CCAPDEV T1 AY 2022-2023

Outline

- CSS Structure
- CSS Selector Basics
- CSS Combinators
- CSS Attribute Selector
- Pseudo-classes and Pseudo-elements

CSS Structure

```
selector
{
    property : value ;
}
```

```
element
{
    property : value ;
}
```

HTML elements - such as , <h1>, <a>, <div>

HTML Element Example

```
body {
         background-color: silver;
}
h1 {
         color: red;
}
```

```
.class
{
    property : value ;
}
```

Class - The value of the **class** attribute assigned to an element. This is denoted by a . before the value

CSS Selectors – Class

```
HTML
Sample comment
```

```
CSS
.comment {
      color: blue;
```

CSS Selectors – Element + Class

```
HTML
<h3 class="comment">
    My name
</h3>
Sample comment
```

```
CSS
p.comment {
      color: blue;
```

CSS Selectors – Multiple Classes

```
HTML
Text in center and bold
```

```
CSS
.center {
      text-align: center;
.bold {
      font-weight: bold;
```

```
#id
{
    property : value ;
}
```

ID - The value of the **id** attribute assigned to an element. Unlike the class, id must be *unique*. Denoted by #.

CSS Selectors - ID

```
HTML
<div id="menu">
    <l
    Home
    Profile
    </div>
```

```
CSS
#menu {
      background-color:black;
```

ID vs Class

- IDs (#) are unique and can only be used once in an HTML file.
- Classes (.) can be used as many times as needed. Good for reusability across elements.

T NOTE

You can declare values for both id and class attributes for all HTML tags.

```
selector1 , selector2

{
    property : value ;
}
```

Selects all occurrence of selector1 and selector2

CSS Selectors – Multiple Elements

```
HTML
<h3>
     My name
</h3>
>
     Sample comment
```

```
CSS
h3, p {
      font-weight: bold;
```

CSS Selectors – Multiple Classes

```
HTML
<h3 class="name">
    My name
</h3>
Sample comment
```

```
CSS
.name, .comment {
      font-weight: bold;
```

CSS Selectors – Multiple IDs

```
HTML
<div id="title">
</div>
```

```
CSS
#title, #about {
      background-color:black;
```

CSS Selectors – Multiple Selectors

```
HTML
<div id="title">
</div>
<div class="thread">
</div>
```

```
CSS
#title, .thread {
      background-color:black;
```

Combinators

CSS Selectors with relationships

CSS Combinators

```
selector1

property : value
;
```

Selects all occurrence of **selector2** inside **selector1** elements.

This is also known as the descendant selector.

CSS Combinators – Descendant Selector

```
HTML
<div>
      Text1 
     <b>
           Text2 
     </b>
</div>
```

```
CSS
div p {
      color: blue;
```

CSS Combinators

```
selector1 > selector2

{
    property : value ;
}
```

Selects all occurrence of **selector2** where the parent is **selector1** elements.

This is also known as the child selector.

CSS Combinators – Child Selector

```
HTML
<div>
      Text1 
     <b>
           Text2 
     </b>
</div>
```

```
CSS
div>p {
      color: blue;
```

CSS Combinators

```
selector1 + selector2

{
    property : value ;
}
```

Selects all occurrence of **selector2** placed <u>right after</u> **selector1** elements.

This is also known as the adjacent sibling selector.

CSS Combinator – Adjacent Sibling Selector

```
HTML
<h1> Title </h1>
 Some Text 
<h2> Subtitle </h2>
 Some new text
```

```
CSS
h1 + p {
      color: silver;
```

CSS Attribute Selectors

```
selector1 ~ selector2

{
    property : value ;
}
```

Selects all occurrences of **selector2** that follow a **selector1** element.

This is also known as the general sibling selector.

CSS Selectors – General Sibling Selector

```
HTML
<h1> Title </h1>
 Some Text 
<h2> Code and Text </h2>
 some code 
 Some new text
```

```
CSS
h1 ~ p {
      color: green;
```

Attribute Selectors

Making use of an element's attributes

CSS Attribute Selectors

```
[attribute]
{
    property : value ;
}
```

Selects all elements with the target attribute.

CSS Selectors – Attribute Selector 1

```
HTML
Some title
>
   Some text
```

```
CSS
p[id] {
      font-weight: bold;
```

CSS Attribute Selectors

```
[attribute=val]
{
    property : value ;
}
```

Selects all elements with the attribute equal to val.

CSS Selectors – Attribute Selector 2

```
HTML

        Some title

        Some text
```

```
CSS
p[id="content"] {
      font-weight: bold;
```

CSS Attribute Selectors

```
[attribute^=val]
{
    property : value ;
}
```

Selects all elements with the attribute starting with the substring val.

CSS Selectors – Attribute Selector 3

```
HTML
<div id="menu">
</div>
<div id="list-groups">
</div>
<div id="list-groups">
</div>
```

```
CSS
div[id^="list"] {
      background-color:black;
```

CSS Attribute Selectors

```
[attribute$=val]
{
    property : value ;
}
```

Selects all elements with the attribute ending with the substring val.

CSS Selectors – Attribute Selector 4

```
HTML
<div id="names">
</div>
<div id="addresses">
</div>
<div id="footer">
</div>
```

```
CSS
div[id$="es"] {
      background-color:black;
```

CSS Attribute Selectors

```
[attribute*=val]
{
    property : value ;
}
```

Selects all elements with the attribute containing with the substring val.

CSS Selectors – Attribute Selector 5

```
HTML
<div id="lastname">
</div>
<div id="nickname">
</div>
<div id="footer">
</div>
```

```
CSS
div[id*="na"] {
      background-color:black;
```

Attribute Selector Summary

Symbol	Purpose
=	equality (words that is equal to the substring)
^=	prefix (words that start with the substring)
*=	infix (words that have the substring)
\$=	suffix (words that end with the substring)

Pseudo-class and Pseudo-elements

Styling the states and parts of an element

CSS Pseudo-class

```
selector : pseudo-class

property : value ;
}
```

Pseudo-class denotes a <u>special state</u> of an element. <u>Refer to MDN Docs for the full list of pseudo-classes</u>.

CSS Pseudo-class

```
HTML
<a href="#top">
        Some link
</a>
```

```
CSS
a:hover {
      color: orange;
a:visited {
      color: red;
```

CSS Pseudo-element

```
selector :: pseudo-element

property : value ;
}
```

Pseudo-elements represent a special part of an element.

Refer to MDN Docs for the full list of pseudo-elements.

CSS Pseudo-element

```
HTML

This is one very long
  paragraph which can span
  multiple lines in the screen.
  The rest will not be styled.
```

```
CSS
p::first-line{
      color: green;
```

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