

Learning Objectives

This lesson provides an overview of the basic and fundamental topics of Cascading Style Sheets (CSS) and their relation to HTML content. By the end of this lesson, learners will be able to:

- o Identify the Document Object Model (DOM) and its properties.
- Use CSS selectors and HTML styling options.
- Create HTML tables.
- Create HTML forms.
- Create an HTML navigation bar with CSS styling.

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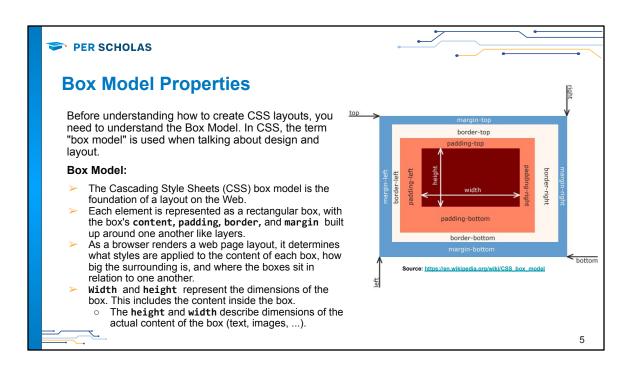
Introduction to the Document Object Model

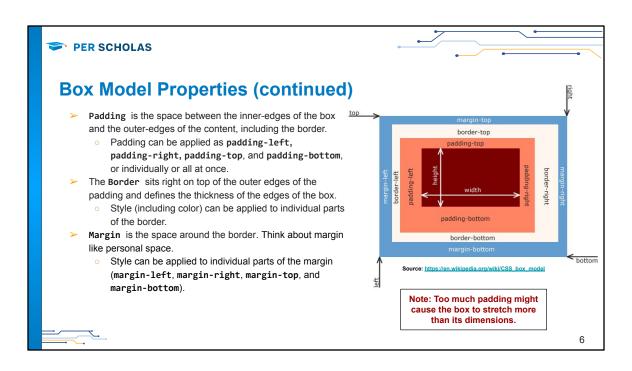
The **Document Object Model (DOM)** is a programming interface for HTML and XML documents.

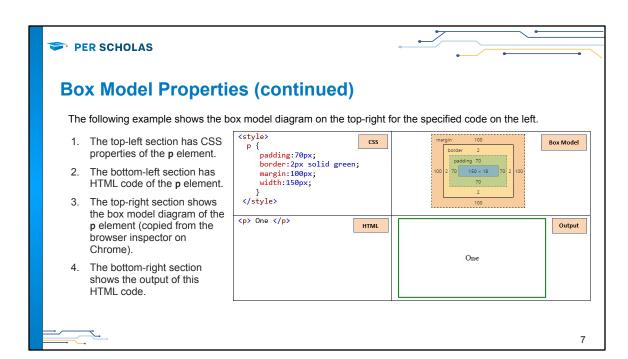
- A web page is a document. This document can be either displayed in the browser window or as the HTML source, but it is the same document in both cases. Likewise, the DOM is an object-oriented representation of the web page, which can be modified with a scripting language such as JavaScript.
- The DOM represents the web page as nodes and objects so that programs can change the document structure, style, and content.
- The <u>W3C DOM</u> and <u>WHATWG DOM</u> standards are implemented in most modern browsers. Many browsers extend the standard; therefore, care must be exercised when using them on the web where documents may be accessed by various browsers with different DOMs.

We will practice DOM manipulation in the JavaScript lessons.











Introduction to Cascading Style Sheets

Cascading Style Sheets (CSS) is a *style sheet language*, which means that it lets you apply styles selectively to elements in HTML documents. For example, to select all of the paragraph elements on an HTML page and turn the text within them red, you would write this CSS:

```
p {
   color: red;
}
```

CSS alone has no effect. Take this analogy to understand the difference between HTML and HTML with CSS:

- > HTML is like a car, but without paint or polish. It can have content, like furnishings and accessories, but they are all bland and unfinished.
- HTML with CSS is that same car, but with color, style, and polish. The CSS adds the finishing touches to make the car look good as well as drive well.

Web browsers apply CSS rules to a document to affect how they are displayed. This is done by applying:

- > Selectors: Element(s) you want to apply the updated property values to.
- Properties: Values set to update how the HTML content is displayed.

