



Tables And Lists

Lecture Overview

- Learn about the basics of tables
- Create simple 2-dimensional tables
- Format tables
- Create tables with complex structures

Introduction to Tables (1)

- Tables are grids made up of rows and columns
- The intersection of a row and column is called a **cell**
- Tables can contain
 - Text
 - Additional markup
 - Other tables
 - Images
 - And just about anything else

Introduction to Tables (2)

- Much has changed about tables from HTML 4 to HTML 5
 - Use tables to render truly tabular data
 - Use CSS for presentation. In this regard, CSS has replaced some table functionality
- I'll use the new constructs in this lecture to support good habits
- I spend quite a bit of time on this topic because tables are used so frequently

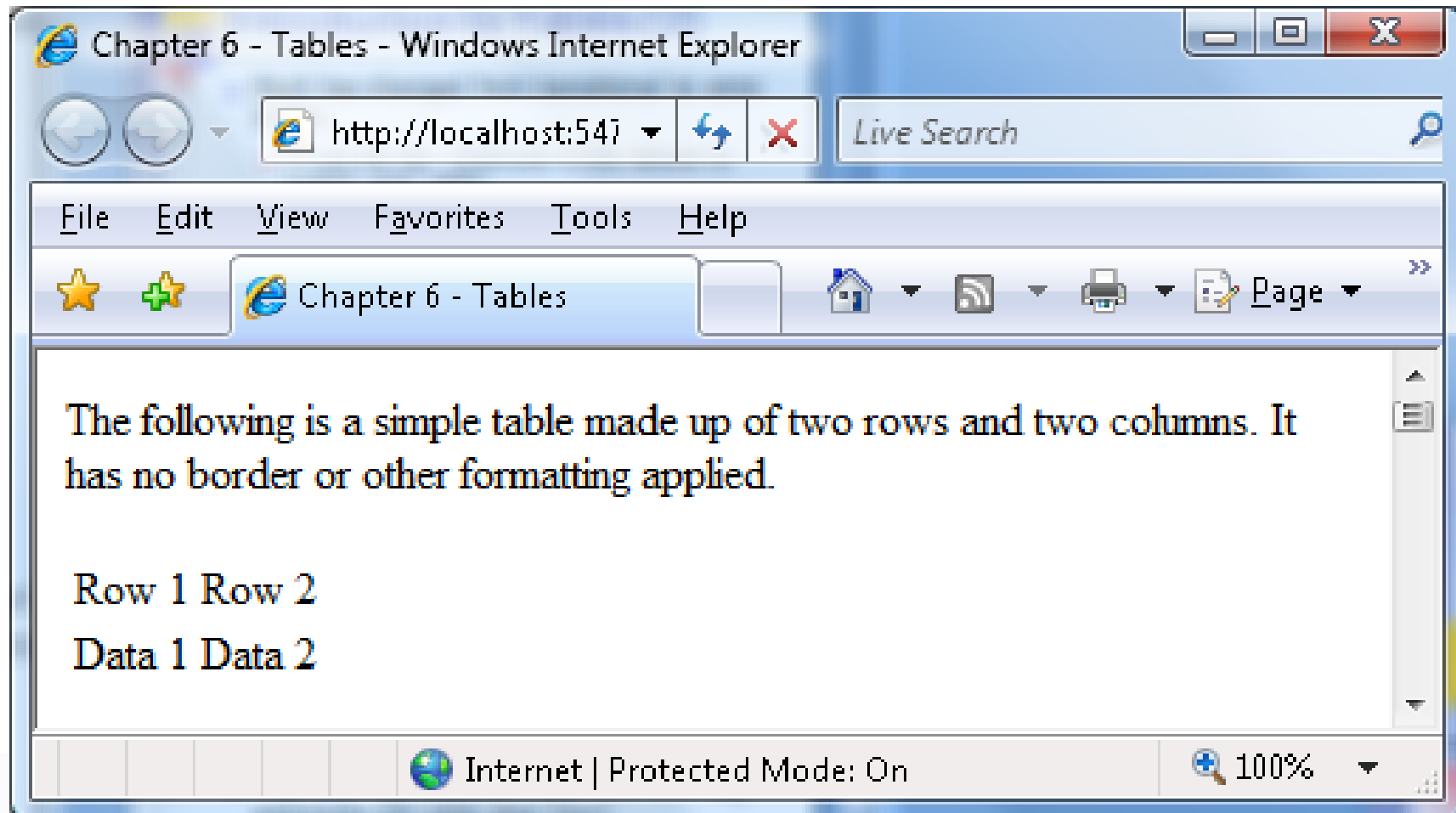
Basic Table Tags

- The `<table>` tag is the outermost tag and marks the table
 - The deprecated `border` attribute defines the width of the border surrounding the table
- The `<tr>` tag appears inside the `<table>` tag and marks a table row
- The `<td>` tag appears inside the `<tr>` tag and marks the table data (cell)

