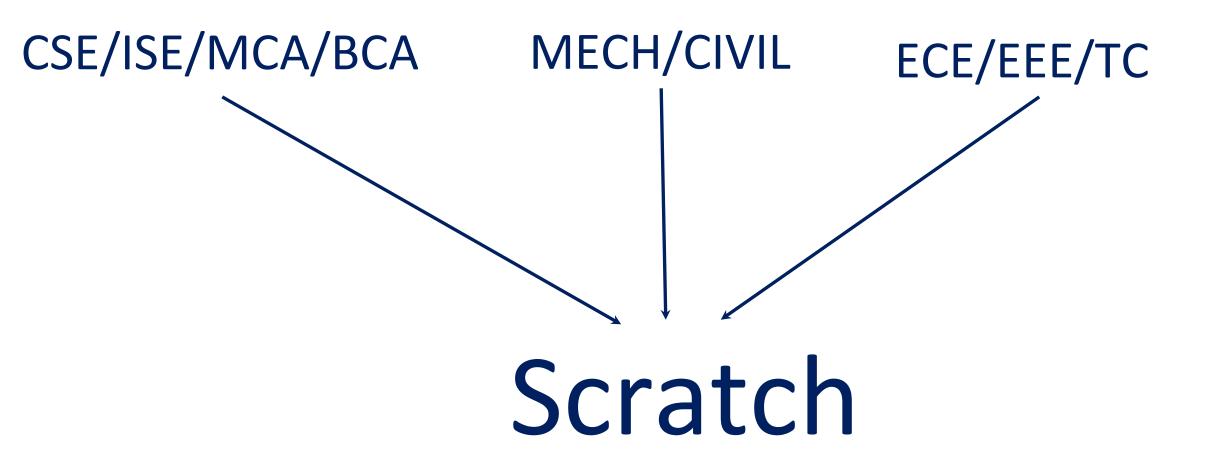


# HTML 5

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#### **Course Outline**



- ☐ What is HTML?
- **☐** Features of HTML
- ☐ History of HTML
- ☐ HTML Tags
- **☐** HTML Attributes
- **☐** Structure of HTML
- ☐ HTML Paragraph and Break

- ☐ HTML Image
- ☐ HTML List
- ☐ HTML Table
- ☐ HTML Form

### What is WEB Technologies?



1991 → Tim Berners Lee → HTML → Structure/Skeleton/Layout



1994 → Hakon Wium Lie → CSS → Design/Makeup



First name of JS

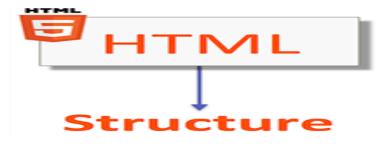
ctions and Validation

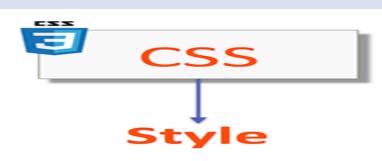
1995 --- Brendan Eich --- Mocha ---- Javascript ---- Actions and Validation



