

Quadrant II – Transcript and Related Materials

Programme: Bachelor of Science (First Year)

Subject: Computer Science

Course Code: CSG104

Course Title: Generic Elective: Multimedia and Web Design

Unit: 04

Module Name: Tables

Notes:

Tables:

- HTML tables allow web developers to arrange data into rows and columns.
- A table in HTML consists of table cells inside rows and columns.
- <table> tag defines a table.
- Table Cells
 - Each table cell is defined by a <td> and a </td> tag.
 - td stands for table data.
 - Everything between <td> and </td> are the content of the table cell.
- **Table Rows**
 - ✓ Each table row starts with a <tr> and end with a </tr> tag.
 - ✓ tr stands for table row.
- **Some more elements included in table are:**
 - ✓ Caption – to create caption/heading of data.
 - ✓ Tbody – used to group rows of a table.
 - ✓ Thead – defines header for table.
 - ✓ Tfoot – defines footer for table

Example of Table

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

<h2>TABLE</h2>

<table style="width:100%">
  <tr>
    <td>Emil</td>
    <td>Tobias</td>
    <td>Linus</td>
  </tr>
  <tr>
    <td>16</td>
    <td>14</td>
    <td>10</td>
  </tr>
</table>
</body>
</html>
```

Output:

TABLE

Emil	Tobias	Linus
16	14	10

Adding Table Border

- ✓ HTML tables can have borders of different styles and shapes.
- ✓ When you add a border to a table, you also add borders around each table cell.

▪ Example:

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

Output:

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

HTML Table Colspan & Rowspan

- ✓ HTML tables can have cells that spans over multiple rows and/or columns.
- ✓ To make a cell span over multiple columns, use the colspan attribute.
- ✓ The value of the colspan attribute represents the number of columns to span.
- ✓ To make a cell span over multiple rows, use the rowspan attribute.
- ✓ The value of the rowspan attribute represents the number of rows to span.

Example:

```
<table style="width:70%">
  <tr>
    <th colspan="2">Name</th>
    <th>Age</th>
  </tr>
  <tr>
    <td>Jill</td>
    <td>Smith</td>
    <td>43</td>
  </tr>
  <tr>
    <td>Eve</td>
    <td>Jackson</td>
    <td>57</td>
  </tr>
</table>
```

Output:

Name		Age
Jill	Smith	43
Eve	Jackson	57

HTML Table Rowspan

Example:

```
<table style="width:70%">
  <tr>
    <th>Name</th>
    <td>Jill</td>
  </tr>
  <tr>
    <th rowspan="2">Phone</th>
    <td>9923305463</td>
  </tr>
  <tr>
    <td>8764356787</td>
  </tr>
</table>
```

Output:

Name	Jill
Phone	9923305463
	8764356787

HTML Padding and Spacing

- ✓ HTML tables can adjust the padding inside the cells, and also the space between the cells.
- **HTML Table - Cell Padding**
- ✓ Cell padding is the space between the cell edges and the cell content.
- ✓ By default the padding is set to 0.
- ✓ To add padding on table cells, use the CSS padding property:

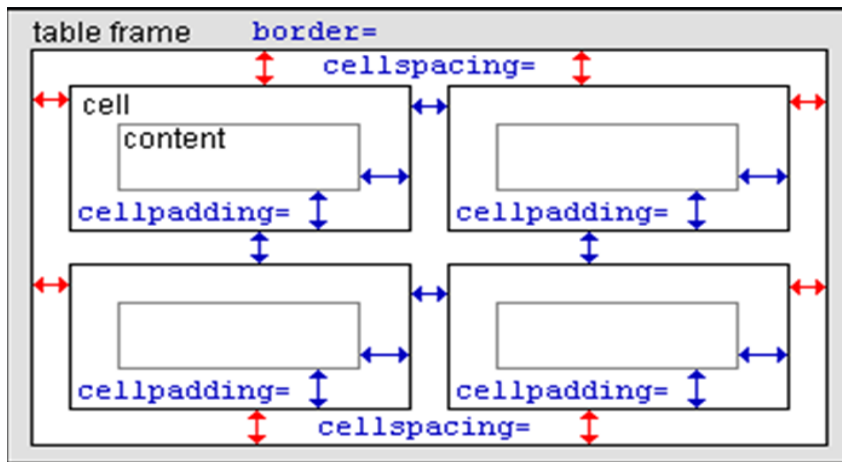
Example:

```
th, td {
padding: 15px;}
```

➤ HTML Table - Cell Padding

- ✓ Cell spacing is the space between each cell.
- ✓ By default the space is set to 2 pixels.
- ✓ To change the space between table cells, use the CSS border-spacing property on the table element.
- ✓ **Example:**
- ✓ `table { border-spacing: 30px; }`

HTML Table Padding & Spacing



HTML Table Colgroup

- The `<colgroup>` element is used to style specific columns of a table.
- The `<colgroup>` element should be used as a container for the column specifications.
- Each group are specified with a `<col>` element.
- The `span` attribute specifies how many columns that gets the style.
- The `style` attribute specifies the style to give the columns.

HTML Table Colgroup

```
<table style="width: 50%;">
<colgroup>
  <col span="2" style="background-color: #D6EEEE">
</colgroup>
<tr>
<th>MON</th>
<th>TUE</th>
<th>WED</th>
<th>THU</th>
<th>FRI</th>
<th>SAT</th>
<th>SUN</th>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
```

Output:

MON	TUE	WED	THU	FRI	SAT	SUN
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28