# HTML 4

Quick Reference Guide

# Harsha Vardhan

(10+ years experienced Web Technologies expert)

# Introduction to HTML

- HTML stands for "Hypertext Markup Language". "Hypertext" means "the text that can be transferred from internet server to internet client".
- HTML is a markup language. A markup language is a language that syntax will be in the form of tags.
- HTML is used to design web pages. That means HTML is used to create elements (such as headings, paragraphs, icons, menus, logos, images, textboxes, buttons etc.) in the web pages.
- HTML is easy language to understand.
- HTML is "client side language". That means the html code executes on the client (browser).
- HTML is supported by all the browsers such as Google Chrome, Mozilla Firefox, Microsoft Internet Explorer, Safari, Opera and other browsers.
- HTML is used developed by "Tim Berners-Lee" and maintained by "W3C" (World Wide Web).
- HTML is used in all real web sites today.
- The file extension should be ".html".
- HTML is the interpreter-based language. That means the HTML code will be converted into machine language in line-by-line format. Browser interprets HTML code.

### Tag

- A tag is a keyword, enclosed within "<" and ">" in HTML language.
- Syntax: <tag>

# Types of tags

- Tags are two types:
  - 1. Paired tags: Contains starting tag and ending tag. Ex: <h1>hello</h1>
  - 2. Unpaired tags: Contains single tag only (no separate ending tag).
    Ex: <hr>>

# **Syntax of HTML Program**

• Every html program should have the following syntax:

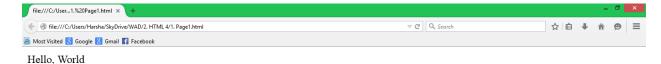
# First Example in HTML. File Name: Page1.html

- Open Notepad / Edit Plus.
- Type the following program:

```
<html>
<body>
Hello, World
</body>
</html>
```

- Go to "File" menu and click on "Save".
- Type the file name as "Page1.html".
- Select the folder as "Desktop".
- Click on "Save".
- Go to desktop folder and double click on "Page1.html".

- It opens "Page1.html" in browser (Google Chrome, Mozilla Firefox, Internet Explorer etc.).
- You will get the output as follows:



### >

- It is used to create a paragraph.
- It is a paired tag.
- Syntax:

paragraph here

Example:

Lorem Ipsum is simply dummy text of the printing and typesetting industry.

## <h1>

- It is used to create first level heading (main heading).
- It is a paired tag.
- Syntax:

<h1>heading here</h1>

Example:

<h1>Heading 1 here</h1>

## <h2>

- It is used to create second level heading (sub heading).
- It is a paired tag.
- Syntax:

```
<h2>heading here</h2>
```

• Example:

```
<h2>Heading 2 here</h2>
```

## <h3>

- It is used to create third level heading (sub heading).
- It is a paired tag.
- Syntax:

```
<h3>heading here</h3>
```

• Example:

```
<h3>Heading 3 here</h3>
```

## <h4>

- It is used to create third level heading (sub heading).
- It is a paired tag.
- Syntax:

```
<h4>heading here</h4>
```

```
<h4>Heading 4 here</h4>
```

# <h5>

- It is used to create third level heading (sub heading).
- It is a paired tag.
- Syntax:

```
<h5>heading here</h5>
```

• Example:

```
<h5>Heading 5 here</h5>
```

# <h6>

- It is used to create third level heading (sub heading).
- It is a paired tag.
- Syntax:

```
<h6>heading here</h6>
```

• Example:

```
<h6>Heading 6 here</h6>
```

## <b>

- It is used to display the text in bold.
- It is a paired tag.
- Syntax:

```
<b>bold text</b>
```

```
<b>Hello</b>
```

## <i>>

- It is used to display the text in italic.
- It is a paired tag.
- Syntax:

```
<i>i>italic text</i>
```

• Example:

```
<i>Hello</i>
```

# <strong>

- It is used to display the text in strong. <b> and <strong> both are same.
- It is a paired tag.
- Syntax:

```
<strong>strong text</strong>
```

• Example:

```
<strong>Hello</strong>
```

### <em>

- It is used to display the text in emphasis. <i> and <em> both are same.
- It is a paired tag.
- Syntax:

```
<em>emphasis text</em>
```

```
<em>Hello</em>
```

