

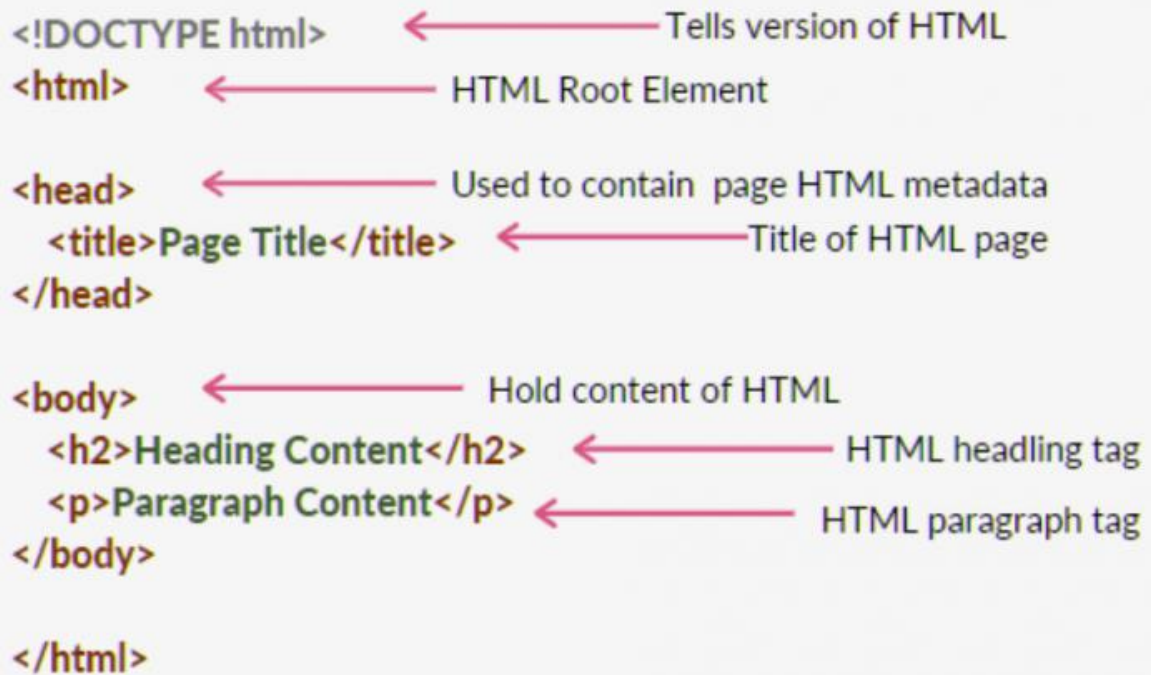
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Week 1: Web Development

1. Introduction to HTML

- **HTML (HyperText Markup Language):** It's the standard language for creating web pages. It uses tags to structure content, and browsers interpret these tags to display web pages.

HTML Page Structure



The diagram illustrates the structure of an HTML document with the following components and their functions:

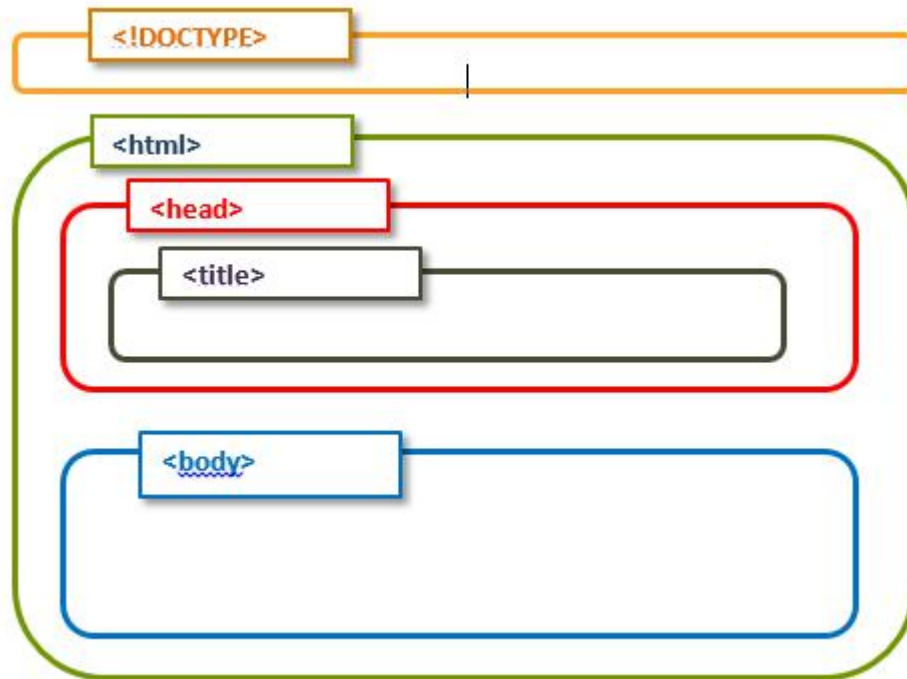
- `<!DOCTYPE html>` ← Tells version of HTML
- `<html>` ← HTML Root Element
- `<head>` ← Used to contain page HTML metadata
 - `<title>Page Title</title>` ← Title of HTML page
- `</head>`
- `<body>` ← Hold content of HTML
 - `<h2>Heading Content</h2>` ← HTML heading tag
 - `<p>Paragraph Content</p>` ← HTML paragraph tag
- `</body>`
- `</html>`

