

Chapter 0 - Introduction

HTML - Hyper Text Mark Up Language

HTML is the language of the Web. It is used to create websites
We use HTML tags to define look & feel of a website

With understanding of these tags and thow to but them together, we can create beautiful websites easily!

Then Why CSS & Java Script
HTML is used for defining layout of a page - A parebone
page structure

C55 is used to add styling to that barebone page created using HTML

Java Script is used to program logic for the page layout eg. What happens when a user hovers on a text, when to hide or show elements etc:

A Beautiful analogy

HTML = Car body (only metal)

CSS = Car paint, decoration etc.

JavaScript = Car engine + Interior logic

he will start learning how to build beautiful layouts in this course.



Installing V5 Code
We can use any fext colitor of our choice. Here I
Am using V5 Code because it is light weight, opensource
& from Microsoft.

Go to google, type V5 code & install it

Note: You can write HTML even in Notepad. Text editors like V5 Code just makes these things casicr.



| Cha | bler 1- | Creating | owr | first | Website |
|-----|---------|----------|-----|-------|---------|
| | | | | 1 | |

We start building a website by creating a file named index html index html is a special filename which is presented when the website root address is typed.

A Basic HTML Page

∠! Doctype html > → Specifies this is an html 5 doc
<html> → root of an HTML page
<head> → Contains page metadata

< title > Harry's Website </title> -> Contains title

</head>

</body> -> Closing body tag </html> ->

A tag is like a container for either content or other HTML

Browser

Head & body tags are children of HTML tag.

HTML is the parent of Head & Body tags

Most of the HTML elements have opening & closing tag with content in between opening & closing tags.

Some HTML tags have no Content These are called Empty elements egebt>



We can either use htm or html extension

You can use "Inspect Element" or "View Page Source" option from

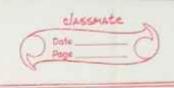
chrome to look into a Website's HTML Code.

HTML element = Stort tag + lonkent + End tag

Comments in HTML are used to mark text which should not be parsed. They can help document the source code.

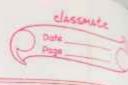
<1-- HTML Comment -->

Case Sensitivity
HTML is a case insensitive language ZH17 and <h1>
tags are the Same.



Chapter 1 - Practice Set

- 1 Inspect your favorite website and change something on the page which is displayed.
- 2 Go to your favorite website and try to view the page source and write the exact lines of code. Does it clone the website! why?
- 3 Write any HTML code inside a text file. Does it work if you write it using notepad?



Chapter 2 - Basic HTML Tags

We can add elements inside the body tag to define the page layout

HTML Element Everything from starting to the ending tag

HTML Attributes

Used to sadd more information corresponding to an HTML tag.

Fxample: La href="https://codewithhavry.com/"> Harry

Net attribute

We can either use single or double greaks in attributes

The Heading Tag

Heading tag is used to mark headings in HTML.

From h1 to h6, we have tags for the most important
to the least least important heading.

 Another heading H2 </h2>

 Another heading H2 </h2>

 Another heading H3 </h3>

 Another heading H4 </h4>

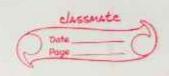
 Another heading H4 </h4>

 Another heading H4 </h>

 Another heading H5 </h5> Note We should not use

HTML headings to make text thick or bold

< h6> Another heading H6 </h6>



The Paragraph Tag
Paragraph tags are used to add paragraphs to an HTML
page

<P> This is no paragraph

The Anchor Tag

The Anchor tag is used to add links to an existing content inside on HTML page.

 Click me 2/a>

The img Tag is used to sald images in an HTML page

Bold, italic and underline tags
We can use bold, italic and underline tags to highlight the
text as follows:

This is bold

 Lis This is Italic

 Lis This is underline

The britag is used to create line breaks in an HTML document

big and small tags
We can make the text a bit larger and a bit smaller using big and small tags respectively.

Subscript & superscript
We san add subscript and superscripts in HTML as follows:

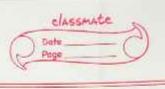
< sub > this </sub> is subscript < sup > this </sub> is superscript

pre tag HTML always ignores extra spaces and newlines. In order to display a piece of text as is, we use pre tag

∠pre>
This is written

using pre ⇒ Rendered as-is

the



Chapter 2 - Practice Set

1 Create an HTML page with a heading (title heading), a primary heading and a subheading.
Which tags did you use?

2 Create a page with 5 wallpaper images taken from the internet

3 Use br and hr tags to display a piece of text with limebreaks.

I Try to write the following Chemical equation using HTML.

