

WEB DEVELOPMENT WORKSHOP

WELCOME TO ALL



HTML



OSRI

Nepal

```
<!DOCTYPE html>
<html>
  <head>
    <title>.....</title>
  </head>
  <body>
    .....
    Hello World
    .....
  </body>
</html>
```

WEB DEVELOPMENT

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HTML



CSS



HELLO EVERYBODY !!

OSRI NEPAL

Free web development class

OSRI is a research group of people from different disciplines of Science and Technology. We aim to provide opportunities for students of any level to gain valuable research experience, develop their skills, and contribute to meaningful projects.



WHAT IS WEB-DEVELOPMENT ?

Web development is the process of creating websites and web applications for the internet, involving design, front-end development, back-end development, and server configuration.

What is HTML?

- ✓ HTML stands for Hyper Text Markup Language
- ✓ HTML is the standard markup language for creating Web pages
- ✓ HTML describes the structure of a Web page
- ✓ HTML consists of a series of elements
- ✓ HTML elements tell the browser how to display the content
- ✓ HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

SOME HTML TERMINOLOGIES

HTML (HYPERTEXT MARKUP LANGUAGE):

The standard markup language used to create the structure and content of web pages.

ATTRIBUTE

Additional information provided within the opening tag of an element to modify its behavior or appearance.

HTML Editor

The Editors which helps to edit/write HTML code. Like as Notepad, VS Code, Sublime Text, etc.

ELEMENT

The building blocks of HTML, represented by tags, that define the structure and content of a web page.

DOCTYPE

The document type declaration (<!DOCTYPE>) specifies the version of HTML used in the document.

TAG

An HTML element is defined by tags, consisting of an opening tag (<tag>) and a closing tag (</tag>), enclosing the content.

BODY

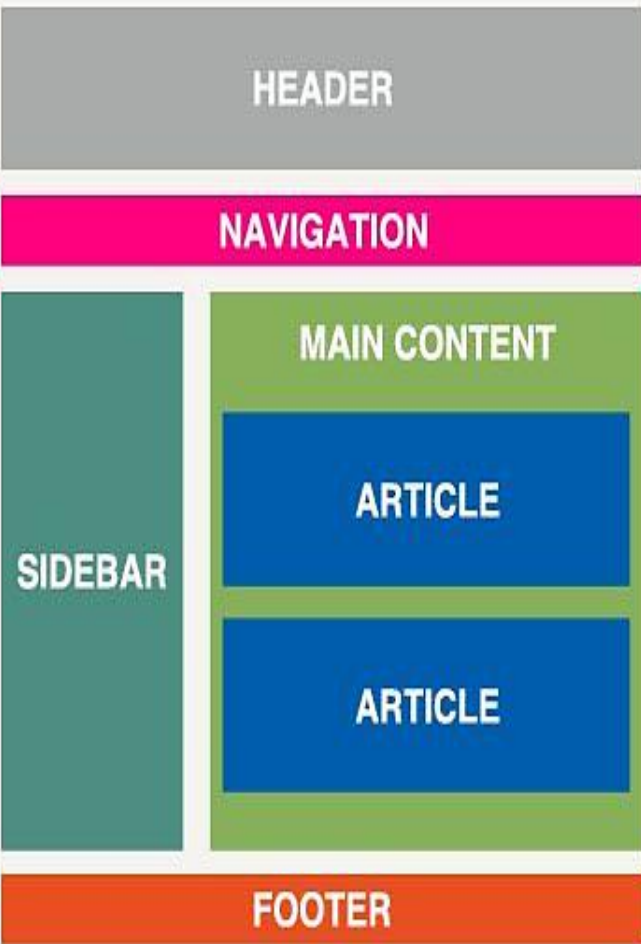
The <body> element contains the visible content of the web page, including text, images, and multimedia.

HEAD

The <head> element contains meta-information about the web page, such as title, links to stylesheets, and metadata.

TITLE

The <title> element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)



`<header>` `</header>`
`<nav>` `</nav>`
`<aside>` `</aside>`
`<section>` `</section>`
`<article>` `</article>`
`<footer>` `</footer>`

HTML PAGE

SYNTAX OF HTML

`<tagname>` Content goes here... `</tagname>`

Empty (or Self-Closing) Tags

These tags do not have a closing tag

`<tagname>`

```
<html>
```

```
<head>
```

```
<title>Page title</title>
```

```
</head>
```

```
<body>
```

```
<h1>This is a heading</h1>
```

```
<p>This is a paragraph.</p>
```

```
<p>This is another paragraph.</p>
```

```
</body>
```

```
</html>
```

BASIC STRUCTURE OF HTML

We must follow this basic structure of HTML in all pages.

