MMGD0204
Web Application Technologies

Chapter 4

HTML IMAGES, OBJECTS AND TABLES

Chapter 4 – HTML Images, Objects and Tables

Image Tag

- In HTML, images are defined with the <img /> tag.

- The <img /> tag is empty, which means that it contains attributes only and it has no closing tag.

- The browser puts the image where the image tag occurs in the document.

- If you put an image tag between two paragraphs, the browser shows the first paragraph, then the image, and then the second paragraph.

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Image Tag - Attribute

Attribute	Value
src	URL, filename
width	Number
height	Number
alt	Text
border	number

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Image Tag

Image File Format
- Joint Photographic Expert Group (.jpg)
- Graphic Interchange Format (.gif)
- Windows Bitmap (.bmp)
- Portable Network Graphic (.png)

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Image Tag – Example 1

```
<img src="cat.jpg" />
```

```
<img src="cat.jpg" width="100" height="100" />
```

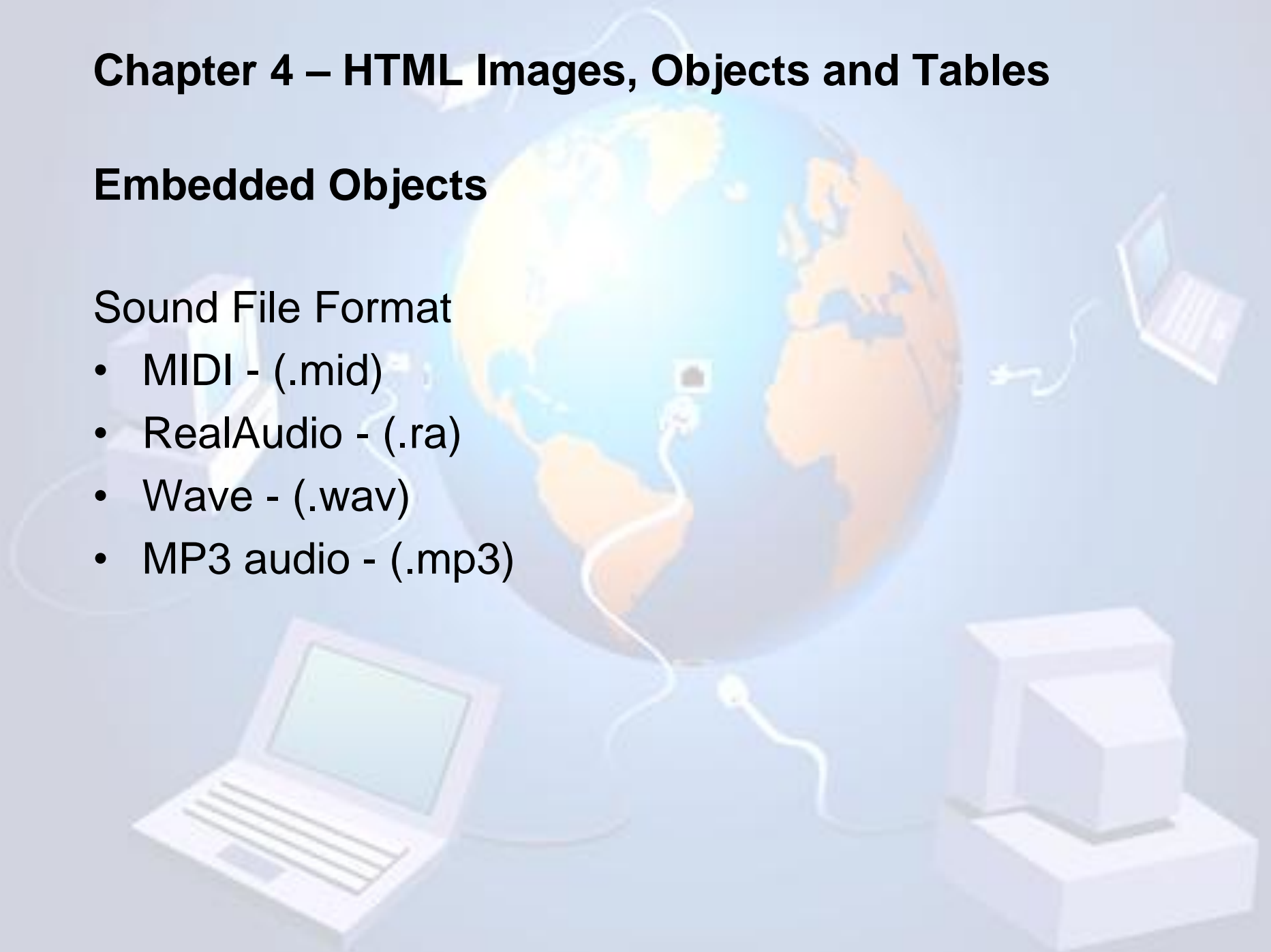**Chapter 4 – HTML Images, Objects and Tables**

