



HTML Tutorial for Beginners

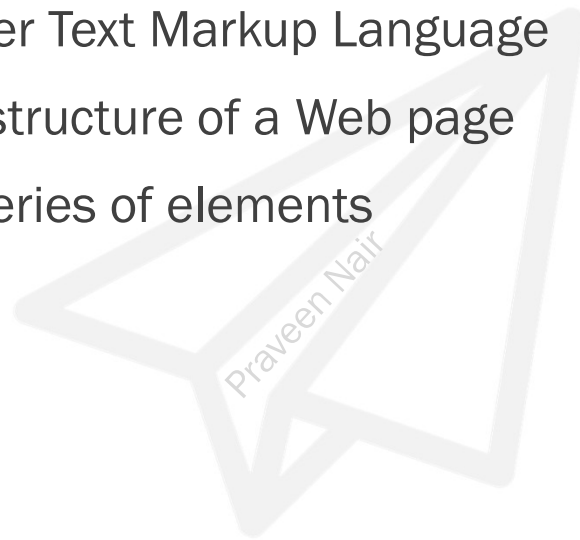
PRAVEEN NAIR

Introduction to HTML

HTML stands for Hyper Text Markup Language

HTML describes the structure of a Web page

HTML consists of a series of elements



Hyper Text Markup Language(HTML)

Consortium...HTML defines the structure and layout of the content users see on a web page. HTML elements are represented by <> tags. Here is an example –

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Page</title>
  </head>
  <body>
    <h1>Hello World</h1>
  </body>
</html>
```

Install code prettier in vs code

<head> Tag

<head>

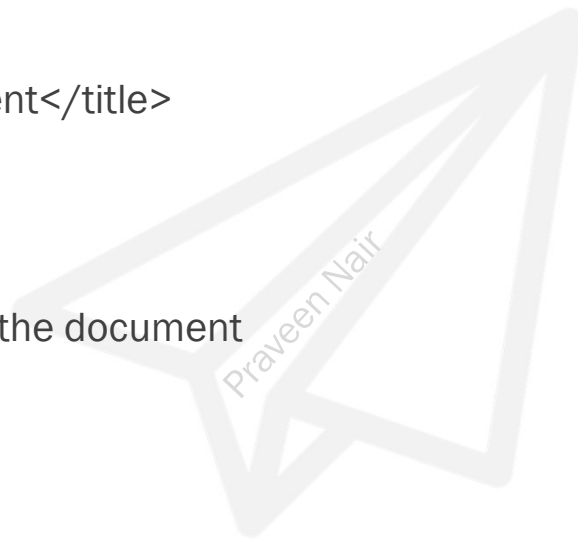
 <title>Title of the document</title>

</head>

.....

Defines information about the document

<title>, <meta>



<meta> Tag

```
<head>
```

```
  <meta name="description" content="Learning Website">
```

```
  <meta name="keywords" content="Python Full Stack, Hyderabad">
```

```
  <meta name="author" content="John Smith">
```

```
</head>
```



Basic HTML Tags

<!DOCTYPE> Defines the document type not a tag

<html> Defines an HTML document

<head> Contains metadata/information for the document

<title> Defines a title for the document

<body> Defines the document's body

<h1> to <h6> Defines HTML headings

<p> Defines a paragraph

 Inserts a single line break

<hr> Defines a thematic change in the content

<!--...--> Defines a comment

Formatting Tags

`<p>Bold Text</p>`

`<p>Bold Text</p>`

`<u>Underline Text</u>`

`<p>This is _{subscript}</p>`

`<p>This is ^{superscript}</p>`

`
<i>Italics Text</i>`

`<pre>Hello World, this is a dummy text</pre>`

Formatting Tags

`<mark>Hello World</mark>`

This `task` is completed

`<!-- Comments here -->`

`<meter id="download" value="0.6">60%</meter>`

`<p>The is a dummy <abbr title="This is a dummy text">abbr</abbr></p>`

`<p><progress id="file" value="32" max="100">32%</progress></p>`

<form> Tags

<form>

<input type="text">

<input type="submit">

</form>



<input type=text/submit/reset/image>

<form>

```
<input type="text" placeholder="Enter your name"  
      required disabled readonly maxlength="5", size="10px"  
      autofocus>
```

