TECH FEST 2022

"Coding for progress"

Who am I?

I am Rohan Shakya working as

Web Developer at Morgenland Tepichhe.

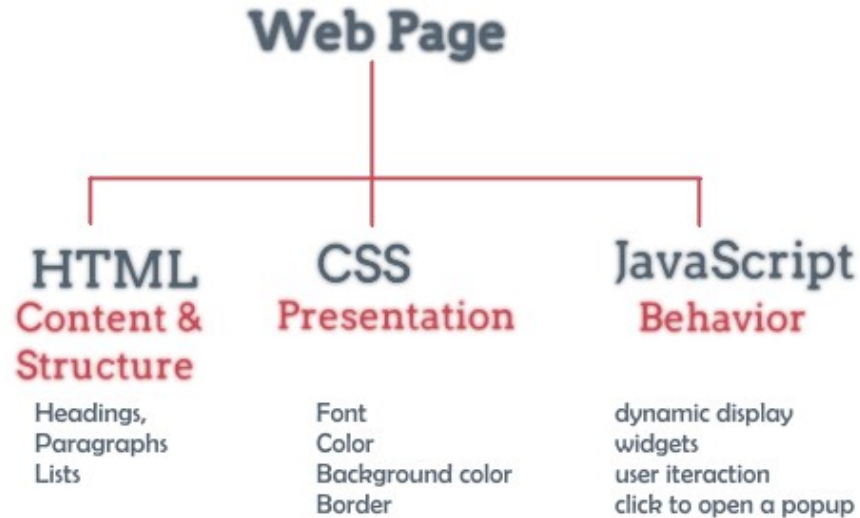Ask me questions related to **Javascript**, **Python.**

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Why to learn HTML, CSS and JS?

Web Page

HTML	CSS	JavaScript
Content & Structure	**Presentation**	**Behavior**
Headings, Paragraphs Lists	Font Color Background color Border	dynamic display widgets user iteraction click to open a popup

Tools Setup

> Web Browser: **Chrome**, Firefox, Brave, Edge, Safari

> Text Editor: **VS Code**, Sublime Text, Web Storm

VS Code extensions:
- Live Server
- Prettier
- Bracket Pair Colorizer 2
- Auto Close Tag

HTML

> HTML (Hyper Text Mark-Up Language) is what is known as a "mark-up language" whose role is to prepare written documents using formatting tags. The tags indicate how the document is presented and how it links to other documents.

> HTML is the standard markup language used to create web pages.

> The HTML file must have an extension ".htm " or ."html"

> HTML is written in the form of HTML elements consisting of tags enclosed in angular brackets (like <html>).

> Any text editor can be used to create HTML file.

> HTML5 is the newest version of HTML.

Why to learn HTML?

> **Create Web site** - You can create a website or customize an existing web template if you know HTML well.

> **Become a web designer** - If you want to start a career as a professional web designer, HTML and CSS designing is a must skill.

> **Understand web** - If you want to optimize your website, to boost its speed and performance, it is good to know HTML to yield best results.

> **Learn other languages** - Once you understands the basic of HTML then other related technologies like javascript, php, or angular are become easier to understand.

Steps to prepare HTML document

> **Step1**: Open any Editor on your computer(Notepad ,sublime etc)

> **Step2**: Write HTML code on it

> **Step 3**: Save that file with the extension htm or html format

> **Step4**: Open the saved file with any browser

```
<> first.html    ✕
1    <!DOCTYPE html>
2    <html lang="en">
3      <head>
4        <title>This is title</title>
5      </head>
6      <body>
7        <h1>This is heading!</h1>
8        <p>This is paragraph.</p>
9      </body>
10   </html>
```

Building Blocks of HTML

> An HTML document consist of its basic building blocks which are:

> **Tags:** An HTML tag surrounds the content and apply meaning to it. It is written between "<" " >" brackets.

> **Attribute:** An attribute in HTML provides extra information about the element, and it is applied within the start tag. An HTML attribute contains two fields: name & value.

HTML Tags

> HTML tags are like keywords which defines that how web browser will format and display the content. With the help of tags, a web browser can distinguish between an HTML content and a simple content.

> HTML tags contain three main parts: opening tag, content and closing tag. But some HTML tags are unclosed tags.

> All HTML tags must enclosed within < > these brackets.

> **Syntax:** <tag> content </tag> (all lowercase)

- <p> Paragraph Tag </p>

- <h2> Heading Tag </h2>

- Bold Tag

- <i> Italic Tag </i>

HTML Attribute

> HTML attributes are special words which provide additional information about the elements or attributes are the
modifier of the HTML element.

> Attributes should always be applied with start tag.

> Attribute should always be applied with its name and value pair.

> **Syntax:** <element attribute_name="value">content</element>

• <h1 title="This is heading tag">Example of title attribute</h1>

• This is a link

HTML Lists

> HTML Lists are used to specify lists of information. All lists may contain one or more list elements.