Properties and Values in CSS

For each **Selector**, there are "**properties**" inside curly brackets, which simply take the form of words, such as color, font weight, or background color. The basic syntax is as follows:

- Single selector, single property: selector { property: value; }
- Single selector, multiple properties: selector { property1: value; Property2: value; }
- Multiple selectors, single property: selector1, selector2, selector3 { property : value; }
- Multiple selectors, multiple properties: selector1, selector2, selector3 { property1: value; property2: value; }

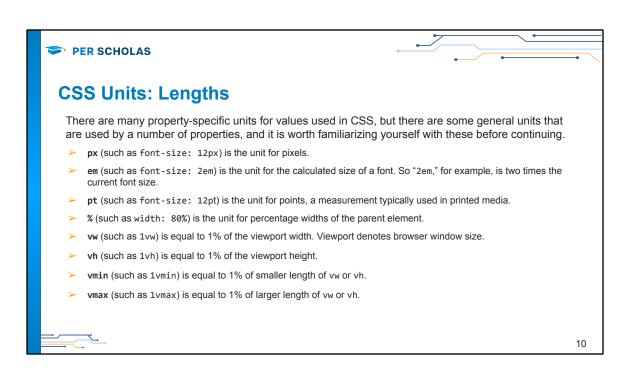
A value is given to the property following a colon. Semicolons are used to separate the properties.

```
body {
  border-width: 1px;
  border-style: dashed;
  border-color: red;
}
```

In this case, **body** is the selector. Each property and value is inside the declaration block.

The properties are to the left of the colon character. Currently, we have "border-width," "border-style," and border-color."

The values are to the right of the colon character. Some properties can have only one value, while others can have more than one value at a time.



Different types of CSS units are available for expressing lengths. Following table explains different types of CSS units.

Different Ways to Apply CSS Styles

CSS can be added to HTML documents in three ways:

- > Inline by using the style attribute inside of HTML elements.
- Internal by using a <style> element in the <head> section.
- > External by using a link> element to link to an external CSS file.

The most common way to add CSS is to keep the styles in external CSS files.

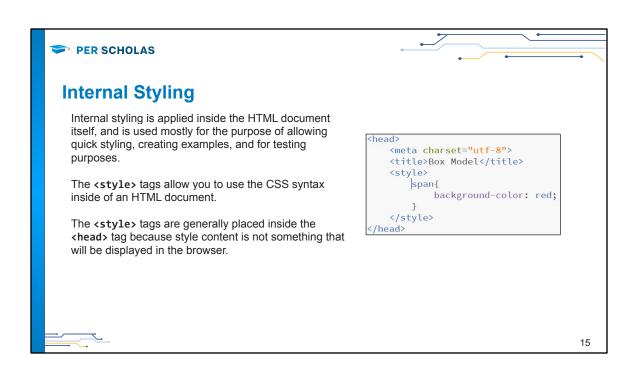
Inline Style

Inline styles directly affect the tag that they are written in without the use of selectors. In order to use them, we make use of the attribute "style," followed by the equal sign (=) and quotation marks (""). Inside of the quotes, we can apply CSS syntax.

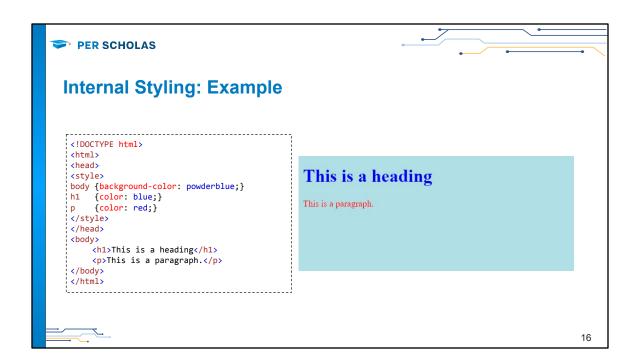
We can use inline styling to produce the same styling that was used with the style tag.

```
<body style="margin: 0px; background-color:red">
<header style="border: 5px solid black; padding: 10px">
<nav style="border: 5px solid orange;">
```

PER SCHOLAS **Inline Style: Example Two** <!DOCTYPE html> <html> <head> <title> CSS Inline Style </title> </head> <body style="margin: 1px; border:1px solid; background-color: red"> styles</h2> Inline style Internal style 1) 2) sheet 3) External style sheet </section> </body> </htm1>



The style tags are generally placed inside the <head> tags because it is not something that will be displayed in the browser.





External Style Sheets

External style sheets are created in separate documents with a .css extension. An external style sheet is simply a listing of CSS rules. It cannot contain HTML tags.