Embedded Objects

- Multimedia elements (like sounds or videos) are stored in media files.

- <embed> tag puts a browser plugin in the page.

- A plugin is a special program located on the client computer (i.e. not on your web server) that handles its own special type of data file.

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Embedded Objects

Sound File Format

- MIDI - (.mid)

- RealAudio - (.ra)

- Wave - (.wav)

- MP3 audio - (.mp3)

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Embedded Objects

Video File Format

- Audio Video Interleave (AVI) – (.avi)

- Quicktime – (.mov)

- Moving Pictures Expert Group (MPEG) – (.mpg)

- RealVideo – (.rm)

- Shockwave (Flash) – (.swf)

- Adobe Flash Video – (.flv)

- Windows Media – (.wmv)

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Embedded Objects - Attribute

Attribute	Value
src	URL, filename
width	Number
height	Number
align	Left, center, right
hidden	True, false
loop	True, false
autostart	True, false

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Playing Sound

- As background music

<div style="background-color:#d0d0f0">

<embed src="song.mp3" hidden="true" loop="true" autostart="true">

</div>

- With player

<div style="background-color:#d0d0f0">

<embed src="song.mp3" hidden="false" loop="false" autostart="false">

</div>

Note: use width and height attributes to set player size.

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Playing Video

- Embed flash

<embed src="olympic.swf" hidden="false" loop="false" autostart="false">

Note: use width and height attributes to set player size.

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Playing Flash

- Embed flash

<embed src="olympic.swf">

Note: use width and height attributes to set player size.

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The Table Element

- Tables are defined with the <table> tag.

- A table is divided into rows (with the <tr> tag), and each row is divided into data cells (with the <td> tag).

- A data cell can contain text, images, lists, paragraphs, forms, horizontal rules, tables, etc.

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Table Header

- Header information in a table are defined with the <th> tag.
- All major browsers will display the text in the <th> element as bold and centered.

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Attribute

Tag	Attribute	Value
<table>	border	number
<table>,<th>,<tr>	width	pixel
<td>	height	pixel
<table>,<th>,<tr>, <td>	align	left, center, right
<td>	valign	top, middle, bottom
<table>,<th>,<tr>, <td>	bgcolor	color name

