Web Basics - HTML5

Lesson 3. Tables

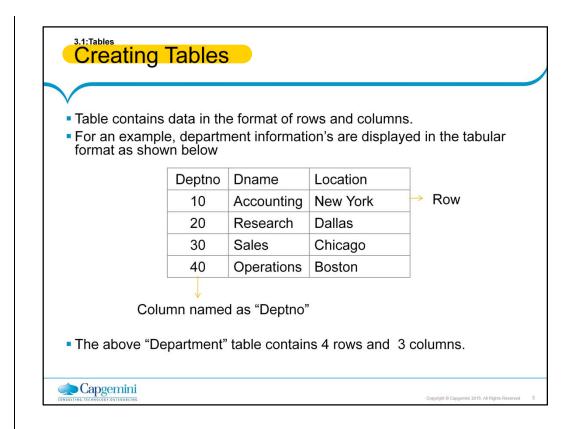
### **Lesson Objectives**

- After completing this module, you will be able to:
  - Understand the structure of an HTML table.
- Controlling table format



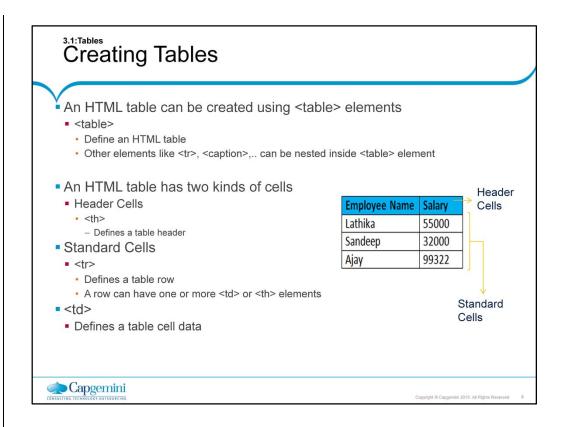


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#### **Tables**

Tables are defined with the tag. A table is divided into rows (using ), and each row is divided into data cells (using ). Letters td stand for "table data," which is the content of a data cell. A data cell can contain text, images, lists, paragraphs, forms, horizontal rules, tables, etc.



An HTML table has two kinds of cells:

- Header Cells: Contain header information (created with the element).
- Standard Cells: Contain data (created with the td element).
- The text in a th element is bold and centered.
- The text in a td element is regular and left-aligned.

stands for Table row

stands for table data

> stands for table header

# 

## Creating Tables

- Some more elements which can be used while creating tables are:
- <thead:</p>
  - · Group header content in an HTML table
- - · Group the body content in an HTML table
- <tfoot>
- Group footer content in an HTML table
- <caption>
  - · Defines a caption for the table
  - <caption> element should follow with element immediately.
  - <caption> element value will be center aligned and displayed above the table



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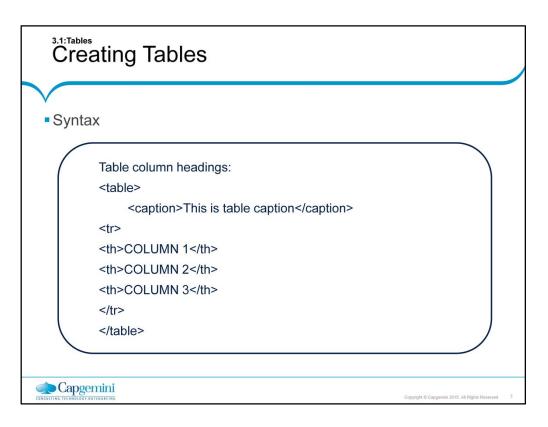
The table also has a few more tags to layout your data.

The <thead> tag is used to group the header content in an HTML table. The <thead> element should be used in conjunction with the and <tfoot> elements.

The element is used to group the body content in an HTML table and the <tfoot> element is used to group the footer content in an HTML table.

<fr>oot> must appear before within a table, so that a browser can render the foot before receiving all the rows of data.

Note that the <thead>, and <tfoot> elements are seldom used, because of bad browser support. Expect this to change in future versions.



### Table Caption:

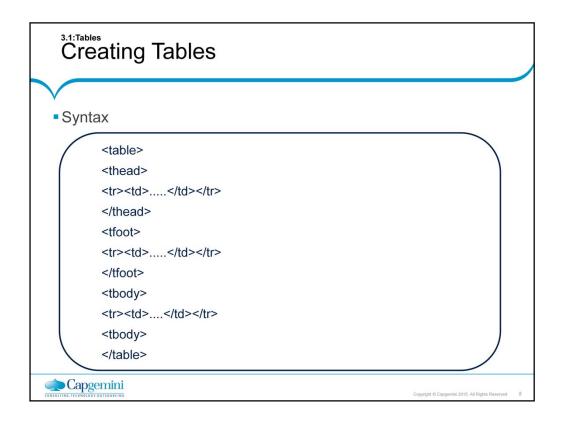
The <caption> tag defines a table caption.