# (Peers Technologies Pvt. Ltd., Ameerpet, Hyd)

### <u>

- It is used to display the text in underline.
- It is a paired tag.
- Syntax:

<u>underline text</u>

• Example:

<u>Hello</u>

# <strike>

- It is used to display the text in strikeout.
- It is a paired tag.
- Syntax:

<strike>strikeout text</strike>

• Example:

<strike>Hello</strike>

# <sup>

- It is used to display the text in superscript (The text appears a bit upper side of normal line).
- It is a paired tag.
- Syntax:

<sup>superscript text</sup>

• Example:

<sup>Hello</sup>

# <sub>

- It is used to display the text in subscript (The text appears a bit bottom side of normal line).
- It is a paired tag.
- Syntax:

```
<sub>subscript text</sub>
```

• Example:

```
<sub>Hello</sub>
```

### <br>

- It is used to moves the cursor to the next line.
- It is an unpaired tag.
- Syntax:

<br>

• Example:

<br>

### <hr>

- It is used to display a horizontal line (horizontal ruler).
- It is an unpaired tag.
- Syntax:

<hr>

• Example:

<hr>

## <abbr>

- It is used to display full-form of a short-form when the user places mouse pointer on it.
- It is a paired tag.
- Syntax:

<abbr title="full form here">short form here</abbr>

Example:

<abbr title="as soon as possible">ASAP</abbr>

# <bdo>

- It is used to display full-form of a short-form when the user places mouse pointer on it.
- It is a paired tag.
- Syntax:

<bdo dir="rtl">your text here</bdo>

• Example:

<bdo dir="rtl">Hai how are you</bdo>

- Attributes:
  - o dir:
    - **Itr:** It displays the text in left-to-right.
    - **rtl:** It displays the text in right-to-left.

### <

- It is used to display the text as-it-is, along with the spaces and line breaks.
- It is a paired tag.
- Syntax:

```
your text here
```

• Example:

```
  one two
 three four five
```

### <img>

- It is used to display an image in the web page.
- It is an unpaired tag.
- Syntax:

```
<img src="image path here">
```

Example:

```
<img src="img1.jpg" width="200px" height="130px" title="this is
tooltip">
```

- Attributes:
  - o src:
    - It is used to specify path of the image file. If the image file and html file both are in the same folder, no need to specify the full path of the image.
  - o width:
    - It is used to specify width (horizontal size) of the image.
  - height
    - It is used to specify height (vertical size) of the image.
  - o title
    - It is used to specify the tooltip (that appears when the user places mouse pointer on the image).

#### o alt

• It is used to specify the alternate text (that appears when the image is not loaded in the browser at run time).

#### <a>

- It is used to create a hyperlink. When the user clicks on the hyperlink, the specified web page or web site will be opened.
- It is a paired tag.
- Syntax:

<a href="target url here">link text here</a>

• Example:

<a href="http://www.google.com">Google</a>

- Attributes:
  - o href:
    - It is used to specify the address of web page or web site that is to be opened when the user clicks on the hyperlink.
  - o target="\_blank":
    - It is used to open the target web page or web site in a separate browser tab.

### ul>

- UL stands for "Unordered List".
- It is used to display the list of items with bullets.
- Inside tag, you should place one or more tags.
- It is a paired tag.

(Peers Technologies Pvt. Ltd., Ameerpet, Hyd)

```
• Syntax:
```

```
text here
text here
...
```

# • Example:

```
    India
    UK
    US
    Canada
```

#### • Attributes:

- o type
  - "disc" or "square" or "circle".

## 

- OL stands for "Ordered List".
- It is used to display the list of items with numbers.
- Inside tag, you should place one or more tags.
- It is a paired tag.
- Syntax:

```
    text here
    text here
    ...
```

(Peers Technologies Pvt. Ltd., Ameerpet, Hyd)

### • Example:

## <dl>

- DL stands for "Definition List".
- It is used to display a collection of definitions.

"1" or "A" or "a" or "I" or "i"

- Inside <dl> tag, you should place one or more <dt> and <dd> tags.
- It is a paired tag.
- <dt> and <dd> tags are also paired tags.
- <dt> is used to specify definition title.
- <dd> is used to specify definition data.

