CSS BASICS

Introduction:

- CSS provides the styling capabilities.
- Structure alone is not enough; we want the content to be pleasing to the users.
- We can style, color, and do designing in any way we want.

Anatomy of a CSS Rule:

- CSS works by associating rules with HTML elements which govern how they should be displayed.
- The CSS rule contains a selector, after which we have curly brackets and within them is our CSS declaration.
- The declaration contains a property and a value.
- p {color: blue;}
- Stylesheets are files that have multiple CSS rules defined within it.
- Every browser comes with default styles it applies on HTML elements; we overwrite some.

Elements, Classes and ID Selectors:

• CSS selectors are used to determine which set of elements the CSS declarations be applied to.

• ELEMENT SELECTOR:

- We specify only the element name and then declare our CSS.
- o It only styles the elements we target, and doesn't affect other.
- o E.g: p { color: blue; }

CLASS SELECTOR:

- We specify this with a dot and the class name.
- o Targets all that element which have attribute "class" with that name.
- o E.g: .blue { color: blue; }

• ID SELECTOR:

- We specify this with pound sign and the id name.
- o Targets all the elements with attribute "id" with that name.
- o Can only work with 1 element as id is unique for each element.
- o E.g: #name { color: blue; }
- CSS allows use to group several selectors into on CSS rule.
- Separate the selectors with comma.
- E.g: div, .blue, #id1 { color: blue; }

Combining Selectors:

- This technique allows us to precisely target the elements we want to style.
- There are several ways of doing this:

• 1. ELEMENT + CLASS:

- E.g: p.big { font-size: 20px }, styles every "p" with class "big".
- No space between the selectors.
- This technique is used when we have "class" with multiple elements and we don't want to style all of them.

• 2. CHILD SELECTOR:

- o Syntax: selector1 > selector2 { ... }
- o It is read from right to left. Selector2 is the direct child and it is targeted.
- o E.g: article > p { color: blue; }
- o <article>....</article> = Affected.
- o <article><div>...</div></article> = Unaffected.

• 3. DESENDENT SELECTOR:

- o Syntax: selector1 selector2 {...}
- o It is read right to left. Every selector2 that is in selector1 at any level is affected.
- o E.g: article > p { color: blue; }
- o <article>....</article> = Affected.
- o <article><div>...</div></article> = Affected.
- ... = Unaffected.
- These combinations aren't limited to element selector only, we can also have combinations of class, id selectors too! We can have any combination with any type of selector.

Pseudo-Class Selectors:

- The ability to target elements (to style them) based on user interaction with the page.
- For e.g., we want the styling to change when use hovers over something.
- Syntax: selector:pseudo-class {...}
- There are many pseudo-class selectors such as :link, :visited, :hover, :active, :nth-child(num)
- States of Links:
 - o :link = the style to use when there is no action done with the link. Initial stable state.
 - :visited = the style to use when link is visited at least one (opened at least once).
 - O Above two are usually used together to style the link behavior.
 - o :hover = style to use when we hover over the link. (Can also use this with normal tags)
 - :active = style the state when user has clicked the link with mouse but hasn't let go of the click.
 - Above two are usually used together to style this bevavior.
- :nth-child(num):
 - It allows to target a particular element in a list. If we want to target the 3rd element in a list we would use:
 li:nth-child(3) {...}
 - We can also use this to for e.g., style all the odd divs: div:nth-child(odd
- We can also combine pseudo selectors in any of the ways we learned above with any type of selector.