Useful VS Code Extensions

- CSS Peek :- Allows you to see the CSS code directly in the HTML file.
- Color Highlight: Highlights colors in your CSS files.
- Image Preview :- Shows image previews when you hover over image URLs.
- HTML CSS Support :- Provides CSS class and ID completion support in HTML files.
- HTML to CSS Autocompletion :- Auto-completes CSS properties and values.
- Stylelint :- Checks your CSS for errors and helps you follow best practices.
- Intellisense for CSS Class Names :-Suggests class names that are already defined in your project.

Simple Selectors

Tagname Selector: - Selects all elements of a specified tag.

Example: p { }

ID Selector: - Selects a single element with a specific ID.

Example: #unique-id { }

Class Selector: - Selects all elements with a specific class.

Example: .class-name { }

Universal Selector :- Selects all elements.

Example: * { }

Grouping Selector: - Groups multiple selectors to apply the same styles.

Example: h1, h2, p { }

Class Naming Convention

Introduction

- 1. Class naming conventions help keep your code organized.
- 2. They make the code more readable.
- 3. Facilitate understanding of the code structure.
- 4. Enable easier code navigation and debugging.
- 5. Promote best practices in web development.

Importance

- 1. Consistent class names improve code maintainability.
- 2. Meaningful class names make it easier for others to understand the code.
- 3. Reduces the chance of conflicts and duplication.
- 4. Helps in better project management and scalability.
- 5. Enhances teamwork by providing a common coding language.

Popular Naming Convention

- 1. BEM (Block, Element, Modifier) is a structured naming convention.
- 2. Block: Represents a standalone entity, e.g., block.
- 3. Element: Represents a part of the block, e.g., block__element.
- 4. Modifier: Represents a different state or version of a block or element, e.g., block--modifier.
- 5. Example: block element--modifier clearly defines relationships and states.

Color in CSS

Color Name

- 1. Use simple color names to set colors.
- 2. Easy to remember and use.
- 3. Common names include red, blue, green.
- 4. Example: color: red;
- 5. Limited predefined names available.

Hex Color

- 1. Uses hexadecimal values to define colors.
- 2. Consists of a # followed by six digits/letters.
- 3. Offers precise color selection.
- 4. Example: color: #ff0000; (red)
- 5. Can be shortened for some values, e.g., #fff for white.

RGB

- 1. Stands for Red, Green, Blue.
- 2. Defines colors by mixing these three colors.
- 3. Values range from 0 to 255.
- 4. Example: color: rgb(255, 0, 0); (red)
- 5. Useful for creating custom colors.

RGBA

- 1. Similar to RGB but includes an Alpha value.
- 2. Alpha controls the transparency (opacity) of the color.
- 3. Values range from 0 (fully transparent) to 1 (fully opaque).
- 4. Example: color: rgba(255, 0, 0, 0.5); (red with 50% opacity)
- 5. Useful for overlay and blending effects.

HSL

- 1. Stands for Hue, Saturation, Lightness.
- 2. Hue is a degree on the color wheel (0-360).
- 3. Saturation is a percentage (0% is gray, 100% is full color).
- 4. Lightness is a percentage (0% is black, 100% is white).
- 5. Example: color: hsl(0, 100%, 50%); (red)

HSLA

- 1. Similar to HSL but includes an Alpha value.
- 2. Alpha controls the transparency (opacity) of the color.
- 3. Values range from 0 (fully transparent) to 1 (fully opaque).
- 4. Example: color: hsla(0, 100%, 50%, 0.5); (red with 50% opacity)
- 5. Useful for sophisticated color and transparency control.

Opacity

- 1. Sets the opacity level of an element.
- 2. Values range from 0 (fully transparent) to 1 (fully opaque).
- 3. Applies to the whole element, including background and borders.
- 4. Example: opacity: 0.5; (50% opacity)
- 5. Useful for creating overlay effects and emphasizing content.

Background in CSS

Background Color

- 1. Sets the background color of an element.
- 2. Can use color names, hex values, RGB, RGBA, HSL, or HSLA.
- 3. Example: background-color: blue;
- 4. Provides a solid color background.
- 5. Useful for enhancing readability and visual appeal.

Background Image

- 1. Sets an image as the background.
- 2. URL specifies the path to the image file.
- 3. Example: background-image: url('image.jpg');
- 4. Can use local or external image sources. Useful VS Code Extensions
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Background Image

- 1. Sets an image as the background.
- 2. URL specifies the path to the image file.
- 3. Example: background-image: url('image.jpg');
- 4. Can use local or external image sources.
- 5. Enhances design with visual elements.

Background Repeat

- 1. Controls if/how the background image repeats.
- 2. Options include repeat, repeat-x, repeat-y, no-repeat.
- 3. Example: background-repeat: no-repeat;
- 4. Prevents the image from repeating.
- 5. Useful for custom background patterns.

Background Attachment

- 1. Controls the scroll behavior of the background.
- 2. Options include scroll, fixed, local.
- 3. Example: background-attachment: fixed;
- 4. Keeps the background image fixed in place during scrolling.
- 5. Useful for creating parallax effects.

Background Position

- 1. Sets the starting position of the background image.
- 2. Common values include left, center, right, top, bottom.
- 3. Example: background-position: center;
- 4. Centers the background image.
- 5. Can use pixel or percentage values for precise positioning.

Background Shorthand

- 1. Combines all background properties into one declaration.
- 2. Properties include color, image, repeat, attachment, position.
- 3. Example: background: #ff0000 url('image.jpg') no-repeat fixed center;

- 4. Simplifies CSS code by consolidating multiple properties.
- 5. Useful for setting multiple background attributes quickly.
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