- The <1ink> tag, which goes in the <head> of and HTML page, specifies relationships between the current document and an external resource.
- The 1ink> element is most commonly used to link to stylesheets, but is also used to establish site icons (both "favicon" style icons and icons for the home screen and apps on mobile devices), among other things.
- When determining what styles to apply to elements, external stylesheets have the lowest precedence, and inline styles have the highest precedence. This means that a property written inline will override that same property in either internal styles or an external stylesheet.

To add a stylesheet to a file:

- In your styles folder, create a file name index.css.
- Go to your index.html file, and inside the <head> tag, add a <link> tag
- Use the path of your index.html file for the href attribute.
 - o <link rel="stylesheet" href="">

PER SCHOLAS **Activity: External Style Sheets** Create html file and add the code below. body { <!DOCTYPE html> <html> <head> <title>My Example</title> link rel="stylesheet" href="style.css"> color: black; font-size: 1.1em; < color: coral; #intro { font-size: 1.3em;

(h2)Different ways to apply CSS styles</h2>
cp> 1) Inline style
cp> 2) Internal style sheet
cp> 3) External style sheet
cp> 3)

</section> </body>

Create a CSS file named style.css and add the code below.

```
background-color: darkslategrey;
.colorful {
   color: orange;
section { border: 5px solid black; padding: 10px;
background-color:#dbfffe; }
```



CSS Comments

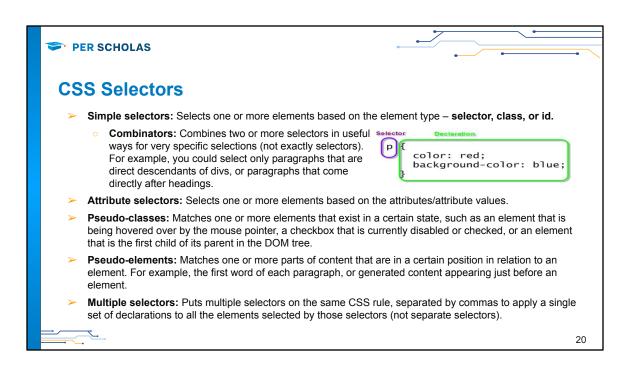
CSS comments are not displayed in the browser, but they can help document and organize your source code, as well as make it more readable.

A CSS comment is placed inside the <style> element, and starts with /* and ends with */.

In CSS, for both single and multiples line comments, you only have to use /* at the beginning and */ at the end of the text you would like to make into a comment; you do not need to add comment indicators -----

on every line.

```
Example
 /* This is a single-line comment */
 /* This is a
 multi-line
 comment */
 p {
   color: red;
```



In CSS, selectors are used to target a group or individual elements in a web page that we want to style. There are a wide variety of CSS selectors available, allowing for fine, grained precision when selecting elements to style.

PER SCHOLAS **Element Type Selectors** A type selector is sometimes referred to as a tag name selector or element selector because it selects an HTML tag/element in your document. <style> The CSS type selector matches elements by node name. body{ In other words, it selects all elements of the given type margin: 0; within a document. h1 { color: red; <body> <h1>External Styles</h1> font-size: 20px; Allow you to define styles for the whole website. This has a style applied via a class. <section> color: green; <h1>CSS Styles</h1> <h2>Different ways to apply CSS styles</h2> p { Inline style color: yellow; 1) 2) Internal style sheet background-color: gray; 3) External style sheet </section> </style> </body>



Simple Selector: Combinators

A CSS selector can contain more than one simple selector. Between the simple selectors, we can include a <u>combinator</u>. Combinators come in the following forms:

- ➤ **Descendant** represented by a single space "" between selectors, selects elements matched by the second selector if they have an ancestor element matching the first selector.
- Child represented by a > between selectors, selects elements matched by the second selector if they are direct children of the element matching the first selector.
- Adjacent Sibling represented by a + between selectors, selects elements matched by the second selector if they are the next sibling element of the element matching the first selector.
- General Sibling represented by a ~ between selectors, selects elements matched by the second selector if they are any sibling element of the element matching the first selector.



Combinators: Descendant Example

Descendant Combinator ()

The <u>descendant combinator</u> () separates two selectors, and matches the second element only if it is a descendant of the first element, regardless of depth.

In the example, <section> is the parent element. The elements are descendants of the <section> element. All elements will be affected.

CSS Block

```
section p {
  color: grey;
}
```

Html Block

Combinators: Child Example

Child Combinator (>)

The <u>child combinator</u> (>) separates two selectors, and matches the second element only if it is a child of the first element.

In the example, <section> is the parent element. The elements are children of the <section> element. Both elements will be affected.