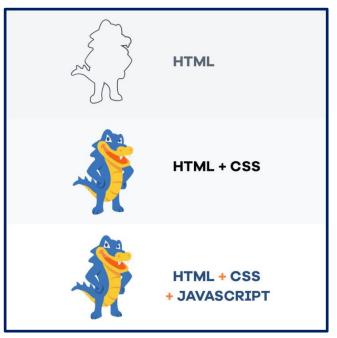




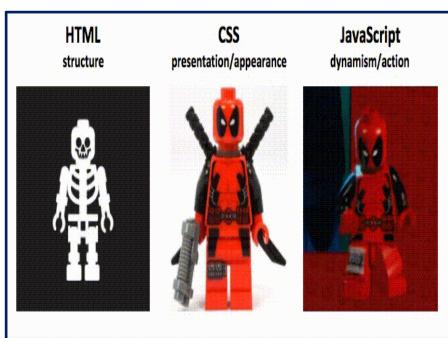












#### **Bootstrap**

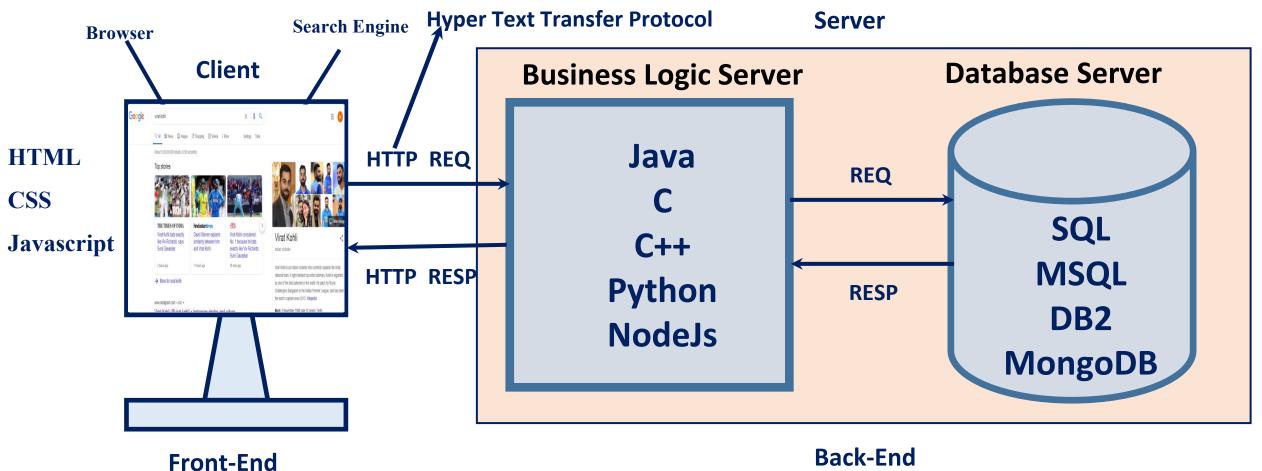


- **Bootstrap** is a free and open-source CSS framework, Used to develop responsive web applications.
- It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.



### Request Response Model



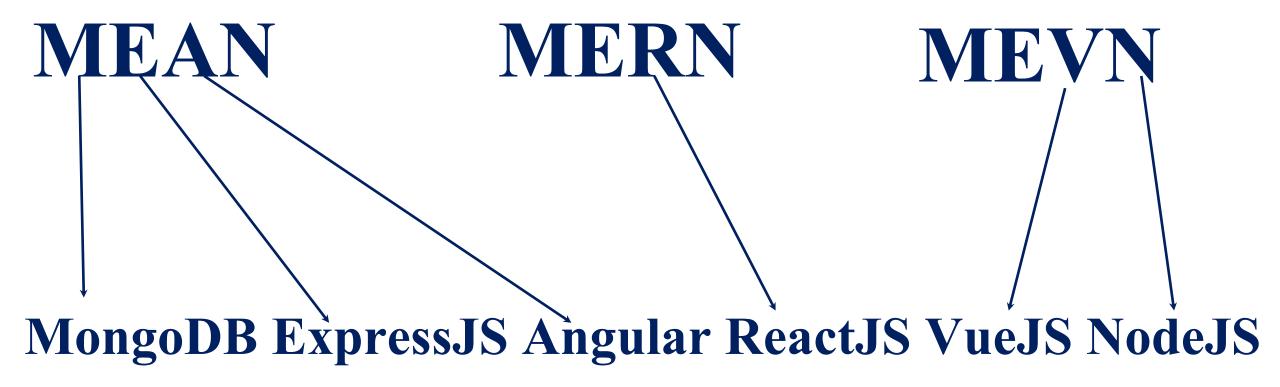


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### **Javascript Full Stack Development**





