



HTML CSS BOOTCAMP

ROSHAN NYAUPANE

**Programs must be written
for people to read, and only
incidentally for machines to
execute**

TABLE OF CONTENTS

01	Introduction to html	05	Forms and Input Elements
02	Anatomy of Html tags	06	Semantic HTML and Best Practices
03	Working with Text and Links.	07	HTML5 Features and Advanced Topics
04	Images, Multimedia, and Forms	08	Project Showcase and Q&A

INTRODUCTION TO HTML

What is HTML?

- HTML stands for HyperText Markup Language.
- It's the standard markup language used to create and design web pages.
- HTML tags tells the browser how to format and display the content.

Basic Structure of HTML

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Title of the Document</title>
</head>
<body>
  <!-- Content goes here -->
</body>
</html>
```


ANATOMY OF HTML TAGS

Opening tags, closing tags, Self-Closing Tag

- `<p>`
- `</p>`
- ``

Attribute and their significance

- Provides additional information and modifying their behavior or appearance.

Example

1. ``
2. `link content`
3. `<input type="text" placeholder="Enter your name" value="">`

HTML div Element

- It is a versatile container used to group together other HTML elements.

ID and class attributes

- The class attribute is used to group HTML elements together and apply CSS styles to them collectively.
- The **id** attribute is used to uniquely identify a specific element on a web page.

TEXT AND LINKS

Text elements

- **Paragraph (<p>):** Used to display paragraphs of text.
- **Heading (<h1> to <h6>):** Used to display headings of different levels.
- **Span ():** Used for styling or grouping inline elements.

Why proper elements is Important?

- Affects how search engines, screen readers, and browsers interpret and display the content.

Link and navigation

- **Anchor (<a>):** Used to create hyperlinks.
- **Image ():** Used to embed images, often within links.
- **Button (<button>):** Used to create clickable buttons, which can also act as links.
- **Navigation (<nav>):** Used to create navigation links.

Position VS Relative Path

- `About Us`
- ``

- `About Us`
- ``

IMAGES AND MULTIMEDIA

Image

```

```

Multimedia (Video and Audio):

- Video

```
<video controls>
```

```
  <source src="video.mp4" type="video/mp4"> Your browser does not support the video tag.
```

```
</video>
```

- Audio

```
<audio controls>
```

```
  <source src="audio.mp3" type="audio/mp3"> Your browser does not support the audio tag.
```

```
</audio>
```

HTML INPUT AND FORMS

Forms

- **Email Input**

<label for="email">Email:</label>

<input type="email" id="email" name="email" required>

- **Date Input**

<input type="date" id="birthdate" name="birthdate">

- **Number Input**

<input type="number" id="quantity" name="quantity" min="1" max="10">

- **File Input**

<input type="file" id="avatar" name="avatar">

- **Checkbox and Radio Button**

<input type="checkbox" id="subscribe" name="subscribe" checked>

<input type="radio" id="male" name="gender" value="male">

- **Color Input**

<input type="color" id="color" name="color">>

HTML INPUT AND FORMS

Forms

- **Dropdown**

```
<select name="country">  
  <option value="usa">United States</option>  
  <option value="canada">Canada</option>  
  <option value="uk">United Kingdom</option>  
</select>
```

HTML LIST

Forms

- **Ordered List ():**

An ordered list is a list where each item is numbered

```
<ol>
```

```
<li>First item</li>
```

```
<li>Second item</li>
```

```
</ol>
```

- **Description List (<dl>):**

An ordered list is a list where each item is numbered

```
<dl>
```

```
<dt>Coffee</dt>
```

```
<dd>- black hot drink</dd>
```

```
<dt>Milk</dt>
```

```
<dd>- white cold drink</dd>
```

```
</dl>
```

- **Unordered List ():**

An ordered list is a list where each item is numbered

```
<ul>
```

```
<li>First item</li>
```

```
<li>Second item</li>
```

```
</ul>
```

- **Nested List ():**

An ordered list is a list where each item is numbered

```
<ul>
```

```
<li>Item 1</li>
```

```
<li>Item 2
```

```
<ul>
```

```
<li>Subitem 1</li>
```

```
<li>Subitem 2</li>
```

```
</ul>
```

```
</li>
```

```
<li>Item 3</li>
```

```
</ul>
```

HTML TABLE

Table

```
<table>
  <tr>
    <th>Person 1</th>
    <th>Person 2</th>
    <th>Person 3</th>
  </tr>
  <tr>
    <td>Emil</td>
    <td>Tobias</td>
    <td>Linus</td>
  </tr>
  <tr>
    <td>16</td>
    <td>14</td>
    <td>10</td>
  </tr>
</table>
```

SEMANTIC HTML AND BEST PRACTICES

Introduction

Semantic HTML refers to the practice of using HTML elements in a way that accurately represents the content's meaning and structure.

Why semantic HTML?

- It enhances the accessibility.
- SEO

Semantic Vs non Semantic

```
<header>  
  <div class="logo">Logo</div>  
  <nav>Menu</nav>  
</header>
```

```
<div class="header">  
  <div class="logo">Logo</div>  
  <div class="menu">Menu</div>  
</div>
```

SEMANTIC HTML AND BEST PRACTICES

```
<nav>
```

```
  <a href="/html/">HTML</a> |
```

```
  <a href="/css/">CSS</a> |
```

```
</nav>
```

```
<aside>
```

```
  <h3>Related Content</h3>
```

```
  <p>Additional information...</p>
```

```
</aside>
```

```
<section>
```

```
  <h2>Home Section</h2>
```

```
  <p>Section content...</p>
```

```
</section>
```

```
<section>
```

```
  <h2>Skills Section</h2>
```

```
  <p>Section content...</p>
```

```
</section>
```

```
<footer>
```

```
  <p>&copy; 2024 Example Company</p>
```

```
</footer>
```

CUSTOM ELEMENTS

```
<my-custom-element>
```

```
</my-custom-element>
```

```
<!-- Custom Element Definition -->
```

```
<script>
```

```
  class MyCustomElement extends HTMLElement {  
    constructor() {  
      super(); // Custom element implementation...  
    }  
  }
```

```
  customElements.define('my-custom-element', MyCustomElement);
```

```
</script>
```


TASKS 1