

HTML 4

Hypertext Markup Language

Objectives

- ❖ To Equip students with knowledge of HTML4 and its tags.
- ❖ To use tags and their attributes for Webpage development.

Outcomes

- ❖ At the end of this presentation, students are expected to learn
 - Basic features of HTML.
 - Create an HTML4 document with simple tags.
 - Able to create forms, build tables and add images to the HTML document.

Introduction

- ❖ HTML stands for HyperText Markup Language.
- ❖ It describes the structure of Web pages.
- ❖ HTML elements are the building blocks of HTML pages which are represented by HTML tags.

Introduction

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Document</title>
</head>

<body>
  <h1>
    My first HTML page.
  </h1>
  <h2>
    Basic and Simple HTML tags.
  </h2>
  <h3> Paragraph Tag</h3>
  <p>
    Browsers do not display the tags, but use these tags to render content on
    the screen.
  </p>
</body>

</html>
```

My first HTML page.

Basic and Simple HTML tags.

Paragraph Tag

Browsers do not display the tags, but use these tags to render content on the screen.

HTML Tags

- ❖ Tags are used to markup elements.
- ❖ Each tag is surrounded by two characters < and >.
- ❖ Tags are generally found in pairs of start and end tag like and <\b>.
- ❖ HTML Tags are not case sensitive.
- ❖ HTML also has self-closing tags that do not require end tags like img, input.
- ❖ Tags can have attributes, that provide additional information about these elements.
- ❖ Nested tags can also be used in HTML, the last tag opened should be the first tag closed.

Basic HTML Document

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Document</title>
</head>

<body>
  <h1>
    Add your HTML content here.
  </h1>
  <!-- this is a comment -->
</body>

</html>
```


Basic HTML Document

```
<!DOCTYPE html>    ← Instructs the web browser about the version of HTML used
<html lang="en">    ← Specifies the language of HTML content

<head>              ← contains meta information about the document
|
|  <meta charset="UTF-8">    ← defines the character format(Unicode Text Format)
|  <meta name="viewport" content="width=device-width, initial-scale=1.0">
|  <meta http-equiv="X-UA-Compatible" content="ie=edge">
|  <title>Document</title> ← Goes on browser's title bar (does
|                               not appear in the document)
|
|  </head>    ← Closing of head tag
```


Basic HTML Document

- ❖ `<meta name="viewport" content="width=device-width, initial-scale=1.0">` : Viewport is user's visible area of a web page. This tag is needed to support responsiveness, the content width should be equal to the device width and the initial scale defines the default zoom factor.
- ❖ `<meta http-equiv="X-UA-Compatible" content="ie=edge">` : This tag is required to support microsoft edge

Basic HTML Document

```
<body>      ← Start of body tag
|
|  <h1>
|  |   Add your HTML content here. ← All HTML content is
|  |                                   added inside body
|  |                                   tag
|  |  </h1>
|  |  <!-- this is a comment --> ← Comment in html
|  |                                   document
|  </body> ← Closing of body tag
</html> ← Closing of html tag
```

HTML Tags

- ❖ Headings are defined with <h1> to <h6> tags.
- ❖ Paragraph tag : <p>
- ❖ Line Break tag:

- ❖ Bold text tag:
- ❖ Italicize text: <i>
- ❖ Underline text: <u>

HTML Tags

```
<body>
  <h1>Heading 1</h1>
  <h2>Heading 2</h2>
  <h3>Heading 3</h3>
  <h4>Heading 4</h4>
  <h5>Heading 5</h5>
  <h6>Heading 6</h6>
  <p><b>Paragraph Tag:</b>
    <br> A paragraph tag can contain huge amount of information. All text in a
    website is generally written using
    this tag.
    There can be a line break within p tag
    <br>

    Paragraph can also contain <b>bold</b>, <i>italicized</i> and
    <u>underlined</u> text.
  </p>
</body>
```

Heading 1

Heading 2

Heading 3

Heading 4

Heading 5

Heading 6

Paragraph Tag.

A paragraph tag can contain huge amount of information. All text in a website is generally written using this tag. There can be a line break within p tag. Paragraph can also contain **bold**, *italicized* and underlined text.

