# Basic Web Page Construction

Sections 4.1, 4.2, and 4.3 Pages: 165-179

2/20/07

CS120 The Information Era

# Learning Objectives

- Introduce HTML for basic Web page construction
- Use a text editor for Web page design
- Discuss the concept and use of tags in Web pages
- Introduce the four basic Web page tags
- Introduce more specific HTML tags for more complex Web page construction
- Introduce the concept of attributes

2/20/07

CS120 The Information Era

# Taking Charge (4.1)

- Anyone with access to the Internet can post a Web page
- You can create a Web page with just a text editor
- There are Web page construction tools available that allow you to create pages without understanding the underlying machinery
  - Why bother learning the underlying machinery then?!

2/20/07

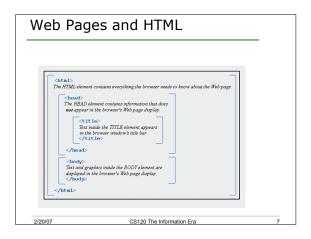
CS120 The Information Era

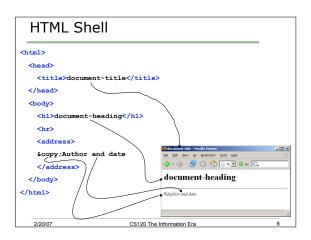
# Web Pages and HTML (4.2) Web browsers are designed to display any ASCII text file with the file name extension .htm or .html You can view your Web pages locally on your computer as you develop them Hypertext Markup Language or HTML is a markup language that gives Web page authors control over what a Web browser can and can't do when it displays a Web page A markup language is not a programming language 2/20/07 CS120 The Information Era Elements · Web page authors communicate formatting commands to web browsers by inserting HTML elements inside a web page HTML elements o Add content (such as an image) Specify style for text CS120 The Information Era Web Pages and HTML · All Web pages should contain four basic elements: o HTML o HEAD o TITLE o BODY

You can add HTML elements to a Web page

CS120 The Information Era

with any text editor. Examples:
- Notepad (Windows)
- TextWrangler (Macintosh)





# Notes on HTML Tags are not case sensitive HTML> is equivalent to <html> Tags are closed by including the / with the tag name | /html> Most tags come in pairs, though a few, such as <hr> and <br/>Tag pairs can be nested | <title> pairs within the <head> pairs

# Your Turn

- · Create a web page using the following
  - 1) Using TextWrangler, create the previous HTML shell file and save the file as shell.html on your desktop
  - 2) Open up Safari and view shell.html
  - 3) Save a copy of shell.html in your documents folder on euler

CS120 The Information Era

# HTML Commands (4.3.3)

#### Formatting

- Bold <strong> </strong> (<b></b> is old way)
- Italic <em> </em> (<i></i> is old way)
- Underline <u> </u>Center <center> </center>

## Dividers

- paragraph break (double carriage return)
- <br> forced line break (single carriage return)
- <hr> horizontal rule

### Comment

. <!-->

CS120 The Information Era

# HTML Example

<strong>Pacific University</strong><br> <em>2043 College

Way</em><br>

<u>Forest Grove, OR</u><br>

<center>97116</center>

 $\langle hr \rangle$ 

CS120 The Information Era

## HTML Headings (4.3.1)

## Headings can be 1 of 6 sizes:

- Very Large <h1> </h1>
- Very Small <h6> </h6>

#### Some things to note:

- When a Web browser reads an HTML file, the browser treats the text as a continuous stream of characters. When a tag is encountered, a change can occur
- · Returns and multiple blanks are ignored
- Headings are different from the <head> tag. How?

2/20/07

CS120 The Information Era

12

# HTML Attributes (4.3.1)

- An HTML attribute is a property of an HTML element, consisting of an attribute name and an attribute value
- The heading tag allows for an align attribute
- <h1 align="center">My First Web Page </h1>

2/20/07

CS120 The Information Era

14

# Different Fonts (4.3.3)

- Fonts are problematic in HTML because different computers have different fonts
- You can use the <font> tag, along with the face attribute to list different fonts
- The browser will work through the list from left to right and select the first font that it finds

2/20/07

CS120 The Information Era

15

## Safe Font Choices

- <font face="Arial, Geneva, Helvetica">The text </font>
  - o Sans serif font
- <font face="Times New Roman, Times">The text </font>
  - Serif font
- <font face="Courier New, Courier">The text</font>
  - Monospaced font

2/20/07

CS120 The Information Era

# Another HTML Tag (4.3.3)

- is a tag such that things you
  type between and show up
  exactly as you type them.
- Warning: This does not really apply to tabs, so I wouldn't use tabs within this command

2/20/07

CS120 The Information Era

# Your Turn

- Create a Web page showing a simple multiplication table that might be beneficial for a young child to look at using values from 1 to 5
- Use as many HTML features as you can when creating this table including
  - o A title in the head
  - o A heading with a different alignment
  - o A different font
- See next slide!

2/20/07

CS120 The Information Era

18

Multip	licat	ion	Tab	le			
	ı	<b>1</b> ult	tipli	icati	ion 1	[able	•
		1	2	3	4	5	
	1	1		3		5	
	2	2	4	6	8	10	
	3	3	6	9	12	15	
	4	4	8	12	16	20	
	5	5	10	15	20	25	
2/20/07			CS120 Th	e Informatio	n Era		19