

Session: 9

Creating Tables



- Describe how to create and format tables
- Explain the table size and the width of a column
- Explain the process of merging table cells
- Explain the page layout for tables

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- A table is made up of rows and columns. The intersection of each row and column is called as a cell.
- A row is made up of a set of cells that are placed horizontally.
- A column is made up of set of cells that are placed vertically.
- Data can be represented in a tabular format by **TABLE** element.
- TR element divides the table into rows and the TD element specifies columns for each row.
- By default, a table does not have a border.
- The **border** attribute of the **TABLE** element specifies a border for making the table visible in a Web page.



Creating & Formatting Tables 2-2

```
<!DOCTYPE HTML>
<html>
 <head>
  <title>Languages</title>
 </head>
 <body>
  <h2>Main Languages</h2>
  English
       German
     French
       Italian
     </body>
</html>
```

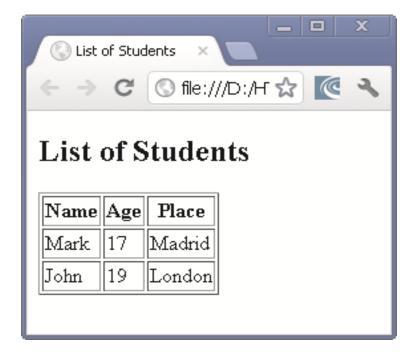




Table Headings

- Heading for each column can be specified the by TH element
- The text included within the TH element appears in bold.

```
Name
 Age
 Place
Mark
 17
 Madrid
John
 19
 London
```



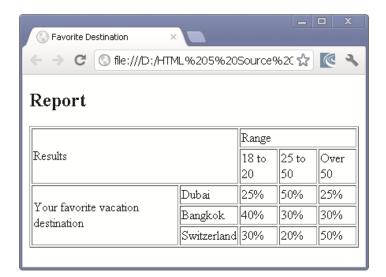
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- To change the cells of a table to different height and width,
 colspan and rowspan attributes can be used:
 - colspan: specify the number of columns to span.
 - rowspan: specify the number of rows to span.

Spanning refers to a process of extending a cell across multiple

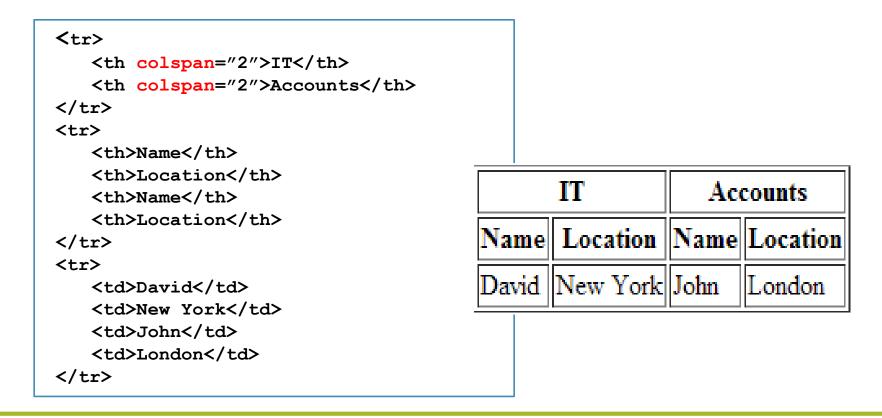
rows or columns





Colspan Attribute

- To span two or more columns, use the colspan attribute of the TD and TH elements.
- The colspan attribute allows to span a cell along a horizontal row.
- The value of the colspan attribute specifies the number of cells across

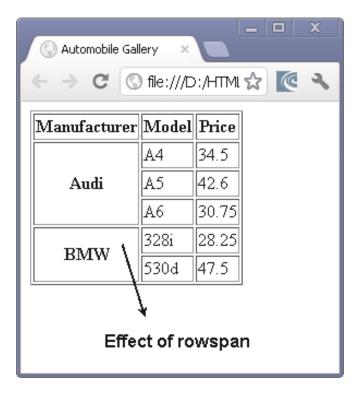




Rowspan Attribute

- The rowspan attribute spans a data cell across two or more rows.
- It allows to span a data cell along a vertical column.

```
Manufacturer
 Model
 Price
</t.r>
\langle t.r \rangle
 Audi
 A4 34.5
 A5 42.6 
A6 30.75
<t.r>
 BMW
 328i 28.25
530d 47.5
```



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Horizontal Alignment

1-2

- Determines the representation of text along the left, right, or center positions.
- HTML5 has deprecated the align attribute.
- The four possible values for setting the horizontal alignment:
 - left:

Aligns the data within a cell on the left side, is the default value for table content.

center:

Aligns the data within the cell on the center, is the default value for table headings.

