** with the **valign=" "** Attribute

top, middle, bottom, or baseline values

# Table (Cont...)

```
<table border="3" height="200" width="200">  
<caption>How to Use Tables</caption>  
<tr> <th>Col 1</th> <th>Col 2</th> <th>Col 3</th> </tr>  
<tr> <td align="left">Left</td> <td align="center">Cent.</td>  
<td align="right">Right</td> </tr>  
<tr> <td valign="top">Top</td> <td valign="middle">Mid.</td>  
<td valign="bottom">Bottom</td> </tr>  
<tr> <td valign="baseline">Baseline</td>  
<td align="justify">Justify</td> <td>Default</td> </tr>  
</table>
```

How to Use Tables

Col 1	Col 2	Col 3
Left	Cent.	Right
Top	Mid.	Bottom
Baseline	Justify	Default

# Table (Cont...)

**Colspan** (merge columns) and **rowspan** (merge rows)

```
<table border="1px" height="200" width="200">
<tr>
<td>Col 1</td> <td colspan="2">span 2 cells in
columns</td>
</tr>
<tr> <td>Left</td> <td>Cent.</td>
<td>Right</td></tr>
<tr>
<td rowspan="2">span 2 cells in 2 rows</td>
<td>Mid.</td> <td>Bottom</td></tr>
<tr><td>Justify</td> <td>Default</td></tr>
</table>
```

Col 1	span 2 cells in columns	
Left	Cent.	Right
span 2 cells in 2 rows	Mid.	Bottom
	Justify	Default

# Tables (Cont...)

## Adjust Space In and Between Cells

```
<table border="3" bgcolor="magenta" cellspacing="10"> (between cells)
```

```
<table border="3" bgcolor="magenta" cellpadding="10" cellspacing="10"> (In cells)
```

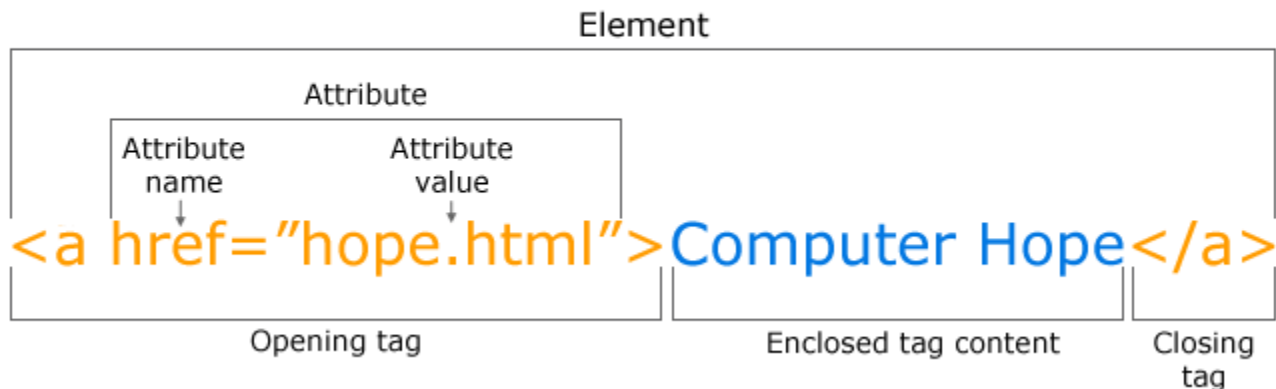
Your Turn!... Design the following table:

	Col 1	Col 2	Col 3	Col 4	Col 5
Row 1	Header				
Row 2	Left Index	text		pic	pic
Row 3		pic	text		
Row 4		text			

# Understand Hypertext and Links

- Pages are linked together
  - It is possible to go to the specific page
  - It is possible to go to a precise location on the page
- It's all possible because of **hypertext**

