
GenTech



Workshop - 2

Personal Website Development



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Class of 2022



What is HTML?

- Stands for **H**yper **T**ext **M**arkup **L**anguage.
- It is the standard markup language used in building content for the web.
- It consists of **elements** - the building blocks of HTML.
- Elements tell the browser how to display the content.

Examples:

```
<h1>This is a Heading.</h1>
```

```
<p>This is a paragraph.</p>
```

Some Common HTML Elements

Document Metadata

| Element | Description |
|----------------------------|--|
| <code><head></code> | The HTML <head> element contains machine-readable information (metadata) about the document, like its title , scripts , and style sheets . |
| <code><link></code> | The HTML External Resource Link element (<link>) specifies relationships between the current document and an external resource. This element is most commonly used to link to CSS, 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. |
| <code><style></code> | The HTML <style> element contains style information for a document, or part of a document. |
| <code><title></code> | The HTML Title element (<title>) defines the document's title that is shown in a Browser's title bar or a page's tab. |

Some Common HTML Elements

Text Content

| Element | Description |
|--------------------------|---|
| <code><div></code> | The HTML Content Division element (<code><div></code>) is the generic container for flow content. It has no effect on the content or layout until styled in some way using CSS (e.g. styling is directly applied to it, or some kind of layout model like Flexbox is applied to its parent element). |
| <code></code> | The HTML <code></code> element represents an unordered list of items, typically rendered as a bulleted list. |
| <code></code> | The HTML <code></code> element is used to represent an item in a list. |
| <code><p></code> | The HTML <code><p></code> element represents a paragraph. |

Some Common HTML Elements

Content Sectioning

| | |
|---|--|
| <code><footer></code> | The HTML <code><footer></code> element represents a footer for its nearest sectioning content or sectioning root element. A footer typically contains information about the author of the section, copyright data or links to related documents. |
| <code><h1></code> , <code><h2></code> , <code><h3></code> , <code><h4></code> , <code><h5></code> , <code><h6></code> | The HTML <code><h1></code>–<code><h6></code> elements represent six levels of section headings. <code><h1></code> is the highest section level and <code><h6></code> is the lowest. |
| <code><main></code> | The HTML <code><main></code> element represents the dominant content of the <code>body</code> of a document. The main content area consists of content that is directly related to or expands upon the central topic of a document, or the central functionality of an application. |
| <code><nav></code> | The HTML <code><nav></code> element represents a section of a page whose purpose is to provide navigation links, either within the current document or to other documents. Common examples of navigation sections are menus, tables of contents, and indexes. |

THE CODE

```
<!DOCTYPE html>
<html lang="en">

<meta charset="utf-8">
<title>Page Title</title>

<body>
  <h1>This is a Heading</h1>
  <p>This is a paragraph.</p>
  <p>This is another paragraph.</p>
</body>

</html>
```

WHAT IT LOOKS LIKE

<html>

<head>

<title>Page title</title>

</head>

<body>

<h1>This is a heading</h1>

<p>This is a paragraph.</p>

<p>This is another paragraph.</p>

</body>

</html>

Source: https://www.w3schools.com/whatis/whatis_html.asp

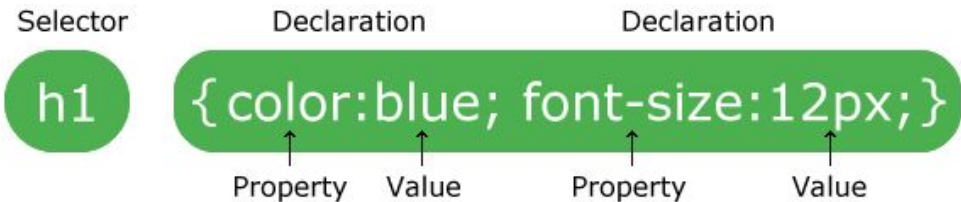


What is CSS?

- Stands for **C**ascading **S**tyle **S**heets.
- It is a style sheet language used for describing how HTML elements are to be displayed in the browser.
- It leverages HTML tag names, id attributes, and class attributes to apply the styles we'd like.

Example:

```
h1 {  
  color: blue;  
  font-size: 12px;  
}
```



THE CODE

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
  background-color: lightblue;
}

h1 {
  color: white;
  text-align: center;
}

#example {
  font-family: verdana;
  font-size: 20px;
}
</style>
</head>
<body>

<h1>Our First CSS Example</h1>
<p id="example">This is a paragraph.</p>

</body>
</html>
```

WHAT IT LOOKS LIKE

Our First CSS Example

This is a paragraph.

Source: https://www.w3schools.com/css/css_intro.asp



What is Bootstrap?

- Bootstrap is a CSS Framework for developing responsive websites.
- It is simply a collection of design templates written using CSS and JavaScript.
- It offers components like form buttons, navigation, as well as other interface components.

Example:

```
<table>
  <tr>
    <th>Name</th>
    <th>Description</th>
  </tr>
  <tr>
    <td>A</td>
    <td>Description of A</td>
  </tr>
  <tr>
    <td>B</td>
    <td>Description of B</td>
  </tr>
</table>
```

Name Description

| | |
|---|------------------|
| A | Description of A |
| B | Description of B |

```
<table class="table table-striped table-bordered">
  <tr>
    <th>Name</th>
    <th>Description</th>
  </tr>
  <tr>
    <td>A</td>
    <td>Description of A</td>
  </tr>
  <tr>
    <td>B</td>
    <td>Description of B</td>
  </tr>
</table>
```

| Name | Description |
|------|------------------|
| A | Description of A |
| B | Description of B |

Other Tools Used

- Google Fonts (<https://fonts.google.com/>)
- Undraw (<https://undraw.co/illustrations>)
- IonIcons(<https://ionicons.com/>)
- FormSpree(<https://formsfree.io/>)

Let's Start!