The **child** selector may seem similar to the **descendant** selector, but note that the **child** selector will only affect **direct children** of the parent element, while the **descendant** selector affects **all descendants** of the element, regardless of nesting.

CSS Block

```
section > p {
   color: grey;
}
```

Html Block

```
<section>
    <h2>Bootstrap</h2>
    Lorem ipsum dolor sit amet,
consectetur adipisicing elit.
    Poloribus explicabo incidunt magnam magni nobis.
</section>
```



Combinators: Adjacent Sibling Example

Adjacent Sibling Combinator (+)

The <u>adjacent sibling combinator</u> (+) separates two selectors, and matches the second element only if it immediately follows the first element and both are children of the same parent element.

In the example, <section> is the parent element. <h2> and elements are children of the same parent element. <h2> immediately precedes the first element, but not the second, so only the first element will be affected.

CSS Block

```
h2 + p {
    color: grey;
}
```

Html Block

```
<section>
   <h2>Bootstrap</h2>
   Lorem ipsum dolor sit amet,
consectetur adipisicing elit.
   <div>Separator div does affect adjacent
siblings.</div>
   Copoloribus explicabo incidunt magnam
magni nobis.
</section>
```

Combinators: General Sibling Example

General Sibling Combinator (~)

The general sibling combinator (~) separates two selectors and matches the second element only if it follows the first element (though not necessarily immediately), and both are children of the same parent element.

In the example, <section> is the parent element. <h2> and elements are children of the same parent element. <h2> precedes both of the elements, so they will both be affected.

CSS Block

```
h2 ~ p {
   color: grey;
}
```

Html Block



Simple Selectors: CSS "class" and "id"

CSS **class (.)** and **id (#)** are the most common forms of selectors you can use to style HTML pages. The best part about **class** and **id** is that you can customize the name of the selector as long as you follow the syntax rules. Class and id are attributes that you can assign to any HTML element to give it a custom value. For example:

```
 ... 
<div id="main container"> ... </div>
```

CSS classes are meant to style one or many elements, while id is meant to target a single HTML element only. These custom values can be anything you like; however, make sure to follow these conventions when naming a **class** or **id**:

- Use a descriptive name that starts with a letter or an underscore, never a number or special character.
- If the name consists of more the one word, use camelCase, or separate the words with a dash (-) or an underscore (_).
 - o class="mainContainer" or class="main_container" or class="main-container"

Selectors: Class Example

Class Selector (.)

The <u>class selector</u> (.) matches elements based on their class attributes. The selector will choose all elements with the associated class, regardless of location within the DOM.

In the example, the .red-text class has been assigned to both a <h2> element and one of the elements, and will affect both of those elements.

CSS Block

```
.red-text {
   color: red;
}
```

Html Block

Selectors: id Example

id Selector (#)

The <u>id selector</u> (#) matches elements based on their id attribute. The selector will choose an element with the associated id, regardless of location within the DOM.

In the example, the #mySection id has been assigned to a <section> element, and will affect that entire <section>.

CSS Block

```
#mySection {
   font-weight: bold;
}
```

HTML Block

Selector Precedence

CSS reads its code from top-left to bottom-right, and gives precedence to some selectors over others.

- ➣ If two or more identical rules are to be applied to the same HTML element, the most recent (bottom-most) rule will take precedence.
- Order of appearance becomes relevant when you use the same selector for multiple styles.
- Overall precedence order:
 - o Inline Style.
 - o ID selectors.
 - Child to parent.
 - Class and pseudo-classes.
 - Elements and pseudo-elements.



PER SCHOLAS **Pseudo-Classes** A pseudo-class is used to define a special state of an element. CSS pseudo classes apply styles to the HTML elements based on some characteristics which cannot be specified using element attributes, classes, or IDs. A CSS pseudo-class is a keyword, preceded by a colon (:), added to the end of selectors to specify that you want to style the selected elements, but only when they are in certain state. For example, pseudo-classes can be used to: Style an element when a user mouses over it. Style visited and unvisited links differently. Style an element when it gets focus. Example pseudo-classes include: Syntax of Pseudo-Classes :active :checked selector:pseudo-class { :first-child property: value; :last-child :nth-child