### **History of Html**





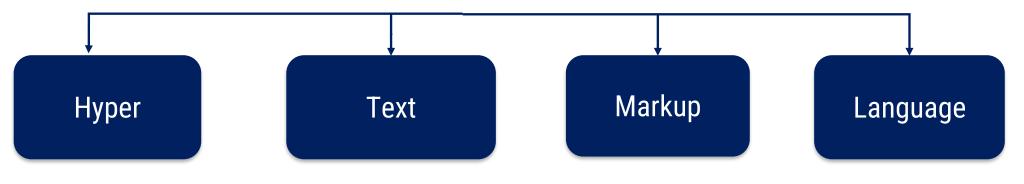
- HTML —which is short for HyperText Markup Language— is the official language of the World Wide Web.
- HTML was first conceived in 1990.
- HTML is a product of SGML (Standard Generalized Markup Language) which is a complex.
- HTML especially developed to link documents electronically using hyperlinks.
- The current version of Html is **Html 5.0**

#### What is HTML?

HTML describes the structure of web pages







Reference/link

**Data/information Predefined / Marked Communication** 

#### **Features of Html**



- Html stands for Hyper Text Markup Language.
- Html mainly use for design a client side web pages.
- Html is used to create static web pages.
- Html is case in-sensitive.
- Html is simple and easy language.
- Html programs are executed by the browser when the file is opened in the browser.
- Html programs should be saved with .htm or .html extension.

### HTML Tag



- An HTML code that defines every structure on an HTML page.
- It includes the placement of text and images and hypertext links.
- HTML tags begin with the less-than (<) character and end with greater-than (>).
- These symbols are also called angle brackets.

### Types of Tags



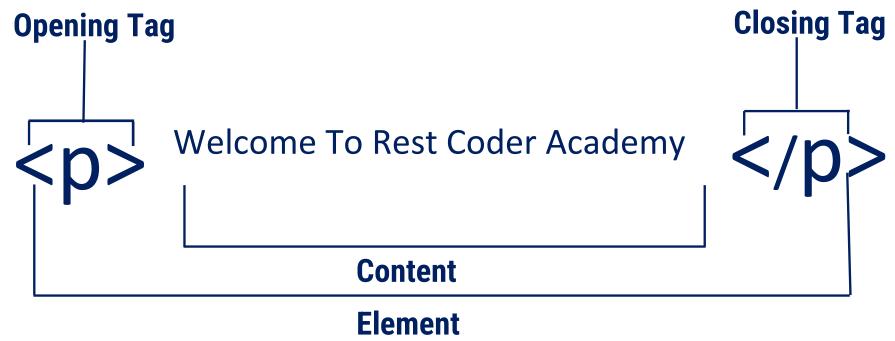
1.Paired Tags/Closed Html Tags

2. Singular Tags/Unpaired tags/Self-closing Tags

### Paired Tags/Closed Tags



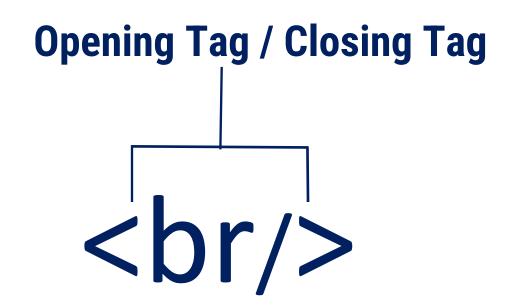
- Paired tags have an opening and closing tag.
- The opening tag is similar to the single tag, and the closing has forward slash.
- Between an opening and closing tag, write some content (text, images or something else).
- Content can be other tag also.



### **Unpaired Tags/Self-closing Tags**



Unpaired tag has both opening and closing tag in a single tag.



Note: Forward slash is not mandatory for unpaired tags. Unpaired tags also known as empty elements.

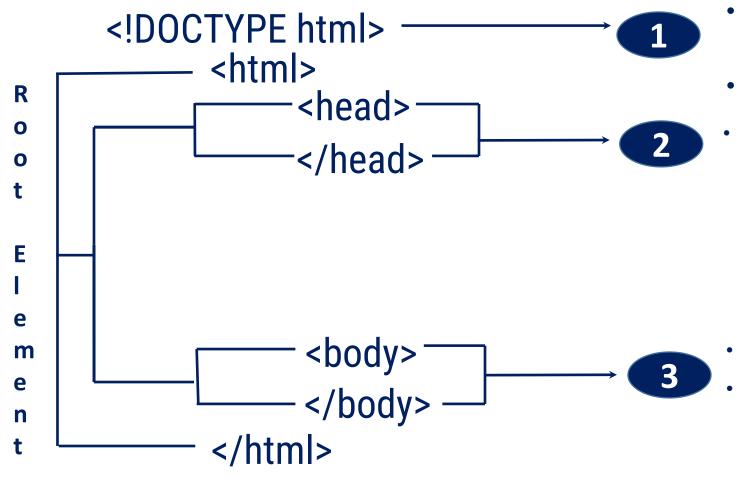
#### **Attributes**



- Attributes provide additional information about an element
- Attributes are always specified in the start tag
- Attributes usually come in name/value pairs like: name="value"

