YT - youtube

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HTML

Introduction - 1

HTML- Hyper Text Markup Language

HTML is the language of the Web. It is used to create websites

We use HTML tags to define look and feel of a website

With understanding of these tags and How to put them together, we can create beautiful website easily

Then Why CSS and JavaScript

- HTML - used for defining layout of a page - A barebone page structure
- CSS - used to add styling to that barebone page. created using HTML
- Javascript - 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

Creating our first Website - 2

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>  → specifier this is an html 5 dox
<html>           →  root of an HTML page
<head>           →  contains page metadata
<title> Manish's website </title>  →  title
</head> → head closed
<body>  →  Main body of the page • rendered by browser
<h1> Heading </h1>  → heading tage
<p> paragraph </p>  → paragraph tage
</body> → closing body tage
</html>
```

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

Imp notes

- Head and body are children of HTML tag
- HTML is the parent of Head and Body tags
- Most of the HTML elements have opening and closing tag with content in between opening and closing tags.
- Some HTML tags have no content, These are called Empty elements eg
- 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 = start tage + content + End tag

Comments in HTML

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

<!-- HTML Comment -->

HTML is not Case Sensitiv

HTML is a case insensitive language.
<H1> and <h1> both tags are the same.

<—— VTMH torion —→

Basic HTML Tags - 3

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

HTML Element
Everything from starting to the ending tag
`<body>` → opening tag
content
`</body>` → closing tag

HTML Attributes
Used to add more information corresponding to an HTML tag

anchor tag
Ex- `<a href="https://codewithharry.com/">`
href attribute   Harry `</a>`

We can either use single or double quates 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 important heading.

`<h1>` Most important heading `</h1>`

`<h2>` Another heading H_2 `</h2>`

⋮

`<h6>` least important heading `</h6>`

Note- We should not use HTML heading to make text thick or bold.

The Paragraph Tag

Paragraph tags are used to add paragraphs to an HTML page.

`<P>` This is a paragraph `</P>`

The Anchor Tag

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

`<a href="https://google.com">` click me `<a>`

↓

tag → target="_blank"

it will generate a new tab for the given link.
link will open on a new tab

The img Tag

img tag is used to add images in an HTML page

```
<img src="image.Jpg" alt="image" />
```

When image not found this will show

We can custome the size of image. we should custome either width or height

```
<img src="image.jpg" width="300" alt="img">
```

The video audio tag

Play audion in website

```
<audio src="audio.mp3" controls loop>
              audio </audio>
```

```
<video src="video.mkv" controls loop>
           a video </video>
```

Bold, italic and underline tags

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

```
<b> This is bold </b>
<i> This is italic </i>    | <em>---</em>
<u> This is underline </u>
```

br tag

The br tag is used to create line breaks in an HTML document.

```
<br>
```

hr tag

<hr> tag in HTML is used to create a horizontal ruler (line) often used to separate the content.

```
<hr>
```

pre tag

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

```
<pre> Hi    Hello</pre>
```

Tags.	Description

\<strong\> ------- This is a logical tag. which tells the browser that the text is important.

\<mark\> ------- This tag is used to highlight text. Hello

\<tt\> ------- This tag is used to appear a text in teletype tt

\<strike\> ------- draw a strikethrough on a section of text. Hello

\<sup\> ------- superscript text displays the content slightly above the normal line $2 + 4^2$

\<sub\> ------- subscript text displays the content slightly below the normal line. H_2O

\<big\> ------- Increase the font size

\<small\> ------- Decrease the font size

... text ... ---------- <strong>

... ---------- <font>

... ---------- <h1>

... a word ---------- <blink>

... ---------- <sup>

... ---------- <b>

... text size ---------- <big>

<small> ---------- Presence the font size

Creating a page layout-4

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

```
<header>
<main>
<footer>
```

Inside the main tag we insert the following tags:

