Web Programming Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Activity 1.3 – Colored Markers

Points: \_\_\_\_\_\_\_\_\_\_ / 40

Selecting the correct colors for your webpage can greatly improve the aesthetic appeal to your readers. In this activity, you'll build a set of colored markers. You'll learn different ways to set color values and how to pair colors with each other.

1. First, read this [article](https://bitsofco.de/sectioning-content-in-html5/) about the difference between the <div>, <section>, and <article> elements. In your engineering notebook, answer the following questions:

a. In general, what is the purpose of the <div>, <section>, and <article> elements?

b. When should you use a <section> element?

c. When should you use an <article> element?

d. When should you use a <div> element?

2. Download, extract, and rename the linked project from GitHub using the link provided in Google Classroom. When you rename the project folder, make sure you follow proper naming practices.

3. Next, open the file named *index.html*. Add a comment at the top of the document with the project name, your name, today’s date, and the title of the course on separate lines. Then open the file name *styles.css* (located in the styles folder) and add a comment at the top of the document with the same information. All content you add to the documents should be under these comments.

4. Login to [freeCodeCamp](https://www.freecodecamp.org/). Using the steps provided under the [*Learn CSS Colors by Building a Set of Colored Markers*](https://www.freecodecamp.org/learn/2022/responsive-web-design/), complete the website. You should complete the work in Visual Studio Code and copy and paste the solution to each step into freeCodeCamp to check your answer.

5. When your website is complete, please do the following…

a. Compress the project folder and submit it to Google Classroom.

b. Print a copy of *index.html* and *styles.css*. Add these to your engineering notebook. Highlight and annotate your code.

c. Take a screenshot of the finished webpage (open it in a browser and use the *Snip and Sketch* tool). Print a copy of the screenshot and add it to your engineering notebook. Annotate the picture by labeling each component with the element required to insert it.

d. Finally, record the file structure for this project in your engineering notebook.

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| **Project Criteria** | |
| Criteria | Point(s) |
| <head> element contains all the necessary non-visible and visible elements to provide the necessary meta data for the website. | /4 |
| Website contains a title with the correct content and style. | /1 |
| Website contains a red marker with the correct style. | /5 |
| Website contains a green marker with the correct style. | /5 |
| Website contains a blue marker with the correct style. | /5 |
| Website has the correct overall style and structure. | /10 |
| **Development Mechanics** | |
| Criteria | Point(s) |
| All elements are structured using best practices. | /2 |
| Project folder/director structure follows industry best practices. | /2 |
| All folders/directories and files use proper naming style (i.e., file-name). | /2 |
| All documents use whitespace and comments to help organize the code. | /2 |
| Project root folder/directory has an appropriate name. | /1 |
| All documents have a comment at the top that includes the program’s title, the student’s name, the date, and the course’s title. | /1 |

/ 40