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# Web Design Fundamentals

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# Today's Topics

- Tables
- Web Designer Tools

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# Tables



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# Tables

- Once Upon a Time, tables were used for layout...
  - now considered bad practice
  - <http://www.excite.com/>
  - stick with divisions and CSS for layout
- Use tables for tabular data only:
  - class rosters
  - hours of operation
  - sports scores
  - <http://css.maxdesign.com.au/listamatic/browser-support.htm>





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# <table>

- Creates a table
- All other table elements and content are nested within
- Block-level element
- `<table></table>`





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# <tr>

- Creates a table row
- Must be nested within a <table> element
- Each table row corresponds to a <tr> element
- All “cells” and content for that one row are nested within





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**<tr>**

*<table>*

*<tr>*

*</tr>*

*<tr>*

*</tr>*

*</table>*

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# <td>

- Creates table data or “cell”
- Must be nested within a <tr> element
- Each table column corresponds to a <td> element





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# <td>

```
<table>
```

```
    <tr>
```

```
        <td>Hydrogen</td> <td>1.0079</td>
```

```
    </tr>
```

```
    <tr>
```

```
    </tr>
```

```
</table>
```





# Table Attributes

- Optional table attributes:
  - *border* - adds a border to a table and each cell
  - *width* - how wide a table should be
  - *cellspacing* - adds space between cells
  - *cellpadding* - adds padding *inside* cells
- Optional cell attributes:
  - *align* - aligns the content in a cell horizontally
  - *valign* - aligns the content in a cell vertically
  - *colspan* - how many columns a cell should span
  - *- how many rows a cell should span*





# Table Attributes

- Optional table attributes are valid BUT
- They are *presentational* and CSS should be used instead (except *colspan* and *rowspan*):
  - *border* - *border* property
  - *width* - *width* property
  - *cellspacing* - *border-spacing* property (not supported by IE7 and below)
  - *cellpadding* - *padding* property
  - *align* - *text-align* property
  - *valign* - *vertical-align* property





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# <th>

- Creates a table header cell
- Heading for a column or row
- Content displayed in bold text and centered by default





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# <th>

```
<table>
```

```
    <tr>
```

```
        <th>Element Name</th> <th>Atomic Weight</th>
```

```
    </tr>
```

```
    <tr>
```

```
        <td>Hydrogen</td> <td>1.0079</td>
```

```
    </tr>
```

```
</table>
```





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# <caption>

- Creates a table caption
- Must be inserted after opening <table> tag
- Provides a title for the table
- Displayed centered above table by default





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# <caption>

<table>

<caption>Table I.I - Periodic Table of Elements</caption>

<tr>

<th>Element Name</th> <th>Atomic Weight</th>

</tr>

<tr>

<td>Hydrogen</td> <td>1.0079</td>

</tr>

</table>





# Empty Cells and Nested Tables

- Cells with no data still need `<td>` elements
  - for table to have correct number of columns
- IE7 and below will hide empty cells border unless:
  - `<td>&nbsp;</td>`
- Tables can be nested *within* other tables
  - put table inside a `<td>` element





# <thead>, <tfoot>, <tbody>

- Must use all three tags together, in this order
- Optional - these tags aren't required for normal/small tables, but are useful if a long table is necessary
  - used to group a series of rows and separate different sections
- Depending on the browser:
  - allows table body to scroll independently of the table headers and footers with CSS
  - when printing, the <thead> and <tfoot> will print at the top or bottom of each page respectively





# <thead>

- Groups header content in a table
- Must be inserted after opening <table> tag, before <tfoot>
- Can only be used once per table
- Used to group table header rows

```
<thead>
  <tr>
    <th>Element Name</th><th>Atomic Weight</th>
  </tr>
</thead>
```





# <tfoot>

- Groups footer content in a table
- Must be inserted after <thead> tag, before <tbody>
- Can only be used once per table
- Used to define a group of footer rows in a table, sometimes used for notes about the table data

<*tfoot*>

<*tr*>

<*td colspan = “2”*>Names as defined by the International Union of Pure and Applied Chemistry</*td*>

</*tr*>

</*tfoot*>





# <tbody>

- Groups body content in a table
- Must be inserted after <thead> and <tfoot> elements
- Can be used more than once per table
- Used to define a group of data rows in a table

<tbody>

<tr>

<td>Hydrogen</td><td>1.0079</td>

</tr>

</tbody>





# <colgroup>

- Used to group columns and allows for styling table columns with CSS
- Must be inserted after opening `<table>` tag
- Should be before other table elements
- Often used with `<col />` element

`<colgroup></colgroup>`





# <col />

- Must be nested within a <colgroup> element
- Used for different columns to have different attributes
- Optional attribute: *span*
  - *span*: specifies the number of columns the <col /> element applies to.

<colgroup>

<col class="dark" />

<col class="light" />

<col class="dark" span="2" />

</colgroup>





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# Web Designer Tools



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# Web Designer Tools

- Tools for debugging and inspecting web pages
  - Firefox Add-ons
  - Safari Web Inspector





# Firefox Add-ons

- Web Developer – <https://addons.mozilla.org/en-US/firefox/addon/web-developer/>
  - adds a menu and toolbar to the browser with various web design and development tools
- Firebug – <http://getfirebug.com>
  - edit, debug, and monitor HTML and CSS live on a web page
- Colorzilla – <http://colorzilla.com/firefox>
  - get a hexadecimal color reading from a web page
- Pearl Crescent – <http://pearlcrescent.com>
  - capture an image of a web page





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# Safari Web Inspector

- Built into WebKit rendering engine
  - enable Develop menu in Preferences
- Inspect elements and explore CSS rules applied to them
  - right-click / Inspect Element
  - similar to Firebug





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# Intro to HTML5



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# HTML5 Structural Tags

- `<!DOCTYPE html>` - HTML5 DOCTYPE
- `<header>` - container for introductory information
- `<nav>` - container for navigation elements
- `<section>` - container for a generic section (like `<div>` element)
- `<article>` - container for stand alone content (blog entry)
- `<aside>` - container for sidebar content (pull quotes, tag clouds)
- `<footer>` - container for footer elements
  - `<header>` and `<footer>` can be used more than once per page (header for a section or for whole page)





# HTML5 APIs

- Application Programming Interface - allows access to content
  - makes it easier to build web applications, often used along with JavaScript
- HTML 5 APIs
  - 2D drawing API along with new <canvas> element
  - Video and Audio API along with new <video> and <audio> elements
  - Offline API enables viewing content while offline
  - Geolocation API determines location data of user agent
  - Drag & Drop API along with new *draggable* attribute
  - Editing API along with new *contenteditable* attribute





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# Should I Use HTML5 Now?

- NOT a recommendation yet
  - still a working draft
- Limited browser support





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# Today's Lab

- Practical I
- Tables
  - Reading / Viewing Assignment
  - Daily Questions
  - Tables
  - My Web Standards

