L1: Intro

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Main reference: New Perspective on HTML5

Focus:

- 1. History of web
- 2. Insert metadata into document
- 3. Sectioning elements
- 4. Grouping elements
- 5. Text-level elements
- 6. Inline images
- 7. Symbols
- 8. Lists

Learning outcome:

- 1. CLO1: Create a website
- 2. CLO2: CSS and JavaScript

History of web

- 1. Network = Structure to share information and services among devices
- 2. Host/Node = Devices which can send/receive data
- 3. **Server** = Provide information/service to devices
 - a. Service receiver = client
- 4. Client-server network = clients access others information
- 5. Local area network = Network in small geographic area, switch are intermediary devices
- 6. Wide area network (WAN) = Network in wide area
 - a. Largest: Internet
- 7. Timothy Bernes-Lee, CERN facility in Switzerland laid foundation for WWW in 1989
- 8. **Hypertext** = Method to organize data sources through **links/hyperlinks** to jump to other information.
- 9. Web Page: Document on web, stored on web servers, accessible using web browser

Introducing HTML

- 1. HTML (Hypertext Markup Language): Language to write web page, describes content
- 2. Markup language: Describe content/structure of document through tags and elements
- 3. W3C (WWW Consortium): Created standards for browser to follow
 - a. No enforcement
- 4. XHTML (eXtensible): different HTML with stricter standards
- 5. HTML5: Next generation HTML, depreciate older features
- 6. HTML Converter translate text to HTML code
 - a. "Bloated": Usually longer & more complicated
- 7. **IDE** (Integrated Development Environment)
 - a. Software covering all development process (from writing HTML code > create scripts on servers)
- 8. Validators: Test code, ensure no syntax error

Document Type Declaration

1. Doctype: describe markup language

Introducing Element Tags

- 1. Marks element in document
- 2. Two sided element: Starting tag (tag without "/")ending tag
- 3. Empty elements (one-sided tag): refer to nontextual elements

- a. **<br**>indicate line break
- b. <hr>: Horizontal line
- 4. Head: mark document information
- 5. **Body:** Content appearing in web page

Displaying HTML file

1. Use different browser to check compatibility

Introducing Element Attributes

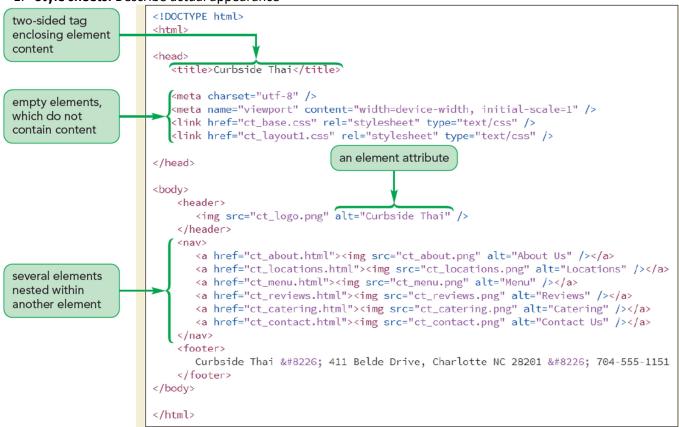
- 1. **Element attributes:** additional information to inform browser on element purpose, **not case** sensitive
- 2. Style attributes (remember semicolon):
 - a. Center text: "style=text-align: alignment;"
 - b. Alignment = left/right/center/justify
 - c. Font color: "style=color: color;"

Handling White Space

- 1. White-space character: Empty/blank character
- 2. White space: Make file easier to read

Viewing HTML Files

1. Style sheets: Describe actual appearance



Document head

- 1. Contains metadata, describe on how the browser should process the document
- 2. Meta element: general list of metadata values
 - a. <meta attributes>
- 3. Character encoding: Process to convert text into bytes & vice versa

Comments

1. <!-- comment -->

Page Body

- 1. Sectioning/semantic elements: Marks major topical areas
 - a. **<hn>**
 - b.
 - c. <blockquote>
 - d. Generic block-level element: <div>
- 2. Style sheet: specify how elements displayed in CSS language
 - **a.** External, internal, inline.

Character sets/special characters

- 1. Character set: Collection of characters/symbols rendered by browser
 - a. Character encoding: associate character from char set to read by computer using numbers
 - i. &#code
 - b. Character entity reference: Insert special symbol using short names
 - i. &char
- 2. In exam don't have to remember the exact code, will be given, however it wont tell either & or &# so have to remember when to use

Working with Inline Images

- 1. Embedded content: content from other place using embedded elements
- 2. Inline images: Images placed like text-level elements
 - a. Img, src, and alt

List

- 1. Grouping element (common element: li)
- 2. Ordered list, ol: sequential order, alphabetically/numerically
- 3. Unordered list, ul: no sequential order
- 4. **Description list, dl, dt, dd:** term with matching description
- 5. Navigation list, nav + ul: List of ul list with hypertext links placed within nav element