CSS

CSCI 201
Principles of Software Development

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Outline

• CSS
• Program
CSS

- Cascading Style Sheets (CSS) are used in conjunction with HTML to describe how HTML elements should be displayed.

- CSS can be included in three ways:
  1. Inline in an HTML element through the `style` attribute.
  2. In the `<style>` tag in an HTML document.
  3. In an external file that is included in an HTML document in the `<link>` tag.
     - In the `<head>` tag, include
       ```html
       <link rel="stylesheet" type="text/css" href="test.css" />
       ```
<!DOCTYPE html>
<html>
<head>
  <title>My First CSS</title>
</head>
<body>
  <h2>CSCI 201</h2>
  <h4>This class is learning about HTML and CSS.</h4>
  <table>
    <tr>
      <th>Prefix</th>
      <th>Number</th>
    </tr>
    <tr>
      <td>CSCI</td>
      <td>104</td>
    </tr>
    <tr>
      <td>CSCI</td>
      <td>201</td>
    </tr>
    <tr>
      <td>EE</td>
      <td>101</td>
    </tr>
  </table>
</body>
</html>
```html
<!DOCTYPE html>
<html>
  <head>
    <title>My First CSS</title>
    <style>
      h2 {
        color: blue;
      }
    </style>
  </head>
  <body>
    <h2>CSCI 201</h2>
    <h4>This class is learning about HTML and CSS.</h4>
    <table>
      <tr>
        <th>Prefix</th>
        <th>Number</th>
      </tr>
      <tr>
        <td>CSCI</td>
        <td>104</td>
      </tr>
      <tr>
        <td>CSCI</td>
        <td>201</td>
      </tr>
      <tr>
        <td>EE</td>
        <td>101</td>
      </tr>
    </table>
  </body>
</html>
```
id Attribute

```html
<!DOCTYPE html>
<html>
  <head>
    <title>My First CSS</title>
    <style>
      h2 {
        color: blue;
      }
      #point12 {
        font-size: 12pt;
      }
    </style>
  </head>
  <body>
    <h2 id="point12">CSCI 201</h2>
    <h4>This class is learning about HTML and CSS.</h4>
    <table>
      <tr>
        <th>Prefix</th>
        <th>Number</th>
      </tr>
      <tr>
        <td>CSCI</td>
        <td>104</td>
      </tr>
      <tr>
        <td>CSCI</td>
        <td>201</td>
      </tr>
      <tr>
        <td>EE</td>
        <td>101</td>
      </tr>
    </table>
  </body>
</html>
```
This class is learning about HTML and CSS.

Prefix Number
CSCI 104
CSCI 201
EE 101
**HTML Block Tags**

- **div** and **span** tags are often used with the **style** or **class** attribute
  - **div** is a block-level element
  - **span** is an inline element

```html
<!DOCTYPE html>
<html>
<head>
  <title>My First CSS</title>
</head>
<body>
  <h2>CSCI <span style="color:red">201</span></h2>
  <div style="background-color:blue; color:white">
    This class is learning about HTML and CSS. Hopefully it will be fun.
  </div>
</body>
</html>
```
CSS Frameworks

- CSS Frameworks are very popular now to help programmers with some of the more common tasks, such as responsiveness (i.e. a web page that automatically resizes for different screen sizes)
- Bootstrap ([https://getbootstrap.com/](https://getbootstrap.com/)) is probably the most popular CSS Framework, though many others exist

**Bootstrap**

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.
More CSS

- For more information on CSS
  - Go to [http://www.w3schools.com/css](http://www.w3schools.com/css)
  - Go to any web page and view the source (though you may need to find the stylesheet if it is external)
Outline

• CSS

• Program
Create one HTML page that is formatted in the following ways with different stylesheets.
Program

- Go to [http://www.w3schools.com/css/css_form.asp](http://www.w3schools.com/css/css_form.asp) and modify the form to be more aesthetic like modern web pages.
- Make the form look different for each page.