

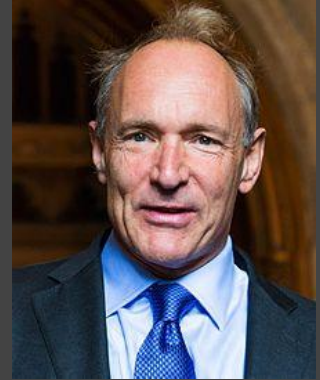


# HTML5



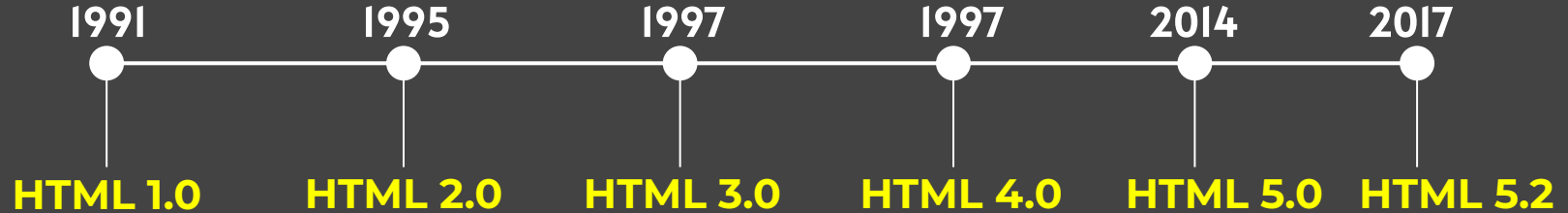
# Introduction

- HTML belongs to the family of Markup Languages. Some Popular examples are XML, SGML, SVG, Markdown, XHTML etc.
- HTML was specified by **Tim Berners-Lee in 1990** while developing the first browser ever of the Internet.



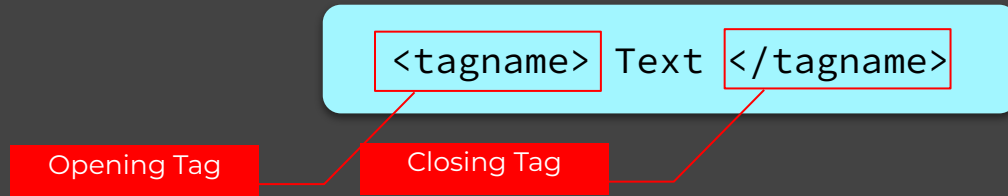
Tim Berners-Lee

## Version History of HTML :



# HTML Structure

HTML is a tag based language in which each document element is identified by a specific tag name.



There are two types of tags :

`<tagname> Text </tagname>`

Paired Tags

`<tagname />`

Unpaired Tags

# HTML Page Structure

- Whole document is contained in the **HTML tags**.
- **Head Tags** contains the important information about the page.
- **Body Tags** contains all the contents to be viewed on the page.

```
<!DOCTYPE html>  
<html>
```

**Head**

```
<head>
```

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

```
</head>
```

```
<body>
```

```
<h1>My First Heading</h1>
```

```
<p>My first paragraph.</p>
```

```
</body>
```

```
</html>
```

**Body**

# Important HTML tags

Tag	Description	Example
<code>&lt;h1&gt;, &lt;h2&gt;, .&lt;h6&gt;</code>	Heading Tags - Used for declaring headings	<code>&lt;h1&gt;</code> Heading of page <code>&lt;/h1&gt;</code>
<code>&lt;p&gt;</code>	Paragraph Tags - Used for writing paragraphs	<code>&lt;p&gt;</code> This is a paragraph <code>&lt;/p&gt;</code>
<code>&lt;a&gt;</code>	Anchor Tag - Used for giving hypertext links	<code>&lt;a href = “/signup” &gt;</code> Sign up here <code>&lt;/a&gt;</code>
<code>&lt;img&gt;</code>	Image Tag - Used for displaying images	<code>&lt;img src= “an_image.jpg”&gt;</code>
<code>&lt;title&gt;</code>	Title Tag - Used to give the title for browser.	<code>&lt;title&gt;</code> Page Title <code>&lt;/title&gt;</code>

