Lesson 1: Building Your First Web Page

What are HTML & CSS?

- · HTML= HyperText Markup Language; gives content structure & meaning by defining content as: headings paragraphs images
 - represents content
- · CSS = Cascading Style Sheets; presentation language, styles appearance of content using: fonts colors
 - Trepresents appearance of that content

Understanding Common HTML Terms

- · 3 Common HTML terms: elements tags
- elements = designators that define the structure & content of objects with a page identified via <> surrounding the element name
 - --> (eg. headings): <h17 through <h6>

attributes

- --> (eg.paragraphs):
- tags = the <> surrounding an element
 occur in pairs of opening & closing tags
 - -> (eg. <div>): opening tag
 - \longrightarrow (eg. $\langle /div \rangle$): Closing tag
- attributes = properties used to provide additional info about an element defined w/in the opening tag after an element's name
 - general format: attribute name = "attribute value" -> href = "..."
 - (eg.id): identifies an element
 - -> (eg. class): classifies an element
 - -> (eg. src): specifies a source for embeddable content
 - (eq. href): provides a hyperlink reference to a linked resource

Setting Up the HIML Document structure HTML documents = plain text documents saved w/ an . html (>.txt) file extension required structure (declarations & elements): <! Doctype html> <html> <head> <body> <! DOCTYPE html> = latest version of HTML placed at the very beginning of HTML document document type declaration = informs web browsers which version of HTML is being used <html> = signifies the beginning of the document following the document type declaration metadata = accompanying info about the page inside the <html> element content inside isn't displayed on webpage - can include document title - displayed on title bar in the browser window links to any external files Other beneficiary metadata ' <body) = holds all the visible content of the web page nested = when an element is placed inside of another element indent nested elements COMMON Self-closing elements (aka only the opening tag):
 <input> <imq> <meta> <hr> < wbr> k> <embed> <source> Understanding Common CSS Terms 3 common CSS terms: selectors properties values selectors = designate exactly which element(s) w/in our HTML to target 1 apply styles to

may include a combo of diffqualifiers to select unique elements

generally target an attribute value or type of element

- styles: color

Size position

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^+ format: selected element \{ styles to be applied\} 
ightarrow \emptyset \{...\}
   properties = determine the styles that will be applied to that element
                after a selector, w/in the {}
     - properties: background
                    color
                    font · Size
                    height
                    width
    - format: selector{ -> p{
property name: ...; | Color: ...;
}
  values = determines behavior of a property
           the text between the: &;
    - format: selector {
                  property · value; Color : orange;
Working with Selectors
   most common selectors: type
                          class more selective
  type selectors = target elements by their element type

ightarrow (eg. div \{...\}): selects all division elements in the corresponding HTML code (<div>. . </div>)
  class selectors = selects an element based on the element's class attribute value
                      particular group of elements > all elements of one type
    T format: . class attribute value {...} → . awesome {...}
      -> (eg. .qwesome E...3): selects any element containing "awesome" class attribute (<div class = "awesome">... </div>
                                                                                         ...)
· ID selectors = target only one unique element at a time based on an element's id attribute value
                id attribute values limit lx/page → reserved for significant elements
    - format: #id attribute value {...} -> #shayhowe {...}
      (eg. #shayhowe {...}): only selects the element containing "shayhowe" id attribute value (<div id="shayhowe">...
                                                                                                                 </div>)
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Referencing CSS	
must reference CSS file win HTML: include all styles in a single ex	iternal style sheet
reference css file using rel L	. href attribute inside <link/> element w/in <head> element</head>
of HTML document	
- format : <nead> -></nead>	<head></head>
<pre></pre> <pre> <pre> <pre></pre></pre></pre>	<pre></pre> <pre><!--</td--></pre>
< head>	<head></head>
- CSS file should be saved in same folder location (aka root direc	
href attribute value format: "subdirectory name/css file na	ame"
Using CSS Resets	
· every web browser has its own default styles for different elements	r: headings
	paragraphs lists
· CSS resets = take every common HTML element w/ a predefined st	yle & provide one unified style for all browsers
ensure cross browser compatability	
must be included at the very top of style sheet	
generally removes or tones down: sizing	
margins	
padding	
additional styles	
(eg. Eric Meyer's reset): popular reset	
includes styles for new HTML5	elements
eg. Normalize.css): sets common style for elements > h	nard reset for elements