> There are three different types of HTML lists:

- **Ordered List or Numbered List (ol)** : This will use different schemes of numbers to list your items.

- **Unordered List or Bulleted List (ul)** : This will list items using plain bullets.

- **Description List or Definition List (dl)** : This arranges your items in the same way as they are arranged in a dictionary.

Unordered Lists

> An unordered list is a collection of related items that have no special order or sequence.

> This list is created by using HTML <ul> tag. Each item in the list is marked with a bullet.

> Each list start with <li> tag.

> The type attributes:

Type	Description
Type "disc"	This is the default style. In this style, the list items are marked with bullets.
Type "circle"	In this style, the list items are marked with circles.
Type "square"	In this style, the list items are marked with squares.
Type "none"	In this style, the list items are not marked.

Er. Simanta Kasaju

```html
<> list.html  ✕
1  <!DOCTYPE html>
2  <html lang="en">
3    <head>
4      <title>HTML List</title>
5    </head>
6    <body>
7      <ul type="desc">
8        <li>Computer</li>
9        <li>Desktop</li>
10       <li>Laptop</li>
11     </ul>
12   </body>
13 </html>
```

Ordered List

> If you are required to put your items in a numbered list instead of bulleted, then HTML ordered list will be used.

> This list is created by using <ol> tag.

> The numbering starts at one and is incremented by one for each successive ordered list element tagged with <li>.

Type "1"	This is the default type. In this type, the list items are numbered with number.
Type "I"	In this type, the list items are numbered with upper case roman numbers.
Type "i"	In this type, the list items are numbered with lower case roman numbers.
Type "A"	In this type, the list items are listed in capital alphabets.
Type "a"	In this type, the list items are listed in small alphabets.

```
list.html    ✕

1    <!DOCTYPE html>
2    <html lang="en">
3       <head>
4          <title>HTML List</title>
5       </head>
6       <body>
7          <ol type="I">
8             <li>Computer</li>
9             <li>Desktop</li>
10            <li>Laptop</li>
11         </ul>
12      </body>
13   </html>
```

Description List | Definition List

> HTML Description List or Definition List displays elements in definition form like in dictionary.

> The <dl>, <dt> and <dd> tags are used to define description list.

> The 3 HTML description list tags are given below:

- <dl> tag defines the description list.

- <dt> tag defines data term.

- <dd> tag defines data description.

HTML Anchor Tag

> The **HTML anchor tag** defines a hyperlink that links one page to another page.

> It can create hyperlink to other web page as well as files, location, or any URL.

> The "href" attribute is the most important attribute of the HTML a tag.

> **Syntax:** Link Text

> The target attributes: _self, _blank

> By default, links will appear as follows in all browsers:

• An unvisited link is underlined and blue

• A visited link is underlined and purple

• An active link is underlined and red

```
list.html          anchor.html  ✕
 1   <!DOCTYPE html>
 2   <html lang="en">
 3     <head>
 4       <title>Achor</title>
 5     </head>
 6     <body>
 7       <ol>
 8         <li>
 9           <a href="https://www.facebook.com" target="_blank">Facebook</a>
10         </li>
11         <li>
12           <a href="https://www.youtube.com" target="_blank">Youtube</a>
13         </li>
14         <li>
15           <a href="https://www.instagram.com" target="_blank">Instragram</a>
16         </li>
17       </ol>
18     </body>
19   </html>
```
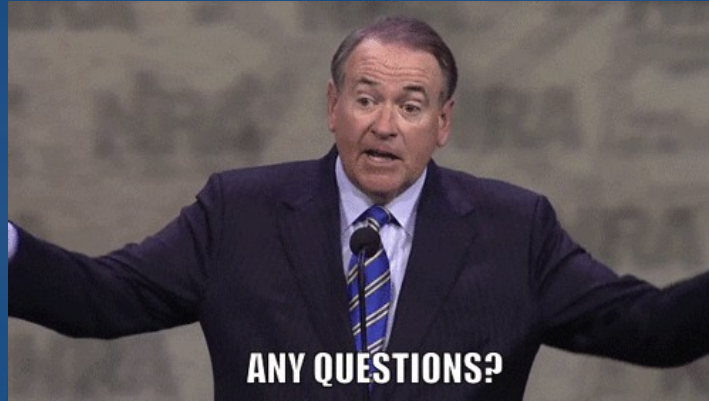
Let's Practice

Day 1

We are learning HTML

Today we learn:

- HTML
- HTML tags
- HTML attributes
- HTML Lists

We will learn:

A. HTML
B. CSS
C. Javascript

Full Form

RAM
    Random Access Memory
ROM
    Read Only Memory

Learn More

Any Questions?

Learning Resources:
w3schools
codecademy