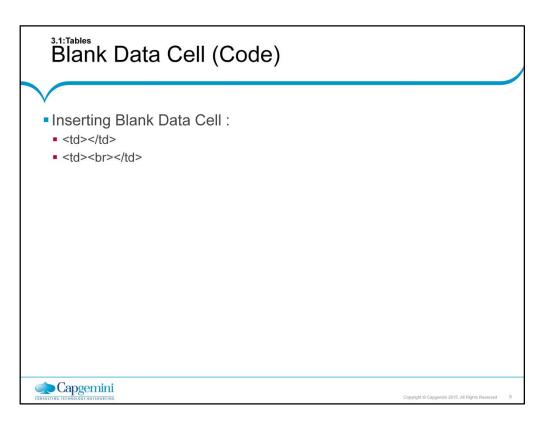
The <caption> tag must be inserted immediately after the tag.

You can specify only one caption per table. Usually the caption will be centered above the table.

### Table Headers:

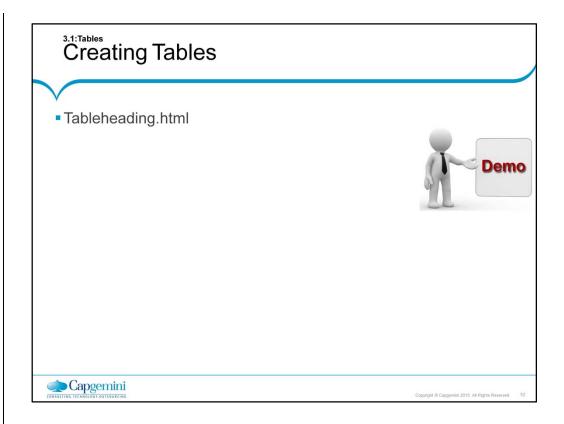
The tag defines a header cell in an HTML table.

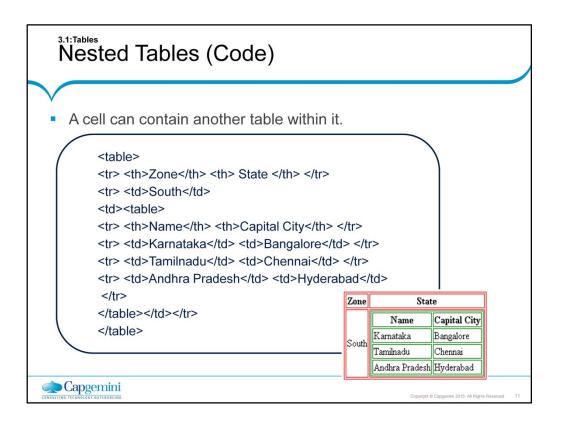




### Blank Data Cell:

You can avoid missing a border around empty cells. Add a non-breaking space ( ) to empty data cells, to make the borders visible.





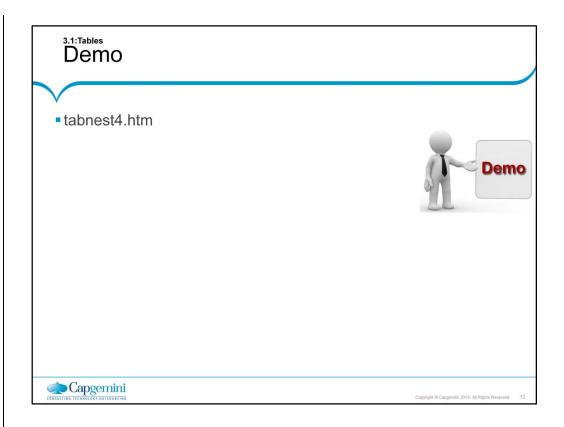
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- Cell Spanning
  - Table cells can span across more than one column or row.
- Types of cell spanning
  - Row spanning
  - · Column spanning
- Example of Colspan

Employee Name	Salary	
HR		
Lathika	55000	
Sandeep	32000	
SALES		
Sonia	43000	
Raju	30022	
Ajay	99932	

### Example of Rowspan

Department Name	Employee Name	Salary
HR	Lathika	55000
	Sandeep	32000
Sales	Sonia	43000
	Raju	30022
	Ajay	99932



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### Cell Spanning:

There are two types of cell spanning. Row and column spanning.