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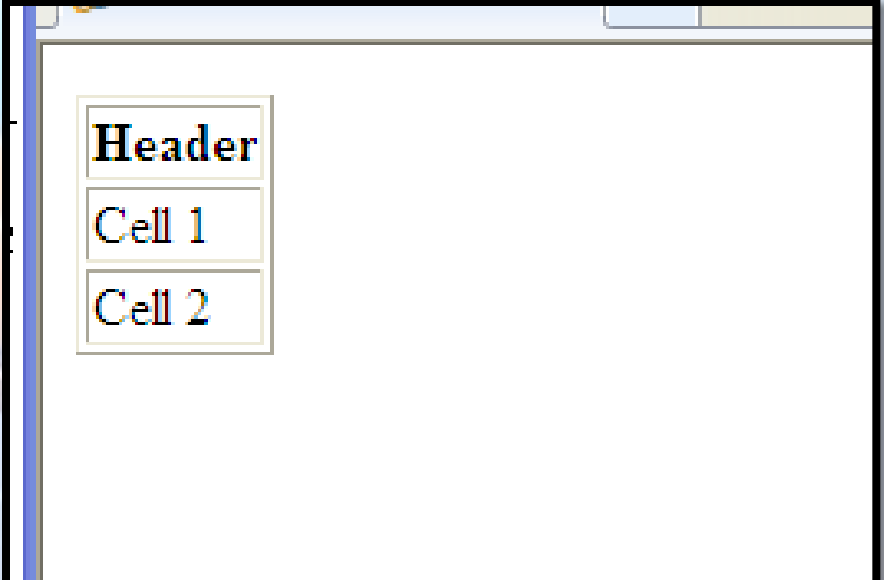## Table Tag – Example 1

```
<table border="1">
<tr>
<th>Header 1</th>
<th>Header 2</th>
</tr>
<tr>
<td>Cell 1</td>
<td>Cell 2</td>
</tr>
</table>
```
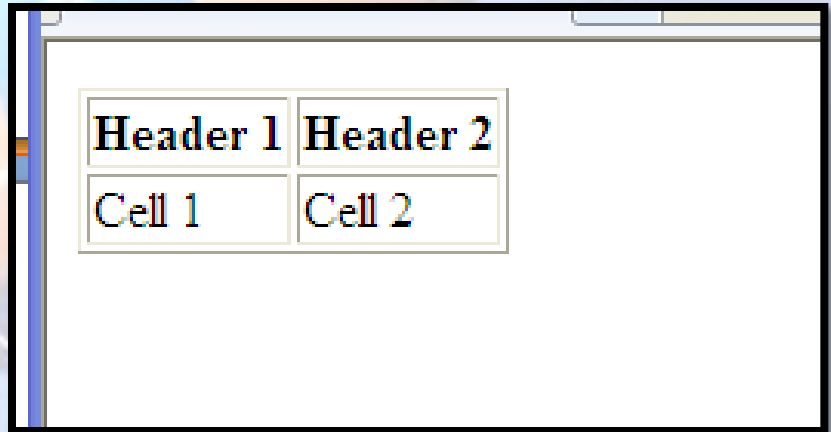
Header 1	Header 2
Cell 1	Cell 2

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Table Tag – Example 2

```
<table border="1">
<tr>
<td>Header</td>
</tr>
<tr>
<td>Cell 1</td>
</tr>
<tr>
<td>Cell 2</td>
</tr>
</table>
```
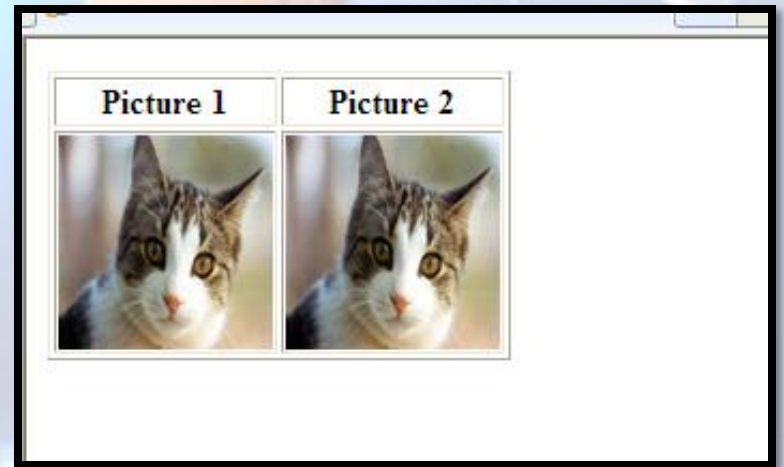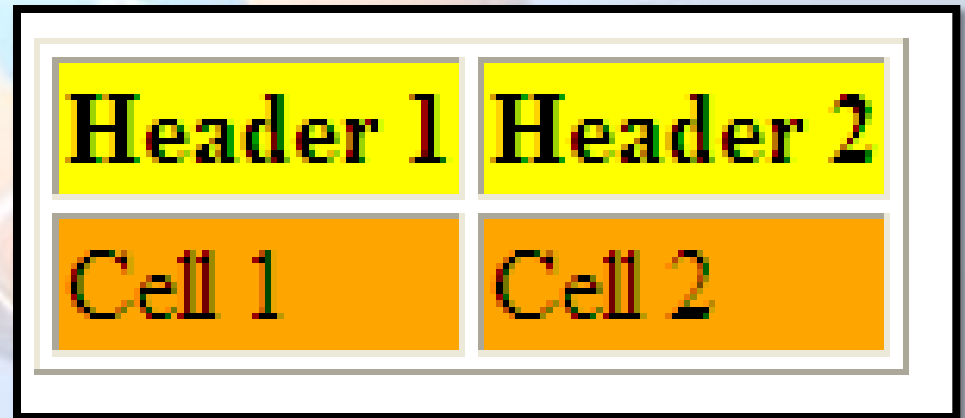
Table Tag – Example 3

```
<table border='1'>
<tr>
<th>Picture 1</th>
<th>Picture 2</th>
</tr>
<tr>
<td><img src='cat.jpg'
width='100' height='100'></td>
<td><img src='cat.jpg'
width='100' height='100'></td>
</tr>
</table>
```

