HTML

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for Web pages.
- With HTML you can create your own Website.
- HTML is easy to learn
- The <! DOCTYPE html> declaration defines that this document
- The <html> element is the root element of an HTML page
- The <head> element contains meta information about the HTML page
- The <title> element specifies a title for the HTML page
- The <body> element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- The <h1> element defines a large heading
- The element defines a paragraph

HTML Documents

All HTML documents must start with a document type declaration: <! DOCTYPE html>.

The HTML document itself begins with <html> and ends with </html>.

The visible part of the HTML document is between <body> and </body>

```
<!DOCTYPE html>
<html>
<body>
<h1> My First Heading</h1>
My First Paragraph
```

```
</body>
```

The <!DOCTYPE> Declaration

The <!DOCTYPE> declaration represents the document type, and helps browsers to display web pages correctly.

It must only appear once, at the top of the page (before any HTML tags).

The <! DOCTYPE> declaration is not case sensitive.

The <! DOCTYPE> declaration for HTML5 is:

<!DOCTYPE html>

HTML Headings

HTML headings are defined with the <h1> to <h6> tags.

<h1> defines the most important heading. <h6> defines the least important heading:

```
<h1>This is headin
g 1 </h1>
<h2>This is heading 2 </h2>
------
<h6>his is heading 6 </h6>
```

HTML Tags

HTML Paragraphs

HTML paragraphs are defined with the tag:

Example

```
This is a Paragraph
This is a another Paragraph
```

HTML Horizontal Rules

The <hr> tag defines a thematic break in an HTML page, and is most often displayed as a horizontal rule.

The <hr> element is used to separate content (or define a change) in an HTML page:

Example

```
<h1>This is heading 1</h1>
Text
<hr>
<h2>This is heading 2</h2>
Text 1
<hr>
```

HTML Line Breaks

The HTML
 element defines a line break.

Use
 if you want a line break (a new line) without starting a new paragraph:

Example

This is
br>a paragraph
br>with line breaks.

The HTML Style Attribute

Setting the style of an HTML element, can be done with the style attribute.

The HTML style attribute has the following syntax:

```
<tagname style="property:value;">
```

Background Color

Example

Set the background color for a page to powderblue:

```
<body style="background-color:powderblue;">
```

<h1>Headinf</h1>

Paragraph

Text Color

Example

```
<h1 style="color:blue;">Heading</h1>
```

Paragraph

Fonts

Example

```
<h1 style="font-family:verdana;">Heading</h1>
```

Paragraph

Text Size

Example

```
<h1 style="font-size:300%;">Heading</h1>Paragraph
```

Text Alignment

Example

```
<h1 style="text-align:center;">Centered Heading</h1>Centered Paragraph
```

HTML Formatting Elements

Formatting elements were designed to display special types of text:

- Bold text
- Important text
- <i>- Italic text
- Emphasized text
- <mark> Marked text
- <small> Smaller text
- Deleted text
- <ins> Inserted text
- <sub> Subscript text
- <sup> Superscript text

HTML Comment Tags

You can add comments to your HTML source by using the following syntax:

<!-- Write your comments here -->

HTML Images Syntax

The HTML tag is used to embed an image in a web page.

Images are not technically inserted into a web page; images are linked to web pages. The tag creates a holding space for the referenced image.

The tag is empty, it contains attributes only, and does not have a closing tag.

The tag has two required attributes:

- src Specifies the path to the image
- alt Specifies an alternate text for the image

Syntax

Image Size - Width and Height

You can use the Style attribute to specify the width and height of an image.

Example

HTML Links

HTML links are defined with the <a> tag:

Example

This is a link

The href Attribute

The <a> tag defines a hyperlink. The href attribute specifies the URL of the page the link goes to:

Example

Visit W3Schools

HTML Lists

HTML lists allow web developers to group a set of related items in lists.

Unordered HTML List

An unordered list starts with the tag. Each list item starts with the tag.

The list items will be marked with bullets (small black circles) by default:

```
    Coffee
    Tea
    Milk
```

Value Description

```
disc Sets the list item marker to a bullet (default)
```

circle Sets the list item marker to a circle

square Sets the list item marker to a square

none The list items will not be marked

Example - Disc

```
CoffeeTeaMilk
```

Ordered HTML List

An ordered list starts with the <0l> tag. Each list item starts with the tag.