```
<input type="submit">
```

```
<input type="image" src=""> <!-- same as submit form>
```

```
<input type="reset">
```

</form>

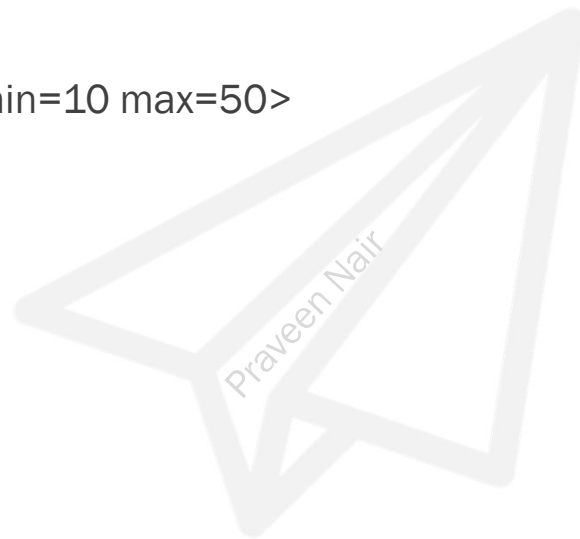
`<input type=number>`

`<form>`

`<input type="number" min=10 max=50>`

`<input type="submit">`

`</form>`



<input type=email>

```
<form>
```

```
  <input type="email" >
```

```
  <input type="submit">
```

```
</form>
```

```
<form>
```

```
  <input type="email" multiple> <!-- comma separated -- >
```

```
  <input type="submit">
```

```
</form>
```

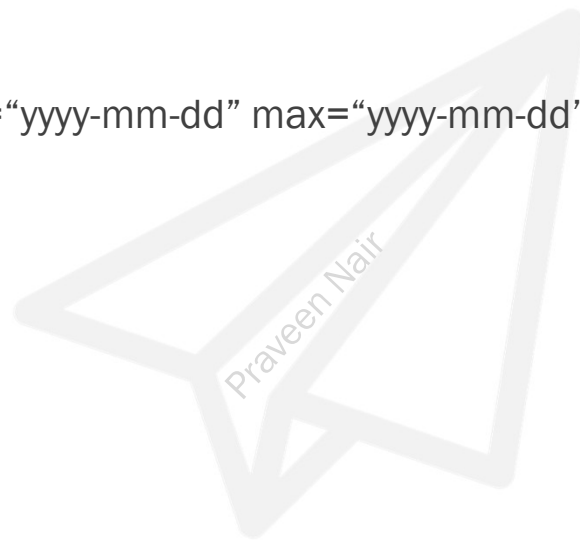
<input type=date>

<form>

<input type="date" min="yyyy-mm-dd" max="yyyy-mm-dd" step="7">

<input type="submit">

</form>



`<input type=color>`