 $C + O_2 \longrightarrow CO_2$

5 Try to write a wikipedia article using HTML.



Chapter 3 - Creating a page layout

When we use the right tag in right place, it results in a better page layout, better indexing by search engines and better user experience.
We use the following tag to get the job done

< header > | I Contains now tag < main > | Website layout < footer >

Inside the main tag we insert the following tags:

<main> -> The main opening tag

< Section> -> A page Section <article> -> a self contained content

<aside> → Content aside from the Content (eg Ads etc)

-/main> → The main closing tag

Creating a page like this is not necessary but it Creates a readable & structured layout. Also they are useful for SEO.

Link attributes

 Contact US - Contact page opens in Same that

 Contact us

Lopens in a new fab

We can put any content inside an anchor tog (images, headings etc are all allowed)



If the page is inside a directory, we need to make sure that we link to the correct page. he san add links to images like this < ing src='a.spg' width="120">
 Height will be set automatically. The Div tag

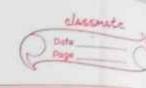
Jiv tag is often used as a container for other elements.

div is a block level element.

Land Always takes full width The span tag

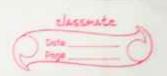
Span is an inline Container.

Ly Takes as much width as necessary



Chapter 3 - Practice Set

- 1 Create an SEO friendly westite using HTML.
- 2 (cote an HTML page which opens google when clicked on an image
- 3 Create a website which has your 5 top used websites bookmarked. The links should open in a new tabe



| Chap | ter 4 | _ | Lists. | tables | 8 | forms |
|------|-------|---|--------|--------|---|-------|
| | | | | | - | 1 |

Lists

Lists are used to display content which represents a list

Unordered list: Used to list unordered items

=li> Home =/li>

About 4/ li>

ordered list: used to list ordered items

> Phone 2/li>

Pc

Laptop

4/01>

The 2 table > tag is used to define tables in HTML II is used to format 8 display tabular data

to tag: used to display table row to tag: used to display table data

th tag: used in place of table data for displaying table headers

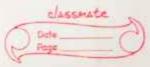
We can define as many table rows as we want.

To add a caption to the table, we use captions tag inside table. thead tag: Used to wrap table head [Caption & tx withth] tody tag: used to wrap the table body. Colspan attribute
This attribute is used to create cells spanning multiple wmms:

Colspan = "3" > Harry

Ly Spans 3 Columns An HTML form is used to collect input from the user form tog is used for the same <form >
-- Element of the form --There are different form elements for different kinds of user input submit we also have a file type attribute non be used to size the textarea.

> select element: Defines a drop down list



Note: you don't have to remember all the tags, you will automatically memorize them with practice Embedding Videos
Video tag is used to play videos in HTML < Video Src = harry mp + > Error =/video> Attribute for video Width: To adjust width of a vide (Height automatically adjusts)
We can use autoplay/loop to autoplay or loop the video.

Chapter 4 - Practice Set

I Create an HTML page with video embedded inside it.

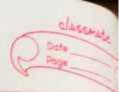
Replace this video in I with a youTube video.

3 Create an HTML form for a travel website to book a vacation

4 Greate a table displaying Score of wickel players in a match using HTML.



| | Chapter 5 - SEO |
|----|--|
| | We will focus only on HTML standpoint of SEO We will not be looking into keyword building and content optimize aspect of SEO |
| 1 | Types of SEO On page SEO Can be done by HTML developers Off page SEO |
| - | HTML SEO HTML developers can implement SEO using the following techniques: |
| | Set the title very nice & to the point |
| | Set the meta description |
| | <pre> <pre> / meta name = "description" (onknt = "" > </pre></pre> |
| 3> | Set a nice URL Slug |
| | Set the meta keywords tog. |
| 5, | Set the meta author tag |
| | < meta name = "author" (ontent = "Harry"> |
| 62 | Set a faricon |



- 7 Compress images & other resources
- 8 Remove unused HTML/css & Js files + Compress them
- a Add alt text to images