

CIS 195 – Day 1

Overview and Intro

Topics for Week 1

- Syllabus in Moodle
- Overview of Week 1 in Moodle
- 195 covers HTML and CSS
 - HTML: Hypertext Markup Language
 - CSS: Cascading Style Sheets
- Week 1 is an intro to HTML

WWW – World Wide Web

- Internet is a physical network
- WWW is a logical network built on top of the Internet using software
- Why might you want to create web pages?

Static versus Dynamic Pages

- Coding in HTML and CSS allow use to create static pages.
- Writing code using JavaScript and other programming languages all us to create dynamic web sites.
 - Allows the displayed content on part or all of the page to be changed by interaction with the user. For example the user clicks a button to cause some other action.

Example Web Page

- Download the Oregon Web Site zip file on Moodle
 - Unzip it in another folder
- Create a folder structure for this course
 - 195 folder with labs and examples folders
- Double-click index.html file
- Right click the page, choose View Page Source to see HTML for that page.

Chrome Developer Tools

- To open the elements tab in Chrome Developer Tools can use More Tools menu or keyboard shortcut of ctrl-shift-i

HTML Tags and Elements

- Use angle brackets `<>` to specify this is a tag.
- Use `/` to specify a closing tag otherwise the tag is an opening tag.
- HTML elements are usually started with an opening tag and ended with a closing tag.
- Elements can be nested as with a title element inside of a head element.

Head and Body Elements

- Entire document is an HTML element
- Head and body elements are within the HTML element
- Content of web page is specified in the body element.

Header Tag Is Semantic

- Semantic tags introduce meaning and are used as a way to organize the page as opposed to tags like h1 used to display specific content
- Header element is a container for introductory content.
- Semantic tags don't have to be used but they're useful for organizing content
- For more info on semantic tags see https://www.w3schools.com/html/html5_semantic_elements.asp

Heading Tags: h1, h2, h3, etc.

- Used to display text in different font sizes
- For more info on heading tags see https://www.w3schools.com/html/html_headings.asp

Image Tag

- Used to display an image.
- Works with various image formatted files such as .jpg and .png files
- For more info on image tags see https://www.w3schools.com/html/html_images.asp

Example: Create Our Own Web Page

- Create a web page with information from your home town
- Start by running Notepad++ or some other text editor
- Start with !DOCTYPE
- Add html, head and body tags
- Add title tag nested within html element

Example: Create Our Own Web Page

- Within body element
 - Add header with h1 and h2 elements
- Add an image
 - src is an attribute
 - Can use width and height attributes to resize the image. Such as width="200px"
 - If use width only height will automatically be adjusted to preserve the aspect ratio of the image

Example: Create Our Own Web Page

- In the body create a section tag
 - defines sections in a document, such as chapters, headers, footers, or any other sections of the document
 - Another semantic tag for organizing info
- Within the section use an h3 tag and create an unordered list
- We'll look at some more tags next time but first let's look at what's you're required to do this week.

Example: Create Our Own Web Page

- What to do this week
 - Quiz 1
 - Lab 1 Instructions