:hover

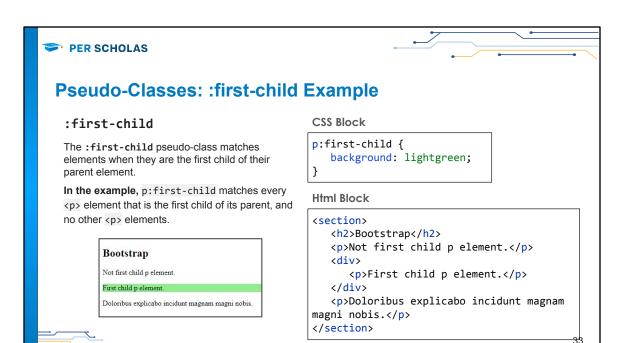
PER SCHOLAS **Example: Anchor Pseudo-Classes** /* unvisited link */ <body> a:link { color: red; <h2>Styling a link depending on state</h2> /* visited link */ <a href="http://perscholas.com"</pre> a:visited { target="_blank">This is a link color: green; Note: a:hover MUST come after a:link and a:visited in the CSS definition in order to be effective. Note: a:active MUST come after a:hover in the CSS definition in order to be /* mouse over link */ a:hover { color: hotpink; effective.

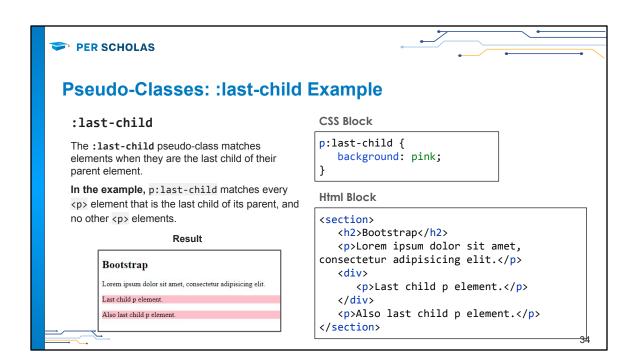
</body>

/* selected link */

a:active {
 color: blue;
}

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PER SCHOLAS Pseudo-Classes: :nth-child() Example **CSS Block** :nth-child() li:nth-child(1) { color: blue; } The :nth-child() pseudo-class matches li:nth-child(2) { color: green; } elements based on their order within their group of li:nth-child(3) { color: orange; } siblings. In the example, li:nth-child() matches every Html Block <1i> element based on its position among its <01> siblings. List Item 1 Result List Item 2 List Item 3 1. List Item 1 2. List Item 2 3. List Item 3 35

Pseudo-Elements

A CSS pseudo-element is used to style specified parts of an element.

Pseudo-elements are very much like pseudo-classes, but they have differences. They are keywords, preceded by two colons (::) that can be added to the end of selectors to select a certain part of an element.

For example, pseudo-elements can be used to:

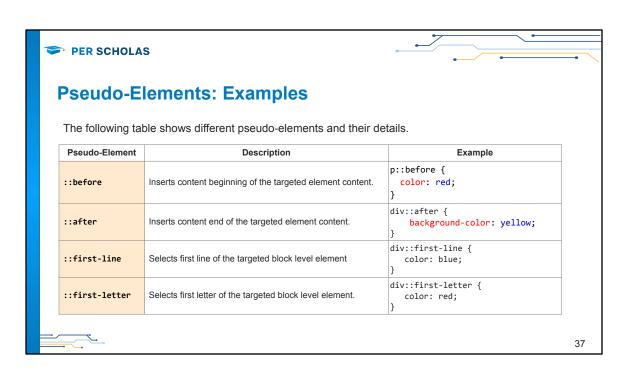
- Style the first letter or line of an element.
- > Insert content before or after the content of an element.

Example pseudo-elements include:

```
::before::after::first-letter::first-line
```

Syntax of Pseudo-Elements

```
selector::pseudo-element {
  property: value;
}
```



HTML Tables

In HTML, you create tables using the element in conjunction with the (table row), (table header), and (table data) elements.

Each element represents a row within the table that it is nested in, and each element represents a table data cell within the row that it is nested in. You can also add table headers using the element.

Click here for a reference on HTML Tables.

HTML Table Sections

Tables can be organized into sections for further clarity.

The <thead>, , and <tfoot> elements represent the different sections of a table. The <caption> element specifies the caption (or title) of a table.

Copy the HTML to the right, into a file named **table.html**. We will use this file as part of a practice activity beginning on the next slide.

```
<caption>Practice Table
 <thead>
    Header1
    Header2
    Header3
   </thead>
 col 1 cell 1
    col 2 cell 2
    col 3 cell 3
   <tfoot>
   footer1
    footer2
td>footer3
   </tfoot>
39
```



Practice Activity: Table Styling

Create a **style.css** file, include this CSS file in your **table.html** file via a **link>** element. If you have not yet created your **table.html** file, refer to the previous slide.