The list items will be marked with numbers by default:

Example

```
    Coffee
    Tea
    Milk
```

The type attribute of the
 tag, defines the type of the list item marker:

Type Description

```
    type="1" The list items will be numbered with numbers (default)
    type="A" The list items will be numbered with uppercase letters
    type="a" The list items will be numbered with lowercase letters
    type="I" The list items will be numbered with uppercase roman numbers
    type="i" The list items will be numbered with lowercase roman numbers
```

Numbers:

```
    Coffee
    Tea
    Milk
```

HTML Description Lists

HTML also supports description lists.

A description list is a list of terms, with a description of each term.

The <dl> tag defines the description list, the <dt> tag defines the term (name), and the <dd> tag describes each term:

```
<dl>
<dt>Coffee</dt>
<dd>Black Hot drink</dd>
<dt>Milk</dt>
```

<dd>White Cold Drink</dd>

</dl>

Define an HTML Table

The tag defines an HTML table.

Each table row is defined with a <tr> tag. Each table header is defined with a <th> tag. Each table data/cell is defined with a <td> tag.

By default, the text in elements are bold and centered.

By default, the text in elements are regular and left-aligned.

```
A simple HTML table:
```

```
First Name
Last Name
Age
```

```
Eve
Jackson
98
```

HTML Table - Add a Caption

To add a caption to a table, use the <caption> tag:

HTML Table - Cell that Span Many Columns

To make a cell span more than one column, use the **colspan** attribute:

Example

```
Name

> Name

colspan="2">Telephone

Sill Gates

9888878787
```

To make a cell span more than one row, use the **rowspan** attribute:

```
Name:
BillGates
```

```
Telephone:
> (th) > 578787

2

2

2

2

<
```

HTML form

The HTML <form> element is used to create an HTML form for user input:

<form>

formelements

</form>

The <form> element is a container for different types of input elements, such as: text fields, checkboxes, radio buttons, submit buttons, etc.

Type	Description
<input type="text"/>	Displays a single-line text input field
<input type="radio"/>	Displays a radio button (for selecting one of many choices)
<input type="checkbox"/>	Displays a checkbox (for selecting zero or more of many choices)
<input type="submit"/>	Displays a submit button (for submitting the form)
<input type="button"/>	Displays a clickable button

Text Fields

The <input type="text"> defines a single-line input field for text input.

Example

A form with input fields for text:

Radio Buttons

The <input type="radio"> defines a radio button.

Radio buttons let a user select ONE of a limited number of choices.

Example

A form with radio buttons:

```
<form>
<input type="radio" name="gender">Male
<input type="radio" name="gender">Female
</form>
```

Checkboxes

The <input type="checkbox"> defines a checkbox.

Checkboxes let a user select ZERO or MORE options of a limited number of choices.

Example

A form with checkboxes:

The Submit Button

The <input type="submit"> defines a button for submitting the form data to a form-handler.

The form-handler is typically a file on the server with a script for processing input data.

The form-handler is specified in the form's action attribute.

Example

A form with a submit button:

```
<form>
First Name:<br>
<input type="text" name="fname"><br>
Last Name:<br>
```

```
<input type="text" name="lname"><br>
<input type="submit" value="Submit">
</form>
```

HTML Video

To show a video in HTML, use the <video> element:

Example

The HTML <audio> Element

To play an audio file in HTML, use the <audio> element:

Example

```
<audio>
<source src="horse.ogg" type="audio/ogg">
<source src="horse.mp3" type="audio/mpeg">
</audio>
```

HTML Iframes

An HTML iframe is used to display a web page within a web page.

The HTML <iframe> tag

Syntax

<iframe src="url" title="description">

Iframe - Set Height and Width

Use the height and width attributes to specify the size of the iframe.

The height and width are specified in pixels by default:

Example

```
<iframe src="demo_iframe.htm" height="200" width="300" title="Iframe
Example"></iframe>
```

Iframe - Remove the Border

By default, an iframe has a border around it.

To remove the border, add the style attribute and use the CSS border property:

Example

<iframe src="demo_iframe.htm" style="border:none;" title="Iframe Example"></iframe>