Web Development – Mr. Goldman

Level 1 Project – Dynamic Color Changer

**Project Overview**

This simple program will give the user the option of dynamically changing the color of text and the background color through the use of buttons.

**The Page**

Create a simple HTML web page with a single element (div, p, h1, etc…). That element should include a piece of text that shows the current RGB color value of the text. With no initial styling, the RGB values should all be 0, which gives you black text.

In addition to the element, you need to create a series of buttons through which you can change the Red, Green, and Blue values of the text. The options for the user are to change the values by +1, +5, +10, -1, -5, and -10. When the user clicks one of these buttons, the appropriate value will change and the color of the text will become the color represented by the new values.

In changing the color values, you will have to use the rgb(r, g, b) method of setting the color.

**For Example:** When the program starts, the RGB values are 0, 0, 0. If the user clicks Green +10, the new values will be 0, 10, 0.

After you have the color working for the letters, add another series of buttons that changes the background color of the element as well.

**Enhancements**

Though the colors change, the text inside the element remains fixed. Change the text every time a value changes so that the proper current color value is represented by the text.

As the background color darkens, the foreground color (color of the text) should lighten to automatically introduce that contrast. The same should happen in reverse.

**Programming Requirements**

|  |
| --- |
| * You must code your own HTML and CSS. Use of a drag and drop interface or the usage of code downloaded from the internet is not permitted. |
| * Use of deprecated code is not permitted. Use an HTML 5 reference as your guide. |
| * You must comment your name into the top of every page. |
| * Your code must be structured in a consistent and legible manner |
| * Your text must be organized through the use of sectioning tags (div, span, p, h1 – h6). Tables are acceptable for data but not for page design. |
| * Your interface must be smooth and easy to figure out for a client. |
| * Your pages must be formatted using CSS. |