In your style.css file, we will use the type selector to style the table element:

- 1) Add a selector for the td and th elements using the multiple selector (td, th { }).
- 2) To this selector, add a border property with a value of 1px solid red;.
- After adding the border, you will notice that the cells are all separated, which is the initial value for the border-collapse.
- 4) Add the property **border-collapse** to the **table** element with a value of **collapse**.
- 5) The table's width, by default, is the width of the content. Add a width property to the table element with a value of 100%.
- 6) Now let's center the text with the text align property, added to the table element with a value of text-align: center;



Practice Activity: Table Styling Part Two

Using the basic structure and CSS of the previous slide, create the basic layout of a calculator. Expand upon your **style.css** file as shown below, and edit your HTML layout to match the example.

```
table {
  width: 200px;
  height: 300px;
  text-align: center;
  border: 5px solid green;
}

th, td {
  border: 1px solid red;
}

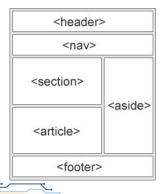
td:hover {
  background-color: lightcoral;
  color: white;
}
```





HTML Layout Elements

You have seen most websites on the internet usually display their content in multiple rows and columns, formatted like a magazine or newspaper to provide the users a better experience. This can be easily achieved by using HTML tags such as <a href="table



- <header> Defines a header for a document or a section.
- <nav> Defines a set of navigation links.
- <section> Defines a section in a document.
- <article> Defines an independent, self-contained content.
- <aside> Defines content aside from the content (like a sidebar).
- <footer> Defines a footer for a document or a section.
- <details> Defines additional details that the user can open and close on demand.
- <summary> Defines a heading for the <details> element.

HTML Content Division Element

<div>

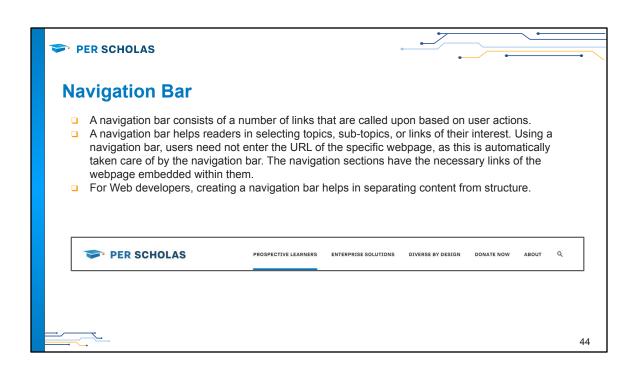
The <div> HTML element is a generic content container that divides content into workable sections. The <div> tag is the most usable tag in web development because it helps to separate data in the web page and create particular sections for particular data or functions.

Inside a <div> tag, we can put more than one HTML element, group them together, and apply CSS to them. The <div> tag is a block-level tag; every <div> tag will start from a new line.

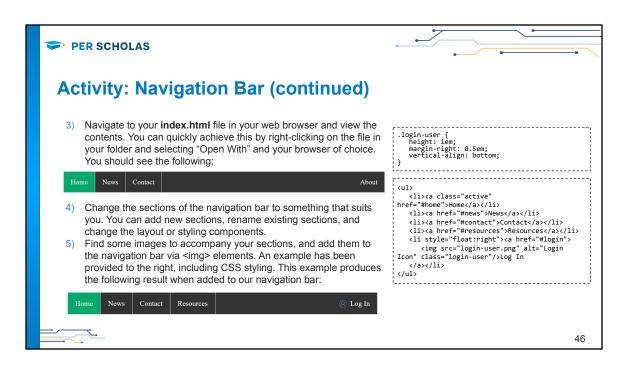
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Doloribus explicabo incidunt magnam magni nobis pariatur quia, rerum int tempora vero.

Result





```
PER SCHOLAS
  Activity: Navigation Bar
                                                                                               ul {
    list-style-type: none;
    margin: 0;
    padding: 0;
    overflow: hidden;
    background-color: #333;
}
   Here, we will build an example navigation bar, and edit its elements
   to fit a desired look and feel.
          Create an HTML file called index.html and add the code below.
         Create a CSS file called style.css and add the code to the right.
                                                                                                li {
   float: left;
   border-right: 1px solid #bbb;
   <!DOCTYPE html>
    <html>
                                                                                                 li:last-child {
   border-right: none;
       <head>
            <title>Creating a Navigation Bar</title>
k rel="stylesheet" href="style.css">
                                                                                                }
                                                                                               li a {
    display: block;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
       <body>
            <l
               <a class="active" href="#home">Home</a>
                <a href="#news">News</a>
                                                                                                li a:hover:not(.active) {
   background-color: #111;
               <a href="#contact">Contact</a>
               <a href="#about">About</a>
            .active {
  background-color: #04AA6D;
}
        </body>
    </html>
                                                                                                                                                   45
```





