

HTML (Hypertext markup language)

- Front End Development
 - Browser--sent the request-->Web server (the actual website address)---sent the response to the browser:static website
 - Front end: the developer writing the code that is display in a browser using **HTML/CSS/JS**
- Back End Development (the invisible part of website)
 - Web Server with App and Database: dynamic website
 - with Node.JS/PHP/Python for taking data out of the database
- Languages
 - HTML: the content of the page: text, image, buttons (*NOUNS*)
 - CSS: presentation of content (*ADJ*)
 - JS: actual programming language for dynamic effects and web applications (*VERBS*)
- Elements
 - <p>HTML is a markup language</p>
 - Three Parts
 - opening tag: the name of the element, wrapped in < >
 - Content: content of elements, or of child element, no content elements()
 - closing tag: when elements have no content, it is omitted, wrapped in </ >
- Common HTML Structure
 - <!DOCTYPE html>: this document uses HTML
 - <html lang="en"> </html>:opening and ending tag
 - <head></head>: to break up text into more logical sections and add title to each section
 - <meta charset="UTF-8" />
 - <title></title>
 - <body></body>
 - <h1></h1>
- Text Elements
 - comment: simply hide some code, or just give codes some comments
 - <!-- -->
 - Bold:
 - : an element but do not have any meaning
 - : more important text, it has a meaning, semantic html

- Italics
 - `<i> </i>`
 - ``:emphasize
- List
 - An ordered list
 - ` abcdef ... `
 - ` abcdef... `
 -
 - ``
 - Bullet Point
 - ` `
 - ` `
 -
 - ``
- Image and Attributes
 - ``
 - source path ,text describe , and the size of the image
- Links
 - ` text for URL name `
 - a : stands for anchor
 - target="_blank" for open the link as a new one, the original web set still shown
 - create a new webpage .html and use it in our main web set
 - href="#": just a black link without anything
- Page Structure (Grouping)
 - Navigation: `<nav>` the navigation links are listed here `</nav>`
 - Top part of web document: `<header></header>`
 - Article element:container element`<article> </article>`,inside it can also grouped by `<header></header>`
 - Copyright statement: `<footer>` state our copyright here with **`©`**; `</footer>`. The html entities
 - `<aside> </aside>`
- Semantic HTML
 - `<div>` to replace `<header>` or `<article>` elements