Web Page Basics
And a look at HTML

Web Pages & HTML
- Codes placed around text such as shown below.
  - Note the beginning & ending codes (with `/`)

```html
<html><head>
<title>Web Page Creation</title>
</head><body>
<h1>Web Page Creation</h1>
<p>Web pages are built with markup text. This turns text into web pages and pulls in graphics and other media.</p>
</body></html>
```

Creating Web Pages
- Web Page Creation Software
  - Does the coding for you
  - Eliminates coding errors
  - Easy to use and quicker to learn
  - Can assist in recognizing the codes
    - Recognizing codes is still important!
- HTML codes
  - Most codes have a beginning and an ending code
  - The ending code has a slash in front of the code
  - Some codes are singular
    - Slash is added at end of singular codes

Web Page Sections
- Web pages have two sections
  - Head
    - Hidden items – do not display in browser window
    - Used to define some parameters for the page
    - HTML codes
      - `<head>` marks the beginning of the head section
      - `</head>` marks the end of the head section
  - Body
    - Content of the page
    - Displays in the browser window
    - HTML codes
      - `<body>` marks the beginning of the body section
      - `</body>` marks the end of the body section

Head Section
- Most important code is the Title
  - HTML: `<title></title>`
  - Uses
    - Appears in the title bar of a window
    - Words placed in bookmarks/favorites
    - Search engines use as a weight
  - Keep your title meaningful and short
    - Recommend using name of site & page heading in title
  - Each page in your site should have a unique title.
  - Note: The title is NOT the first heading on your page.

Other Head Elements
- Load in CSS styles
- Meta tags - numerous types of tags to define various items some of which deal with search engines
  - Scripting
  - Other page setup codes
**HTML Body Basics**
- HTML was originally designed to display simple text within specific structures and with minimal formatting.
- Everything stored within the web page is actually just text.
- Other media such as graphics, video, audio exist in separate files and can be displayed via via coding to link to the files.
- The displayed web page looks like it has these within the file.
- Important to realize these are SEPARATE FILES.

**Body Structures**
- Text content must be in a structure
  - Headings
    - 6 levels
  - Paragraphs
  - Lists
    - Unordered
    - Numbered
    - Definition
  - Block quote
  - Table data

**Headings**
- All pages should have at least one heading.
- Headings act as an outline for the page
  - Heading 1 is the top level heading
    - HTML: `<h1></h1>`
  - Heading 2 is a sub heading to heading 1
    - HTML: `<h2></h2>`
  - Each higher number heading is a subheading of the previous level. Up to 6 levels of headings.
- Important
  - Allows for greater accessibility
  - Search engine use as a weight

**Paragraphs & Quotes**
- Paragraphs contain paragraphs
  - HTML: `<p></p>`
- Block quotes are used for quotations.
  - Often used when quoting from another source
  - Quotes that are normally indented
  - HTML: `<blockquote> </blockquote>`

**Lists**
- If listing items use lists
- Unordered - a list of items where order is not important (usually bulleted)
- Numbered – a list of items where order is important (usually numbered)
- Definition – a list of words followed by definitions

**List Codes**
- Unordered
  - `<ul></ul>` defines entire list
  - `<li>` defines each item in the list
- Numbered
  - `<ol></ol>` defines entire list
  - `<li>` defines each item in the list
- Definition
  - `<dl></dl>` defines entire list
  - `<dt>` defines term
  - `<dd>` defines definition of term
Other Body Codes
- Line break – places a line break within a paragraph or other element.
  - `<br />`
- Horizontal rule – draws a horizontal line
  - `<hr />`
- Linking – creates a link to another page
  - `<a href="web address"> wording</a>`
    - Web address is
      - The file name for links within your site (may include folder names also)
      - The complete web address for links outside your site
    - Wording is the words that are to be the link
      - Can also be an image

Text Formatting
- Simple text formatting of bold & italic with markup languages
  - Use only for items that should always be bold or italic, but not as a styling choice.
    - Bold `<strong>`/`</strong>`
    - Italic `<em>`/`</em>`
    - Do not use older codes `<b>` & `<i>`
- All other formatting should be done with Cascading Style sheets (CSS)
  - Our first assignments will be plain and not contain CSS

Default Formatting
- Headings
  - Default formatting is for heading 1 to be largest and each subsequent heading to be smaller.
  - Do NOT use a smaller heading to make the font smaller for your heading. Use the correct level heading.
- Line spacing
  - Most items have a line space before the items
    - Headings
    - Paragraphs
    - Lists (not each line item, just the whole list.)
- Indented
  - List items
  - Blockquote
    - Do not use to indent something that is not a quote

Site Setup
- Setup UH Server for web page
- Find Directory using AnyClient
- Setup Dreamweaver

Important Concept
- **Structure** and **Styling** should be kept separate.
- Use HTML tags as STRUCTURE
  - Not as styling choices
  - Use appropriate codes for elements within your page.
- All styling should be completed with CSS.
  - Use to change from default formatting
- HTML and CSS are usually stored as separate files that the browser pulls together.
  - This makes styling changes easy
  - Allows for greater accessibility