

HTML

SIMPLIFIED

by @raju_webdev



A HTML Cheatsheet PDF in Pack

www.geekshelp.in

Introduction to HTML

- HTML stands for Hypertext Markup Language.
- It is used to create the structure of the webpage.
- HTML is a markup language not a programming language.
- With only HTML we can create static website.
- It is used to display the data or content on the web browser.
- HTML contains tags and attributes to create webpages.
- Most of the HTML tags are self closing tags.

Structure of HTML

A basic template or piece of code which defines the structure of the HTML document.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title> HTML Series Document Title </title>
</head>
<body>
  <!-- Body content here -->
</body>
</html>
```

- **DOCTYPE:** It defines the type of document.
- **html:** Root element of the html document from where we start writing html code.
- **head:** It is used to contain meta data.
- **title:** Defines the title of the web page.
- **body:** It contains all the content which will be displayed on the web browser.

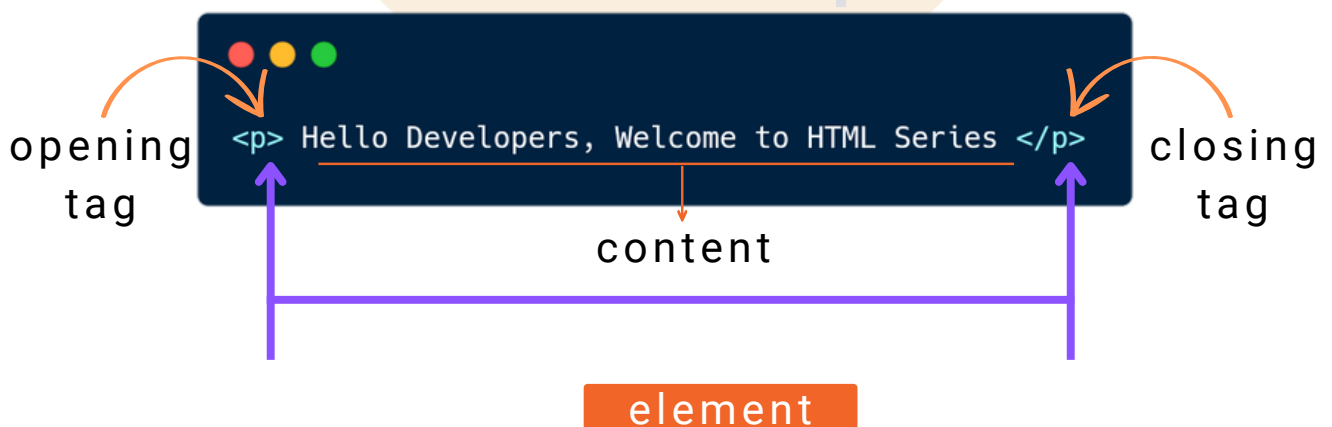
HTML Tags:

Tags are used to markup the html elements or use to hold the html elements.

Example: `<h1>`, `<p>`, `
`, `<table>`, ``, etc.

HTML Element:

HTML element defines that how to display the content of HTML document on the web browser.



HTML Attributes:

Attributes provides the additional information of the element. And it defines in the starting tag.



```
<a href="https://www.geekshelp.in"> Visit Now </a>
```

It specifies the URL of the page.

HTML Tags

- Tags define what will be the format of the content displayed on the web browser.
- HTML Tags mainly have two parts opening tag and closing tag.
- Some HTML tags are self-closing tags.

Using HTML Tags:

Heading

- As the name suggests heading tag is used to create the heading on web pages.
- There are 6 headings available in HTML. From h1 to h6.
- h1 is the largest heading and h6 is the smallest heading.



```
<h1> This is h1 heading </h1>
<h2> This is h2 heading </h2>
.....
<h6> This is h6 heading </h6>
```

Navbar

- `<nav>` tag is used to create navbar.



```
<nav> It is used to create navbar </nav>
```

Header

- `<header>` is used to create page header.



```
<header> It is used for the page header </header>
```

Main

- Used to create main content section of webpage.



