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HTML

HTML stands for **H**yper**t**ext **M**arkup **L**anguage, and it is the most widely used language to write Web Pages.

Hypertext refers to the way in which Web pages (HTML documents) are linked together. Thus, the link available on a webpage is called Hypertext.

As its name suggests, HTML is a **Markup Language** which means you use HTML to simply "mark-up" a text document with tags that tell a Web browser how to structure it to display.

Originally, HTML was developed with the intent of defining the structure of documents like headings, paragraphs, lists, and so forth to facilitate the sharing of scientific information between researchers.

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HTML

Now, HTML is being widely used to format web pages with the help of different tags available in HTML language.

HTML was created by Berners-Lee in late 1991 but "HTML 2.0" was the first standard HTML specification which was published in 1995. HTML 4.01 was a major version of HTML and it was published in late 1999. Though HTML 4.01 version is widely used but currently we are having HTML-5 version which is an extension to HTML 4.01, and this version was published in 2012.

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Why to Learn HTML?

Originally, **HTML** was developed with the intent of defining the structure of documents like headings, paragraphs, lists, and so forth to facilitate the sharing of scientific information between researchers. Now, HTML is being widely used to format web pages with the help of different tags available in HTML language.

HTML is a MUST for students and working professionals to become a great Software Engineer specially when they are working in Web Development Domain. Here is the key advantages of learning HTML:

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Why to Learn HTML?

1. **Create Web site** - You can create a website or customize an existing web template if you know HTML well.
2. **Become a web designer** - If you want to start a carrer as a professional web designer, HTML and CSS designing is a must skill.
3. **Understand web** - If you want to optimize your website, to boost its speed and performance, it is good to know HTML to yield best results.
4. **Learn other languages** - Once you understands the basic of HTML then other related technologies like javascript, php, or angular are become easier to understand.

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Applications of HTML

- As mentioned before, HTML is one of the most widely used language over the web. I'm going to list few of them here:
  1. **Web pages development** - HTML is used to create pages which are rendered over the web. Almost every page of web is having html tags in it to render its details in browser.
  2. **Internet Navigation** - HTML provides tags which are used to navigate from one page to another and is heavily used in internet navigation.
  3. **Responsive UI** - HTML pages now-a-days works well on all platform, mobile, tabs, desktop or laptops owing to responsive design strategy.
  4. **Offline support** HTML pages once loaded can be made available offline on the machine without any need of internet.
  5. **Game development**- HTML5 has native support for rich experience and is now useful in gaming development arena as well.

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HTML Document Structure

A typical HTML document will have the following structure –

```
<html>
  <head>
    Document header related tags
  </head>
    <body>
    Document body related tags
  </body>
</html>
```

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The <!DOCTYPE> Declaration

The <!DOCTYPE> declaration tag is used by the web browser to understand the version of the HTML used in the document. Current version of HTML is 5 and it makes use of the following declaration –

<!DOCTYPE html>

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HTML - Comments

Comment is a piece of code which is ignored by any web browser. It is a good practice to add comments into your HTML code, especially in complex documents, to indicate sections of a document, and any other notes to anyone looking at the code. Comments help you and others understand your code and increases code readability.

HTML comments are placed in between **<!-- ... -->** tags. So, any content placed with-in <!-- ... --> tags will be treated as comment and will be completely ignored by the browser.

<!– This is Comment -->

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Line Break Tag

The <br /> tag is used to break the line. It has a space between the characters **br** and the forward slash.

```
<p>Hello<br />
    You delivered your assignment ontime.<br />
    Thanks<br />
    Sunshine Softwares</p>
```

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HTML - Formatting

Bold Text

Anything that appears within **...** element, is displayed in bold as shown below –

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

Italic Text

Anything that appears within **...** element is displayed in italicized as shown below –

```
<i>italicized</i>
```

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HTML - Formatting

Underlined Text

Anything that appears within **<u>...</u>** element, is displayed with underline as shown below –

<u>underlined</u>

Strike Text

Anything that appears within **<strike>...</strike>** element is displayed with strikethrough, which is a thin line through the text as shown below –

<strike>strikethrough</strike>

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HTML - Formatting

Strong Text

Anything that appears within **...** element is displayed as important text.

```
<p>The following word uses a
<strong>strong</strong> typeface.</p>
```

Emphasized Text

Anything that appears within **...** element is displayed as emphasized text.

```
<p>The following word uses an
<em>emphasized</em> typeface.</p>
```

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HTML - Formatting

Inserted Text

Anything that appears within **<ins>...</ins>** element is displayed as inserted text.

<ins>wine</ins>

Deleted Text

Anything that appears within **<del>...</del>** element, is displayed as deleted text.

<del>cola</del>

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HTML - Formatting

Superscript Text

The content of a **^{...}** element is written in superscript; the font size used is the same size as the characters surrounding it but is displayed half a character's height above the other characters.

X^Y

Subscript Text

The content of a **_{...}** element is written in subscript; the font size used is the same as the characters surrounding it, but is displayed half a character's height beneath the other characters.