```
<form>
```

```
  <input type="color">
```

```
  <input type="submit">
```

```
</form>
```



`<input type=file>`

```
<form>
```

```
  <input type="file">
```

```
  <input type="submit">
```

```
</form>
```



`<input type=password>`

`<form>`

`<input type="password">`

`<input type="submit">`

`</form>`



<input type=radio>

<form>

<input type="radio" name="color" value="red"> Red

<input type="radio" name="color" value="green">green

<input type="radio" name="color" value="pink">pink

<input type="submit" value="submit">

</form>

.....

Try checked

`<input type=checkbox>`

`<form>`

`<input type="checkbox" name="sport1" value="cricket">Cricket
`

`<input type="checkbox" name="sport2" value="baseball">Baseball
`

`<input type="checkbox" name="sport3" value="badminton">Badminton

`

`<input type="submit">`

`</form>`

.....

Try checked

`<input type=button>`

`<form>`

`<input type="button" value="Click Here">`

`</form>`



<button> tag

<form>

 <input type="text" name="name"/>

 <button>Submit</button>

</form>

By default it will submit the form

.....
<button type=reset>

<textarea> Tag

<form>

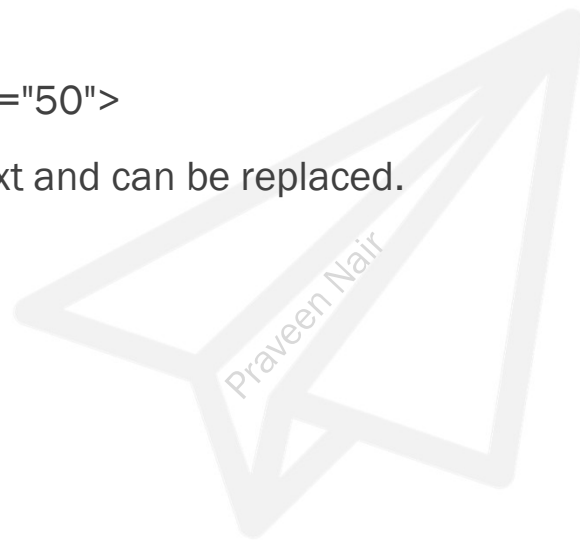
<textarea rows="4" cols="50">

This is dummy text and can be replaced.

</textarea>

<input type="submit">

</form>



<select> Tag

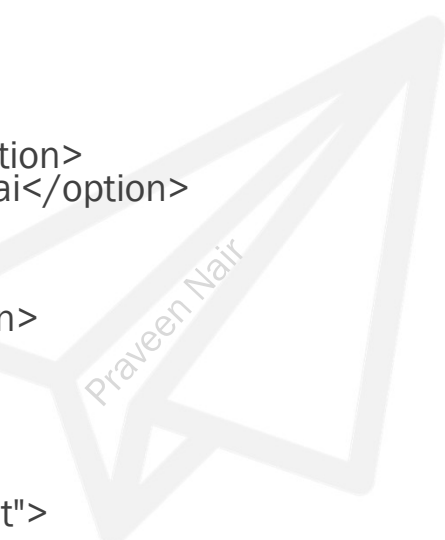
```
<select id="flowers">
  <option value="rose">Rose</option>
  <option value="lotus">Lotus</option>
  <option value="jasmine">Jasmine</option>
</select><br>
<input type="submit">
```

.....

Try selected

<optgroup> Tag

```
<form>
  <select id="city">
    <optgroup label="India">
      <option value="delhi">Delhi</option>
      <option value="mumbai">Mumbai</option>
    </optgroup>
    <optgroup label="America">
      <option value="nyc">NYC</option>
      <option value="la">LA</option>
    </optgroup>
  </select>
  <input type="submit" value="Submit">
</form>
```



<label> Tag

<form>

<input type="checkbox" id="elephant" value="Elephant">

<label for="elephant">Elephant</label>

<input type="checkbox" id="tiger" value="Tiger">

<label for="tiger">Tiger</label>

<input type="submit" value="Submit">

</form>

.....
For attribute selects the checkbox when we click on the label.....try removing for

<fieldset> Tag

```
<form>
```

```
  <fieldset>
```

```
    <legend>Personal Details:</legend>
```

```
    <label for="fname">Full Name:</label>
```

```
    <input type="text" id="fname" name="fname"><br><br>
```

```
    <label for="email">Email:</label>
```

```
    <input type="email" id="email" name="email"><br><br>
```

```
    <label for="birthday">Birthday:</label>
```

```
    <input type="date" id="birthday" name="birthday"><br><br>
```

```
    <input type="submit" value="Submit">
```

```
  </fieldset>
```

```
</form>
```

<datalist> Tag

```
<form>
```

```
  <label for="browser">Student Names:</label>
```

```
  <input list="students" id="student">
```

```
    <datalist id="students">
```

```
      <option value="Ria">
```

```
      <option value="Reena">
```

```
      <option value="John">
```

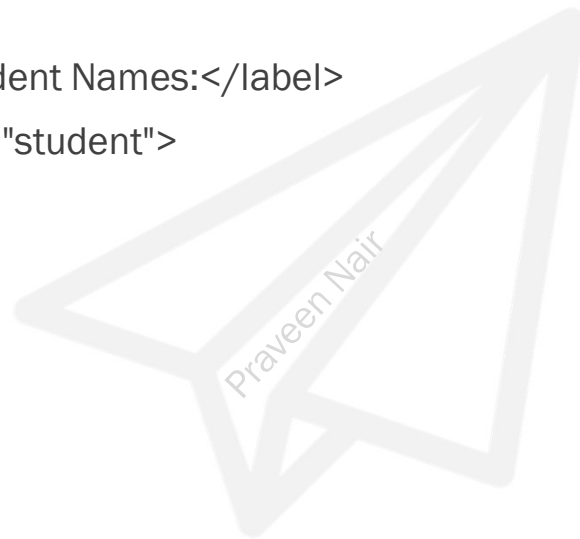
```
      <option value="Sam">
```