```
<main> This is the main content section. </main>
```

Div

- `<div>` tag is used to create division on webpage.



```
<div> This is div tag </div>
```

Section

- `<section>` is used to the particular section. It can contain more than one HTML tags.

```
<section> This is section </section>
```

Paragraph

- `<p>` tag is used to create paragraph

```
<p> Hello Developers, Welcome to HTML Series </p>
```

Span

- `` is used to style the part of text.

```
<span> This is span tag </span>
```

Anchor

- `<a>` tag is used to create hyperlink.

```
<a href="https://www.geekshelp.in"> Visit Now </a>
```

Footer

- `<footer>` tag is used to create footer for webpage.

```
<footer> It is used to create footer </footer>
```

Mark

- `<mark>` tag is used to highlight the background of the text.



```
<mark> This is mark tag </mark>
```

Strike

- `<strike>` used to place horizontal lines on the text.



```
<strike> This is strike text </strike>
```

Button

- `<button>` tag used to create button on web page.



```
<button> Click Button </button>
```

Small

- `<small>` used to display small text.



```
<small> This is small text </small>
```

Pre

- `<pre>` tag is used to create pre-formatted text.



```
<pre> This is pre-formatted text </pre>
```

List

- `` tag is used to create lists.

```
<li> My HTML List </li>
```

Code

- `<code>` tag is used to display source code on web page.

```
<code> alert('JavaScript'); </code>
```

Superscript

- `<sup>` tag is used to create superscript text.

```
<p>( a+b )</p><sup>2</sup>
```

Subscript

- `<sub>` tag is used to create subscript text.

```
<p>H<sub>2</sub>O</p>
```

Meter

- `<meter>` defines the scale for measurement within the given range and a fractional value.

```
<meter value="4" min="0" max="10"></meter>
```


Progress

- `<progress>` is used to create progress bar.

```
● ● ●  
<progress value="32" max="100"> 32% </progress>
```

Time

- `<time>` is used to define time in our webpage.

```
● ● ●  
<p>Time start from: <time>10:00</time> to <time>21:00</time> every day.</p>
```

kbd

- `<kbd>` tag is used to show keyboard key.

```
● ● ●  
<p> Press: <kbd>ctr</kbd> + <kbd>c</kbd> for copy to clipboard </p>
```

Datalist

- `<datalist>` provides the autocomplete feature.

```
● ● ●  
<input list="languages" id="" name="" />  
  <datalist id="languages">  
    <option value="HTML">  
    <option value="CSS">  
    <option value="JavaScript">  
  </datalist>
```

Abbreviation

- `<abbr>` defines the abbreviation or acronym.

```
● ● ●  
<p> Hover on <abbr title="Search Engine Optimization">SEO</abbr> to know the abbrivation </p>
```

Details

- It show/hide the details of summary tag.

```
<details>
  <summary>Do Epic Shit </summary>
  <p>In his first book Ankur Warikoo talks about success and failures,
    importance of habits, self-awareness, entrepreneurship, money and relationships.
  </p>
</details>
```

Cite

- `<cite>` it is basically used to render text in italic.

```
<p> <cite>HTML Simplified</cite> by Raju Webdev</p>
```

Canvas

- `<canvas>` mainly used to draw graphics on a web page.

```
<canvas id="myCanvas" width="200" height="100" style="border:1px solid
#000000;">
</canvas>
```

Text Formatting

- Text formatting tags are used to format the text of HTML documents.
- These are mainly used to display the text in a special type.

Bold

- `` tag is used to bold the text

```
<b>This is bold text</b>
```

Strong

- `` tag is also used to bold but it used to give more importance to the text.

```
<strong> This is special strong text </strong>
```

Italic

- `<i>` tag is used to italic the text.

```
<i> This is an italic text </i>
```

Emphasized

- `` defines the emphasized text.

```
<em> This is emphasized text </em>
```

Underline

- `<u>` is used to under-line the text.

```
<u> This is underline text </u>
```

Delete

- `` tag is used to define the deleted text.

