

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

- Learning curve is very easy (easy to modify)
- Creating effective presentations
- Adding Links wherein we can add references
- Can display documents on platforms like Mac, Windows, Linux etc
- Adding 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)

Metadata(informationAaboutethe)document)ribution prohibited.



<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 debugging 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 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: Third is it of the set Property of the served. 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



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.

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- 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.:
- required: The Boolean attribute which makes a field mandatory:
- email: the browser will ensure that the field contains an @ symbol.
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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.



Thank You