**DS4200 Homework 3**

**Website Link**

This is the link to my website: <https://hogan-choi.github.io/DS4200-Homework-3>

**CSS Styling:**

For this website, I used a box header in black color to denote the title for the page. The navigation bar (storing other pages to the personal website) had a red background color. I used a light gray background for any texts that were present on the website (“About Me” section and individual projects). I didn’t change the main class since I wanted a white colored background. My motif for this color palette was to replicate Northeastern’s official colors (black, white, light grey, and red).

I also incorporated “flex” and “float” to create a layout of the sections of a page accordingly. For example, the “About Me” section was positioned so that it was on the right side of the page while my profile picture was on the left side of the page. I also made sure that the bullet points regarding “My Skills” and “Contact Information” were positioned underneath the introduction paragraph and were side by side. Finally, margins, paddings, and gaps were used to organize each section.

**CSS Code:**

These are the following codes that I used for the CSS file:

* padding: Was used to control the spacing between sections.
* text-align: Defines the horizontal alignment of text.
* background-color: Changes the background color of an element.
* font-size: Changes the font size of text.
* : Changes the text style.
* margin (left, right, bottom, top): Used to create spaces around elements.
* width: Defines the width of an element.
* display: Defines the display behavior of an element. Used “flex” type to contain several elements (text, images, etc).
* : Establishes the main axis of the containers. I used “row” to align the elements horizontally.
* gap: The amount of space between the elements in a flexbox.
* : Used to position elements within a container.

**HTML Structure**

These are the following pages that I created for my personal website:

* About Me: The homepage where I include a short introduction of myself and my interests. This page also has my profile pictures, my skillsets, and contact information.
* My Projects: This page stores all my personal projects that I’ve done throughout college. I created a small rectangular section for each project which has a small summary of the project, an image from the project, and the link to the project on my personal GitHub.
* Scatter Plot: This is the scatter plot that I created using Javascript (Problem 2). This visualization shows the relationship between Petal Length, Petal Width, and the Iris Species.
* Box Plot: This is the box plot that I created using Javascript (Problem 2). This visualization shows the distribution of Petal Length for individual Iris Species. The graph contains the minimum, first quartile, median, third quartile, and maximum Petal Lengths for each Iris Species.

**HTML Code**

These are the main HTML tags I used for this Homework.

* <div>: The division tag was used to store other HTML variables (paragraphs, bullet points, links, etc). This was very helpful since I was able to organize the different sections.
* <header>: Used to create a header for a page or section.
* : The navigation tag was used to navigate through different HTML pages.
* <p>: The paragraph tag was used to write blocks of texts.
* <ul>: Used to create an unordered bullet point list.
* <li>: A list of items.
* <img>: A tag used to showcase and display images on HTML websites.
* <a>: A tag used to store links to different websites.

**References:**

1. “CSS Font-Family Property.” *Www.w3schools.com*, www.w3schools.com/cssref/pr\_font\_font-family.php.
2. Coyier, Chris. “A Complete Guide to Flexbox | CSS-Tricks.” *CSS-Tricks*, 2018, css-tricks.com/snippets/css/a-guide-to-flexbox/.
3. “CSS Layout - Float and Clear.” *W3schools.com*, 2019, www.w3schools.com/css/css\_float.asp.
4. W3schools. “CSS Navigation Bar.” *W3schools.com*, 2019, www.w3schools.com/css/css\_navbar.asp.