```
<p>In paragraph <del>is deleted</del></p>
```

Insert

- `<ins>` defines a text that has been inserted into the document.

```
<ins> This is an inserted text </ins>
```

Lists

- Lists are used to group the items in a list.
- In HTML, list are: Ordered List, Unordered List, and Description Lists
- List items are created using `` tag.

Ordered Lists

- Ordered List are created using `` tag.
- This type of lists show the data and information in given order.

Unordered Lists

- Unordered List are created using `` tag.
- This type of list represents the data without any specific order.

Description Lists

- This type of List represents elements in definition form like a dictionary.

Ordered Lists

- Ordered List are created using `` tag.
- This type of lists show the data and information in given order.
- Types of ordered list are: 1, A, a, I, i

Example

```
<ol type="A">
  <li> HTML Simplified </li>
  <li> CSS Master </li>
  <li> JavaScript Doctory </li>
</ol>
```

Unordered Lists

- Unordered List are created using `` tag.
- This type of list represents the data without any specific order.
- Type of ordered list are: disc, circle, square, none.

Example

```
<ul type="circle">
  <li> HTML Simplified </li>
  <li> CSS Master </li>
  <li> JavaScript Doctory </li>
</ul>
```

Description Lists

- It is used to represent elements in definition form like a dictionary.
- `<dl>` tag defines the description list, `<dt>` tag defines the term, and the `<dd>` tag describes each term in

Example

```
<dl>
  <dt>HTML Simplified</dt>
  <dd> This is the complete series of HTML </dd>
  <dt> CSS Master </dt>
  <dd> This series will help you to master the CSS </dd>
</dl>
```

Table

- Tables are used to represent data in tabular form on the webpage.
- Tables are the collection of rows or columns.
- Table created using `<table>` tag.

Tags used in Table

Table

`<table>` tag is used to create table.

Table Header

The `<thead>` tag defines the header section of a table.

Table Body

`<tbody>` is used to group the body content in a table.

Table Footer

`<tfoot>` is used to create footer for the table.

Table Head

`<th>` used to define the header of table columns.

Table Row

`<tr>` tag is used to create table row.

Table Column

`<td>` used to create columns in the table.

Example:

Output:

```
<table>
  <thead>
    <th> Name </th>
    <th> Role </th>
  </thead>
  <tbody>
    <tr>
      <td> Raju </td>
      <td> Frontend Developer </td>
    </tr>
    <tr>
      <td> Rehana </td>
      <td> Content Creator </td>
    </tr>
  </tbody>
  <tfoot>
    <tr>
      <td colspan="2"> Creators on Instagram </td>
    </tr>
  </tfoot>
</table>
```

Name	Role
Raju	Frontend Developer
Rehana	Content Creator
Creators on Instagram	

Table Attributes

- We have already discussed that attributes provide additional information about the element.
- Let's see table attributes.

Attributes in Table:

border

It is used to set the border on table.

bgcolor

This attributes used to set the background color of the table.

colspan

This attribute specify the number of columns a cell should span.

rowspan

This attribute specify the number of rows a cell should span.

Example:

```
<table border="1" bgcolor="#cb4cff">
  <thead>
    <th> Name </th>
    <th> Role </th>
  </thead>
  <tbody>
    <tr>
      <td> Raju </td>
      <td rowspan="2"> Frontend Developer </td>
    </tr>
    <tr>
      <td> CodeWithHarshad </td>
    </tr>
    <tr>
      <td colspan="2"> Book Mentorship Now </td>
    </tr>
  </tbody>
  <tfoot>
    <tr>
      <td colspan="2"> Web Development Mentor </td>
    </tr>
  </tfoot>
</table>
```

Multimedia Tags

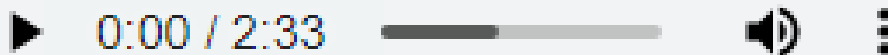
- Multimedia Tags are used to show multimedia files on a web page.
- Media files contain multimedia elements such as audio and video.

Audio

`<audio>` element is used to play an audio file on a web page.