```
      <option value="Ron">
```

```
    </datalist><br><br>
```

```
    <input type="submit">
```

```
</form>
```



<iframe> Tag

```
<a href="https://www.skillup.net.in" target="frm">Skillup</a>
```

```
<iframe name="frm" style="width:600px;height:800px;border:none"></iframe >
```

.....

Try creating pages and link all of them to an iframe

 Tag

```

```



<map> Tag

```
<img src=officedesk.jpg usemap=#mymap>
```

```
<map name="mymap">  
  <area shape="default" href="www.google.com">  
  <area shape="poly" coords="34,44,270,350,100,120,280,120" href="www.linkedin.com">  
  <area shape="circle" coords="10,100,300" href="google.com">  
  <area shape="rect" coords="337,300,44" href="www.instagram.com">  
</map>
```

.....
rect - two pairs of x, y coordinates

circle - x,y coordinates followed by a radius

poly - series of x,y coordinate pairs.

default - entire image

Try onclick js function instead of href

<picture> Tag

```
<picture>
```

```
  <source media="(min-width:700px)" srcset="officedesk.jpg">
```

```
  <source media="(min-width:100px)" srcset="colors.png">
```

```
  
```

```
</picture>
```

.....
Resize the window to see different images

<svg> Tag

```
.....  
<svg width="900" height="900">  
  <circle cx="250" cy="400" r="200" stroke="red" stroke-width="5" fill="pink" />  
</svg>
```

```
.....  
<svg width="900" height="900">  
  <ellipse cx="100" cy="70" rx="85" ry="55" fill="red" />  
  <text fill="black" font-size="45" font-family="Verdana" x="50" y="86">SVG</text>  
</svg>
```

```
.....  
<rect x="50" y="20" width="150" height="150" stroke="red" stroke-width="5" fill="pink" />
```

Scalable Vector Graphics

<audio> Tag

<audio controls>

<source src="boot.mp3" type="audio/mpeg">

Your browser does not support the audio element.

</audio>

.....

Try muted in audio controls tag



<video> <source> and <track> Tags

```
<video width="320" height="240" controls autoplay muted>
  <source src="st1.mp4" type="video/mp4">
  <track src="subtitles1.vtt" kind="subtitles" srclang="en" label="English">
  <track src="subtitles2.vtt" kind="subtitles" srclang="in" label="Hindi">
</video>
```

.....
Srclang uses language codes

<a> Tag

```
<a href="https://www.google.com" target="_blank">Google</a><br><br>
```

```
<a href="https://www.google.com" target="framename">Google</a><br><br>
```

.....

Frame name is iframe

Try # in href



, and Tags

```
<ol>
```

```
  <li>Fruits</li>
```

```
  <li>Vegetables</li>
```

```
</ol>
```

```
<ul>
```

```
  <li>Fruits</li>
```

```
  <li>Vegetables</li>
```

```
</ul>
```



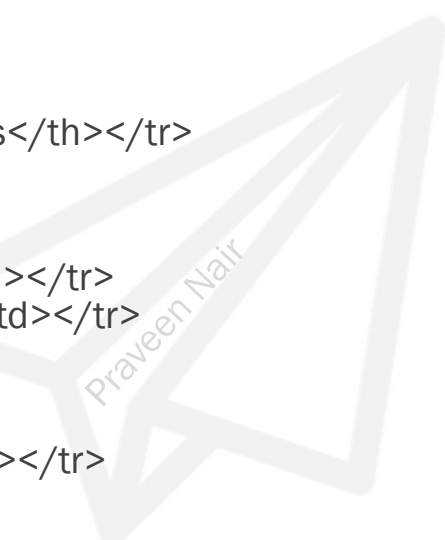
<table>, <tr>, <th> and <td> Tags

```
<table border="1">
  <caption>Marks Card</caption>
  <tr>
    <th>Subject</th>
    <th>Marks</th>
  </tr>
  <tr>
    <td>Maths</td>
    <td>90%</td>
  </tr>
</table>
```



<thead>, <tbody> and <tfoot> Tags

