

Other CSS Selectors

Web Technologies



Lecture by
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```
<!doctype html>
<html>
  <head>
    <title>
      Web Technologies
    </title>
    <style>
      p {
        color: blue;
      }
    </style>
    <script>
      console.log("client-side");
    </script>
  </head>
  <body>
    <p>
      Welcome!
    </p>
  </body>
</html>
```


What we will cover

- **Combinations of selectors**
- **Attribute selectors**
- **Pseudo-class and pseudo-element selectors**
- **Cascading**

The HTML Code

```
<main>
  <h1>This Season's Town Hall speakers</h1>
  <ul class="speakers">
    <li>January: <a href="filename1.html">David Brancaccio</a></li>
    <li>February: <a href="filename2.html">Robert Fitzpatrick</a></li>
    <li>March: <a href="filename3.html">Juan Williams</a></li>
  </ul>
  <h2>Post-lecture luncheons</h2>
  <p>Extend the excitement of Town Hall by purchasing tickets to the
  luncheons. This unique opportunity allows you to ask more questions
  of the speakers.</p>
```

Combinations of Selectors

- **A selector for a class within an element**
 - `ul.speakers { list-style-type: square; }`
- **Multiple selectors**
 - `p, ul.speakers li { font-family: "Times New Roman", serif; }`

Attribute Selectors

- All elements with href attributes
 - `*[href] { font-size: 95%; }`
- All `<a>` elements with href attributes
 - `a[href] { font-family: Arial, sans-serif; }`

The Web Page and the HTML Code

Welcome to San Joaquin Valley Town Hall.

We have some fascinating speakers for you this season!

- [David Brancaccio](#)
- [Andrew Ross Sorkin](#)
- [Amy Chua](#)

```
<main>
  <p>Welcome to San Joaquin Valley Town Hall.</p>
  <p>We have some fascinating speakers for you this season!</p>
  <ul>
    <li><a href="foldername/brancaccio.html">David Brancaccio</a></li>
    <li><a href="foldername/sorkin.html">Andrew Ross Sorkin</a></li>
    <li><a href="foldername/chua.html">Amy Chua</a></li>
  </ul>
</main>
```

The pseudo-class

```
<a href="speakers/brancaccio.html">David Brancaccio</a>
```

```
a:link { color: green; }
```

```
a:hover, a:focus { color: fuchsia; }
```

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Other CSS pseudo-classes

:link

:visited

:active

:hover

:focus

:first-child

:last-child

:only-child

:first-child

p:first-child {font-weight: bold;}

```
<main>
  <p>Welcome to San Joaquin Valley Town Hall.</p>
  <p>We have some fascinating speakers for you this season!</p>
  <ul>
    <li><a href="speakers/brancaccio.html">David Brancaccio</a></li>
    <li><a href="speakers/sorkin.html">Andrew Ross Sorkin</a></li>
    <li><a href="speakers/chua.html">Amy Chua</a></li>
  </ul>
</main>
```

CSS Pseudo-elements

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```
p:first-child::first-letter { font-size: 150%; }
```

Cascading

- **The CSS rule in different cascade levels:**
 1. Style attribute
 2. Style element in the HTML code
 3. External Style Sheet
- **The CSS rule in the same cascade level:**
 1. The highest specificity
 1. ID selector
 2. Class, Attribute Selector, pseudo-class selector
 3. Type selector
 2. If the specificity is the same for two or more style rules in a group, the style rule that comes last applies

Try It Yourself

In this activity you will practice on how to use pseudo-class and pseudo-element CSS selectors. So:

1. In your HTML file create at least 2 links using the `<a>` element.
2. Create the CSS rule set for these links using pseudo-class `:link` and `:hover` to apply your chosen colours for each.
3. In your HTML code make sure you have at least two `<p>` within the `<main>` element. Use the pseudo-element `::first-letter` to increase the font size of the first letter in the first paragraph.