```
<main>
<section> → A page section
<article> → a self contained content
<aside> → Content aside from the content
</main>                        (eg Ads etc)
```

creating a page like this is not necessary but if creates a readable & structured layout
Also they are useful for SEO.

Link attributes

`<a href="/contact"> Contact </a>` → Contact

page open in same tab

`<a href="/contact" target="_blank">Conto</a>`

↳ opens in a new tab

We can put any content inside an
archer tag (images, heading etc are
all allowed)

If the page is inside a directory,
we need to make sure that we
link to the correct page.

↳ same applies to img tag as well

We can add, links to images like this

```
<a href="/about"><img src='a.Jpg width="120">
                                (about) </a>
```
'about' will show when
image will not load.

The Div tag
div tag is often used as a container
for other elements div is a block
level element.
↳ Always takes full wibth
• whole line it'uses
Css code will rone on div tage as well
as whole blocks of Html in Div tag

The span tag
span is an inline container.
↳
TAKES as much wibth as
necessary

List, tables and forms 5

Lists

Lists are used to display content which represents a list

Unordered list : used to list unorderd items

output:
- Home
- Adoof

```
<ul>
    <li> Home </li>
    <li> About </li>
</ul>
```

ordered list : used to list ordered items

output:-
1. Phone
2. PC
3. laptop

```
<ol>
    <li> Phone </li>
    <li> PC </li>
    <li> laptop </li>
</ol>
```

Description list or Defination list

output:-
Car
  vehicle
Bus
  vehicle

```
<dl>
    <dt> Car </dt>
    <dd> Vehicle </dd>
    <dt> Bus </dt>
    <dd> vehicle </dd>
</dl>
```

```html
<table cellpadding="7"
       border="1">
```
Make border on all cells

Tables

The `<table>` tag is used to define table in HTML.

It is used to format and display tabular data.

`<tr>`   table row

`<th>`   table headers

`<td>`   table data

We can define as many table rows as we want.

To add a caption to the table, we use `<caption>` tag inside table.

`<thead>`   used to wrap table head

                  (caption with tr with th)

`<tbody>`   used to wrap table body

Colspan attribute - used to create cells spanning multiple columns

`<th colspan="3"> Game </th>`

                 → spans 3 columns (over)

rowspan attribute: multiple rows

<td rowspan="2"> Mobile Number </td>

HTML forms

An HTML form is used to collect input from the user. form tag is used for the same.

<form>

<!-- Element of the form--->

</form>

There are different form elements for different kinds of user input.

input element: can be of type text, checkbox, radio, button and submit. We also have a file type

textarea element: Defines a multi line text input columns and rows attributes can be used to size the textarea.

Select element : Define a drop down list

Embedding videos>
video tag is used to play video in HTML

`<video src="location/URL video" controls autoplay width="400">Video </video>`

- controls → for control on video like Play Push etc

- width : To adjust width of a video
- we can use autoplay / loop to auto-play or loop the video.

SEO - 6

We will focus only on HTML standpoint of SEO. We will not be looking into keyword building and content optimization aspect SEO

Types of SEO

- On page SEO → can be done by HTML
- off page SEO developers

HTML SEO

HTML developers can implement SEO using the following techniques:

1. Set the tittle very nice & to the point

2. Set the meta description
   `<meta name="description" content="...">`

3. Set a nice URL slug

4. Set the meta keywords tag
   `<meta name="keywords" content="...,...,...">`

5. Set the meta author tag
   <meta name="author" content="Manish">

6. Set a favicone
   🔍 https://Manish.com search bar

7. Compress images and other resources
   it will fast rendering your site.

8. Remove unused HTML/css and Js files
   + Compress them.

9. Add alt text to images

Task

Make a website that I have leared
all concepts
some keys.
- All favourite music, video and Actore.
- 12th marks sheet
- Make a form about your chocies
   like - car
          - bike
          - Book etc.
- a Breff summary of your HTM Learning