2. Creating an HTML Document

- **Basic Structure:** An HTML document starts with `<!DOCTYPE html>` and includes `<html>`, `<head>`, and `<body>` tags.
- **Tags:** Elements like headings `<h1>` to `<h6>`, paragraphs `<p>`, and line breaks `
` organize content.

3. Nesting HTML Elements

- **Hierarchy:** HTML elements can be nested inside each other. Proper nesting is crucial for well-structured code.



4. Head Elements & Scripts in HTML

- **<head> Section:** Contains metadata like the title of the page and links to stylesheets.
- **<script> Tag:** Used to include JavaScript code in your HTML document.
- **<style>** Used to define the style in HTML document

5. HTML Layout Elements

- **<div> and :** These are generic containers used with CSS for layout purposes.

6. Navbar & List Items in HTML

- **<nav> Element:** Used for navigation bars.
- **, :** Create unordered lists and list items.

7. Headings in HTML

- **<h1> to <h6>:** Headings to structure your content. `<h1>` is the most important, and `<h6>` is the least.

8. HTML Paragraphs & Text Formatting

- **<p> Tag:** Represents a paragraph of text.

- **Text Formatting Tags:** ``, ``, `<u>`, etc., for bold, italic, and underlined text.

9. Text Formatting in HTML

- **CSS Styles:** Use CSS for more advanced text formatting, like changing font styles and colors.

10. HTML Table

- **`<table>` Element:** Used to create tables.
- **`<th>`, `<td>`:** Table header and data cells.

No.	Full Name	Position	Salary
1	Bill Gates	Founder Microsoft	\$1000
2	Steve Jobs	Founder Apple	\$1200
3	Larry Page	Founder Google	\$1100
4	Mark Zuckerberg	Founder Facebook	\$1300

11. Page Linking in HTML

- **`<a>` Tag:** Creates hyperlinks to other pages or resources.

12. Forms & Inputs

- **`<form>` Element:** Wraps form controls.
- **`<input>`, `<textarea>`, `<select>`:** Form elements for text input, text areas, and dropdowns.

<input type="text"/>	<input type="password"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="radio"/> Radio Button	<input type="range"/>	<input type="checkbox"/> Checkbox
<input type="submit" value="Submit"/>	<input type="button" value="Reset"/> <input type="button" value=""/>	<input type="button" value="Button"/>

HTML Input Types

14. Inline & Block Elements

- **Inline:** Elements flow with the content. Examples: ``, `<a>`.
- **Block:** Elements start on a new line. Examples: `<div>`, `<p>`.

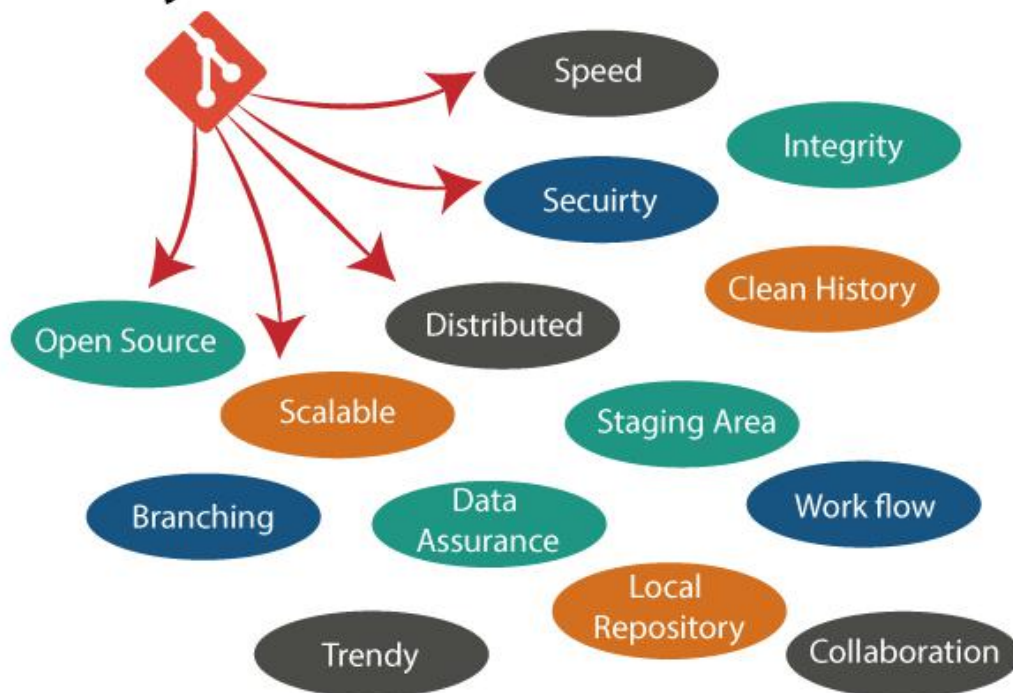
15. Adding an Image:

Integrate an image into your HTML page using the `` tag. Include alternative text for accessibility.

16. What is Git



- **Version Control:** Git tracks changes in your code, allowing collaboration and reverting to previous versions.

Why Git?



17. What is GitHub

- **Hosting and Collaboration:** GitHub is a platform where you can store your Git repositories and collaborate with others.

 git	 GitHub
1. It is a software	1. It is a service
2. It is installed locally on the system	2. It is hosted on Web
3. It is a command line tool	3. It provides a graphical interface
4. It is a tool to manage different versions of edits, made to files in a git repository	4. It is a space to upload a copy of the Git repository
5. It provides functionalities like Version Control System Source Code Management	5. It provides functionalities of Git like VCS, Source Code Management as well as adding few of its own features

List of HTML Tags

- `<!--...-->`
- `<!DOCTYPE>`
- `<a>`
- `<abbr>`
- `<acronym>`
- `<address>`
- `<applet>`
- `<area>`
- `<article>`
- `<aside>`
- `<audio>`
- ``
- `<base>`
- `<basefont>`
- `<bdi>`
- `<bdo>`
- `<big>`
- `<blockquote>`
- `<body>`
- `
`
- `<button>`
- `<canvas>`
- `<caption>`
- `<center>`
- `<cite>`
- `<code>`
- `<col>`
- `<colgroup>`
- `<data>`
- `<datalist>`
- `<dd>`
- ``
- `<details>`
- `<dfn>`
- `<dialog>`
- `<dir>`
- `<div>`
- `<dl>`
- `<dt>`
- ``
- `<embed>`
- `<fieldset>`
- `<figcaption>`
- `<figure>`
- ``
- `<footer>`
- `<form>`
- `<frame>`
- `<frameset>`
- `<h1> to <h6>`
- `<head>`
- `<header>`
- `<hr>`
- `<html>`
- `<i>`
- `<iframe>`
- ``
- `<input>`
- `<ins>`
- `<kbd>`
- `<label>`
- `<legend>`
- ``
- `<link>`
- `<main>`
- `<map>`
- `<mark>`
- `<meta>`
- `<meter>`
- `<nav>`
- `<noframes>`
- `<noscript>`
- `<object>`
- ``
- `<optgroup>`
- `<option>`
- `<output>`
- `<p>`
- `<param>`
- `<picture>`
- `<pre>`
- `<progress>`
- `<q>`
- `<rp>`
- `<rt>`
- `<ruby>`
- `<s>`
- `<samp>`
- `<script>`
- `<section>`
- `<select>`
- `<small>`
- `<source>`
- ``
- `<strike>`
- ``
- `<style>`
- `<sub>`
- `<summary>`
- `<sup>`
- `<svg>`
- `<table>`
- `<tbody>`
- `<td>`
- `<template>`
- `<textarea>`
- `<tfoot>`
- `<th>`
- `<thead>`
- `<time>`
- `<title>`
- `<tr>`
- `<track>`
- `<tt>`
- `<u>`
- ``
- `<var>`
- `<video>`
- `<wbr>`



Faraz
@Codewithfaraz

● Not supported in HTML5

Task 1 : Compose an HTML table displaying semester marks for three subjects. Include subject names and corresponding marks. Apply a simple border for clarity.

Task 2 : Develop an HTML "Contact Us" form for your Final Year Project (FYP) website. The form should include fields for the user's name, email address, subject of inquiry, a message textarea, and a submit button. Ensure proper labels and use HTML5 input types for validation where applicable. Style the form to enhance user experience.

Task 3 :

Your Name

yourname@emailaddressofconvenience.com

This web site is divided into a minimum of three areas, with a minimum of one of the areas having subordinate pages as well. Specifically, the areas are

1. **About me.** This area may have subordinate pages for a fuller *Curriculum Vitae* or a résumé.
2. **Classes.** This area will have subordinate pages for four tasks due as part of the Tools for Information Literacy class [insert current semester here].
 - Task 3 Markup
 - Task 4 Spreadsheets
 - Task 5 Relational Databases
 - Task 6 Presentational Graphics
3. **Interests.** This area may have subordinate pages for fuller explorations of personal interests.

last updated on [current date]