```
<audio controls>
  <source src="myMusic.mp3" type="audio/ogg">
  Audio Cannot play on your device
</audio>
```

Output:



Video

`<video>` element is used to show video on a web page.

```
<video width="320" height="240" controls>
  <source src="video.mp4" type="video/mp4">
  Your browser does not support the video tag.
</video>
```

Embed

<embed> element is used to embed the files like audio, video, and HTML Document on the web page.



```
<embed width="20%" height="auto" src="video.mp4">
```

Object

<object> tag is used to add an external object, multimedia files like audio, images, pdf, flash, video, and other webpages on our webpage.



```
<object data="video.mp4" width="25%" height="auto">  
  Visit Geeks Help  
</object>
```

Output:

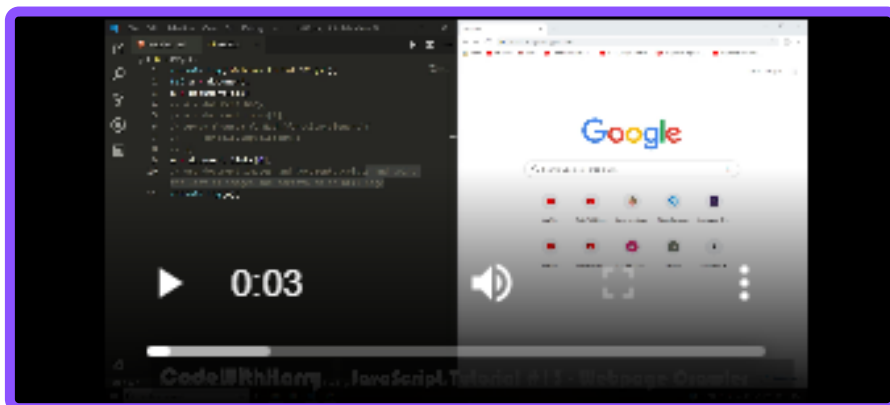


Image Tag

- `` tag is used to add the image on our webpage.
- `` tag don't required any closing tags

Image Attributes

- **src:** It is used to specify the path of the image.
- **alt:** If users are unable to see an image then they will see the alt value.
- **style:** This attribute is used to add the style on the image like, width, height, etc.
- **width:** It is used to specify the width to the image.
- **height:** It is used to specify the height to the image.
- **title:** This attribute is used to set the title on the image.

Using Image Tag

```

```

Output:



I am raju Frontend Web Developer

Anchor Tag

- `<a>` tag is used to create hyperlinks on the web page.
- It contains the content between the opening and closing tag which will be hyper content.

Anchor Tag Attributes

- **href:** This attribute is used to set the URL.
- **target:** This will specify that where the linked content will be opened.
 - **_blank:** This will open the link in a new tab.
 - **_self:** This will open the link in a current browser tab.
 - **_top:** This works the same as **_self**.

Using Anchor Tag

```
<a href="https://www.geekshelp.in" target="_blank"> Geeks Help </a>
```

Output:

[Geeks Help](https://www.geekshelp.in)

Let's do some cool things

i). Link to an email address:

```
<a href="mailto:contact.geekshelp@gmail.com"> Send Email</a>
```

ii). Link a phone number:



```
<a href="tel:+91123456789">123456789</a>
```

iii). Go to a section on webpage:



```
<a href="#section"> Go to Section </a>
```



HTML Form

- Form is a collection of input tags in a HTML document.
- Mainly forms are used to take the data from the user to serve on the server.
- Forms are created using `<form>` tag.

Form Attributes

- **action:** This attribute specifies what action will be taken after submitting the form.
- **target:** This specifies on which browser tab the response will be displayed after form submission.
- **method:** This attribute is used to define the HTTP method used to submit the form.

What a Form Contains?

`<input>`

`<label>`

`<select>`

`<option>`

`<textarea>`

`<button>`

Simple Form Example:

