

Assignment - 2

Exploring CSS styling

Deliverable 1:

CSS Key Concepts Cheat Sheet

1. Selectors:

- Element Selector: Targets HTML elements by their tag name (eg → `'p { ... }'`).
- Class Selector: Targets HTML elements with a specific class attribute (eg. → `'classname { ... }'`).
- ID Selector: Targets a specific HTML element with a unique ID attribute (eg., `'#idname { ... }'`).
- Descendant Selector: Targets an element that is a descendant of another specific element (eg., `'div p { ... }'`).

2. Box Model:

- Width and Height: Sets the dimensions of an element.
- Padding: Adds space inside the border of an element.
- Border: Defines the border around an element.
- Margin: Adds space outside the border of an element.

3. Colors and Backgrounds:

- Color Property: Sets the text color (eg. 'color: blue;').
- Background Property: Sets the background color or image (eg., 'background-color: yellow;').

4. Typography:

- font family: Defines the font for text content.
- font Size: Sets the size of the text.
- font Weight: Specifies the boldness of the text.
- Text Decoration: Adds decoration to text. (eg. underline, line-through).

5. Positioning:

- Static: Default positioning; elements are positioned according to the normal flow of the document.
- Relative: Positioned relative to its normal position.
- Absolute: Positioned relative to its closest positioned ancestor.
- Fixed: Positioned relative to the viewport, stays fixed even when scrolled.

6. Display Property:

- Block: Display an element as a block-level element.
- Inline: Display an element as an inline-level element.

- **Inline-Block**: Displays an element as an inline-level block container.
- **None**: Hides an element from the page layout.

7. FlexBox:

- **Flexible Box Layout**: Provides a more efficient way to layout, align, and distribute space among items in a container.
- **Properties**: 'display: flex;', 'flex-direction: row/column;',
'justify-content: center/flex-start/flex-end;',
'align-items: center/flex-start/flex-end;'.

8. Grid:

- **Grid Layout**: Defines grid-based layouts with row & columns.
- **Properties**: 'display: grid;', 'grid-template-columns/rows: auto / 1fr / 100px;', 'grid-gap: 10px;',
'grid-column / grid-row: 1/3;'.

9. Transitions and Animations:

- **Transition Property**: Specifies how CSS properties change over time (e.g., 'transition: width 2s;').
- **Animation Property**: Allows for the creation of keyframe animations (e.g., 'animation: slide 3s infinite;').

10. Media Queries:

- Adjust styles Based on Device characteristics: Allows for responsive design by applying different styles based on screen size, device orientation, etc.
- Syntax: '@media screen and (max-width: 600px) {...}'.