H²O

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Paragraph Tag

The ** ** tag offers a way to structure your text into different paragraphs. Each paragraph of text should go in between an opening and a closing tag as shown below in the example –

```
<p>Here is a first paragraph of text.</p>
<p>Here is a second paragraph of text.</p>
<p>Here is a third paragraph of text.</p>
```

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Heading Tags

Any document starts with a heading. You can use different sizes for your headings. HTML also has six levels of headings, which use the elements **<h1>, <h2>, <h3>, <h4>, <h5>,** and **<h6>**. While displaying any heading, browser adds one line before and one line after that heading.

```
<h1>This is heading 1</h1>
<h2>This is heading 2</h2>
<h3>This is heading 3</h3>
<h4>This is heading 4</h4>
<h5>This is heading 5</h5>
<h6>This is heading 6</h6>
```

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Centering Content

You can use ** ** tag to put any content in the center of the page or any table cell.

```
<center>
    <p>This text is in the center.</p>
</center>
```

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Horizontal Lines

Horizontal lines are used to visually break-up sections of a document. The **<hr>** tag creates a line from the current position in the document to the right margin and breaks the line accordingly.

For example, you may want to give a line between two paragraphs as in the given example below –

```
<p>This is paragraph One</p>
    <hr />
<p>This is paragraph two </p>
```

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Nonbreaking Spaces

In cases, where you do not want the client browser to break text, you should use a nonbreaking space entity ** ** instead of a normal space.

Here browser to split the "12, Angry" and "Men" across two lines –

```
<body>
    <p>An example of this technique appears in the movie "12 Angry Men."</p>
</body>
```

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Preserve Formatting

Sometimes, you want your text to follow the exact format of how it is written in the HTML document. In these cases, you can use the preformatted tag **<pre>**.

Any text between the opening **<pre>** tag and the closing **</pre>** tag will preserve the formatting of the source document.

```
<pre>
    function testFunction( strText ){
      alert (strText)
    }
  </pre>
```

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HTML - Formatting

Computer Code

Any programming code to appear on a Web page should be placed inside **<code>...</code>** tags. Usually the content of the <code> element is presented in a monospaced font, just like the code in most programming books.

```
<p>Regular text. <code>This is code.</code> Regular text.</p>
```

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HTML - Formatting

Marked Text

Anything that appears with-in **<mark>...</mark>** element, is displayed as marked with yellow ink.

```
<p>The following word has been
<mark>marked</mark> with yellow</p>
```

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HTML - Formatting

Monospaced Font

The content of a **<tt>...</tt>** element is written in monospaced font. Most of the fonts are known as variable-width fonts because different letters are of different widths (for example, the letter 'm' is wider than the letter 'i'). In a monospaced font, however, each letter has the same width.

```
<tt>monospaced</tt>
```

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HTML - Formatting

Larger Text

The content of the **<big>...</big>** element is displayed one font size larger than the rest of the text surrounding it as shown below –

The following word uses a <big>big</big> typeface.

Smaller Text

The content of the **<small>...</small>** element is displayed one font size smaller than the rest of the text surrounding it as shown below –

The following word uses a <small>small</small> typeface.

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HTML - Formatting

Text Abbreviation

You can abbreviate a text by putting it inside opening <abbr> and closing </abbr> tags. If present, the title attribute must contain this full description and nothing else.

US Space Explorations are governed by <abbr title="National Aeronautics and Space Administration">NASA</abbr>.

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HTML - Formatting

Text Direction

The **<bdo>...</bdo>** element stands for Bi-Directional Override and it is used to override the current text direction.

```
<p>This text will go left to right.</p>
<p><bdo dir = "rtl">This text will go right to left.</bdo></p>
```

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HTML - Formatting

Quoting Text

When you want to quote a passage from another source, you should put it in between **<blockquote>...</blockquote>** tags.

Text inside a <blockquote> element is usually indented from the left and right edges of the surrounding text, and sometimes uses an italicized font.

Example:

<blockquote>Text inside a blockquote element is usually indented from the left and right edges of the surrounding text.</blockquote>

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HTML - Formatting

Short Quotations

The **<q>...</q>** element is used when you want to add a double quote within a sentence.

SunShine Softwares is in Jaipur, <q>and Contact Number is +91-9928016573</q>.

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HTML - Images

Insert Image

You can insert any image in your web page by using **<img>** tag. Following is the simple syntax to use this tag.

<img src = "Image URL" ... attributes-list/>

The <img> tag is an empty tag, which means that, it can contain only list of attributes and it has no closing tag.

<img src = “/images/test.png” alt = "Test Image" />

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HTML - Images

Set Image Width/Height

You can set image width and height based on your requirement using **width** and **height** attributes. You can specify width and height of the image in terms of either pixels or percentage of its actual size.

```
<img src = "images/test.png" alt = "Test Image" width = "150" height = "100"/>
```

Set Image Border

By default, image will have a border around it, you can specify border thickness in terms of pixels using border attribute. A thickness of 0 means, no border around the picture.

```
<img src = "images/test.png" alt = "Test Image" border = "3"/>
```

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HTML - Images

Set Image Alignment

By default, image will align at the left side of the page, but you can use **align** attribute to set it in the center or right.

<img src = “/images/test.png" alt = "Test Image" border = "3" align = "right"/>

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