ABOUT PROGRAM

- ✓ The `<!DOCTYPE html>` declaration defines that this document is an HTML5 document
- ✓ The `<html>` element is the root element of an HTML page
- ✓ The `<head>` element contains meta information about the HTML page
- ✓ The `<title>` element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)
- ✓ The `<body>` element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    .....
    .....
  </body>
</html>
```


TAG

**CLOSE
TAG**

`Emphatic!`

ELEMENT CONTENTS

BITS OF TEXT

HTML TAGS

An HTML element is defined by tags, consisting of an opening tag (`<tag>`) and a closing tag (`</tag>`), enclosing the content.

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>

<body>
Hello World
</body>

</html>
```

Output:

Hello World

DOCTYPE TAG

Syntax: `<!DOCTYPE html>`

FUNCTION

To declare the HTML5 page

Example:

```
<!DOCTYPE html>
<html>
  <head>
<title>Title of the document</title>
  </head>
  <body>
    .....
    .....
  </body>
</html>
```

Output:

HTML <HTML> TAG

Syntax: `<html>.....</html>`

FUNCTION

To create root of HTML page

Example:

```
<!DOCTYPE html>
<html>
<head>
  <title>Title of the document</title>
</head>
<body>

.....

.....

</body>
</html>
```

Output:

HTML <BODY> TAG

Syntax: **<body>.....</body>**

FUNCTION

To create body of documents/page

Example:

```
<!DOCTYPE html>
<html>
  <head>
<title>Title of the document</title>
  </head>
  <body>
    .....
    .....
  </body>
</html>
```

Output:

HTML <HEAD> TAG

Syntax: <head>.....</head>

FUNCTION

To create head for meta info. of HTML page

Example:

```
<!DOCTYPE html>
<html>
  <head>
<title>Title of the document</title>
  </head>
  <body>
    .....
    .....
  </body>
</html>
```

Output:

HTML <TITLE> TAG

Syntax: `<title>.....</title>`

FUNCTION

To create title of HTML page

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>.....</title>
</head>
<body>
```

```
<!-- Comments are not displayed in the
browser -->
```

Hello World

```
</body>
```

```
</html>
```

Output:

Hello World

COMMENT TAG

Syntax: `<!--Comments-->`

FUNCTION

To write comments in program

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
<p>This is a paragraph.</p>
<p>This is a paragraph.</p>
</body>
</html>
```

Output:

```
This is a paragraph.
This is a paragraph.
```

HTML <P> TAG

Syntax: `<p>paragraph</p>`

FUNCTION

To write paragraph in program

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
<b>This Is Bold Text</b>
</body>
</html>
```

Output:

This Is Bold Text

HTML TAG

Syntax: **text**

FUNCTION

To bold the text in program

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
<p>This Is new Text</p>
<br>
<p>This Is new Text</p>
</body>
</html>
```

Output:

```
This Is new Text
This Is new Text
```

HTML
 TAG

Syntax:
.....

FUNCTION

To break the line in program

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
<em>This is OSRI</em>
</body>
</html>
```

Output:

This is OSRI

HTML TAG

Syntax: `text`

FUNCTION

To change the fonts in italic

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
<i>This is OSRI</i>
</body>
</html>
```

Output:

This is OSRI

HTML <I> TAG

Syntax: `<i>text</i>`

FUNCTION

To change the fonts in italic

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
  <h1>This is heading 1</h1>
  <h2>This is heading 2</h2>
  <h3>This is heading 3</h3>
  <h4>This is heading 4</h4>
  <h5>This is heading 5</h5>
  <h6>This is heading 6</h6>
</body>
</html>
```

HTML <H1> TO <H6> TAGS

Syntax: <H1>Heading</H1>

FUNCTION

To create header in web page

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
<p>This is a paragraph.</p>
<hr>
<p>This is a paragraph.</p>
</body>
</html>
```

Output:

This is a paragraph.

This is a paragraph.