```
<form action="/index.php" target="_blank" method="get">
  Name: <input type="text">
  Last Name: <input type="text">
  <button type="submit">Submit</button>
</form>
```

Output:

Name: Last Name:

Input Tag

- Input tag specifies an input field where the user can enter data.
- Input field is created using `<input>` tag.
- Input tag doesn't need any closing tag.

Types of Input Tag

Text:

```
Name: <input type="text">
```

Output:

Name:

Color:



Color:

Output:

Color:



Date Time:



Date Time:

Date Time:

DateTime Local:



DateTime Local:

DateTime Local:

Email:



Email:

Email:

File:



File:

File: No file chosen

Image:



Image:

Image:

Number:



Number

Number

Password:

Output:



```
Password: <input type="password">
```

Password:

Phone:



```
Phone: <input type="tel">
```

Phone:

Range:



```
Range: <input type="range">
```

Range:

Radio:



```
Radio: <input type="radio">
```

Radio: ☒

Time:



```
Time: <input type="time">
```

Time:

Reset:



```
Reset: <input type="reset" value="reset">
```

Reset:

Output:

URL:



```
URL: <input type="url" name="" id="">
```

URL:

Week:



```
Week: <input type="week">
```

Week:

Checkbox:



```
Check: <input type="checkbox">
```

Check: ☒

Button:



```
Button: <input type="button" value="Button">
```

Button:

Input Tag Attributes

- As in some previous posts, we have learned that attributes provide additional information.
- Now we will learn most common used input tag attributes:

Attributes:

name:

This attribute is used to specify the name to the element.

```
Name: <input type="text" name="text">
```

placeholder:

It represent that what type of value you can insert in the input field.

```
Placeholder: <input type="text" placeholder="Enter your name ... ">
```

disabled:

It is used to disable the input field from the user side.

```
Disabled: <input type="text" disabled value="raju_webdev">
```

value:

This attribute is used to set the initial value to the input field.

```
Value: <input type="text" value="raju">
```

readonly:

This attribute is used to make read-only input field.



```
Readonly: <input type="text" readonly value="raju">
```

required:

This specifies that the input field must be filled.



```
Required: <input type="text" required>
```



Semantic Elements

- The elements in HTML which define their meaning are semantic elements.
- And also these elements describe their content.

Elements:

form

Used to take the data from the user to process on the server.

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

table

Used to represent the data in tabular form.

```
<table> </table>
```

article

Used to contain, blog posts, articles, comments, etc.

```
<article> </article>
```

header

It is used to create the header part on the web page.

```
<header> </header>
```

nav

It is used to create a navigation bar. And it contains many navigation links.

```
<nav> </nav>
```

main

This specifies the main content on the web page.

```
<main> </main>
```

footer

Used to create the footer of the web page.

```
<footer> </footer>
```

section

It is used to create sections on the web page.

```
<section> </section>
```

details

It is used to define additional details that a user can view or hide

```
<details> </details>
```

aside

It is used to create a sidebar on the webpage.

```
<aside> </aside>
```

Non-Semantic Elements

The elements in HTML which don't represent any meaning. And these elements don't describe anything about their content.

Elements:

div

It is used to create the division of content on web page.

```
div ● ● ●  
<div> </div>
```

span

It is used to mark up a part of the text.

