Hands-on Activity 3.1 | Styling a Simple Web Page	
Course Code: CPE025B	**Program: BSCPE**
Course Title: Software Design 2	**Date Performed: 01/24/2026**
Section: CPE32S4	**Date Submitted: 01/24/2026**
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1. Discussion

Module 1 tackles what is CSS or Cascading Style Sheet which is a language utilized for styling html elements. It is mostly used for coloring, designing, layouting of the html elements on your websites. It can work as internal styles or external styles. External styles are the most common way to do CSS wherein you create an entirely new file only for CSS. The language has similarities with HTML but mainly it focuses on styling and it can target from a elements, class and id selectors to style specific parts of the HTML

3. Procedure

1.10.1 Styling a Simple Web Page

Scenario

You are creating a simple webpage for a personal blog. The page has a basic HTML structure, and your task is to style it using CSS. You'll apply various CSS techniques, including different ways of including CSS in a webpage, organizing stylesheets, using selectors, and understanding the CSS cascade and specificity.

Instructions

Follow the instructions below to style the webpage step by step:

1. Apply Inline Styles

- Add inline styles to the `<h1>` element to change its color to blue and its font size to 24px.

2. Apply Internal Styles

- Add internal styles to the `<head>` section of your HTML file to style the `<p>` elements. Change the text color to slategray and font size to 16px.

3. Apply External Styles

- Open the *styles.css* file and add styles to change the font family of the `<body>` to Arial, sans-serif, and the font size to 14px.

4. Organize Your CSS

In the *styles.css* file, add comments to organize your CSS into sections. Create sections for base styles, header styles, section styles, and footer styles. Add the following styles:

- Base styles: Label the existing style from the previous step that sets the the font family to Arial, sans-serif, and font size to 14px for the `<body>`.
- Header styles: Set the background color to #333333, padding to 20px, and text alignment to center for the `<header>`.
- Section styles: Set the margin to 20px for the `<section>` elements.
- Footer styles: Set the background color to #333333, padding to 10px, and text alignment to center for the `<footer>`.

5. Use Different Selectors

In the *styles.css* file, add styles using different types of selectors:

- Use an element selector to change the color of all `<h2>` elements to black.
- Use a class selector to change the background color of elements with the class "highlight" to orange, and add a <span> element with the class `highlight` somewhere in your HTML document to make it visible. You can also add 4px of padding and change the font color to white to enhance its appearance.
- Use an ID selector to add a border-bottom to the `<header>` element.
- Use an attribute selector to change the color of mailto links (`<a>`) to orange.
- Use a pseudo-class selector to change the color of links (`<a>`) when hovered over to white.
- Use a pseudo-element selector to make the first line of each `<p>` element bold.
- Use a combinator selector to add a border-top to the `<main>` element that immediately follows the `<header>` element.

Show Sample Implementation

6. Understand the CSS Cascade and Specificity

- Add styles to demonstrate the CSS cascade and specificity:
- Set the color of `<h1>` elements to green using `!important` in the external stylesheet.
- Set the color of `<p>` elements to red in the external stylesheet, slategray in the internal stylesheet, and gray in inline styles. Observe the effect of the CSS cascade and specificity on the styles applied to the `<p>` elements.

Show Sample Implementation

7. Review and Test
• Review your HTML and CSS to ensure all elements are styled correctly and the CSS rules are applied as expected.   • Experiment with different styles and selectors to see how they affect your webpage.

4. Output
Welcome to My Blog   **About Me**   Hi, I'm a budding web developer learning CSS! I enjoy adding long text to my webpage to demonstrate how the ::first-line pseudo-element works for visitors.   **My Interests**   I love coding, reading, and hiking.   Contact: info@myblog.com