HTML <HR> TAG

Syntax: `paragraph<hr>.....`

FUNCTION

To separate paragraph in program

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
    <u>This is heading of OSRI</u>
</body>
</html>
```

Output:

This is heading of OSRI

HTML <U> TAG

Syntax: **<u>.....</u>**

FUNCTION

To create underline on text

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
    H<sub>2</sub>O
    (a+b)<sup>2</sup>
</body>
</html>
```

Output:

HTML <SUB> & <SUP>TAG

Syntax: **_{.....}**

FUNCTION

To defines subscript & superscript the text


```
<h1 align = "center">
```



tag

attribute

value

HTML ATTRIBUTES

Additional information provided within the opening tag of an element to modify its behavior or appearance.

HTML LINKS TAG

Syntax:

```
<a href="url">link text</a>
```

FUNCTION

To hyperlink with web pages

- ❑ **href** - Specifies the link of another page

Example:

```
<!DOCTYPE html>  
<html>  
<head>  
<title>Title of the document</title>  
</head>  
<body>
```

```
<a href="https://www.jsdhami.com.np/">Visit  
My Website </a>
```

```
</body>  
</html>
```

HTML A TAG

Syntax:

```
<a href=""> ..... <a>
```

FUNCTION

To create hyper link

❑ Href- link to another page

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
<nav>
  <a href="/html/">HTML</a> |
  <a href="/css/">CSS</a> |
  <a href="/js/">JavaScript</a> |
  <a href="/python/">Python</a>
</nav>
</body>
</html>
```

HTML NAV TAG

Syntax:

```
<nav> ..... <nav>
```

FUNCTION

To create nav bar

❑ **Href-** link to another page

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
<nav>
  <a href="/html/">HTML</a> |
  <a href="/css/">CSS</a> |
  <a href="/js/">JavaScript</a> |
  <a href="/python/">Python</a>
</nav>
</body>
</html>
```

HTML IFRAME

Syntax:

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

FUNCTION

To hyperlink with web pages

- ❑ **src** - Specifies the link of page
- ❑ **Height**- Specifies the height of Embedded page
- ❑ **Width**- Specifies the width

Example:

```
<!DOCTYPE html>  
<html>  
<head>  
<title>Title of the document</title>  
</head>  
<body>
```

```
<iframe src="https://jsdhami.com.np/"  
height="200" width="300" title="Iframe  
Example"></iframe>
```

```
</body>  
</html>
```

HTML IMAGES TAG

Syntax:

```

```

FUNCTION

To Insert Images in web pages

- ❑ **src** - Specifies the path to the image
- ❑ **alt** - Specifies an alternate text for the image

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>



</body>
</html>
```

The li, ol and ul elements

Syntax:

`..and..`

FUNCTION

To create ol or ul list

Example:

Note: For Value attributes

`<li value="5">.....`

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>
```

`<p>The ol element defines an ordered list:</p>`

```
<ol>
<li>Coffee</li>
<li>Tea</li>
<li>Milk</li>
</ol>
```

`<p>The ul element defines an unordered list:</p>`

```
<ul>
<li>Coffee</li>
<li>Tea</li>
<li>Milk</li>
</ul>
</body>
</html>
```


The Table, tr, td Elements

Syntax:

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

FUNCTION

To create table for data etc.

Example:

```
<!DOCTYPE html>
<html>
<head>
<title>Title of the document</title>
</head>
<body>

<table border="1px">
  <tr>
    <th>Month</th>
    <th>Savings</th>
  </tr>
  <tr>
    <td>January</td>
    <td>$100</td>
  </tr>
  <tr>
    <td>February</td>
    <td>$80</td>
  </tr>
</table>
</body>
</html>
```

HTML <source> Tag

Syntax:

```
<source>.....</source>
```

FUNCTION

To connect source file

- ❑ **src** - Specifies the link of file
- ❑ **Height**- Specifies the height of Embedded page
- ❑ **Width**- Specifies the width
- ❑ **Type** – types of file

Example:

```
<!DOCTYPE html>  
<html>  
<head>  
<title>Title of the document</title>  
</head>  
<body>  
<video controls>  
<source src="movie.mp4" type="video/mp4">  
</video>  
</body>  
</html>
```

FIRST WORKSHOP COMPLETED

THANK YOU !

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