# Pr@Sensia

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**Internship Role**: Web Development Intern

**Date**: 1st July, 2025

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#### Introduction

Cascading Style Sheets (CSS) is a fundamental technology in web development that controls the presentation and layout of HTML elements on a webpage. During my internship, I had the opportunity to explore core CSS concepts such as **Selectors, Colors, Units**, and **Typography**. These form the base of responsive and visually appealing web design.

#### **CSS Selectors**

CSS selectors are used to "select" the HTML elements we want to style.

# **V** Types of CSS Selectors:

• Universal Selector (\*)

Applies styles to *all* elements.

Example: \* { margin: 0; padding: 0; }

• Element Selector

Targets specific tags like , <div>, <h1>.

Example: p { font-size: 16px; }

#### • Class Selector (.)

Targets elements with a specific class.

Example: .box { background-color: lightblue; }

### • ID Selector (#)

Targets a single element with a unique ID.

Example: #header { font-weight: bold; }

### Group Selector

Applies the same style to multiple elements.

Example: h1, h2, h3 { color: navy; }

### • Descendant Selector

Selects elements inside another element.

Example: div p { color: gray; }

### Pseudo-classes

Apply styles based on user interaction.

Example: a:hover { color: red; }

#### **CSS Colors**

Colors in CSS can be defined in various formats to enhance visual appeal and branding.

# **Ways to Define Colors:**

#### Color Names

Example: color: red;

### • Hexadecimal (#)

Example: color: #ff6347; (Tomato color)

# • RGB (Red, Green, Blue)

Example: color: rgb(255, 99, 71);

# • RGBA (with opacity)

Example: background-color: rgba(0, 0, 0, 0.5);

# • HSL (Hue, Saturation, Lightness)

Example: color: hsl(9, 100%, 64%);

Using these formats, I practiced designing clean and modern interfaces by choosing appropriate color combinations.

#### **CSS Units**

Units in CSS define the size of elements, text, margins, and more. Choosing the correct unit is important for responsive design.

### **Types of Units:**

- Absolute Units:
  - o px (pixels), cm, mm, in
  - o Example: width: 300px;
- Relative Units:
  - o em Relative to the font size of the parent
  - ∘ rem Relative to the root font size
  - ∘ % − Relative to the parent element
  - ∘ vw Viewport width
  - ∘ vh Viewport height
  - o Example: font-size: 1.5em;, width: 80vw;

I learned that relative units help make websites more flexible and responsive across different screen sizes.

# **CSS Typography**

Typography in CSS focuses on controlling how text appears on a web page.

# **Key Typography Properties:**

- font-family: Defines the font type.
  - Example: font-family: 'Arial', sans-serif;
- font-size: Controls the size of the text.
  - Example: font-size: 16px;
- font-weight: Sets the thickness.
  - Example: font-weight: bold;
- line-height: Space between lines of text.
  - Example: line-height: 1.5;
- letter-spacing: Controls spacing between letters.
  - Example: letter-spacing: 1px;
- text-align: Aligns text (left, center, right).
  - Example: text-align: center;

• text-decoration: Adds styles like underline. Example: text-decoration: underline;

Good typography improves readability and enhances the user experience. I explored Google Fonts integration and responsive text design.

### **Conclusion**

This internship task deepened my understanding of how **CSS selectors, color schemes, measurement units, and text styling** come together to build aesthetically pleasing and functional web pages. These core concepts are essential for every front-end developer.

Through practice and research, I now feel more confident in applying CSS principles effectively in real-world projects.

# **Key Learnings**

- How to use various **selectors** to target elements precisely.
- Applying **color formats** and combinations to enhance design.
- Choosing the right **units** for flexible layouts.
- Enhancing **typography** for better readability and UX.

#### **Tools Used**

Visual Studio Code

#### References

https://www.w3schools.com/css/