

HTML and HTML5

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What is HTML?

- <u>Hypertext Markup Language or HTML</u> is the most commonly used language on Web. It is used to create structure of a Web Page.
- · It is a markup language, because it contains markup tags.
- · HTML documents are described by HTML tags.



Basic HTML schema (structure)

```
<! DOCTYPE html>
<html>
     <head>
          <title>My Title</title>
     </head>
     <body>
          <h1>My First Heading</h1>
          My first paragraph.
     </body>
</html>
```



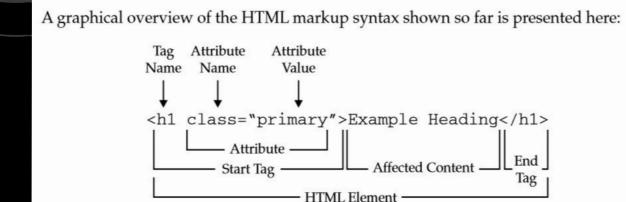
What is Doctype?

- The <!DOCTYPE> declaration represents the document type, and helps the browser to display a web page correctly.
- · It tells the browser which version of HTML you are using.
- The doctype declaration is not case sensitive. All cases are acceptable:
 - > <!DOCTYPE html>
 - > <!doctype HTML>



HTML Basic Tags

- · Every Thing in HTML is written in tags.
- · HTML tags are keywords (tag names) surrounded by angle brackets:
 - <tagname> content goes here... </tagname>
- Mostly Tags are PAIR TAGS. Like HTML, HEAD, BODY, TITLE, ETC.





HTML Tag

• The HTML <HTML> Tag is the only Element containing complete HTML Document.

```
· Two Direct Child of an HTML Element are;
    > Head Tag
    ➤ Body Tag
     <html>
          <head>
               <title>My Title</title>
          </head>
          <body>
          </body>
     </html>
```



HEAD Tag

- · HTML Head tag is the first child of HTML Element.
- · It Contains all header elements.
 - > Title Tag, Meta Tags, Link Tags, Script Tags

```
<head>
<title> Title of the webpage </title>
<meta name="keywords" content="Keywords of your website" />
<meta name="description" content=" Description of your website" />
link href="style.css" rel="stylesheet" />
<script >
    Script Goes Here
</script>
</head>
```



TITLE Tag

- TITLE is the first child of HEAD Tag. Title tag is must on every webpage of a website.
- · It enhance visibility of a webpage on search engines.
- · Maximum limit of characters inside title tag is 70.
 - > <title> Title of the webpage </title>



BODY Tag

- · HTML Body Tag is used to define the body of our HTML Document.
- The Body Tag contains all visible contents of a webpage like paragraph, headings, tables, lists, images, videos etc.

```
<br/>
<br/>
Complete Website Structure will be created here </bd>
</br>
```



Tag Overlap versus Nesting

```
<em> <strong> Don't cross the streams! </em> </strong>

Tags must not overlap
```



What is HTML Attributes?

- · HTML elements can have attributes
- · Attributes provide additional information about an element
- · Attributes are always specified in the start tag
- · Attributes come in name/value pairs like: name="value"

Ex: class, id, style, bgcolor

- > <body bgcolor = "#999000"> </body>
- > <h1 align = "left">TEXT Aligned Left</h1>



HTML Headings

· HTML includes 6 tags to write headings. Heading Tags are used to write heading on a webpage.

$$< h6 >$$
 Heading 6 $< /h1 >$



Tags to write text in HTML

Para Tag

- · Para Tag is most commonly used tag to write a paragraph in HTML.
 - > This Paragraph is aligned left

PRE Tag

- · All HTML Textual Tags ignore white space and line break.
- · PRE Tag is the only tag which follow the exact format in which you are writing.



Tags to write text in HTML

Font Tag

- · Font Tag is used to add color and size to the text inside font tag
 - > Default FONT Tag
 - > Font Tag with color red
 - > Font Tag with size 1



HTML images

- · Images enhance the look and feel of a website. We uses images as a logo, banner, icons, symbols, product etc.
- · In HTML, images are defined with the tag.
- The tag is empty, it contains attributes only, and does not have a closing tag.
- · The 'src' attribute specifies the URL (web address) / location of the image
- The 'alt' attribute provides an alternate text for an image
 -



HTML List

Three types of list in HTML:

- 1. Unordered List
 - The ul tag is used to define unordered lists.
 - An unordered list starts with the tag. Each list item starts with the tag.
 - The list items will be marked with bullets (small black circles) by default:

```
        Output:

      List 1
      List 1

      List 2
      List 2

      List 3
      List 3
```



2. Ordered List

- An ordered list starts with the tag. Each list item starts with the tag.
- The list items will be marked with numbers by default

```
  India
  Duabi
  Denver

Output:

India
2 Dubai
3 Denver
```



3. Description List

- A description list is a list of terms, with a description of each term.
- The <dl> tag defines the description list, the <dt> tag defines the term (name), and the <dd> tag describes each term:



HTML Forms

- The HTML <form> element defines a form that is used to collect user input:
- · An HTML form contains form elements.
- · Form elements are different types of input elements, like text fields, checkboxes, radio buttons, submit buttons, and more.

First Name:



Radio Buttons

· Radio buttons let a user select ONE of a limited number of choices:

```
<form>
    <input type="radio" name="gender" > Male<br>
    <input type="radio" name="gender" checked> Female<br>
</form>
```





Check Boxes

· Checkboxes let a user select ZERO or MORE options of a limited number of choices.

```
<form>
    <input type="checkbox" value="bike"/>Bike<br/>
    <input type="checkbox" value="car"/>Car</form>
```

Bike

Car



Select Tag

· Select tag is used to fetch a single field among listed options



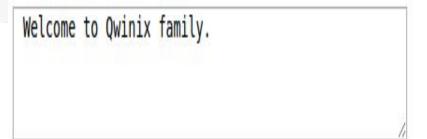
Text area Tag

· Text area is used to write multiple line. Like query, address, comments, etc.

```
<form>
  <textarea rows = "4" cols = "50">

Welcome to Qwinix family.

</textarea>
</form>
```



Submit





HTML Tables

- Tables are defined with the tag.
- A table is divided into rows (with the
 tag), and each row is divided into data cells (with the tag).



```
Name
  Age
 Kaushal
  21
 Shubh
  20
```



Marquee Tag

· HTML Marquee tag is used to write scrolling text from left to right, right to left, bottom to top and top to bottom.

<marquee direction="left"> This is a marquee </marquee>

	This marquee will scroll to left
ll scroll to right	
nis marquee will scroll to upwards	
nis marquee will scroll downwards	



Anchor Tag

- · Anchor Tag in HTML is used to create Hyperlink.
- · It can be a Internal Link or External Link.

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HTML5 Introduction

<!DOCTYPE html>

- HTML5 does everything from animation to apps, music to movies, and can also be used to build incredibly complicated applications that run in your browser.
- It's also cross-platform, which means it doesn't care whether you're using a tablet or a smart phone, a netbook, notebook, ultrabook or a Smart TV if your browser supports HTML5, it should work flawlessly.



HTML5 New Features

New Semantic Tags: <header>, <nav>, <section>, <article> etc

Audio and Video: <audio> & <video>

SVG: <svg> Tag for vector based drawings, shapes, pie and bar graphs, maps etc.

Canvas: <canvas> tag for 2-d drawings using javascript.

CSS-3: New properties for better styles, transition and animations.

Geolocation: To Detect user physical location.

Web SQL: To store upto 5mb data on front end.

Drag n drop: New Events in javascript.



THANKYOU

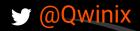


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