# Cell Spanning (Code)

- Row spanning/Column spanning:
- Use rowspan and colspan attribute either in or element.

 m & n are integers specifying number of rows and columns respectively.



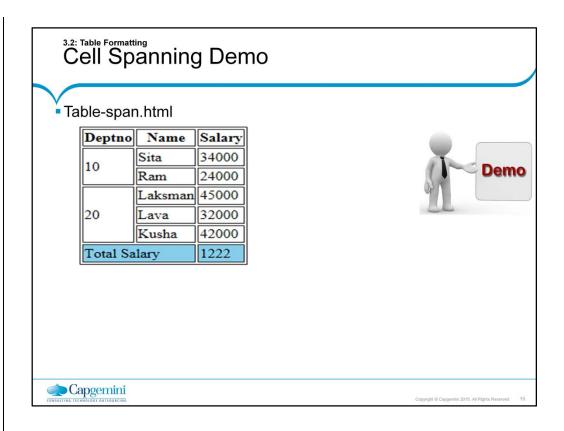
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#### colspan="number of columns" ~

By default, the number of columns in a table is defined by the number of table data cells appearing in the table row that contains the most data. You would, typically place the same number of data cells in each table row. If a table row does not contain the requisite number of table cells, then it will essentially be in 'error' and will be displayed with a missing cell.

#### rowspan="number of rows" ~

Rowspan attribute works just like the colspan attribute except that you may find the situation a little more difficult to visualize when working with the source code. But once again the principle is the same. By using the rowspan attribute, you can force a table cell to span the number of rows specified by the respective value.



# Grouping of Columns

- <colgroup> tag specifies a group of one or more columns in a table for formatting
- The <col> tag specifies column properties for each column within a <colgroup> element.
- Use <colgroup> and <col> tags to group columns with common properties like
  - Span attribute :
    - · Identifies number of columns in the current group.
    - Default value is 1
    - Provide span attribute and omit <col> tag
- Example for grouping 3 columns and applying background color as green

```
<colgroup span="3" style="background-color:green"> </colgroup>
<col>
<col>
```



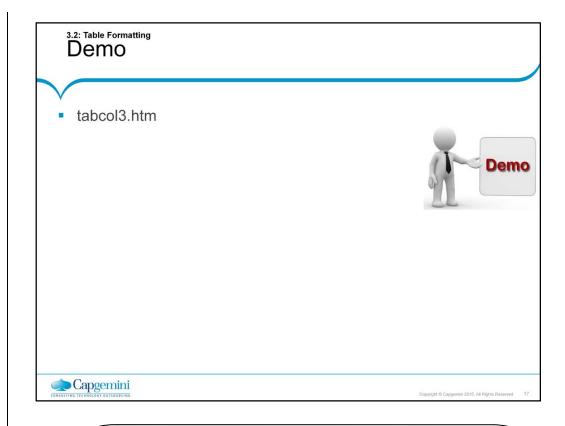
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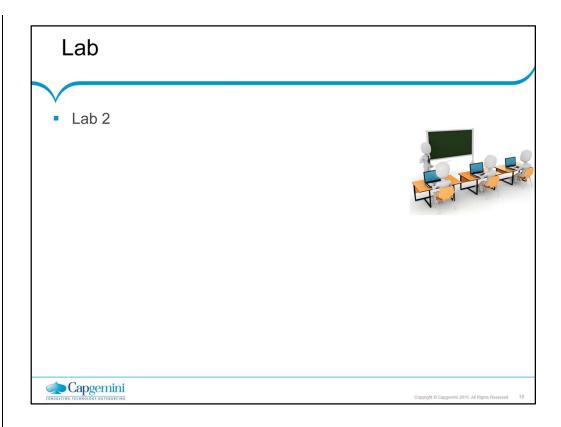


<html><head><title>Table with Colgroup</title></head>
<body>

Ecommerce Stream
Mainframe Stream
<
colgroup span="3" width="20%" bgcolor="orange">
<colgroup span="4" width="10%" bgcolor="lightgreen">
Internet/HTMLJavscriptJava
Java
CICSCOBOLJCLIMS

ADS/OVSAMIDMSMVS

</html>



### **Lesson Summary**

- After completing this module you know:

  Structure of an HTML table

  Control table format such as cell spanning

  Use tables to format contents of an HTML Page.





### **Review - Questions**

- Question 1: Cell spanning is used to joining cells together to make a larger cell.
  - True/False
- Question 2: The <col> tag defines the attribute values for one or more columns in a table.
  - True/ False
- Question 3: In which tag usage of rowspan/colspan attribute is valid?
  - <

  - <
  - None of the above



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