

HTML

HTML - HyperText Markup Language

↑
one web page
is linked to others

↑
Annotations/tags
used to markup
content

What is HTML?

- * Basic building block.
- * It describes the structure of a Web page.
- * It is a skeleton of Web page.
- * It tells browser how to render the content.
- * It is not case sensitive.

Explained

`<!DOCTYPE html>` It defines that this document is an HTML5 document.

`<html>` It is a root element of HTML page.

`<head>` It contains metadata about HTML page.
data about data

`<title>` It specifies a title for the HTML page.
(Which is shown in the browser's title bar)

`<body>` It defines the document's body, and is container for all the visible contents, such as headings, paragraphs, images, hyperlinks, lists, etc.

<h1> It defines a large heading.

<h2> It defines a small heading.

<p> It defines a paragraph.

What is an HTML Element?

An HTML element is defined by a start tag, some content, and an end tag.

<tagname> Hello Dot Batch </tagname>
start tag content end tag
└────────────────────────────────┘
 Element

The HTML element is everything from the start tag to the end tag.

Tags in HTML

HTML tags are keywords which defines that how web browser will format & display the content.

* Tags are enclosed within <> brackets.

Ex - **<p>** **** **<a>**

↓
Paragraph

↓
Image

↓
Link

<tag> content </tag>
Opening tag Closing tag

Exceptions in HTML elements. [Homework]

There are some tags which do not have any closing tag.

HTML elements with no content are called empty elements.

Ex - `
` - It defines a line break.
{ It has no closing tag. }

Self closing tag.

* A self closing tag in HTML is kind of HTML tag that does not need to be closed manually by its closing tag.

* It does not have a separate closing tag as `</tag>`.

* Some of few self-closing tags are -

- `<input/>`

- `<col/>`

- `<hr/>`

- `<link/>`

- `
`

- `<meta/>`

- ``

- - - etc.

When we try to close the empty tag

HTML Attributes

- * All HTML elements can have attributes.
- * Attributes provide additional information about elements.
- * Attributes are always specified in the start tag.
- * Attributes usually come in name/value pair like: `name = "value"`.

href Attribute

The `<a>` tag defines a hyperlink.

Ex - ` Atal Satya `

src Attribute

src attribute specifies the path to the image to be displayed.

Ex - ``

alt Attribute

The required alt attribute for the `` tag specifies an alternative text for an image, if the image for some reason can't be displayed.

Ex - ``

title Attribute

- * The title attribute defines some extra info about an element.
- * The value of the title attribute will be displayed as a tooltip when your mouse is hovered over the element.

Ex - `<p title="I'm a tooltip"> This is a para. </p>`

HTML Styles [will learn more in CSS]

The HTML style attribute is used to add styles to an element, such as color, font, size.

Syntax - `<tagname style="property: value;">`

HTML Text Formatting

HTML contains several elements for defining text with a special meaning.

Ex -

<code></code>	- Bold text	<code><sub></code>	- Subscript text
<code></code>	- Important text	<code><sup></code>	- Superscript text
<code><i></code>	- Italic text		
<code></code>	- Emphasized text		
<code><mark></code>	- Marked text		
<code><small></code>	- Smaller text		
<code></code>	- Deleted text		
<code><ins></code>	- Inserted text		

HTML Quotation and Citation Elements

HTML `<blockquote>`

The HTML `<blockquote>` element defines a section that is quoted from another source.

Ex - `<p> Here is a quote from WWF's website! </p>`
`<blockquote cite="http://www.wwf.org/who/index.html">`
For 60 years, WWF has worked - - - -
- - - - -
`</blockquote>`

HTML `<q>` for short notes

The HTML `<q>` tag defines a short quotation.

Ex - `<p> Learn Our goal is to: <q> Learn Web Dev. </q> </p>`

HTML `<address>` for contact information

The HTML `<address>` tag defines the contact information for the author of a document.

Ex - `<address>`
112, `
`
Thana, `
`
Police station, `
`
UP, `
`
`</address>`

HTML Comments

HTML comments are not displayed in the browser, but they can help in documentation of your HTML source code.

Ex - `<!-- This is a comment -->`

HTML Favicon

A favicon is a small image displayed next to the page title in the browser tab.

⇒ In order to display favicon, we need to add a `<link>` element to your "index.html" file, after the `<title>` element.

Ex - `<!DOCTYPE html>`
`<html>`
`<head>`
 `<title> Favicon </title>`
 `<link rel = "icon" type = "image/x-icon" href = "img.jpg">`
`</head>`
`</html>`

HTML Images

Images can improve the design and the appearance of a web page.

Ex - ``

HTML Lists

HTML lists allow web developers to group a set of related items in lists.

Types of Lists

It is of 3 types—

- 1) Ordered List
- 2) Unordered List
- 3) Description List

* Ordered List

An ordered list starts with the `` tag.

Each list item starts with the `` tag.

Ex — ``
 ` Tea `
 ` Milk `
 ``

Output —

1. Tea
2. Milk

* Unordered List

An unordered list starts with the `` tag.

Each list items start with the `` tag.

Ex — ``
 ` Water `
 ` Tea `
 ``

Output —

- Water
- Tea

* Description List

⇒ A description list is a list of terms, with a description of each item.

⇒ The `<dl>` tag defines the description list, the `<dt>` tag defines the term (name), and the `<dd>` tag describes each term.

Ex - `<dl>`

`<dt>` Coffee `</dt>`

`<dd>` - Black hot drink. `</dd>`

`<dt>` Milk `</dt>`

`<dd>` - White cold drink. `</dd>`

`</dl>`

Output - Coffee

- Black hot drink.

Milk

- White cold drink.