Navigation Bar Activity Code Break-Down

- display: The display CSS property sets whether an element is treated as a block or an inline element, and the layout used for its children, such as flow layout, grid,or flex. We will cover this property with more detail in later slides.
- <u>list-style-type</u>: The list-style-type CSS property sets the marker (such as a disc, character, or custom counter style) of a list item element.
- <u>text-decoration</u>: This shorthand CSS property sets the appearance of decorative lines on text. It is a shorthand for text-decoration-line; text-decoration-color; text-decoration-style; and the newer, text-decoration-thickness property.
- margin-right: The margin-right CSS property sets the margin area on the right side of an element. A positive value places it farther from its neighbors, while a negative value places it closer to its neighbors.
- <u>background-color</u>: The <u>background-color</u> CSS property sets the background color of an element.



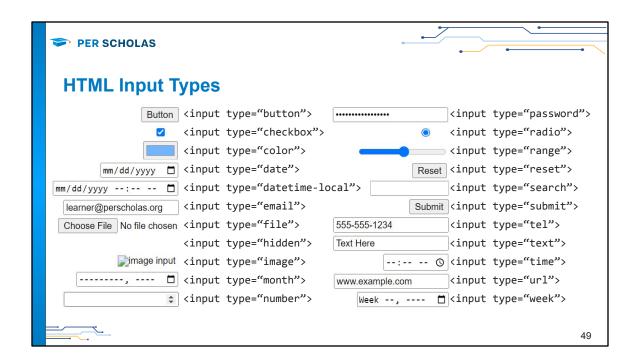
HTML Forms

HTML forms are one of the main points of interaction between a user and a website or application. HTML forms allow users to send data to the website. Most of the time, that data is sent to the web server, but the web page can also intercept it to use on its own, locally.

An HTML form is made of one or more widgets. Those widgets can be:

- text fields (single-line or multi-line),
- select boxes,
- buttons.
- > checkboxes, or
- radio buttons.

Most of the time, these widgets are paired with a label that describes their purpose. Properly implemented labels are able to clearly instruct both sighted and unsighted users on what to enter into a form input.



Example: HTML Forms

- The <form> action attribute is usually used for server processing.
- The <label> is useful for assistive technology.
- If the <input> is nested in the label, you do not need a for attribute. You will need a for attribute with a matching id of the input you are using.
- The <input> element attribute type of text is the default value.
- The <input> name attribute is used when the form data is submitted as a variable.
- The boolean required attribute, if present, indicates that the user must specify a value for the input before the owning form can be submitted.
- The <input> password attribute is a single-line text field whose value is obscured, and will alert the user if the site is not secure.

Example: HTML Forms (continued)

- The <fieldset> HTML element is used to group several controls, as well as labels (<label>) within a web form.
- The <legend> HTML element represents a caption for the content of its parent.
- The <input> checkbox attribute is rendered by default as boxes that are checked (ticked) when activated.
- The <input> radio attribute creates radio buttons. Radio buttons are typically rendered as small circles, which are filled or highlighted when selected. Only one radio button in a given group can be selected at the same time.

```
<fieldset>
   <legend>Checkboxes</legend>
<label for="checkbox">Checkbox1
      <input type="checkbox" name="checkbox" id="checkbox" />
   </label>
   <label for="checkbox2">Checkbox2
      <input type="checkbox" name="checkbox2" id="checkbox2" />
   </label>
   <label for="checkbox3">Checkbox3
      <input type="checkbox" name="checkbox3" id="checkbox3" />
   </label>
</fieldset>
<fieldset>
   <legend>Radio Buttons</legend>
<label>Radio1
      <input type="radio" name="radio" id="radio1" />
   </label><br><label>Radio2
      <input type="radio" name="radio" id="radio2" />
   </label><br
   <label>Radio3
      <input type="radio" name="radio" id="radio3" />
   </label>
</fieldset>
```

PER SCHOLAS **Example: Complete HTML Form (continued)** <form action="#"> <label for="UserName">User Name</label> <input type="text" name="userName" id="UserName" required>
 <label for="password">Password</label> <input type="password" name="password" id="password">

</pr> <fieldset> <legend>Checkboxes</legend> <label for="checkbox">Checkbox1</label><input type="checkbox" name="checkbox" id="checkbox"> <label for="checkbox2">Checkbox2</label><input type="checkbox" name="checkbox2" id="checkbox2"> <label for="checkbox3">Checkbox3</label><input type="checkbox" name="checkbox3" id="checkbox3"> </fieldset>
 <fieldset> <legend>Radio Buttons</legend> <label for="radio1">radio1</label> <input type="radio" name="radio" id="radio1"> <label for="radio2">radio2</label> <input type="radio" name="radio" id="radio2"> <label for="radio3">radio3</label> <input type="radio" name="radio" id="radio3"> </fieldset> </form> For a reference on attributes for input fields, click here.

