Lesson 3 – Cascading Style Sheets

CSS stands for Cascading Style Sheets language and is used to stylize elements – such as fonts, colors, and positioning - written in a markup language such as HTML. It separates the content from the visual representation of the site. The relation between HTML and CSS is strongly tied together since HTML is the very foundation of a site and CSS is all the aesthetics of an entire website.

Look at the following videos before next class:

https://www.youtube.com/watch?v=XPv4EeB0PJ8   - What is CSS?
https://www.youtube.com/watch?v=azZCW24XtT4   - CSS for styling text
https://www.youtube.com/watch?v=1PnVor36_40   - CSS in 20 minutes

https://www.youtube.com/watch?v=fm3uLUtlxUw   - CSS for links
https://www.youtube.com/watch?v=QM6i5WglYbs   - CSS for Images
https://www.youtube.com/watch?v=zHZRFwWQt2w   - Background images with CSS

Create the CSS page for the following pages, and link the css page to the site. The first page on Edgar Allan Poe will be completed as a group. The other two examples, Facts about NL and The History of the Olympics have been included for own practice and exploration.

Style Sheets – Edgar Allan Poe Page

Add a file to the project to create a style sheet called Poe.css based on the following guidelines. Add the following line to the <head> section of the html file – after the <meta> tags that will connect the css page.

<link rel = "stylesheet" href = "Poe.css" >

Create styles for each of the following:

- The body of the document will have a background color of Black.

- All headings will be displayed with a font of Comic Sans MS and a color of Red.

- The text in each paragraph and list item will have a font of Arial Black, a size of 12pt, a color of White, and bolded. Increase the spacing between lines to 120% or 1.2em.

- Create a class for each of the following. Add the classes to a word / words / or a phrase within the document.

- to italicize text; to bold text; to make text blue and bolded; to make text red and bolded;

- Create a style for the links in the main navigation section to be blue with no underline. As the user hovers over a link switch to reverse video – blue background and white bolded text. The visited site will be the same as the normal link. Do you see an issue with this? How will we take care of this problem?

- Create a box for the page so that changing to different systems with different resolution will not affect your page. Create the box with a width of 1000px. Set the background color of the box to Black, add a Red border around the box, and set a padding of 30px.

    To create the main box for the page, add the following to the css file. Identify the purpose of each of the CSS properties used to create the box.

    ```
    .Main {
        width: 1000px;
        background-color: black;
        border: 3px solid red;
        padding: 30px;
        text-align: left;
    ```

    Now to display the page content within the box, add <center><div class = "Main"> after the <body> tag, and on the line with the </body> tag add </div></center> before the </body>.

- Search for CSS tricks on the internet and implement one on this page. Be prepared to describe the style used and what it does in class.

Exercise – Cascading Style Sheets

Prepare a style sheet for each of the following cases.

1.	The background color of the document will be Silver, and the text color will be Blue. The margins will be approximately 1 inch from the left and right. All headings will be Red with a font family of Times. Paragraphs will have a font family of Helvetica or Calibri, and a size of 12 pt. All links will appear blue and underlined (set link and visited the same) and will reverse video when the mouse hovers over it (blue background and silver text with no text decoration). Add one more style to your page with a comment describing it.

2.	Create a box for the main content of the body with a background color of Green, a 4px border with a color of black, and a padding of 15px. A background image has been saved as BImage1.jpg and will be tiled on the entire document. Margins for the entire document will be 50 pixels. Text in all paragraphs will be Times New Roman with a text color of black and a size of 14 pt. The paragraphs will have the first line indented 30 pixels. This document has many quotes so set up a second paragraph style that will be indented from both sides, appear in Italics, and have a size of 12 pt. All headings will have a font family of Helvetica and a color of Green. All links will be Red and underlined, and a hover will cause the link to turn blue with no text decoration. Add one more style to your page with a comment describing it.

3.	Create a box for the main content of the body with a background color of your choice with a border and padding. A background image has been saved as BImage1.jpg to tile down the left side of the page only. The remaining document will have a background color gradient from peach to light brown, and a text color of Blue. Since the background image has a width of 150 pixels, set the left margin only to 175px, and all other margins to 50px. Text in all paragraphs will be Calibri with a text color of black and a size of 14pt, and the first line in the paragraph will be indented 30px. The first letter of the first word in each paragraph will be gray with a font of MS Sans Serif, and a size of 20pt. This document has many images set up in tables with a caption under each. The captions are to be italic with a size of 6pt, a color of Gray, and centered. All horizontal rules will also have a color of Gray. All headings will have a font family of Times New Roman and a color of Gray. All links will have a color of Gray and underlined. A hover will cause the text to change to Red, with a size of 12pt, bolded, and no text decoration. Add one more style to your page with a comment describing it.

Style Sheets – NL Facts Page

- Set the page to appear within a box with a width of 1000px. Apply a border to the main div as well. Set a color for both the background of the box and the text.

- The background color of the page (body) will be a color of your choice.

- All headings will be Arial Black and have a color of Red. Set a background color for headings to Blue – if the colors do not match, find a color that fits.

- The text in each paragraph and list item will have a font of Calibri and a size of 12 pt. Set the height of each line to be larger than default.

- Create a class for each of the following: to italicize text; to bold text; to make text blue and bolded; to make text red and bolded; to make the text a font size of 8pt, bolded and italicized with a font of Courier New; and one other of your choice.

- Use the italic class to format the Latin heading at the top of the page. Use the red class for negative temperatures and use the blue class for positive temperatures in the other information section. The text below the last horizontal rule will have a font size of 8pt, bolded and italicized with a font of Courier New – use the class. **Also add a degree symbol after each temperature – °.** Apply each of the other classes to text of your choice in the page.

- Add a style for both the links in the navigation area on the top of the page and the links within the body of the page.

- The text in each "Other Information" section is to be emphasized. Create a box for this text with an appropriate size, with a background color of orange, a text color of blue, and a padding of 15px. Set the width of this box to 400 and right align it on the page. You may need to adjust so the text appears OK.

- Research how to create a drop-cap and apply it to the first character of the first paragraph only. Search for CSS tricks on the internet and implement one on this page. Describe the style used and what it does in the space provided.

Style Sheets – Olympics Page

Create a CSS page for the Olympics page and link it to the web page.

- Set the page to appear within a box with a width of your choice. Apply a border and padding to the main div as well. Set a color for both the body and the main div.

- The main heading will be Arial Black and have a color of Gold and a background of Silver. Other section headings will have a font of Tahoma and a color of Silver.

- The text in each paragraph and list item will have a font of Calibri, a size of 12 pt. Set the line height to 1.4em for easier reading.

- The text in quotes will appear italicized, a font a Courier New, and bolded text. Set the alignment of the text to be fully justified.

- Create a class for each of the following: to italicize text; to bold text; to make text blue and bolded; and one other of your choice. Apply each class to a word / words / phrase on the page using the <span> tag.

- The text in each "Did you Know …" section is to be emphasized. Create a box for this text with a width of 300px, with a back-ground color of blue, a text color of white, and a padding of 15px, and an appropriate border (pg. 67). You may need to adjust the size or the text so it appears OK – I would also remove the <hr /> tags above and below the sections now that we have put them in a box.

- Add a style for both the links in the navigation area on the top of the page and the links within the body of the page.

- Change the style in the body to {background: linear-gradient(red, orange);}. You may change the colors to your liking. Add a shadow effect on the main heading. Set an effect of overline underline on all other headings.

- Search for CSS tricks on the internet and implement one on this page. Describe the style used and what it does in the space provided.