#### • Syntax:

```
<dl>
<dl>
<dt>title here</dt>
<dd>definition here</dd>
<dt>title here</dt>
<dd>definition here</dd>
</dl>
```

#### • Example:

# 

- tag is used to display table type of data in the web page.
- A table is a collection of rows. Each row is a collection of cells.
- A table is represented as tag; A row is represented as 
   represented as .
- Inside the tag, we have to use ; Inside the tag, we have to use .
- If the cell is representing the column heading, you can use tag, instead of tag.
- <caption> tag is used to specify a title for the table.
- "tr" stands for "Table row".
- "td" stands for "Table data".
- "th" stands for "Table header".
- , , , and <caption> tags are paired tags.

#### Syntax:

```
data here
data here
data here

...
```

#### • Example:

### • Attributes of tag:

- border
  - "0": No border
  - "1": with border

#### Cellpadding

• "n px": Specifies the no. of pixels distance between cell border and cell content.

### • Attributes of or tag:

- rowspan
  - "n": Specifies the no. of rows to merge. The current cell occupies the space of 'n' no. of cells.

#### o colspan

• "n px": Specifies the no. of pixels distance between cell border and cell content.

### <iframe>

- <iframe> tag is used to display another web page or web site within the current web page.
- Iframe stands for "inline frame".
- <iframe> is a paired tag.
- Syntax:

```
<iframe src="web site address here" width="n px" height="n px"> </iframe>
```

• Example:

```
<iframe src="http://www.airtel.in/" width="400px" height="300px"> </iframe>
```

- Attributes of <iframe> tag:
  - o src
    - "web site path": Specifies the web site or web page path that is to be displayed in the iframe.
  - o width
    - "n px": Specifies the horizontal size of the iframe.
  - o height
    - "n px": Specifies the vertical size of the iframe.

# **HTML Entities**

- HTML Entities are pre-defined codes for displaying special symbols within the web page.
- HTML Entities are case sensitive. These must be used in lower case only.

Result	Description	<b>Entity Name</b>	<b>Entity Number</b>
	non-breaking space		
<	less than	<	<
>	greater than	>	>
&	ampersand	&	&

¢	cent	¢	¢
£	pound	£	£
¥	yen	¥	¥
€	euro	€	€
§	section	§	§
©	copyright	&сору;	©
®	registered trademark	®	®
ТМ	trademark	™	™

# <title>

- <title> tag is used to specify the title of the web page that appears in the browser's title bar.
- <title> tag should be used in <head> tag only.
- <head> tag is used to specify non-content information of the page.
- <title> is a paired tag.
- Syntax:

<title>Title here</title>

• Example:

<title>My title</title>

### <meta>

- <meta> tag is used to specify meta data (additional details) about the web page.
- <meta> tag provides information about the web page. Google like search
  engines will display your web page in the google search results, whenever one or
  more keywords are matching. You must upload your web page in the internet
  server to really use this.
- <meta> tag is an unpaired tag.

### • Example:

```
<meta name="keywords" content="Sony, Television, Price, Hyderabad">
<meta name="description" content="Sony LED BRAVIA Prices">
<meta name="author" content="Harsha">
```

### <input>

- <input> tag is used to create a form control (form element).
- Form elements such as Textbox, Checkbox, Radio button, Browser button, submit button etc.
- <input> is an unpaired tag.
- Syntax:

<input type="option here">

• Example:

<input type="text">

- Attributes of <input> tag:
  - o type
    - "text": Creates textbox. Textbox is used to accept a string value from the user.
    - "password": Creates password textbox. Password textbox is used to accept a password from the user.
    - "submit": Creates a submit button. Submit button is used to submit the form to the server page.
    - "image": Creates a "image submit" button. Submit button is used to submit the form to the server page.
    - "button": Creates a normal button. You can call "JavaScript Click event" when the user clicks on the button.
    - "checkbox": Creates a check box. Checkbox is used to display Yes/No type of option to the user.
    - "radio": Creates a radio button. Radiobutton is used to display two or more options to the user and allow the user to select any one of them.