```
● ● ●  
<span> </span>
```


Block Elements

- Block elements take the full width of the browser window.
- Block elements start with new lines.

Elements:

○ <article>

○ <aside>

○ <div>

○ <form>

○ h1...h6

○ <header>

○ <hr>

○

○ <main>

○ <nav>

○

○ <p>

○ <section>

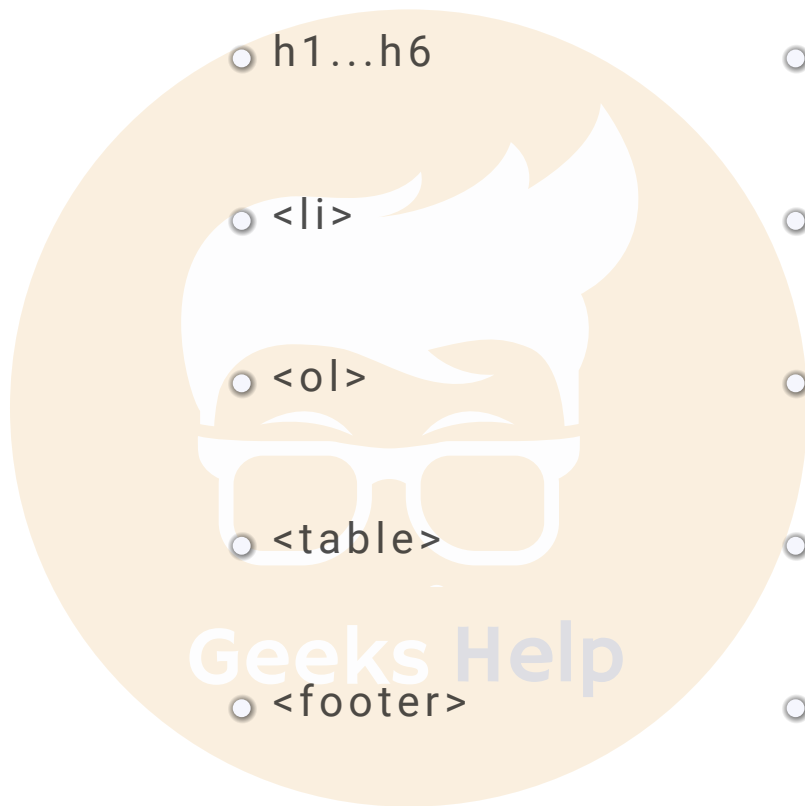
○ <table>

○

○ <video>

○ <footer>

○ <pre>



Inline Elements

- Inline elements take the width which is necessary for the element.
- Inline elements don't start with new lines.

Elements:

○ `<a>`

○ `<abbr>`

○ ``

○ `
`

○ `<cite>`

○ `<code>`

○ ``

○ `<i>`

○ ``

○ `<input>`

○ `<kbd>`

○ `<small>`

○ ``

○ ``

○ `<sub>`

○ `<sup>`

○ `<textarea>`

○ `<time>`



iframe

- iframes are used to embed different pages on the current web page.
- Mainly used to embed videos and advertisements on a single web page.
- iframes are created using **<iframe>** tag.

Syntax:

```
<iframe src="url" title="description" frameborder="1"></iframe>
```

Attributes:

src: Specify the URL of the web page which you want to embed.

title: It is used to describe the contents of the frame.

frameborder: It is used to draw a border around the frame.

height: It is used to set the height to the iframe.

width: It is used to set the width to the iframe.

style: style attribute is used to add custom style on the iframe.

Using iframe

No, it's time to see, how iframe really used and how we can see the iframe output.

```
<iframe src="https://www.geekshelp.in"
        title="Website for web developers and computer science students"
        frameborder="1"
        height="300px"
        width="400px"
        style="border: 5px solid purple;">
</iframe>
```

Output:



HTML Entities

- In HTML, entities are used to display reserved characters.
- HTML entities start with an (&) and ends with a semicolon (;).

HTML Entities are:

Entity Name	Description	Output
&	ampersand	&
<	less than	<
>	greater than	>
 	non-breaking space	
£	pound	£
©	copyright	©
®	registered trademark	®
¢	cent	¢
'	single quotation mark (apostrophe)	'
¥	yen	¥

Using HTML Entities:



```
<p> &copy; All Rights Resered - Geeks Help</p>
```

Output:

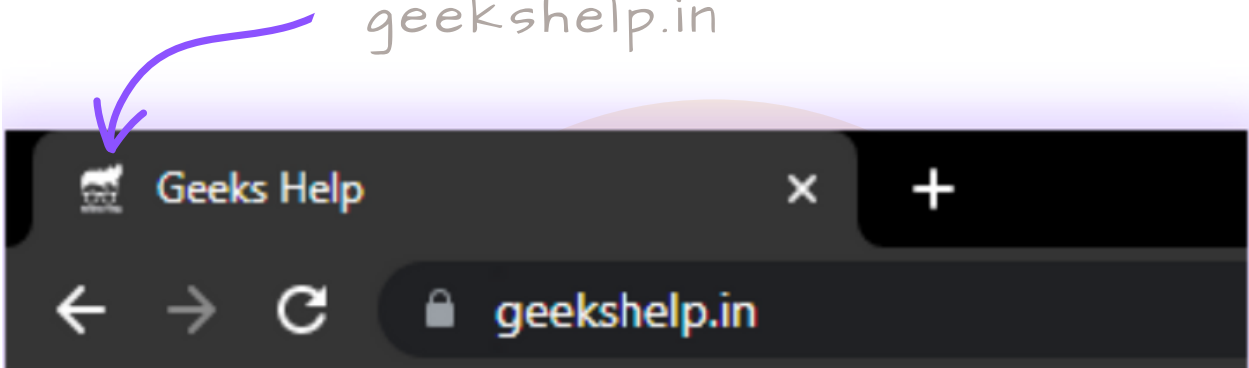
© All Rights Resered - Geeks Help



Favicon

- A favicon is an image displayed before the title of our web page.
- `<link>` tag is used add favicon on web page.

This is favicon
for
geekshelp.in

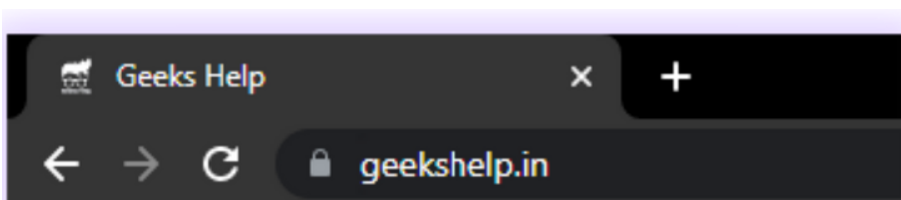


Example:

```
<!DOCTYPE html>
<html>
<head>
  <title> Geeks Help </title>
  <link rel="icon" type="image/x-icon" href="./favicon.ico">
</head>
<body>

</body>
</html>
```

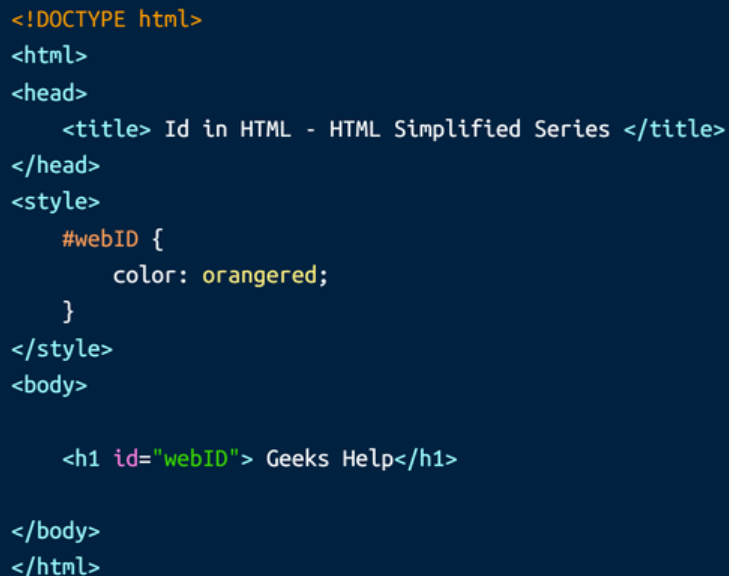
Output:



Id

- Id is used to specify a unique id for an HTML element.
- We cannot add a single id to the multiple HTML elements.
- Id for an HTML element will be unique in the entire HTML document.
- Id is specified using **id** attribute in the HTML element.

Example:



```
<!DOCTYPE html>
<html>
<head>
  <title> Id in HTML - HTML Simplified Series </title>
</head>
<style>
  #webID {
    color: orangered;
  }
</style>
<body>

  <h1 id="webID"> Geeks Help</h1>

</body>
</html>
```

Uses of Id

- In stylesheet it is used to target the specific element.
- Used to access the element in JavaScript.
- Used to jump on the specific section on our Webpage
- In CSS elements with id is accessed using (#) hash.

Classes

- class is used to target the multiple elements from the HTML document.
- We can add the same class to the multiple elements.
- One elements can one or more than one classes.

Example:

```
<!DOCTYPE html>
<html>
<head>
  <title> Class in HTML - HTML Simplified Series </title>
</head>
<style>
  .myPara {
    color: green;
  }
</style>
<body>

  <p class="myPara"> This is first paragraph </p>
  <p class="myPara"> This is second paragraph </p>

</body>
</html>
```

Uses of class

- It used when we want to add the same style on multiple elements with css.
- Also in JavaScript classes are used to access multiple elements.
- In CSS elements with class are accessed using (.) dot.

- 
- Geeks Help
- ◉ **<!-- -->**
 - ◉ **<!DOCTYPE>**
 - ◉ **<a>**
 - ◉ **<abbr>**
 - ◉ **<acronym>**
 - ◉ **<address>**
 - ◉ **<applet>**
 - ◉ **<article>**
 - ◉ **<aside>**
 - ◉ **<audio>**
 - ◉ ****
 - ◉ **<big>**
 - ◉ **<blockquote>**
 - ◉ **<body>**
 - ◉ **
**
 - ◉ **<ins>**
 - ◉ **<kbd>**
 - ◉ **<label>**
 - ◉ **<legend>**
 - ◉ **<button>**
 - ◉ **<canvas>**
 - ◉ **<caption>**
 - ◉ **<center>**
 - ◉ **<cite>**
 - ◉ **<code>**
 - ◉ **<datalist>**
 - ◉ **<dd>**
 - ◉ ****
 - ◉ **<details>**
 - ◉ **<dfn>**
 - ◉ **<div>**
 - ◉ **<dl>**
 - ◉ **<dt>**
 - ◉ ****
 - ◉ **<script>**
 - ◉ **<section>**
 - ◉ **<select>**
 - ◉ **<small>**
 - ◉ **<embed>**
 - ◉ **<fieldset>**
 - ◉ **<figure>**
 - ◉ **<footer>**
 - ◉ **<form>**
 - ◉ **<frameset>**
 - ◉ **<h1> to <h6>**
 - ◉ **<head>**
 - ◉ **<header>**
 - ◉ **<hr>**
 - ◉ **<html>**
 - ◉ **<i>**
 - ◉ **<iframe>**
 - ◉ ****
 - ◉ **<input>**
 - ◉ **<thead>**
 - ◉ **<time>**
 - ◉ **<title>**
 - ◉ **<tr>**

○ ``

○ `<mark>`

○ `<meta>`

○ `<meter>`

○ `<nav>`

○ `<object>`

○ ``

○ `<option>`

○ `<p>`

○ `<pre>`

○ `<progress>`

○ `<base>`

○ `<bdo>`

○ `<data>`

○ `<map>`

○ `<optgroup>`

○ `<q>`

○ ``

○ ``

○ `<style>`

○ `<sub>`

○ `<sup>`

○ `<table>`

○ `<tbody>`

○ `<td>`

○ `<textarea>`

○ `<tfoot>`

○ `<th>`

○ `<basefont>`

○ `<col>`

○ `<dialog>`

○ `<menu>`

○ `<output>`

○ `<svg>`

○ `<track>`

○ `<u>`

○ ``

○ `<video>`

○ `<bdo>`

○ `<q>`

○ `<colgroup>`

○ `<main>`

○ `<link>`

○ `<script>`

○ `<noscript>`

○ `<bdi>`

○ `<colgroup>`

○ `<figcaption>`

○ `<menuitem>`

○ `<param>`



www.geekshelp.in