```
<table border="1">
  <thead>
    <tr><th>Subject</th><th>Marks</th></tr>
  </thead>
  <tbody>
    <tr><td>Maths</td><td>80</td></tr>
    <tr><td>Science</td><td>90</td></tr>
  </tbody>
  <tfoot>
    <tr><td>Sum</td><td>170</td></tr>
  </tfoot>
</table>
```



<colgroup> and <col> Tags

```
<table border="1">  
  <colgroup>  
    <col span="2" style="background-color:red">  
    <col style="background-color:yellow">  
  </colgroup>  
  <tr><th>Name</th><th>Course</th><th>Score</th></tr>  
  <tr><td>John</td><td>BE</td><td>90%</td></tr>  
  <tr><td>Jay</td><td>BTech</td><td>80%</td></tr>  
</table>
```

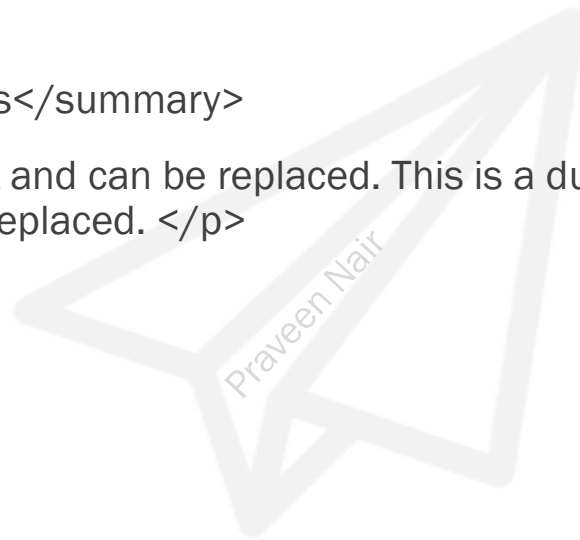
<details> and <summary> Tag

<details>

<summary>Show Details</summary>

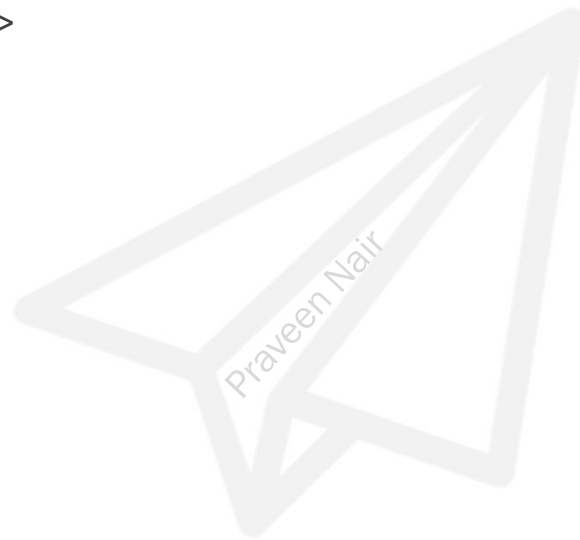
<p>This is a dummy text and can be replaced. This is a dummy text and can be replaced. This is a dummy text and can be replaced. </p>

</details>



<marquee> Tag

<marquee direction = "up">



 Tag

<p>This is a dummy text and and can be replaced.</p>

<p>

Hello

World

</p>

Href to same page using

`Paragraph 1 | Paragraph 2

`

`<p id="p1">`

`<h1>Paragraph 1</h1>`

This is a dummy text and can be replaced. This is a dummy text and can be replaced. This is a dummy text a</p>

Viewport – remove and open on phone

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
  </head>
  <body>
    <div></div>
    <div>
      Lorem ipsum dolor sit amet, consectetur adipisicing elit. Voluptas in
      consectetur error quae maxime blanditiis nulla vero. Enim, placeat? Non
      molestiae, nulla est sint officia totam itaque optio amet velit!
    </div>
  </body>
</html>
```

`<input type=hidden>`

```
<form>
```

```
  <input type="hidden" value="secret code">
```

```
  <input type="submit">
```

```
</form>
```

