

CS 146: Intro to Web Programming and Project Development

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Introduction to HTML5 (II)

HTML Comments



- You can add comments to your HTML source by using the following syntax:
 - <!-- Write your comments here -->
- Comments are not displayed by the browser, but they can help document your HTML source code
- With comments you can place notifications, or reminders in your HTML
- Comments are also great for debugging HTML
 - You can comment out HTML lines of code to search for errors

HTML Links



- HTML links are hyperlinks
- You can click on a link and jump to another document
- When you move the mouse over a link, the mouse arrow will turn into a little hand
 - A link does not have to be a text; it can be an image or any other HTML element

HTML Links Syntax



- In HTML, links are defined with the <a> tag:
 - link text
- Example:
 - Visit our Department *
- The href attribute specifies the destination address (http://www.w3schools.com/html/) of the link
- The link text is the visible part
- Clicking on the link text will send you to the specified address

HTML Local Links



- The example above used an absolute URL (A full web address)
- A local link (link to the same web site) is specified with a relative URL (without http://www....)
- Ex:
 - Download my resume!

HTML Links Target Attribute



- The target attribute specifies where to open the linked document
- The target attribute can have one of the following values:
 - _blank Opens the linked document in a new window or tab
 - _self Opens the linked document in the same window/tab as it was clicked (this is default)
 - _parent Opens the linked document in the parent frame
 - _top Opens the linked document in the full body of the window
 - framename Opens the linked document in a named frame
- Ex:
 - Visit our Department *

HTML Images



- In HTML, images are defined with the tag
- The tag is empty, it contains attributes only, and does not have a closing tag
- The src attribute specifies the URL (web address) of the image
 -
 - The alt attribute provides an alternate text for an image, if the user for some reason cannot view it (because of slow connection, an error in the src attribute, or if the user uses a screen reader)
 - If a browser cannot find an image, it will display the value of the alt attribute

HTML Images



- Ex:
 - <img src="ImgName.gif" alt="profile picture" style= "width:128px;
 height:128px;">
- You can use the style attribute to specify the width and height of an image; the values are specified in pixels (use px after the value)
- Alternatively, you can use the width and height attributes; here,
 the values are specified in pixels by default:
 -

Width and Height or Style?



- Always specify the width and height of an image; if width and height are not specified, the page will flicker while the image loads!
- Both the width, height, and style attributes are valid in HTML5
- However, the style attribute prevents internal or external styles sheets (CSS) from changing the original size of images

HTML Attributes



- All HTML elements can have attributes
- Attributes provide additional information about an element
- Attributes are always specified in the start tag
- Attributes usually come in name/value pairs like: name="value"
- Examples we've seen already:
 - href, width, height, alt, src

The lang Attribute



- The language of the document can be declared in the <html> tag
- The language is declared with the lang attribute
- Declaring a language is important for accessibility applications (screen readers) and search engines:

```
<!DOCTYPE html>
<html lang="en-US">
<body>

...

</body>
</html>
```

The title Attribute



- Here, a title attribute is added to the element
- The value of the title attribute will be displayed as a tooltip when you mouse over the paragraph:
- This is a paragraph.

HTML Attributes Suggestion!



- The HTML5 standard does not require lowercase attribute names
- The title attribute can be written with uppercase or lowercase like Title and/or TITLE
- It is recommend to use lowercase in HTML and demanded to use lowercase for stricter document types like XHTML

HTML Tables



- An HTML table is defined with the tag
- Each table row is defined with the
 tag
- A table header is defined with the tag
- By default, table headings are bold and centered
- A table data/cell is defined with the tag
 - To make a cell span more than one column, use the colspan attribute
 - To make a cell span more than one row, use the rowspan attribute
- To add a caption to a table, use the <caption> tag

Create an HTML Table!



Monthly savings

Month	Savings
January	\$100
February	\$50

HTML Lists



- Ordered Lists: ...
- Unordered Lists: ...
 - Every item in the list should be wrapped in ...
- Description Lists:
 - The <dl> tag defines the description list
 - the <dt> tag defines the term (name), an
 - the <dd> tag describes each term

Create Lists!



An ordered HTML list

- 1. Coffee
- 2. Tea
- 3. Milk

A Description List

Coffee

- black hot drink

Milk

- white cold drink