Lesson 2: Getting to Know HTML

Semantics Overview

- · **Semantics** (w/in HTML) = practice of giving content on the page meaning & structure by using the proper element describes the value of content on a page regardless of style or appearance of that content
- benefits of using semantic elements: enabling... computers ... to adequately read 2 understand content on a web page

 Screen readers

 segrch engines

makes HTML easier to manage & work w/

ldentifuina Divisions & Spans

- · HTML elements that act as containers solely for styling purposes (no semantic value)
- · apply targeted styles to a contained set of content
- · <div>= block level element commonly used to identify large groupings of content → helps build web page's layout & design
- · (span) = inline-level element commonly used to identify smaller groupings of text wlin a block-level element
- block-level elements = begin on a new line, stacking one on top of the other & occupy any available width

 Commonly used for larger pieces of content (eg. paragraphs)

 may be nested inside one another & wrap inline-level elements
- Inline-level elements = fall into normal flow of a document (ie. don't begin on a new line), lining up one after the other content commonly used for smaller pieces of content (eg. a few words) may be nested inside one another can't wrap block-level elements
- i want class or id name (attribute value) that refers to content of an element > appearance of element

Comments wlin HTML & CSS

- · HTML comment format: <!--...->
- · CSS comment format: /* ... */

Using Text Based Elements

- popular text elements: headings paragraphs bold text
- headings (<h1>-<h6>) = used to designate multiple levels of text headings throughout a page

 block-level elements

 key identifiers for users that help break up content & establish hierarchy

 help search engines index & determine content on a page
- · paragraphs () = block·level element often follow headings

bold text (< strong>) = inline level element	
(eg.): element used to give strong impo	ortance to text
(eq.): element used to stylistically offset to	ext
italicize text () = inline level element	
eg.): element used to place a stressed empha	vis on text
(eg. <i>): element used to convey text in an alte</i>	rnate tone or voice
Building Structure	
structural elements = identify groupings of content, give mear	ning to organization of pages a improve structural semantics
block·level elements	
no implied position or style	
· Structurally-based elements: <header></header>	
<nav></nav>	
<article></article>	
< section>	
<aside></aside>	
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
header (<header>>) = element used to identify top of a pag falls wlin the <body> element</body></header>	ge, article, section, or other segment of a page
- may include: heading	
introductory text navigation	
· navigation (<nav>) = element used to identify a section of ma</nav>	
included links -> link to other pages	wlin same website or parts of the same web page
- Should be reserved for primary navigation sections o	
	table of contents
	previous/next links
	other noteworthy groups of navigational links
- misc. one off links → anchor element (<a>)	
article ((article))= element used to identify a section	of independent content that may be independently distributed
Content could be replicated some	
· section (<section>) = element used to identify a thema</section>	tic grouping of content
generally includes a heading	
commonly used to break up & pro	vide hierarchy to a page

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aside ((aside)) = element that holds content tangentially related to the content surrounding it: sidebars
                                                                                                   inserts
                                                                                                   brief explanations
      -> (eq. w/in <article>): identify content related to author of the article
  footer ((footer)) = element used to identify closinglend of a page, article, section, or other segment of a page
                       content should be relative info & shouldn't diverge from document or section it's included w/in
Encodina Special Characters
   special characters can be misunderstood in HTML: they need to be encoded
   encoded character format: & ...;
       -> (eq. & copy;): copyright symbol ©
Creating HuperLinks
   hyperlink = provides the ability to link from one web page or resource to another
              established via anchor (<a>) element & hyperlink reference (href attribute)
     T format: <a href= "url">text</a> -> <a href= "http://shayhowe.com">shay</a>
  anchor (<a>) = inline-block element w/ specific permission to wrap any level elements
   paths = href attribute values
   relative path = what links pointing to other pages of the same website will have
                   doesn't include domain in path
   absolute path = what links to other websites outside of the current one requires
                  path must include full domain
   email link: when clicked → opens user's default email client & pre-populates parts of the email
     – format: <a href="mailto:emailaddress">text</a> → <a href="mailto:shay@awesome.com">Email me</a>
     Toptional subject & body parameters format: <a href="mailto:emailaddress?subject=...&body=...">text</a>
            <a href="mailto: shay@awesome.com? Subject= Reaching 1.20 out & body= How 1.20 are 1.20 you"> Email me </a>
   open link in new window
     T format : <a href="url" target="_blank"> text</a> -> <a href="http://shayhowe.com/" target="_blank"> shay</a>
   link to part of the same page (eg. Back to top)
                                                          <body id="top">
     - format: <body id="top">
                   < a href = "#top">text </a>
                                                             < A href = "#top"> Back to top </a>
                                                          </body>
                 </body>
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