- "hidden": Creates a hidden field. Hidden field will not be appear in the web page; but will be submitted to the server.
- "file": Creates a file browse button. Browse button is used for "attachment" option.
- "reset": Creates a reset button. Reset button clears all fields (textboxes and others) within the current form.

#### maxlength

 Specifies the maximum no. of characters that can be typed in the textbox.

### readonly="readonly"

• Makes the textbox as readonly; so that the user can see the value but can't type anything the textbox.

#### tabindex

Specifies tab order.

#### value

Represents the current value of the input element.

#### name

 Represents programmatic name of the input element that will be submitted to the server.

#### $\circ$ id

 Represents identification name of the input element that can be used in html, css, and javascript to get the element programmatically.

#### o src

Used to specify the path of the image in case of <input type="image">

#### checked="checked"

 Used to check the checkbox or radio button, in case of <input type="checkbox"> or <input type="radio">

#### disabled="disabled"

Used to disable the button.

## <label>

- <label> tag is used to create field heading.
- When the user clicks on the label, cursor will be appeared in the associated textbox automatically.
- <label> is a paired tag.
- Syntax:

```
<label for="id of textbox here">label text here</label>
```

• Example:

```
<label for="TextBox1">Username</label>
```

- Attributes of <label> tag:
  - o **for:** Used to specify the id of the textbox that is associated with the textbox.

### <form>

- <form> tag is used to group-up the input elements; so that we can submit the entire form to the server.
- A form is a collection of form elements such as <input>, <textarea> and <select>.
- <form> is a paired tag.
- Syntax:

### Example:

#### • Attributes of <form> tag:

- o **action:** Used to specify the server page address to which the form is to be submitted.
- o method:
  - get:
    - Displays the parameter names and values in the browser's address bar.
    - Useful for searching and retrieving the data from database.
  - post
    - ◆ Hides the parameter names and values in the browser's address bar and allows you to pass the data in hidden format.
    - ◆ Useful for insert, update, delete, registration and login operations.

## 

- <button> tag is used to display a submit button with image and text.
- <button> is a paired tag.
- Syntax:

```
<br/><br/><br/><img src="image file path here"><br/>Text here<br/></button>
```

```
<button>
<img src="ok.png">
<br>
oK</button>
```

## <select>

- <select> tag is used to create a dropdownlist or listbox.
- DropDownList is used to display few options to the user and allow the user to select any one of them.
- ListBox is used to display few options to the user and allow the user to select one or more of them.
- Inside <select> tag, you should use <option> tags. Each <option> tag represents an option in the drop downlist.
- Optionally, <optgroup> tag can be used to group-up the <option> tags.
- <select>, <option> and <optgroup> tags are paired tags.
- Syntax:

#### • Example:

### • Attributes of <select> tag:

o **multiple="multiple":** Used to convert the dropdownlist as listbox.

(Peers Technologies Pvt. Ltd., Ameerpet, Hyd)

# <textarea>

- <textarea> tag is used to create a multi-line textbox.
- <textarea> tag is a paired tag.
- Syntax:

```
<textarea name="name here" rows="no. of rows" cols="no. of columns"> </textarea>
```

Example:

```
<textarea name="comments" rows="5" cols="25"> </textarea>
```

# <fieldset>

- <fieldset> tag is used to display a box around a set of fields.
- <fieldset> tag is a paired tag.
- Syntax:

```
<fieldset>
    Your textboxes here
</fieldset>
```

Example:

# <legend>

- <legend> tag is used to display a title for the fieldset.
- <legend> tag is a paired tag.

### • Syntax:

### • Example:

## <div>

- <div> is a container.
- Inside <div> tag you can place any content like normal text or any other html tags.
- When you want to divide your web page as no. of parts, each part is represented as <div> tag.
- <div> is a paired tag.
- Syntax:

```
<div>
Your content here
</div>
```

```
<div>
Hello
</div>
```

(Peers Technologies Pvt. Ltd., Ameerpet, Hyd)

# <span>

- <span> represents a small amount of text, for which you can apply some special formatting.
- <span> is a paired tag.
- Syntax:

<span>Your content here</span>

• Example:

<span>Hello</span>