

Front End Development - HTML



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What is HTML?

- Stands for HyperText Markup Language
- HyperText: Link between web pages.
- Markup Language: Text between tags which defines structure.
- It is a language to create web pages
- HTML defines how the web page looks and how to display content with the help of elements
- It forms or defines the structure of our Web Page
- Need to save your file with .html extension



Features Of HTML

- The learning curve is very easy (easy to modify)
- Create effective presentations
- Add links wherein we can add references
- Can display documents on platforms like Mac, Windows, Linux etc
- Add videos, graphics and audios making it more attractive.
- Case insensitive language



HTML Editors

- Simple editor: Notepad
- Notepad++
- Atom
- Best editor: Sublime Text.



HTML Skeleton



<!DOCTYPE html>

Instruction to the browser about the HTML version.

<html>

Root element which acts as a container to hold all the code Browser should know that this a HTML document Permitted content: One head tag followed by one body tag

<head>

Everything written here will never be displayed in the browser It contains general information about the document Title, definitions of css and script sheets

Metadata(information about the document)



<body>

- Everything written here will be displayed in the browser
- Contains text, images, links which can be achieved through tags.
- Examples:
 - This is our first paragraph.
 - Go To Google
 -



HTML Comments

- Comments don't render on the browser
- Helps to understand our code better and makes it readable.
- Helps to debug our code
- Three ways to comment:
 - Single line
 - Multiple line
 - Comment tag //Supported by IE



HTML Element

- Elements are created using tags
- Elements are used to define semantics
- Can be nested and empty

Basic Structure

```
 This is our first Paragraph
```

- Contains following things:
 - Start tag:
 - Attributes: color ="red"
 - End tag: // optional
 - O Content: Thirdies out of first Paraman has been unauthorized use or distribution prohibited.



Element Types

Block Level :

- Takes up full block or width and adds structure in the web page
- Always starts from new line
- Always end before the new line
- Example :
 - >
 - <div>
 - <h1>...<h6>



Element Types

Inline Level:

- Takes up what is requires and adds meaning to the web page
- Always starts from where the previous element ended
- Example :
 -
 -
 -
 - =
 - <a>>



Basic Tags:

- Enclosed within <>
- Different tags render different meaning.

<title> tag

- Whatever is written this tag comes up in the web page's tab
- Defines the title of the page
- Syntax: <title>Home </title>

tag

- Defines the paragraph
- Syntax: This is our first Paragraph
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List of Self closing tags

<hr>> tag

- Stands for horizontal rule
- Dividing the web page

 tag

- Stands for break line
- Moving to next line

 tag

To add images in the web page



- <h1> tag <h6>tag
 - Stands for heading tag
 - Defines heading of a page
 - h1 represents most important page in the page
 - h6 represents least important page in the page

 tag

- Defines the text to be bold
- Replaced tag //HTML5

 tag

- Defines the text to be bold
- Replaced <i>tag //HTML5



tag

- Stands for ordered list
- To define series of events that take place in some order
- Example making a tea (like a flow chart)
- o

tag

- Stands for unordered list
- To define series of events that take place where order is not important.
- Example your hobbies
- o



tag

- Defines the list item
- Used inside the 'ol' and 'ul' tag to define the events
- o <|i></|i>

<div> and tags

- Both of these are used to group different tags.
- Acts like a container.
- Effective while styling.
- o <div>.....</div>
-
- Difference <div> is block level and is inline level.



 tag

- Used to add images in a web page
- Syntax:
- Self closing tag.

<a> tags

- Used to add links in a web page
- Name of the link



tag

- Used to create a table on a web page
- Need other tags for completing the creation of a table
 - : for marking the table row
 - : for table header
 - : for table column data
- Everything is always enclosed within
 - <thead> : to keep all header data
 - : to keep all body data



<form> tag

- Action attribute: It specifies the URL to send form data to
- Method attribute: specifies the type of HTTP request(GET or POST)
- Example: <form action="/my-form-submitting-page" method="POST">
- <input>: used to accept data from the user
- Some types of inputs are:



- Text: used to store text data. Syntax: type="text"
- Password: used to enter a secure password. Syntax: type="password"
- Placeholder: temporary text in input fields. It is generally accompanied by "text" and "password" attributes. Syntax: placeholder="insert- text-here"
- Button: used to include buttons in the form. Syntax: type="button" value="insert-text-here"
- **Submit button**: For creating a submit button. All the data will get submitted when it is clicked. Syntax: type="submit"
- Checkbox: to provide the ability to check multiple options. Syntax:
 type="checkbox". To check options by default, set it with the checked attribute.

- Radio Button: allows one to choose a single option. Syntax: type="radio". Keep the name attribute of all the options the same.
- **<select>**: For every possible option to select, use an **<**option**>** tag**<**option**>**
- **Text Areas**: multi-line plain-text editing control. Syntax: <textarea>. You can

specify how large the text area is by using the "rows" and "cols" attributes

- **Labels**: add captions for individual items in a form. Syntax: <label>. A label can be used by placing the control element inside the <label> element, or by using the "for" and "id" attributes.
- Validations ensure that users fill out forms in the correct format, e.g.:
- a. required: The Boolean attribute which makes a field mandatory:
 - **b.** email: Proprietary content. © Great Learning. All Rights Reserved. Unauthorized use or distribution probibited. symbol.



Attributes

- Properties associated with each tag.
- <tag name="value"></tag> is the structure.
- Global Attribute:
 - Title : Add extra information (hover)
 - Style: Add style information(font,background,color,size)
-
 - src is the attribute used in image tag to define path
 - Width is attribute used to define width in pixels
 - Alt i.e alternate text if image is not loaded
- Name of the link
 - href used to define path of the link.



Conclusion

- Introduction to HTML
- Comments
- HTML Elements
- Basic Tags
- Attributes



Thank You