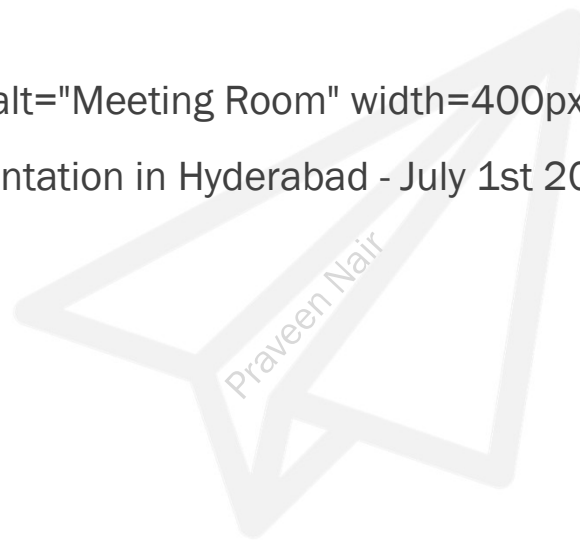


<figure> and <figcaption> Tag

<figure>

<figcaption>Sales Presentation in Hyderabad - July 1st 2022</figcaption>

</figure>



<nav> Tag

```
<nav>
```

```
  <a href="#">Home</a> |
```

```
  <a href="#">About Us</a> |
```

```
  <a href="#">Contact Us</a> |
```

```
  <a href="#">Login</a>
```

```
</nav>
```

.....

Nav tag can be modified using stylesheet

<dl>, <dt> and <dd> Tags

```
<dl>
```

```
  <dt>Fruits</dt>
```

```
  <dd>Apple</dd>
```

```
  <dt>Vegetables</dt>
```

```
  <dd>Carrot</dd>
```

```
</dl>
```



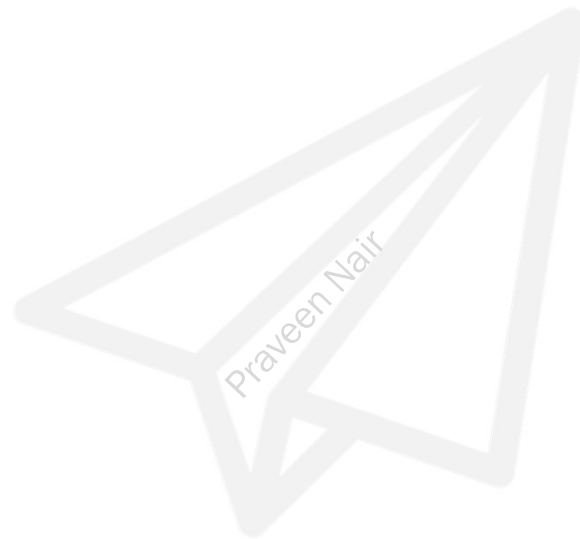
<style> Tag

```
<style>
```

```
  h1 {color:blue;}
```

```
</style>
```

```
<h1>Hello World</h1>
```



<div> Tag

```
<div>
```

```
  <h1>Welcome to IT World</h2>
```

```
  <p>This is a dummy text and can be replaced.</p>
```

```
</div>
```



<section> Tag

```
<section>
```

```
<h2>Introduction</h2>
```

```
<p>This is a dummy text and can be replaced. This is a dummy text and can be replaced.</p>
```

```
</section>
```

```
<section>
```

```
<h2>Chapter 1</h2>
```

```
<p>This is a dummy text and can be replaced. This is a dummy text and can be replaced.</p>
```

```
</section>
```

<header>, <main> and <footer> Tags

```
<article>
```

```
  <header>Ths is a header</header>
```

```
  <main>This is main</main>
```

```
  <footer>This is footer</footer>
```

```
</article>
```



<link> Tag

```
<head>
```

```
  <link rel="stylesheet" href="styles.css">
```

```
</head>
```



<script> and <noscript> Tag

```
<script>
```

```
document.write("Welcome to IT World!")
```

```
</script>
```

```
<noscript>Your browser does not support JavaScript!</noscript>
```



<blockquote> Tag

<p>Details of the study shown below:</p>

<blockquote>

This is a dummy text and can be replaced. This is a dummy text and can be replaced. This is a dummy text and can be replaced.

</blockquote>

<cite> Tag

<p>The <cite>Avatar</cite> was a good movie.</p>



<code> Tag

<p>The HTML input <code>type=number</code> accepts only numbers</p>

<p>The attribute <code>min=20</code> property defines minimum value a number element accept</p>



Thank You

- PRAVEEN NAIR