

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 - <br>
- 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= H<sub>2</sub>O

Sup= 3<sup>2</sup>+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**

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

### **For Clickable picture**

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

## **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>

<li>

<main>

<nav>

<noscript>

<ol>

<p>

<pre>

<section>

<table>

<tfoot>

<ul>

<video>

## 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>

<b>

<bdo>

<big>

<br>

<button>

<cite>

<code>

<dfn>

<em>

<i>

<img>

<script>

<textarea>

<object>

<sub>

<sup>

<time>

<label>

<span>

<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

## Tables in HTML

</table>

<th> Name </th>

<table>

<tr>

<th> Roll No

</th>

</tr>

<td> Hamza </th>

<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