Table Tag – Example 4

```
<table border='1'>
<tr bgcolor='yellow'>
<th>Header 1</th>
<th>Header 2</th>
</tr>
<tr bgcolor='orange'>
<td>Cell 1</td>
<td>Cell 2</td>
</tr>
</table>
```

Header 1	Header 2
Cell 1	Cell 2

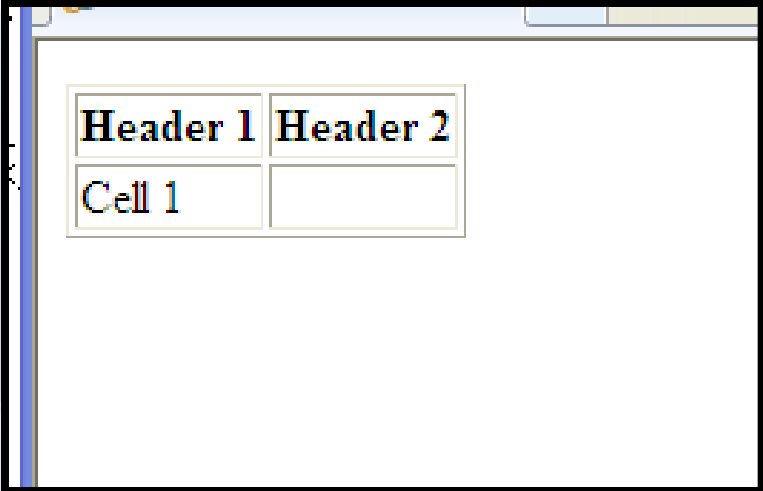**Chapter 4 – HTML Images, Objects and Tables**

Empty Cells in a Table

- Table cells with no content are not displayed very well in most browsers.

- To avoid this, add a **non-breaking space** ( ) to empty data cells, to make the borders visible

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Empty Cells in a Table - Example

```
<table border="1">
<tr>
<th>Header 1</th>
<th>Header 2</th>
</tr>
<tr>
<td>Cell 1</td>
<td>&nbsp</td>
</tr>
</table>
```

Header 1	Header 2
Cell 1	

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Colspan and Rowspan

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

- Column Span extends cells on a horizontal row (left and right).

- Row Span extends cells on a vertical row (up and down).

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Colspan

Before colspan   After colspan

Rowspan

Before rowspan   After rowspan

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Colspan - Example

```
<table border="1" width="200">
<tr>
<td colspan="2">Cell 1</td>
</tr>
<tr>
<td>Cell 2</td>
<td>Cell 3</td>
</tr>
</table>
```

Cell 1	
Cell 2	Cell 3

Rowspan - Example

```
<table border="1" width="200">
<tr>
<td rowspan="2">Cell 1</td>
<td>Cell 2</td>
</tr>
<tr>
<td>Cell 3</td>
</tr>
</table>
```