Basic Table Tags (Example)

```
<table>  
  <tr>  
    <td>Row 1</td>  
    <td>Row 2</td>  
  </tr>  
  <tr>  
    <td>Data 1</td>  
    <td>Data 2</td>  
  </tr>  
</table>
```

Basic Table Tags (Example)



Tables (More Tags)

- The `<caption>` element appears as a child of a `<table>` and contains the table's title
 - It appears just above the table
- The `<th>` element is similar to the `<tr>` element but contains the table's header
 - The header is typically emphasized

Tables (Grouping)

- The `<thead>`, `<tfoot>`, and `<tbody>` tags are used to group table parts
 - Header, footer, body
 - Note that `<tfoot>` MUST appear before `<tbody>`
- It's used for dynamic table scrolling, which most browsers do not yet support
- These are also logical rather than physical elements

<table> (Attributes)

- The **border** attribute defines the thickness of the table's border
 - Value is measured in pixels
- The **cellpadding** attribute defines the number of pixels from the cell wall to the cell content
- The **cellspacing** attribute defines the number of pixels between cells
- We can also do this with CSS

<table> (Attributes)

Chapter 6 - Tables - Windows Internet Explorer

http://localhost:547

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Chapter 6 - Tables

Set the cellspacing to 5 pixels.

Monthly savings

Month	Savings
January	\$100

Set the cellpadding to 5 pixels.

Monthly savings

Month	Savings
January	\$100

Set both to 5 pixels.

Monthly savings

Month	Savings
January	\$100

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Column and Cell Attributes

- **align** – justify the text within the columns
 - left, right center
- **width** – the width of the column
 - Use relative or absolute widths
 - **width**="25%" - 25% of the table
 - **width**="100px" - 100 pixels
- **valign** – vertical alignment
 - Values: top, middle, bottom, baseline
 - Supported by tables too
- *See example*

<table> Columns

- The `<col>` tag appears as a child of the `<table>` or `<colgroup>` tag and describes formatting for the entire column
 - It's often easier than formatting individual rows or cells
- The `<colgroup>` tag is used to apply formatting to several columns

<table> Columns (Example)

- Center the data in the first column and right justify the second column

```
<table border="1">  
  <col align="center" />  
  <col align="right" />  
  . . .
```

Cell Spanning

- Some tables have cells that should span multiple rows and columns
 - `rowSpan` attribute is used to create a cell that spans multiple rows
 - `colspan` attribute is used to create a cell that spans multiple columns

Cell Spanning (Example)

- Set Chapter6Table1Example.htm

Cell Spanning (Illustration)

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http://localhost:49274/IS360/IS360Chapter6TableExample1.htm

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Chapter 6 - Tables

In the following examples, we work with tables whose cells span multiple rows and columns.

Quarter	First			Second			Third			Fourth		
	January	February	March	April	May	June	July	August	September	October	November	December
	1.25	1.26	1.27	1.29	2.22	3.33	4.44	5.55	7.33	8.22	2.22	3.55
	1.25	1.26	1.27	1.29	2.22	3.33	4.44	5.55	7.33	8.22	2.22	3.55
	17.22			18.33			22.55			44.22		

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Tables within Tables

- That said, tables can contain tables, which can contain tables.
- The process can get very complicated

Table Formatting and CSS

- We have not discussed CSS yet but I want to mention it here
- Everything is a box in the eyes of CSS
 - A table is a box
 - A table row is a box
 - A table cell is a box
 - A nested table is just another box

Table Formatting and CSS

- Borderstyle is used to set the border of a cell, row or the table
- All margin and padding works as you would expect

Table Formatting (Conflicts)

- Cell formatting overrides row formatting
- Row formatting overrides table formatting
- See the chapter's example