JS CheatSheet

Variables ___

(||N||x|) var a; // variable var b = "init"; // string var c = "Hi" + " " * "Oo"; // = "Hi Joe" var d = 1 + 2 * "3"; // = "33" var e = [2,3,5,8]; // array var f = false; // boolean var g = (0); // RegBx var h = function(1); // function chject const PI = 3.14; // constant var a = 1, b = 2, c = a + b; // one line let z = 'zzz'; // block scope local variable

Strict mode

"use strict"; // Use strict mode to write secure code x 1; // Throws an error because variable is not declared

Values

false, true // boolean 18, 3.14, Obl0011, OxF6, Nah number "flower", 'John' // string undefined, null , Infinity // special

Operators

a=b+c-d; // addition, substraction a=b * (c / d); // multiplication, division x = 100 % 48; // modulo. 100 / 48 remainder = 4 a++; b--; // postfix increment and

Bitwise operators

&	AND	5 & 1 (0101 & 0001)	1 (1)
	OR	5 1 (0101 0001)	5 (101)
~	NOT	~ 5 (~0101)	10 (1010)
٨	XOR	5 ^ 1 (0101 ^ 0001)	4 (100)
<<	left shift	5 << 1 (0101 << 1)	10 (1010)
>>	right shift	5 >> 1 (0101 >> 1)	2 (10)
>>>	zero fill right shift	5 >>> 1 (0101 >>> 1)	2 (10)

a* (b+c) // grouping person.age // member person[age] // member !(a=b) // logical not a !* b // not equal typeof a // type (number, object, function...) x < 2 x > 3 // minary shifting a * b // assignment a = b // equals a !* b // unequal a == b // strict unequal a <= b // b + strict unequal a <= b > b // less and greater than a <= b a >= b // less and greater than a <= b a >= b // strict unequal a <= a >= b // less and greater a <= a >= b // less and greater a <= b // a = a + b // less and greater a <= b // a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >= b // less and greater a <= a >=

Arrays

var dogs = ("Bulldog", "Besgle", "Labrador"); var dogs = new Array("Bulldog", "Besgle", "Labrador"); // declaratio albert(dogs[1]); // access value at index, first item bein [0] dogs[0] = "Bull Teries"; // change the first item for (var i = 0; i < dogs.length; i++) (// parsing with array.length conocie.log(dogs[1]);)

Methods

dogs.toString(); // convert to string: results

"Bulldog,Beagle,Labrador" dogs.join(" " "); // join:

"Bulldog,Beagle,Labrador" dogs.pop(); // remove last

element dogs.push("Chinaban"); // add new element to the
end dogs.Bait[0]; // remove first element
dogs.min(); // remove first element
dogs.min(); // remove first element
dogs.mahit["Chinaban"); // add new element to the
beginning delice dogs[0]; // change element to undefined
(not eccommended) dogs.splice(2, 0, "Peg" "Boover"); //
remover first element
index of the dogs.golice(2, 0, "Peg" "Boover"); //
remover first element for manifest element for the
element for not first element for manifest element for element for element for ellipse dogs.splice(1,4); //
element for ellipse (1) to [4-1] dogs.spring(); // sort string
siphabetically dogs.rewerse(); // sort string in
descending order x.sprit(function(s, b)[return b - a)); //
numeric descending sort highest = x[0]; // first item in
sorted array is the lowest (or highest) value
x.sport(function(s, b) (return 0.5 - Math.random()); //
random order sort

concat, copyWithin, every, fill, filter, find, findIndex, forEach, indexOf, isArray, join, lastIndexOf, map, pop, push, reduce, reduceRight, reverse, shift, slice, some, sort, splice, toString, unshift, valueOf

ver str " ("names":[' + // crate JSON object
'['ffirst":"Hakkuma","lastH":"Matata"],/ +
'['ffirst":"Alame","lastH":"Dobe],/ +
'['ffirst":"Alame","lastH":"Jobe],/
JSON.parse(str), // parse
document.write(obj.names[].first); // access

Send

var myObj = { "name":"Jane", "age":18, "city":"Chicago" };
// create object var myJSON = JSON.stringify(myObj): //
stringify window.location = "demo.php?xe" + myJSON; //
send to php

Storing and retrieving

Basics

On page script

Include external JS file

<script src="filename.js"></script</pre>

function addNumbers(a, b) { return a + b; ; }

x = addNumbers(1, 2);

document.getElementById("elementID").innerHTML = "Hello
World!";

Output

console.log(a); // write to the browser console
document.write(a); // write to the RTML slert(a);
output in an alert how confirms["Really"]; // yes/no
dialog, returns true/false depending on user click
prompt("Your sage?","0"); // input dialog. Second argum
is the initial value

Comments

Strings ___

war abe = "abcdefghijklimopqustuwway2", var ace = "I
don't' to know! // 'N new line war len = abc.length; //
string length abc.indexOf("imor"); // find substring, -I
if doesn't contain abc.lastChadox("limo"); // last
occurance abc.slice(3, 0); // cuts out "def", negative
values count from behind abc.replace("abc", "123"); // find
and replace, takes regular expressions abc.toOppeaCase();
// convert to upper case abc.toLoweaCase(); // convert to
lower case abc.comcat(" ", str2); // abc + " " + str2
abc.chastAt(2); // character at index: "c" abc(2); //
unsafe, abc(2) = "C" doesn't work abc.chardCodakt(2); //
character code at index: "c" -> 99 abc.split("); //
splitting a string on commas gives an array abc.split(");
// splitting on characters (28.toOpting(16); // mumber to
hex(16), octal (8) or binary (2)

Dates

Tue Apr 09 2019 14:41:14 GMT+0300 (GMT+03:00) var d = new Date();