#### Structure of HTML





- The <!DOCTYPE> declaration must be the very first thing in your HTML document.
- It indicates Version Information( HTML5)
- <head> tag is used to contain specific information about a web page

- The <body> tag defines the document's body.
- The <body> element contains all the contents of an HTML document, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.

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### **Head Tag**



<head>

- The <meta> tag defines metadata about an HTML document. Metadata is data (information) about data.
- <meta/>
- Metadata will not be displayed on the page, but is machine parsable.
- Metadata is used by browsers (how to display content or reload page), search engines (keywords), and other web services.
- link> tag is used add iCON to the web page.
- link> tag is used to add External CSS file.

- <title> tag is used add title to the web page.
- File name will be displayed if don't use <title> tag.
- <style>CSS Properties</style>-----
- <style> tag is used CSS Properties.
- <script>Javascript code</script> -
- <script> tag is used JavaScript code.
- We can use inside both <head> and <body> tag.

</head>

But good practice is to use it inside the **<body>** as the **last** tag

## Paragraph and Break <br > Tag



- The HTML tag represents a paragraph.
- Paragraphs are usually represented in visual media as blocks of text separated from adjacent blocks by blank lines and/or first-line indentation.
- The <br/>br> tag is an inline element used to create a single line break in a document.

### Headings



- The heading tag is used in HTML to define headings of a page.
- Headings are defined by <hn>.
- "n" being a number between 1 and 6.
- <h1>, <h2>,<h3>,<h4>,<h5> and <h6> are the different types of headings.
- Heading <h1> defined the most important heading and <h6> define most least heading.
- <h1> text is big in size and <h2> text is smaller than <h3> text and <h4> text is smaller than <h5> text and so on..

### Image Tag and Attributes <img>



<img> tag used to display images on web page.

SI No	Attribute Name	Parameter/Values	Description
1	Src	Image Path, Image Name, Image Address	Are used for specify the source file from where you want to display image.
2	Alt	Any Name	Are used to specify alternate text to display in the place of image when browser is unable to display image.
3	Title	Any Name	Are used to specify a title for the image that will be displayed when mouse is placed over the image for few seconds.
4	Height	PX,%	Are used to specify height of image.
5	Width	PX,%	Are used to specify Width of image.

#### List



- Html list are used to arrange HTML elements in list format. Html provide three types of list.
- Ordered List or Numbered List ().
- Unordered List or Bulleted List ().
- Description list <dl>. Note: Not Required
- The tag is used inside ordered lists (), unordered lists ().
- tag defines a list item.

SI No	Attribute Name	Parameter/Values	Description
1	Туре	1(Default), a, A, I, i	Specifies the type of list marker that should be used on each item of a list.
2	Start	Any Number	Defines the starting number in an ordered list.

### Marquee Tag <marquee>



• Marquee tag are used for display the moving content on the web browser.

SI No	Attribute Name	Parameter/Values	Description
1	Behavior	Scroll(Default),Slide,Alternat	To Change the Behaviour
2	Direction	Left(Default),Right,Up,Down	To Change the Direction
3	Bgcolor	Colour name/ Colour Code	To Apply Background Colour
4	Scrollamount	Any Number	To increase the Speed
5	Loop	Any Number	For Repeatation
6	Height	PX,%	Are used to specify height of Marquee tag.
7	Width	PX,%	Are used to specify Width of Marquee tag.