• right:

Aligns the data within the cell on the right side.

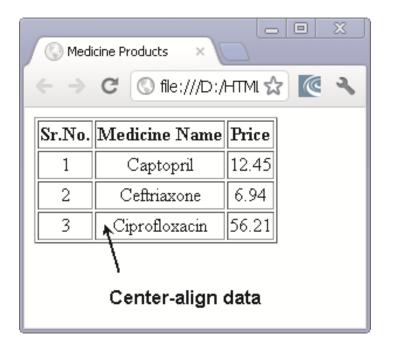
justify:

Aligns the data within the cell by adjusting the text at the edges.

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To set the alignment with style you can use the text-align attribute :

```
Sr.No.
 >Medicine Name
 Price
1 Captopril
12.45
2
Ceftriaxone
 6.94 
3
Ciprofloxacin
56.21
```



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- Vertically align the position of data by using the valign attribute.
- HTML5 has deprecated the valign attribute.
- The possible values of vertical alignment are as follows:
 - top: Vertically aligns the data within the cell at the top.
 - middle: Vertically aligns the data within the cell at the center.
 - bottom: Vertically aligns the data within the cell at the bottom.

Example

```
Aptech Web site
```

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- Data in a table might appear cluttered, which may affect the readability and then it is difficult to comprehend data.
- To overcome this issue, use the cell padding attributes.

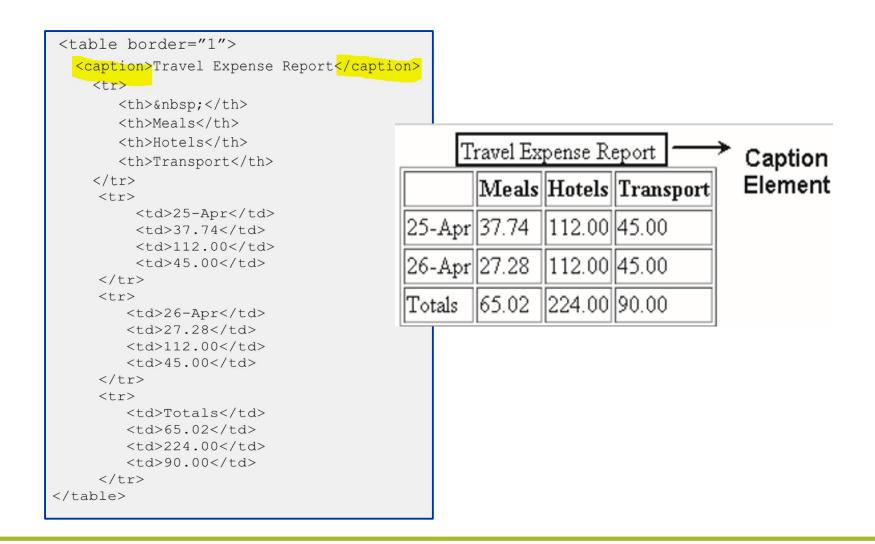
Padding

- Padding is the amount of space between the content of element and its outer edge.
- For tables, padding is referred as a space between the text and the cell border.
- Cell padding allows the user to control the look of the content on a page.
- Example:

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Caption Element



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Table Size & Width of a Column

- Table size can be expanded when adding more rows & columns.
- To set default width for the table, use STYLE section in HEAD
- To set the width of a column in pixels, use style attribute in the <TD> tag.





Apply Borders by Using Styles 1-2

- CSS can be used for applying borders as it is the best reliable and flexible method.
- Use style-based border for and tags as followed:

border-width:

Set the thickness of border, the values are specified in pixels.

border-color:

Set color of the border by specifying either name, or RGB value, or hexadecimal number.

• border-style:

Set the line style: solid, dashed, groove, dotted, outset, ridge, inset, or none.



Apply Borders by Using Styles 2-2

- To set all these attributes at one time, can use the **border** attribute and place the settings in the order of width, color, and style respectively.
- To format the sides of the border individually, replace the border attribute with border-bottom, border-top, border-right, or border-left attribute.
- can apply these attributes to the entire table or individual cells and also create rules in the **STYLE** area.





- Tables allow to view data in a structured and classified format.
- Padding is the amount of space between content and its outer edge.
- Caption element defines a caption for a table. It is a sub-element of the element.
- Spanning refers to a process of extending a cell across multiple rows or columns.
- The rowspan attribute spans a data cell across two or more rows.
- The colspan attribute allows to specify the number of columns a cell should span.
- The border attribute of the table element allows to specify a border for making the table visible in a Web page.

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