

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

HTML NOTES

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FULL HTML WITH ALL TAGS AND COMPLETE
EXPLANATION

HTML (Hyper Text Markup Language)

HTML is the code that is used to structure a web page and its content. The component used to design the structure of websites are called HTML tags.

First HTML File

index.html

It is the default name for a website's homepage.

HTML Tag

A container for some content or other HTML tags

<p> This is a paragraph</p>

Basic HTML Page

```
<!DOCTYPE html>      tells browser you are using HTML5  
<html>        root of an html document  
<head>        container for metadata  
<title>My First Page</title>    page title  
</head>  
<body>        contains all data rendered by the browser  
<p>hello world</p>    paragraph tag  
</body>  
</html>
```

Quick Points

- Html tag is parent of head & body tag

- Most of html elements have opening & closing tags with content in between
- Some tags have no content in between, eg -

- We can use inspect element/view page source to edit html

HTML is NOT case sensitive

<p> = <P>

<html> = <HTML>

<head> = <HEAD>

<body> = <BODY>

Basic HTML Tags

Attributes are used to add more information to the tag

HTML Attributes

<html lang="en">

Heading Tag

Used to display headings in HTML

h1 (most important)

h2

h3

h4

h5

h6 (least important)

Paragraph Tag

Used to add paragraphs in HTML

<p> This is a sample paragraph </p>

Anchor Tag

Used to add links to your page

```
<a href="https://google.com"> Google </a>
```

Image Tag

Used to add images to your page

```

```

Br Tag

Used to add next line(line breaks) to your page

```
<br>
```

Bold, Italic & Underline Tags

Used to highlight text in your page

```
<b> Bold </b>
```

```
<i> Italic </i>
```

```
<u> Underline </u>
```

Big & Small Tags

Used to display big & small text on your page

```
<big> Big </big>
```

```
<small> Small </small>
```

Hr Tag

Used to display a horizontal ruler, used to separate content

```
<hr>
```

Subscript & Superscript Tag

Used to define subscript and superscript text

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

```
<sup> superscript </sup>
```

Sub= H₂O

Sup= 3²+2

Pre Tag

Used to display text as it is (without ignoring spaces & next line)

```
<pre> This  
is a sample  
text.  
</pre>
```

Comments in HTML

```
<!-- This is an HTML Comment -->  
This is part of code that should not be parsed.
```

Page Layout Techniques

using Semantic tags for layout

using the Right Tags

```
<header>
```

```
<main>
```

```
<footer>
```

Inside Main Tag

Section Tag

<section>

For a section on your page

Article Tag

<article>

For an article on your page

Aside Tag

<aside>

For content aside main content(ads)

Revisiting Anchor Tag

For new tab

 Google

For Clickable picture

Revisiting Image Tag

set height

set width

Div Tag

Div is a container used for other HTML elements

Block Element (takes full width)

List : Div Tags

<address>
<article>
<aside>
<blockquote>
<canvas>
<dd>
<div>
<dl>
<dt>
<figure>
<footer>
<form>
<h1>-<h6>
<header>
<hr>

<main>
<nav>
<noscript>

<p>
<pre>
<section>
<table>
<tfoot>

<video>

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Span Tag

Span is also a container used for other HTML elements

Inline Element (takes width as per size)

List : Span Tags

<a>
<abbr>
<acronym>

<bdo>
<big>

<button>
<cite>
<code>
<dfn>

<i>

<script>
<textarea>
<object>
<sub>
<sup>
<time>
<label>

<select>

List in HTML

Lists are used to represent real life list data.

unordered

```
<ul>  
<li> Apple </li>  
<li> Mango </li>  
</ul>
```

ordered

```
<ol>  
<li> Apple </li>  
<li> Mango </li>  
</ol>
```

Tables in HTML

Tables are used to represent real life table data.

<tr> used to display table row

<td> used to display table data

<th> used to display table header

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Tables in HTML

```
</table>  
  
<th> Name </th>  
  
<table>  
  
<tr>  
  
<th> Roll No  
  
</th>  
  
</tr>  
  
<td> Hamza </td>  
  
<tr>  
  
<th> 2011 </th>  
  
</tr>
```

Caption in Tables

```
<caption> Student Data </caption>
```

thead & tbody in Tables

```
<thead> to wrap table head  
<tbody> to wrap table body
```

colspan attribute

```
colspan="n"  
used to create cells which spans over multiple columns
```

Form in HTML

Forms are used to collect data from the user

Eg- sign up/login/help requests/contact me

```
<form>  
    form content  
</form>
```

Action in Form

```
<form action="/action.php" >
```

Action attribute is used to define what action needs to be performed when a form is submitted

Favicon in HTML

A small image that serves as a website's visual identity, appearing in a web browser's tabs.

```
<link rel="icon" type="image/png" href="favicon.png">
```

Form Element : Input

```
<input type="text" placeholder="Enter Name">
```

Label

```
<input type="radio" value="class X" name="class" id="id1">  
<label for="id1">  
</label>
```

```
<input type="radio" value="class X" name="class" id="id2">  
<label for="id2">  
</label>
```

Class & Id

```
<div id="id1" class="group1">  
</div>  
  
<div id="id2" class="group1">  
</div>
```

Checkbox

```
<input type="checkbox" value="class X" name="class" id="id1">  
<label for="id1">  
</label>  
  
<input type="checkbox" value="class X" name="class" id="id2">  
<label for="id2">  
</label>
```

Textarea

```
<textarea name="feedback" id="feedback" placeholder="Please add Feedback">  
</textarea>
```

Select

```
<select name="city" id="city"></select>  
<option value="Lahore"> Lahore </option>  
<option value="Karachi ">Karachi </option>
```

```
<option value="Islamabad"> Islamabad </option>
```

iframe Tag

website inside website

```
<iframe src="link"> Link </option>
```

Video Tag

```
<video src="myVid.mp4"> My Video </video>
```

Attributes

- controls
- height
- width
- loop
- autoplay

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