## **What is HTML?**

* HTML stands for Hyper Text Markup Language
* HTML is the standard markup language for creating Web pages
* HTML describes the structure of a Web page
* HTML consists of a series of elements
* HTML elements tell the browser how to display the content
* HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

**<p> Paragraph Tag </p>**

The <p> and </p> are the HTML tags and “Paragraph Tag” is the HTML element, i.e. the on-page text.

This tag formats any text between the opening <p> tag and the closing </p> tag as a standard paragraph or main body text.

### <h2> Heading Tag </h2>

In this example, <h2> and </h2> are the HTML tags and “Heading Tag” is the HTML element, i.e. the on-page heading.

Using this tag will format any text between the opening <h2> tag and the closing </h2> tag as a Heading 2 (a type of subheading.)

### <b> Bold Tag </b>

Here the <b> and </b> are the HTML tags and “Bold Tag” is the HTML element, i.e. the on page text.

This tag will format any text between the opening <b> tag and the closing </b> tag as bold.

### <i> Italic Tag </i>

Here, the <i> and </i> are the HTML tags and “Italic Tag” is the HTML element (the on-page text.)

This tag will format any text between the opening <i> tag and the closing </i> tag as italic.

### <u> Underline Tag </u>

Here the <u> and </u> are the HTML tags and “Underline Tag” is the HTML element, i.e. the on page text.

This tag will format any text between the opening <u> tag and the closing </u> tag as underlined.

An HTML tag must contain three parts:

1. An opening tag — this will start with a < > symbol
2. Content — the short instructions on how to display the on-page element
3. A closing tag — this will end with a </ > symbol

|  |  |  |
| --- | --- | --- |
| <p> | HTML Text Tags | Paragraph |
| <h1> | HTML Text Tags | Heading 1 |
| <h2> | HTML Text Tags | Heading 2 |
| <h3> | HTML Text Tags | Heading 3 |
| <h4> | HTML Text Tags | Heading 4 |
| <h5> | HTML Text Tags | Heading 5 |
| <h6> | HTML Text Tags | Heading 6 |
| <strong> | HTML Text Tags | Strong |
| <em> | HTML Text Tags | Emphasis |
| <abbr> | HTML Text Tags | Abbreviation |
| <address> | HTML Text Tags | Contact Information |
| <bdo> | HTML Text Tags | Override The Current Text Direction |
| <blockquote> | HTML Text Tags | Content From Another Source |
| <cite> | HTML Text Tags | Title Of The Work, Book, Website |
| <q> | HTML Text Tags | Inline Quotation |
| <code> | HTML Text Tags | Display A Part Of Programming Code |
| <ins> | HTML Text Tags | Text Inserted |
| <del> | HTML Text Tags | Text Deleted From The Document |
| <dfn> | HTML Text Tags | Term Defined Within A Sentence/Phrase |
| <kbd> | HTML Text Tags | Keyboard Input |
| <pre> | HTML Text Tags | Preformatted Text |
| <samp> | HTML Text Tags | Sample Output Of A Computer Program |
| <var> | HTML Text Tags | Variable Name Used In Mathematical Or Programming Context |
| <br> | HTML Text Tags | Single Line Break |
| <div> | HTML Text Tags | Division |
| <a> | HTML Link Tags | Anchor Tag For A Link |
| <base> | HTML Link Tags | Base Url For All Relative Url Within The Document |
| <img> | HTML Image And Object Tags | Image |
| <area> | HTML Image And Object Tags | Area Of An Image Map |
| <map> | HTML Image And Object Tags | Image Map |
| <param> | HTML Image And Object Tags | Parameter For An <Object> Element |
| <object> | HTML Image And Object Tags | Embed An Object |
| <ul> | HTML List Tags | Unordered List |
| <ol> | HTML List Tags | Ordered List |
| <li> | HTML List Tags | List |
| <dl> | HTML List Tags | Description List |
| <dt> | HTML List Tags | Term In Description List |

**Html structures:**

Every Webpage must contain this code. Below is the complete explanation of each of the tags used in the above piece of HTML code:  
**<!DOCTYPE html>:** This tag is used to tells the HTML version. This currently tells that the version is HTML 5.0   
**<html>  </html> :**<html> is a root element of html.  It’s a biggest and main element  in complete  html language, all the tags , elements and attributes  enclosed in it or we can say wrap init , which is used to structure a web page. <html> tag is parent tag of <head> and  <body>  tag , other tags enclosed within <head > and <body>.  In <html > tag we use “lang” attributes to define languages of html page such as <html lang=”en”> here en represents English language. some of them are : es = Spanish , zh-Hans = Chinese, fr= french and el= Greek etc.  
**<head>:** Head tag contains metadata, title, page CSS etc.  Data stored in the <head>  tag is not displayed to the user, it is just written for reference purposes and as a watermark of the owner.

**Note:** for better understanding refer above code of html.

**<title>** = to store website name or content to be displayed.

**<link>** = To add/ link css( cascading style sheet) file.

**<meta>** = 1. to store data about website, organisation ,

creator/ owner

2. for responsive website via attributes

3. to tell compatibility of html with browser

**<script>** = to add javascript file.

**<body>:** A body tag is used to enclose all the data which a web page has from texts to links. All the content that you see rendered in the browser is contained within this element. Following tags and elements used in the body.

   1 .  <h1> ,<h2> ,<h3> to <h6>  
   2.   <p>  
   3.   <div> and <span>  
   4.   <b>, <i> and<u>   
   5.   <li>,<ul>and<ol>.   
   6.   <img> , <audio> , <video> and<iframe>  
   7.   <table> <th> , <thead>and<tr>.    
   8.   <form>   
   9.   <label> and <input> others……….