# Important HTML tags

Tag	Description	Example
<code>&lt;li&gt;</code>	List Item - It is used for giving items in a list	<code>&lt;li&gt; a list item &lt;/li&gt;</code>
<code>&lt;ol&gt;</code>	Ordered List - It is used to declare an ordered list	<code>&lt;ol&gt;</code> <code>&lt;li&gt; item1 &lt;/li&gt;</code> <code>&lt;li&gt; item2 &lt;/li&gt;</code> <code>&lt;/ol&gt;</code>
<code>&lt;ul&gt;</code>	Unordered list - It is used for declaring an unordered list	<code>&lt;ul&gt;</code> <code>&lt;li&gt; item1 &lt;/li&gt;</code> <code>&lt;li&gt; item2 &lt;/li&gt;</code> <code>&lt;/ul&gt;</code>

# Important HTML tags

Tag	Description	Example
<code>&lt;b&gt;</code>	bold text	<code>&lt;h1&gt; &lt;b&gt;Doing something important&lt;/b&gt; &lt;/h1&gt;</code>
<code>&lt;br&gt;</code>	Line break	<code>&lt;br&gt;</code>
<code>&lt;button&gt;</code>	Clickable button	<code>&lt;button&gt;Click to enter&lt;/button&gt;</code>
<code>&lt;del&gt;</code>	Deleted text	<code>&lt;p&gt;I have a &lt;del&gt;Ferrari&lt;/del&gt; maruti &lt;/p&gt;</code>
<code>&lt;sub&gt;</code>	subscript	<code>&lt;p&gt;H&lt;sub&gt;2&lt;/sub&gt;O&lt;/p&gt;</code>
<code>&lt;sup&gt;</code>	superscript	<code>&lt;p&gt; 2&lt;sup&gt;3&lt;/sup&gt; is 8&lt;/p&gt;</code>
<code>&lt;em&gt;</code>	emphasis(italics)	<code>&lt;p&gt;Did you watch &lt;em&gt;Avengers Endgame&lt;/em&gt;&lt;p&gt;</code>

# Attributes

Every tag in HTML can contain some property which are called attributes.

```
<tag_name attribute = "value" > some_text </tag_name>
```

Anchor tag (**<a>**) contained its link address in **href** attribute .

Image tag (**<img>**) contained its media source address in **src** tag.

Similar to these other tag can contain attributes such as **class, id, style, height, width** etc.