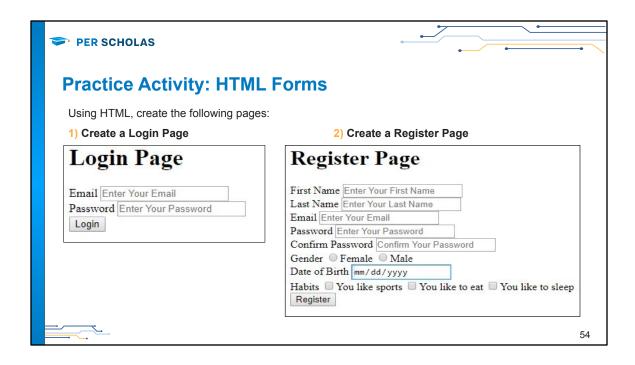
Dropdown Menus in HTML Forms

A dropdown menu allows users to select from a list of predefined values when inputting data into a form.

- The <select> element defines a drop-down list
- The <option> elements defines an option that can be selected.
- By default, the first item in the drop-down list is selected.
- To define a pre-selected option other than the first item in the list, add the selected attribute to the option.

```
<!DOCTYPE html>
(html>
(body>

<h2>The select Element</h2>
The select element defines a drop-down list:
<form action="#">
<label>Choose a car:</label>
<select name="cars">
<option value="volvo">Volvo</option>
<option value="solvo">Saab</option>
<option value="fiat">Fiat</option>
<option value="audi" selected>Audi</option>
<fselect>
<input type="submit">
</body>
</html>
```



Practice Assignment: Page Wireframes

Please follow the links below to the practice assignments for creating page wireframes:

- PA 307.2.1 Create a Wireframe for your Landing Page
- PA 307.2.2 Create a Wireframe for your Login and Registration Pages

You can also find these practice assignments on Canvas under the Assignments section.

If you have questions while performing the activity, ask your instructors for assistance.

Practice Activity: Web Page

Create a simple single web page. Choose any industry, such as family, movies, books, bootique, construction, event organization, or any other idea you like for web page.

- > Try to use a large combination of the HTML and CSS tools that you have learned so far.
- > Provide as much information as you can about the topic, and be creative in your styling.
- Provide at least one hyperlink to an actual website.
- > Add at least one HTML form, such as a registration form, "get a quote" form, etc.
- > After you are finished, take three minutes to present your page.
- Once presentations are done, spend the rest of the time working on your Capstone Project, using the tools and techniques you have learned so far.



Knowledge Check

- What is the Document Object Model?
- What are the four properties that make up the CSS box model?
- What is a CSS property, and how is it assigned a value?
- What is a CSS selector, and how can they be used to apply style to elements?
- What is the difference between inline style, internal style, and external style? Which takes precedence?
- How do you write a comment in CSS?
- > What are combinators, and how are they used to select elements in CSS?
- How do you select a class in CSS? How do you select an id?
- > What is a pseudo-class and what is it used for?
- What is a pseudo-element and what is it used for?





Summary

The Document Object Model (DOM) is a programming interface for HTML and XML documents, which creates an object-oriented representation of the webpage that can be modified by a scripting language such as JavaScript. The basic and fundamental topics of Cascading Style Sheets (CSS) and their relation to HTML include:

- > The Box Model, which describes the space properties of an element within the DOM.
- Cascading Style Sheets (CSS), which is a style sheet language that allows you to selectively apply styles to elements in HTML documents. CSS styles can be applied via inline CSS, internal CSS, or external CSS files, with the latter being the most common implementation.
- Comments in CSS, which are important for organizing and documenting code. CSS has a wide range of available selectors for customizing the style of specific elements.
- HTML tables and forms, which provide ways of organizing and collecting data, and can be styled with CSS to match your desired look and feel.
- Navigation bars, which aid users in quickly traversing content in an organized manner.