## Breakdown of an HTML Tag



# Understand URLs

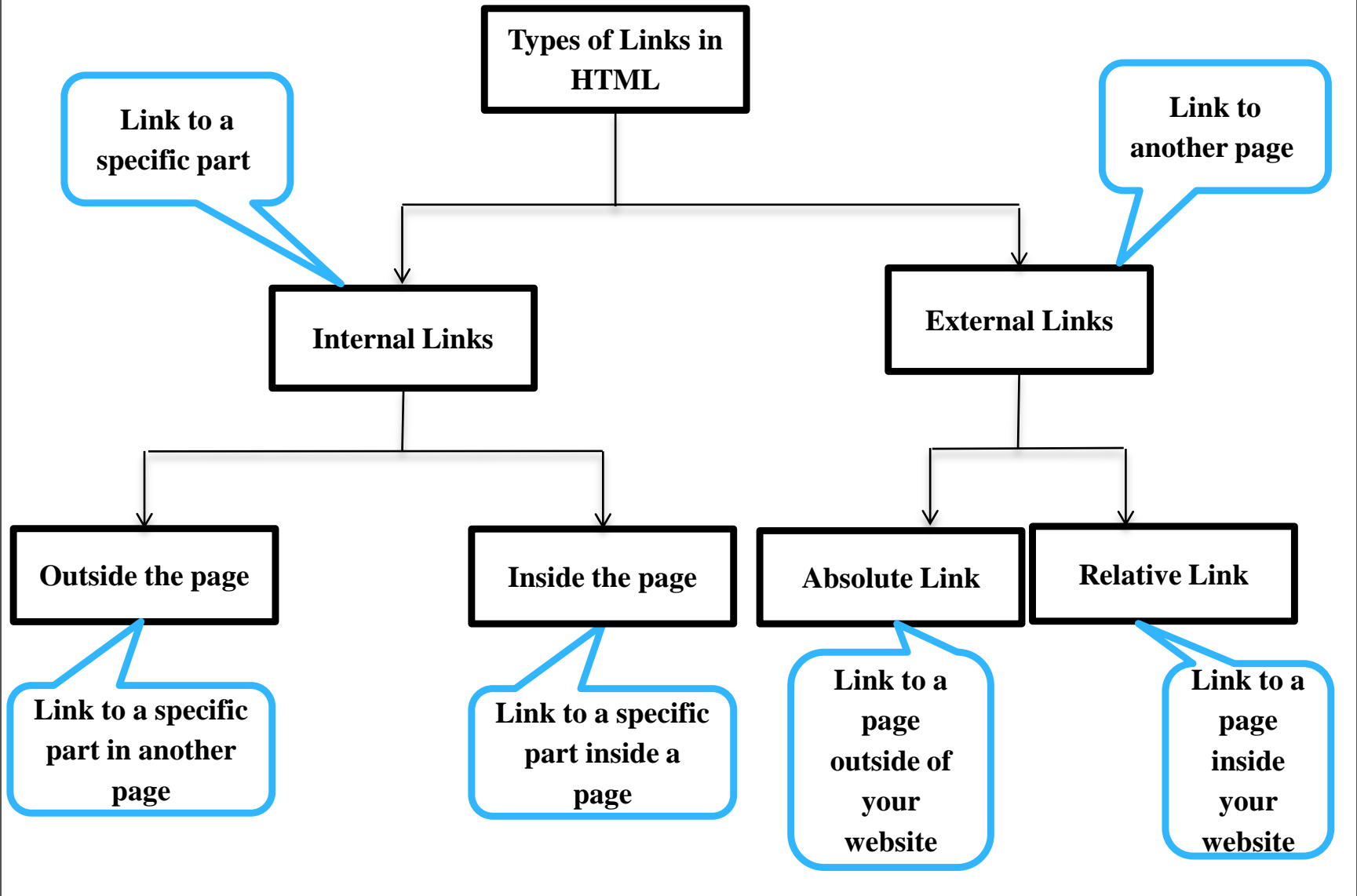
- URL: **U**niform **R**esource **L**ocator
- URLs are more commonly known as Web addresses, Internet addresses.
- A URL is made up of several parts:

**<http://www.mysite.com/index.htm>**

- First part: Hypertext Transfer Protocol (<http://>)
- Second part: the host ([www.yahoo.com](http://www.yahoo.com))
- Third part: locates the file on the server

- <http://www.mysite.com/vacations/pictures.htm>

# Links



# Links: External link

- **Link to another Web Site with the Anchor Element, `<a> </a>`**
- `<a href=http://www.uobabylon.edu.iq >Go to University of Babylon.</a>`
- `<a href=" " >This link doesn't go anywhere</a>`



# Links: Internal link

- Navigate Your Site with **Internal Links**
- **Link to Pages on Your Own Site**
  - `<a href="headings.htm">Headings Page</a>`
- **Link to another Page in a Different Directory**
  - `<a href="/lectures/secondyear/lecture3.htm">Lecture 3</a>`



# Links (Cont...)

- **Link to Precise Spots on a Page**

- **Create an Anchor with the `name=""` Attribute**

- `<a name="top"> </a>`

- `<a href="#top">Top of Page</a>`

- **Create an Anchor with the `id=""` Attribute**

- `<h1 id="heading"> The top of the page </p>`

- `<a href="#heading">Go to Top</a>`

# Links (Cont...)

- **Use Named Anchors to Link to Precise Locations on Different Pages**

- Anchor (on the courses.htm page):

```
<p id="biology103">Biology 103</p>
```

- Link (perhaps on a degree program page, listing required courses):

```
<a href="courses.htm#biology103">Click for a description of BI-103</a>
```