5. Supplementary Activity

HTML CODE

```HTML
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>My Personal Blog</title>
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <link rel="stylesheet" href="hoa3-1_supple_bautista.css">
</head>
<body>
    <header class="hero">
        <div class="hero-text">
            <h1>Welcome to Super Blog</h1>
            <p>The compilation of my BIZARRE Hiking trails and  cycling
roads ADVENTURE</p>
        </div>
    </header>
```

```html
    <section class="about">
        <h2>About Me</h2>
        <p>
            Hi, my name is Alex. I love spending time
outdoors—especially hiking through forests
            and cycling along scenic routes.
        </p>
    </section>

    <section class="interests">
        <h2>My Interests</h2>
        <p>
            My main interests include hiking in the mountains, cycling
during calm mornings,
            photography. I like finding new things to explore and
finding bizarre stories on the road.
        </p>
    </section>


    <section class="gallery">
        <h2>My Bizarre Adventures</h2>

        <div class="image-grid">
            <div class="image-card">
                <img src="/HOA3.1/bike.jpg" alt="Adventure 1">
            </div>

            <div class="image-card">
                <img src="/HOA3.1/hike1.jpg" alt="Adventure 2">
            </div>

            <div class="image-card">
                <img src="/HOA3.1/bike1.jpg" alt="Adventure 3">
            </div>

            <div class="image-card">
                <img src="/HOA3.1/hike2.jpg" alt="Adventure 4">
            </div>
        </div>
    </section>

    <footer>
        <p>Contact: <a
href="mailto:info@myblog.com">info@myblog.com</a></p>
    </footer>

</body>
</html>
```

CSS CODE

```css
CSS
/* Base styles */
body {
    margin: 0;
    font-family: Arial, sans-serif;
    background-color: #f4f1ec;
    color: #3e3e3e;
}

.hero {
    height: 60vh;
    background-image: url("hero.jpg");
    background-size: cover;
    background-position: center;
    position: relative;
}

.hero::before {
    content: "";
    position: absolute;
    inset: 0;
    background-color: rgba(0, 0, 0, 0.45);
}

.hero-text {
    position: relative;
    height: 100%;
    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;
    text-align: center;
    color: white;
}


.hero-text h1 {
    font-size: 36px;
    margin-bottom: 10px;
}

.hero-text p {
    font-size: 18px;
}

section {
    margin: 40px;
    padding: 25px;
```

```css
    background-color: white;
    border-left: 6px solid #4e6b3c;
}

h2 {
    color: #4e6b3c;
}

.image-grid {
    display: grid;
    grid-template-columns: repeat(4, 1fr);
    gap: 20px;
    margin-top: 20px;
}

.image-card {
    background-color: #ddd;
    border-radius: 10px;
    overflow: hidden;
}

.image-card img {
    width: 100%;
    height: 220px;
    object-fit: cover;
}

footer {
    background-color: #6b4f3f;
    text-align: center;
    padding: 15px;
}

footer p {
    color: #e6e2d8;
}

footer a {
    color: #d8f3dc;
    text-decoration: none;
}

footer a:hover {
    text-decoration: underline;
}
```
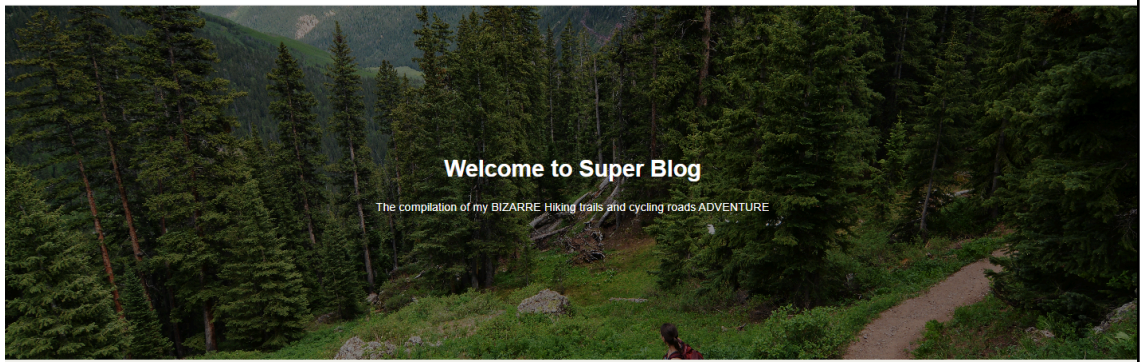
Welcome to Super Blog

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About Me

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My Interests

My main interests include hiking in the mountains, cycling during calm mornings, photography. I like finding new things to explore and finding bizarre stories on the road.

My Bizarre Adventures

Contact: info@myblog.com

CONCLUSION

After performing this activity I was able to learn the syntax and implementation of CSS together with HTML. In this activity I was able to learn how to separate the CSS file from the HTML file which helps in separating the content and the styling file of the website. This helped me implement styling for different specific elements of my website through CSS. I was able to demonstrate my learnings through a sample blog website. For the website I focused on using CSS in creating colored divisions and also to style the presentation of images on the website.