JavaScript

* Core JavaScript (EcmaScript) Language and API
* (Traditional) Browser Object Mode (BOM) API (non-stardardized)
  + Window, Navigator, Screen, Location, History
* Document Object Model (DOM) API
  + Node, Document, Element, Text, Attr, DoucmentType, Comment
  + Event, EventTarget, EventListener
  + CSSStylesheet, CSSRule
* Miscellaneous JavaScript Web API’s
  + Geolocation, IndexedDB, Local Storage, Push Notifications, Service Workers, Web Sockets, Web Workers, XMLHTTPRequest (AJAX), etc.
  + Most API’s accessed
    - Window.navigator

\*Different types of Linking the JavaScript to the HTML

* Link-
* External-
* Embedded (a.k.a. Internal)-

Defer – download the script but will parse the html  
Async – while the CSS & HTML is parsing.

(PUT SAMPLES OF THE TYPES OF LINKING JS)

Usage of <noscript>

Positioning of the script tag

DOM

* Main object
* Entire structure of the object will be based on the hierarchy

Interface of Node ---- ( PUT A PICTURE)

* Text node
* Attribute

DOM

* API that allows access to the HTML document from within the Scripts associated with the web page.
* A parsed HTML document is represented by a DOM TREE, which contains nodes.
* Accessed via the DOCUMENT object property of the global window object.

Functionalities

* Relieve reference to nodes (or node collections) in the DOM
  + getElementByID()
  + getElementsByTargetName(), getElementByClassName(), getElementByName
  + querySelector(), querySelectorAll()
* Travers the DOM tree (from a give Node)
  + parentNode, parentElement
  + childNodes,children
  + firstChild, lastChild, nextSibling, nextSibling, previousElementSibling
* Construct/Copy nodes
  + createAttribute, createTextNode, createElement90
  + doneNode(), importNode()
* Manipulate the DOM tree
  + appendChild(), insertBefore(), replaceCHild(), removeChild()
  + adoptNode()
* miscellaneous attributes and methods
  + nodeType, nodeName, nodeValue