

# HTML

→ Hyper Text Markup Language

→ It is a language of the website. It is used to create it.

- HTML is used for defining layout of a page
- CSS is used to add styling in the page
- Javascript is used to program logic for the page.

## # A Basic HTML

`<!DOCTYPE html>` → Specifies it is an html5 doc

`<html>` → root of an HTML page

`<head>` → contains page metadata

`<title>. </title>` → contains title

`</head>`

`<body>` → The main body of the page (rendered in browser)

`<h1>.. <h1>` → heading tag

`<h6>.. </h6>`

`<p> </p>` → paragraph tag

`</body>` → closing body tag

`</html>` → closing html tag

→ We can either use .htm or .html extension.

HTML element = Start + Content + End tag

### \* Comment in HTML

<!-- HTML Comment-->

### \* Case Sensitivity

→ HTML is a case insensitive language

→ <H1> & <h1> tags : both are same.

### \* HTML Element

→ Everything from starting to the ending tag

<body> → opening tag  
→ content <

</body> → closing tag

### \* HTML Attributes

→ It is used to add more information corresponding to an HTML tag.

Example : <a href = "www.google.com"> Google </a>  
                ↑  
        anchor  
        tag      ↓  
                href  
                attribute

## # HTML Tags

- (1) <html> </html> → Specifies an HTML doc
- (2) <head> → Specifies head section of an HTML document
- (3) <title> → It is present in head section. Specifies the title of the web page.
- (4) <body> → Specifies the main content of an HTML
- (5) <div> → It is short for "division", is a fundamental block-level element used for creating sections or divisions within a webpage.
- (6) <span> → Unlike div, span tag does not start on a new line and only takes up as much width as its content requires.
- (7) heading tag <h1> - <h6> heading tag is used to mark headings in HTML from h1 to h6, we have tags ~~from~~ <sup>for</sup> the most important to least important heading.
- (8) Paragraph tag <p> → It is used to add paragraph to an HTML page.
- (9) The anchor tag <a> - It is used to add link to an existing content inside an HTML page.

## 10) <img> tag

→ img tag is used to add images in an HTML page:-

`<img src = "image.jpg" >`

↳ relative URL of an image.

## 11) Bold, italic & Underline tag

`<b> ... </b>`

`<i> ... </i>`

`<u> ... </u>`

## 12) br tag

The br tag is used to create line breaks in an HTML document.

## 13) big & small tag

→ We can make the text a bit larger & a bit smaller using big & small tags respectively.

## 14) hr tag

`<hr>` tag in HTML is used to create a horizontal ruler often used to separate the content.

## (5) Subscript & Superscript

We can add subscript & superscripts in HTML as follows:-

$\langle \text{sub} \rangle \dots \langle \text{sub} \rangle \rightarrow \text{subscript}$   
 $\langle \text{sup} \rangle \dots \langle \text{sup} \rangle \rightarrow \text{superscript}$ .

## (6) Pre tag

HTML always ignores extra spaces & newlines.

In order to display a piece of text as it is, we use pre tag.-

$\langle \text{pre} \rangle$       Nitin is  
                very good  
                boy.  
 $\langle \text{/pre} \rangle$

} Outputs Nitin is  
                very good  
                boy.

## # Web browser

→ Unlike other programming, HTML doesn't show output on the any compiler.

→ Web browser reads HTML files & determine how to show content with help of HTML tags.

→ Any web browser can be used to open a '.html' or 'htm' file & view the results.

# Creating a page layout

→ When we use the right tag in right place, it results in a better page layout, better in indexing by search engines & better user experience.

→ We use the following tag to get the job done:-

## Header

(1) <header>



main

(2) <main>

contains  
nav tag

{main}

(3) <footer>



Footer

→ Inside the main tag we insert the following tags:-

<main> → The main opening tag

<section> → A self page section

<article> → A self contained content

</main> → The main closing tag

<aside> → content aside from the content  
(e.g. Ads etc)

→ Creating a page like this is not necessary but it creates a readable & structured layout.

→ Also, they are useful for SEO.

## # Link attributes

`<a href = "/contact"> Contact us </a>`  
↳ Contact page will open in same tab.

`<a href = "/contact" target = "_blank"> Contact us </a>`  
↳ Contact page will open in an new tab.

## # The Div Tag

`<div>` Tag is often used as a container for another elements div is a block level element.  
↳ Always takes full width.

## # The span Tag

`<Span>` Tag is an inline container  
↳ Takes as much width as necessary

Eg: `<div><p> Hello World! </p></div>`      `<span>`  
`<span><p> my name is Nitin Chauhan </p></div>`