Important HTML Tags

- ❖ Anchor tag
- ❖ Lists tag
- ❖ Image tag
- ❖ Table tag
- ❖ Forms tag

Anchor Tag

- ❖ In HTML, links are defined with `<a>` tag
- ❖ `Text`
 - href specifies the destination address
 - Text is the visible part on screen
- ❖ Attributes of anchor tag:
 - target: specifies where to open the linked document
 - title: specifies extra information about an element

```
<a href="google.com" target="_blank">Click Me</a>  
<!-- Only Click Me will be seen on the screen -->
```

[Click Me](http://google.com)

Lists Tag

- ❖ Lists can be defined in three ways in HTML
 - Unordered list
 - Ordered list
 - Descriptive list

```
<ul><b>Unordered List</b>
  <li>list item 1</li>
  <li>list item 2</li>
  <li>list item 3</li>
</ul>
<ol><b>Ordered List</b>
  <li>list item 1</li>
  <li>list item 2</li>
  <li>list item 3</li>
</ol>
```

Unordered List

- list item 1
- list item 2
- list item 3

Ordered List

1. list item 1
2. list item 2
3. list item 3

Lists Tag

```
<dl><b>Discriptive List</b>
  <dt>Description Term 1</dt>
  <dd>Description Defintion </dd>
  <dt>Description Term 2</dt>
  <dd>Description Defintion</dd>
</dl>
```

Discriptive List
Description Term 1
Description Defintion
Description Term 2
Description Defintion

Image Tag

- ❖ Attributes of images tag are
 - src: to specify the url of the image
 - alt: defines an alternate text for image that is used in case the image cannot be displayed

```
<h1>Image</h1>

<p>If not able to find image(in case of wrong address or image not present</p>

```

Image Tag

Image



If not able to find image

 The NorthCap University

Table Tag

- ❖ `<table>` tag is used to create a table
- ❖ Table row is defined with `<tr>` and table header is defined with `<th>` tag
- ❖ Table data/cell is defined with `<td>` tag
- ❖ Table hierarchy needs to be maintained while creating the table

Table Tag

S No.	Table Heading 1	Table Heading 2
1	Some Data	Some data
2	Some Data	Some data
3	Some Data	Some data

```
<table>
  <tr>
    <th>S No.</th>
    <th>Table Heading 1</th>
    <th>Table Heading 2</th>
  </tr>
  <tr>
    <td>1</td>
    <td>Some Data</td>
    <td>Some data</td>
  </tr>
  <tr>
    <td>2</td>
    <td>Some Data</td>
    <td>Some data</td>
  </tr>
  <tr>
    <td>3</td>
    <td>Some Data</td>
    <td>Some data</td>
  </tr>
</table>
```


Forms Tag

- ❖ `<form>` element defines a form that is used to collect user input
- ❖ Input tag in form can be defined in multiple ways:
 - `<input type= "text">` To define one line text
 - `<input type= "radio">` defines a radio button
 - `<input type= "submit">` defines a submit button
- ❖ Attributes of form tag are:
 - action: to be performed when a form is submitted
 - target: screen to open the submitted result
 - method: HTTP method(GET or POST) to be used while submitting the form

Forms Tag

Forms in HTML

Enter Name

Enter Password

Select Gender ☐ Male ☐ Female

```
<h1>Forms in HTML</h1>
<form action="" method="POST">
  <table>
    <tr>
      <td>Enter Name</td>
      <td><input type="text" name="username"></td>
    </tr>
    <tr>
      <td>Enter Password</td>
      <td>
        <input type="password" name="Password">
      </td>
    </tr>
    <tr>
      <td>Select Gender</td>
      <td>
        <input type="radio" id="male" name="Gender" value="m"><label
for="male">Male</label>
        <input type="radio" id="female" name="Gender" value="f"><label
for="female">Female</label>
      </td>
    </tr>
    <tr>
      <td><input type="Submit" value="Submit"></td>
    </tr>
  </table>
</form>
```

Form Handling

Choose Country

India ▼

Select Programming ☒ JAVA ☒ Python ☒ Javascript ☒ PHP

Choose File

Choose File No file chosen

Submit

```
<body>
  <h1>Form Handling</h1>
  <form action="#" method="post">
    <table>
      <tr>
        <td>Choose Country</td>
        <td>
          <select name="" id="">
            <option value="in">India</option>
            <option value="us">USA</option>
            <option value="ml">Maldives</option>
            <option value="uk">UK</option>
            <option value="fr">France</option>
            <option value="ge">Germany</option>
          </select>
        </td>
      </tr>
      <tr>
        <td>Select Programming</td>
        <td>
          <input type="checkbox" name="" id="">JAVA
          <input type="checkbox" name="" id="">Python
          <input type="checkbox" name="" id="">Javascript
          <input type="checkbox" name="" id="">PHP
        </td>
      </tr>
      <tr>
        <td>Choose File</td>
        <td><input type="file"></td>
      </tr>
      <tr>
        <td><input type="Submit" value="Submit"></td>
      </tr>
    </table>
  </form>
</body>
```


References

- ❖ W3Schools. Link: <https://www.w3schools.com/html/default.asp>
- ❖ World Wide Web Consortium. Link: <https://www.w3.org/>
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Video References

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<https://www.youtube.com/watch?v=dD2EISBDjWM>
- ❖ HTML Crash Course for Absolute Beginners. Link:
<https://www.youtube.com/watch?v=UB1O30fR-EE>
- ❖ Introduction to HTML Programming. Link:
<https://www.youtube.com/watch?v=fS7w-TXinPE>



Thank You