### Table, Tr, Th, Td Tags



- HTML tables are created using the tag
- Table is a collection of cells in HTML
- Table row is defined using 
  tag
- Table header is defined with tag
- Table data/cell is defined with tag

### Table and td/th Attributes



SI No	Attribute Name	Parameter/Values	Description
1	Border	PX,%	To apply Border to the table
2	Cellspacing	PX,%	To apply space between cells
3	Cellpadding	PX,%	To apply space between content and border of cell
4	Rules	Rows,Cols,all	To represent table in the form of rows and colomns
5	Height	PX,%	To increase or decrease the height.
6	Width	PX,%	To increase or decrease the width.
or			
1	Valign	Middle(Default),Top,Bottom	To align the Content Verticaly
2	Colspan	Any Number	Is used to specify the number of <b>columns</b> a cell should span( <b>merge</b> )
3	Rowspan	Any Number	Is used to specify the number of <b>rows</b> a cell should span( <b>merge</b> )

### Anchor Tag <a> (Hyperlinks)



• <a> tag is used to create **Hyperlinks** that allow the users to navigate from one page to another.

SI No	Attribute Name	Parameter/Values	Description
1	Href	Url/File Name	<b>Href</b> attribute specifies the destination address
2	Title	Any name	Are used to specify a <b>title</b> for the image that will be displayed when mouse is placed over the image for few seconds.
3	Target	_Parent(Default),_Blank	<b>Target</b> attribute specifies where to open the linked document like open in new window, open in same window.
4	Download	Any name	The <b>download attribute</b> specifies that the target will be <b>downloaded</b> when a user clicks on the hyperlink

#### Forms <form>



- HTML **Forms** are required, when you want to collect some data from the user.
- Forms contains controls such as text fields, email field, password fields, checkboxes, button, radio buttons, submit button, menus etc
- For example when you fill the registration **form** lot of information given by user and these information server get from web page using form element..

SI No	Tag Name	Description
1	<input/>	The <input/> tag specifies an input field where the user can enter data.
2	<textarea>&lt;/td&gt;&lt;td&gt;The &lt;textarea&gt; tag defines a multi-line text input control. The &lt;textarea&gt; element is often used in a form, to collect user inputs like comments or reviews.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;3&lt;/td&gt;&lt;td&gt;&lt;select&gt;&lt;/td&gt;&lt;td&gt;The &lt;b&gt;&lt;select&gt; element&lt;/b&gt; has some unique attributes you can use to control it, such as multiple to specify whether multiple options can be selected. &lt;b&gt;(Dropdown)&lt;/b&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;4&lt;/td&gt;&lt;td&gt;&lt;option&gt;&lt;/td&gt;&lt;td colspan=2&gt;The &lt;option&gt; tag defines an option in a select list.&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;5&lt;/td&gt;&lt;td&gt;&lt;button&gt;&lt;/td&gt;&lt;td&gt;The &lt;b&gt;&lt;button&gt; tag&lt;/b&gt; defines a clickable &lt;b&gt;button&lt;/b&gt;.&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</textarea>	

### Input Tag <input>



SI No	Attributes Name	Parameter/Values
1	Туре	Text, Password, Submit, Reset, URL, Email, Radio , Button, Checkbox ,Date, Time, File , Number, Week,Color
2	Placeholder	Any Name
3	Value	Any Name
4	Name	Any Name
5	Id	Any Name
6	Size	PX,%
7	Maxlength	Any Number
8	Minlength	Any Number
9	Required	
10	Checked	
11	Disabled	

### **Select and Textarea**



#### Select <select>

SI No	Attributes Name	Parameter/Values	Description
1	Rows	Any Number	To increase height of <textarea>&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;2&lt;/td&gt;&lt;td&gt;Cols&lt;/td&gt;&lt;td&gt;Any Number&lt;/td&gt;&lt;td&gt;To increase width of &lt;b&gt;&lt;textarea&gt;&lt;/b&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</textarea>

#### Textarea

#### <textarea>

SI No	Attributes Name	Parameter/Values	Description
1	Multiple		To select multiple <b><option></option></b>

## Form Tag Attributes <form>



SI No	Attributes Name	Parameter/Values
1	Action	URL/File Name
2	Name	Any Name
3	Target	_Parent(Default),_Blank
4	Method	Get(Default),Post