JAVA SCRIPT

(Source - MDN web Dack)

HTML - markup language we use to structure our webpage

CSS - CSS is language of style rules that we apply styling to ownHTML

content

Js - is a scripting language that enables us to create dynamically updating content, control multimedia, animate images etc.

What Is cando? The store rales in variables

- operate on picces of text

Run code in response to coordin events such as one lick

- Run code in response to coordin events

API - Application Programming Interface are ready made sets of code building blocks that allow a developer to implement programs that would otherwise be hard to implement

1.) Browser API'S: built into our webbrowser.

· Dom

- Canvas & Web GL
- · Geolocation AP.I
- · Audion & Video API

2.) 3rd Party API's not built in by default.

· twitter API

· OpenStreetMapAPI

· Crogle Maps API

Is runs top to bottom. and is a lightweight interpreted language.

Enter Is wing script tag!

>> DOMContentloaded element.

- Desync attribute (only external societs) Hif societs don't need source I can run

- defec 11 works as asynt but is societs run in order they are written

- use let (or vow) to make variable

- use coust to make variable which can't change

-> use quary Solector (); to solect time elements by togiclass, id -

- Franctions

Sunction funct-namely

11 stadements;

To our funct: funct -name();

- Operators

+, -, *,1

also for concerting strings.

Assignment x=y, +=,-=, *=, /=, *=, **=, <<=, >>=, >>=, l=, ^=, |=

xt=4 not some as nexty in a littl4=5/1 i evaluated once.

a [1+1] = a[1+]+5 // ar evaluated twice?

Strict Compartision: === (both type I value) to be same.

abstract Comparision: == (converts to same type & compare)

Operator: ==, !==, !==, 7, >=, <, <=

- · When comparing String I Number, Khandson String is converted to down number
- · foor Boolean. It's true and Ois Jalse
- o for Object & Steing, Is operatory attempt to convert the object to a primitive value (Stry 08 Number)

-> Events

- · Events are things that happen in the browser a button click, page Loading, video playing etc. - in response to which we can own blocks of code.
 - · Constructs that liston out for the event Prappening are called event Listeners and block of alocade for response

Called event Prondlers.

g. Submit. add Eventlistener ('Click', checkguss);

devent we're to run when listening for the event occurs.

Some new functions

i clocument. Createllement ('button');

- document: body, append child (but);

-> but. Parent Node. remove Child (but);

- query Selector All()

Loops for (stoot value, exit condition, incrementar (decrementar) &

3. 11 to execute

focus() function.

We to focus on elements so that can directely see curpor on the Clement I can use them instead of first clicking it itself & than voing it.

eg. & document. get Elemand By Id ('my but'). focus ();

attributes: p focus (& prevent Scroll: false }).

query Sale clos ()

This document method restours the first Element within the document that matches thre specified salector, or group of salectors. If no matches are found, NW is retwented.

clament = document. query Selector (selectors);

quary Selector All () to get a list of all elements matching the Specified Selectors.

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Types of Eurosa I Syntan Eurosa
Logical Eurosa
```

- Event Types for event listeners.

-> cached

-> cosos -) aboost

- wad

-> beforeunload

- unload

message cover web socket

transition stout

transition end

transition cancel

transition run

and a lot more

offline } Network Events.

focus of focus Event.

animation iteration (SS animations brot emitanins

submit 3 form events

a** click U:ck dolclick mousedown movaecenter mouse beaut

Mouse events

mouse more mouse over.

-> VARIABLES

Variable is a container for values whose contained values can be changed

Declara variable m'ne vare or let.

Let myName;

my Name = 'keshar';

Let my Age;

my Age = 186 20;

Let my Brancer = 'CSE'.

(voir) 's design can sometimes be conjuing or down right amonying.

tome In var usage, you can declare a variable after you initialise it and it will still work. (because of Proisting)

Tusing voir we can declare the some variable as many thresas we

I Let allows us to declare variables that are limited in scope to the block, statement or expression while 'var' keyword which defines a variable globally or locally to an entire function regardless of & block scope.

I let donot create a property on global object.

var oc= 'globa'; conscie. log(this. 21); //global

Let y = 'global'; // ... (thic.y); // mdefined

-> let variables are not defined initialized until there definition is evaluated.

Accessing a radiable by its initialization results in Reference Error. The variable is in temporal Dead Zone.

of Dout use underscores in Starting of Is vor names,

* " Number " " " " " " " "

- VARIABLE TYPES

It we don't need to declare voriable types in Is.

· Numbers

· Storngs

· Constant variables

Boolean.

using const.

· Arrays

Objects

-Dyanamic Typing: meaning that undelse other languages, we don't head to Specify what data type avoicible will contain

* typeof null = object

- Basic Maths in Java Script. - Number (1 function. Syntax: new Number (value); Properties: Number, EPSILON - smallest interval 6100 2 representable numbers. Number .MAX-SAFE_INTEGER - max safe int (253-1) Number . MAX-VALE - largest positive representable number. Number. MIN-SAFE-INTEGER - (-(253-1)) Number. Min_VALUE - Smallest positive representable num, (positive to. Closest to Zero Nawber NoN Number. NECLATIVE-INFINITY Number. POSITIVE - INFINITY. Number. prototype - allows addition of properties to Number Obj. · isMaN(); · isFinite(), · isInteger(), : · isSafe Integer(), LA Determine value possed is. 610 (2531) D(-(2531)) · parese Int(), . paresefloat(), parse Int (string, radix) Arithmetic +, -, * /, * / Lo Exponent 4+818+2 = 7 V & because operator precedences?
and not 1210=1.2 X Operator Precedence