Links

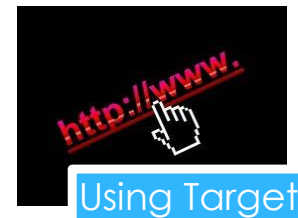
# Links

- Use `target=""` to Open New Browser Windows
- The most common target attribute values are:
- **\_self**: the page/document opens in the same

```
<a href="https://www.semrush.com/"target=_self">Visit Semrush!</a>
```

- **\_blank**: opens the document/page in a new.

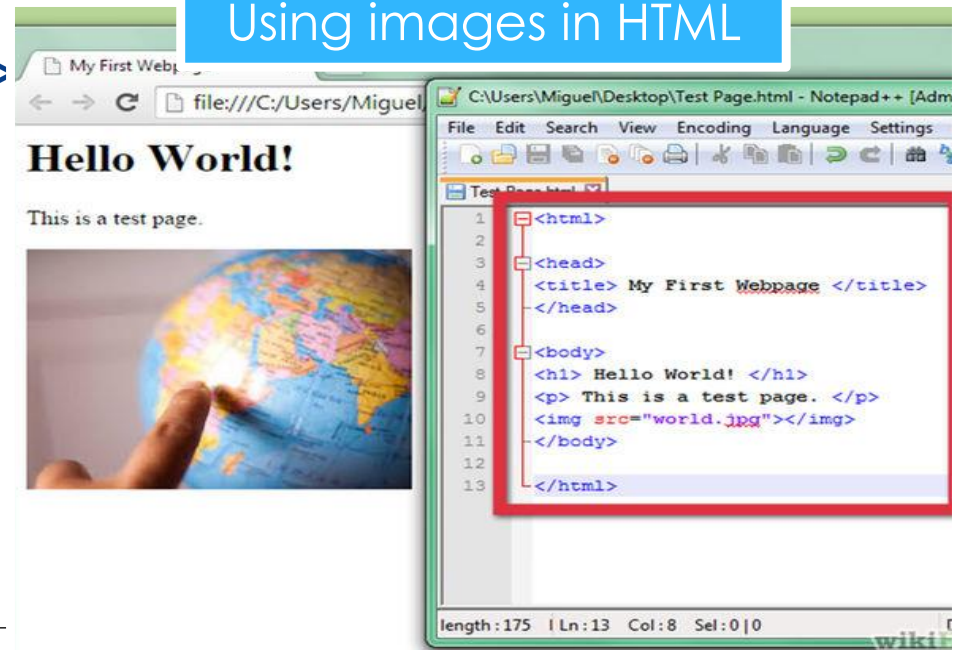
```
<a href="https://www.semrush.com/"target=_blank">Visit Semrush!</a>
```



# Images

- Empty element: `<img />`
- Using `source` attribute to identify the location of image: `src=""`
- It may be in the same directory:
  - ``
- OR in a different directory:
  - ``

Using images in HTML



The image shows a composite of two windows. On the left is a web browser window titled 'My First Webpage' with the URL 'file:///C:/Users/Miguel...'. The page content includes the text 'Hello World!' and 'This is a test page.' followed by a small image of a hand pointing at a globe. On the right is a Notepad++ window titled 'C:\Users\Miguel\Desktop\Test Page.html - Notepad++ [Admin]'. The code in the Notepad++ window is as follows:

```
1 <html>
2
3 <head>
4 <title> My First Webpage </title>
5 </head>
6
7 <body>
8 <h1> Hello World! </h1>
9 <p> This is a test page. </p>
10 </img>
11 </body>
12
13 </html>
```

# Images (Cont...)

- Using alternative text attribute for Adding description to the image: `alt="the description"`
  - × ``
- The description appears as a tip.
- Or when the picture doesn't show for any reason.
- So, we do advise to include **alt** with images.
- **Notes:**
  - Use the **exact name** of the picture.
  - Use the **exact extension** of the picture.

# Images (Cont...)

- Control Graphic Size with Height and Width:
  - ``
- Wrap Text and Align Images:
  - ``
  - ``
  - ``
  - ``
  - ``

# Images (Cont...)

- Specify White Space around Your Image:
  - ``
- Add a Border:
  - ``

# Images (Cont...)

- Create Image Links:

- `<a href="http://www.google.com">  </a>`

- `<a href="index.html">  </a>`

- `<a href=" ../net/dept.html">  </a>`