Client side Scripting

* Run in browser environment
* Javascript
  + Program run in browser environment
  + Program store in the server
  + Linked Script
    - <script type = ‘text/javascript’ src = ‘path/to/script.js’ ></script>
    - Defer the execution of the page and async parallel after fetching can already execute.

Async even if the entire is not still ready.

Defer need to be fully ready before rendering.

* + Embedded script into the file
    - Script can be write anywhere in the document.
    - Code inside fuction
    - Inline script
    - Event attribute start “on”
    - No Script
      * Provide alternate scripting

Core JavaScript (Ecma Script)

(Traditional) Browser Object model (BOM) API (non-standardize)

* Window, navigator -- browser, screen—screen where the browser is in, Location—current url, History—browser history.

Document Object Model (DOM)

* The document itself
* API allows access to the HTML document from within scripts associated with the webpage.
* <https://www.w3.org/DOM/>
* <https://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/core.html>
  + A parse html document represented by a DOM tree, which contains nodes representing elements, element attribute, textual content and other html document components
* Handling events and style
* Functionalities reference to nodes (node collection ) in the DOM

Node interfaces

Server side scripting

* Richer front end and more powerful