CLIENT SIDE – INTENDED TO RUN FOR THE USER AGENT

LINKED SCRIPTS (EXTERNAL)

* MAYBE PLACED AT THE END OF THE HTML FILE
* THE EXECUTION OF LINKED SCRIPTS CAN BE DEFFERED RUN ASYNCHRONOUSLY
* Defer – DEFER THE EXECUTION BUT ONLY FETCH
* Async – FETCH THEN CONTINUE RENDERING THEN PARSED AND EXECUTES IT

EMBEDDED SCRIPTS (INTERNAL)

* TOP LEVEL CODE
  + CODE OUTSIDE FUNCTIONS
  + EXECUTE AS THE SCRIPT IS LOADED
  + CODE INSIDE FUNCTIONS ARE EXECUTED ONLY WHEN THE FUNCTION IS INVOKED
    - SCRIPTS MAY BE EMBEDDED ANYWHERE IF IN THE DOCUMENT ON ANY TOPLEVEL CODE IS EXECUTED WHERE IT IS ENCOUNTERED

INLINE SCRIPTS

* <onclick> -
* <noscipt> - PROVIDES ALTERNATIVE CONTENT WHEN THE BROWSER DOES NOT SUPPORT THE SCRIPT

JAVASCRIPT EXECUTION ENVIRONMENT

CLIENT

* CORE JAVASCRIPTS, (EcmaScript) Language and API
* (TRADITIONAL) BROWSER OBJECT MODEL (BOM) API (NON STANDARDIZED)
  + Window, navigator, screen, locator
  + Window is global object
* DOCUMENT OBJECT MODEL (DOM) API
  + Node, document, element, text, attr, Document Type, event, eventTarget
  + HANDLING EVENTS – event, eventTarget

MISCELLANEOUS JAVASCRIPT WEB APIS

* Geolocation, indexedDB, local storage, push notifications, service workers, web sockets, XMLHTTPREQUESTS (AJAX), etc.

DOM – API THAT ALLOWS ACCESS TO THE HTML DOCUMENT WITHIN THE SCRIPTS ASSOCIATED WITH THE WEB PAGE

* A PARSER HTML ELEMENT IS REPRESENTED BY A DOM TREE WHICH ENTERS THE NODES REPRESENTING ELEMENTS, ELEMENT ATTRIB, TEXTUAL ONTEXT, AND ELEM HTML

MANAGE BY THE: WORLD WIDE WEB CONSORTIUM

ACCESSED VIA THE DOCUMENT OBJECT PROPERTY OF THE GLOBAL INCLUDE OBJECT

. functionalities

* RETRIEVE REFERENCES TO NODES (OR NODE COLLECTIONS) IN THE DOM
  + getElementById();

COLOR PSYCHOLOGY – HOW COLOR AFFECTS PEOPLE

STRINGS – DELIMITED BY SINGLE QUOTES

CSS PREPROCESSORS – GENERATES CSS UDING A CUSTOM LANGUAGE SYNTAX THAT TYPICALLY INCLUDES FEATURES THAT DON’T EXIST IN PURE CSS

* eg SASS, LESS, STYLUS, etc.

CSS FRAMEWORKS – PREDEFINED CSS DESIGNED FUNCTIONALITY THAT CAN BE REUSED

PSEUDO CLASS – DYNAMIC PSEUDO CLASS

* + LINK PSEUDO CLASS
  + USER ACTION PSEUDO CLASS
* TARGET PSEUDO CLASS
* LANGUAGE PSEUDO CLASS
* UI ELEMENT STATES PSEUDO CLASS
* STRUCTURAL PSEUDO CLASS
* NEGATION PSEUDO CLASS

SELECTOR GROUP – COMMA SEPARATED LIST OF SELECTOR REPRESENTING THE UNION

CSS RULE PRECEDENCE

* HTML ELEMENT MAY BE THE SUBJECT

RESOLUTION

* BY ORIGIN AND IMPORTANCE - AUTHOR
* BY SPECIFICITY - USER
* BY ORDER – USER AGENT

VENDOR SPECIFIC EXTENSIONS (VENDOR PREFIXES)

* USED BY BROWSER VENDORS AS A PREFIX FOR THE NAMES OF EXPERIMENTAL OR NON STANDARD CSS

CUSTOM PROPERTIES (CSS VARIABLES (EXPERIMENTAL))

* PROPERTY NORES PREFIXED WITH – REPRESENTING A VALUE THAT CAN BE REUSED THROUGH THE DOCUMENT

VALUE TYPES

KEYWORDS

* CSS WIDE KEYWORDS
  + Initial, inherit, unset

DIMENSIONS

* Length, angle, duration, frequency, resolution
* Length units
* Font relative: em, ex, ch
* Viewport percentage: vw, vh, vmin, vmax
* Absolute: cm, mm, in, pt, pc, px

ANGLE UNITS

* DEGREE GRAD RAD

DURATION

FREQUENCY UNITS

RESOLUTION UNITS

PERCENTAGES

UKL5

COLORS

* RGB HEXADECIMAL
* RGB FUNCTIONS
* HSL FUNCTIONS

STRINGS

FUNCTIONS