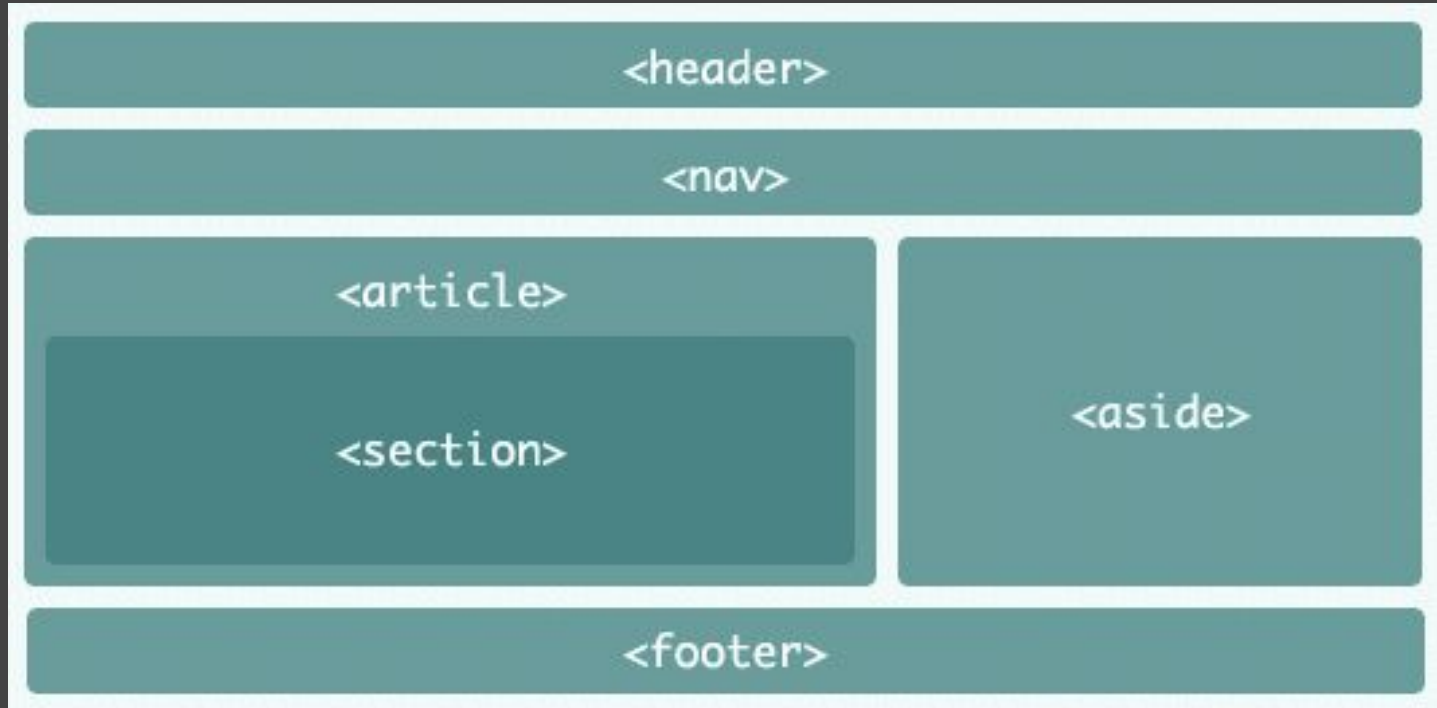
# Image tag attributes

Attribute	Description
src	Used to define source of image
alt	Give alternative name of image
border	Give the image a border
width/height	Defining width and height of image
title	Give the title to image
class	Give the class name to html element
id	Give an id to html element

# Important HTML5 tags

HTML5 tag	Description
nav	Used to declare a navigation bar
article	Used to display an independent content such as post or a blog.
Section	Used to describe a particular part of the web page.
detail	Used to display additional information.
time	Used to display the time.
progress	Displays a progress bar.
mark	Used for highlighting the text.
datalist	For input list

# New HTML5 semantics

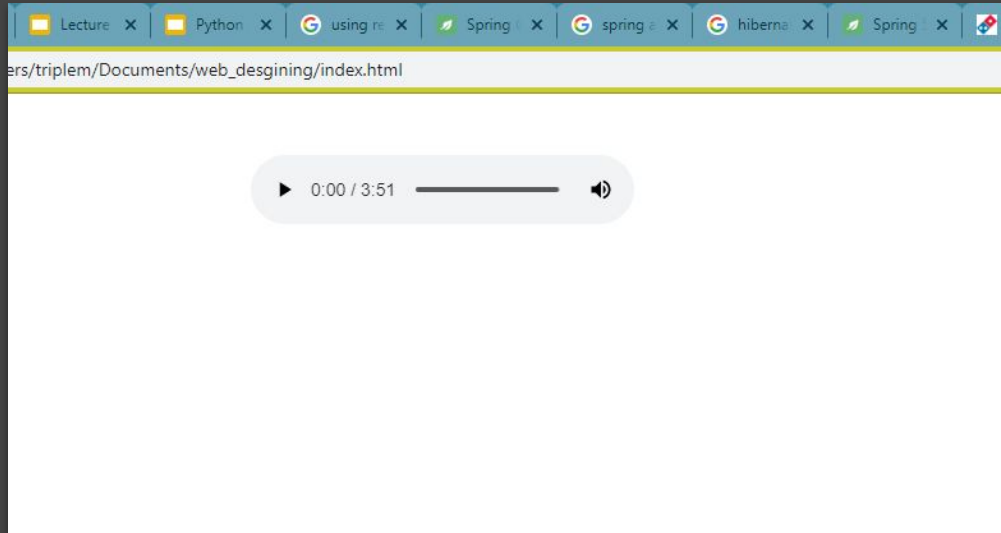


# Video tag

```
<video src= “video.mp4” controls></video>
```

# Audio tag

```
<audio src= "audio.mp3" controls></audio>
```



# What we learnt Today?

- Types of HTML tags
- Attributes
- Basic HTML tags
- HTML5 tags