1554810074840 miliseconds passed since 1970

Number(s)
Date("2017-06-23"); // date declaration Date("2017"); //
is set to Jan 01 Date("2017-06-23712:00:00-09:45"); //
is set to Jan 01 Date("2017-06-23712:00:00-09:45"); //
long date format Date("0'un 23 2017 07:45:00 GMT+0100
(Tokyo Time)"); // item 2017://

Outsimes varid = new Date(); a = d.getDay(); // getting the weekday getDate(); // day as a number (1-31) getDay(); // weekday as a number (6-6) getDay(1); // four fight year (yyyy) getBours(); // hour (6-23) getHBiliseconds(); // milliseconds(-6-99) getBours(); // sintens(-6-9) getBours(); // milliseconds(); // seconds(0-5)) getTime(); // milliseconds since 1970

Setting part of a date

Setting part of a date var d = new factor; d.setDate(d.getDate() + 7): // adds a veek to a date setDate(): // day as a number (0-31) a veek to a date setDate(): // day as a number (0-31) setDate(): // year (optionally month and day) setBlours(): // hour (0-23) setMilliseconds(): // setBlours(): // setDate(): // setBlours(): // setDate(): // setDate()

Errors try { // block of code to try undefinedFunction(); }
catch(err) { // block to handle errors
console.log(err.message); }

Throw error

Input validation

var x = document.getElementHyId("mynum").value; // get input value try (if(x == "") throw "empty"; // error cases if(isMa(iv)) throw "not a number"; x = *Wumbar(x); if(x > 10) throw "too high";) actch(err) { // if three's an error document.write("mynut is " error); // output error comsole.error(err); // write the error in comsole } finally idocument.write("mynut // >pomen"; // executed regardless of the try / catch result)

Error name values

RangeError ReferenceError SyntaxError

A number is "out of range" An illegal reference has occurred A syntax error has occurred A type error has occurred An encodeURI() error has occurred

Loops

While Loop

vari = 1; // initialize while (i < 100) { // enters the
cycle if statement is true i *= 2; // increment to avoid
infinite loop document.write(i + ", "); // output }</pre>

Do While Loop

var i = 1; // initialize do { // enters cycle at least once i *= 2; // increment to avoid infinite loop document.write(i + ", "); // output) while (i < 100) // repeats cycle if statement is true at the end

Break

for (var i = 0; i < 10; i++) { if (i == 5) { break; } //
stops and exits the cycle document.write(i + ", "); //
last output number is 4 }</pre>

for (var i = 0; i < 10; i++) { if (i == 5) { continue; }
// skips the rest of the cycle document.write(i + ", ");
// skips 5 }</pre>

Events ___

<button onclick="myFunction();"> Click here </button>

onclick, oncontextmenu, ondblclick, onmousedown, onmouseenter, onmouseleave, onmousemove, onmouseover, onmouseout, onmouseup

onkeydown, onkeypress, onkeyup

onabort, onbeforeunload, onerror, onhashchange, onload, onpageshow onpagehide, onresize, onscroll, onunload

onblur, <u>onchange</u>, onfocus, onfocusin, onfocusout, oninput, oninvalid onreset, onsearch, onselect, onsubmit

ondrag, ondragend, ondragenter, ondragleave, ondragover, ondragstart ondrop

Clipboard

oncopy, oncut, onpaste

onabort, oncanplay, oncanplaythrough, ondurationchange, onended, oneror, onloadeddata, onloadedmetadata, onloadstart, onpause, onplay, onplaying, onprogress, onratechange, onseeked, onsusephing, onstudent on onsuspend, ontimeupdate, onvolumechange, onwalting

animationend, animationiteration, animationstart

Miscellaneous
transitionend, onmessage, onmousewheel, ononline, onoffline,
onpopstate, onshow, onstorage, ontoggle, onwheel, ontouchcancel,
ontouchend, ontouchmore, ontouchstart

Regular Expressions

var a = str.search(/CheatSheet/i);

Modifiers

perform case-insensitive matching perform a global match perform multiline matching

Escape character find a digit find a whitespace character find a whitespace character find match at beginning or end of a word contains at least one n contains zero or more occurrences of n contains zero or one occurrences of n Start of string End of string End of string find the Unicode character Any single character /uxxxx

Useful Links

JS cleaner Obfuscator Can I use? Node.js jQuery RegEx tester

If - Else

if ((age >= 14) %% (age < 19)) { // logical condition
status = "Eligible."; // executed if condition is true
clase (// else block is optional status = "Not eligib
// executed if condition is false })</pre>

switch (new Date().getDay()) { // input is current da case 6: // if (day == 6) text = "Saturday"; break; ca // if (day == 0) text = "Sunday"; break; default; // else... text = "Whatever"; }

Data Types ___

var age = 18; // number var name = "Jane"; // string
name = (first: "Jane", last: "Doe"); // object var trut
false; // boolean var sheets = ("FMTM: "CSS", "JS"); /
array var a; typeof a; // undefined var a = null; //
null

Objects var student = { // object name firstName: "Jame", // 1 of properties and values lastName: "Doe", age: 18, height: 170, #101Mame: function() { // object function return this, firstName + " " + this, LastName; } is student.age = 19; // setting value student(age)+; // incrementing name = student.fullName(); // call object.

Numbers and Math

ver pi = 3.141; pi.toFixed(0); // returns 3 pi.toFixe
// returns 3.14 for working with money pi.toFixe
// returns 3.14 for working with money pi.toFixe
// returns 3.14 for working with money pi.toFixe
// returns 3.19 iv.walue6(1); // returns number
// returns 1.5 hallesconds since 970 parsafix(73 months*
returns the first number: 3 parsafixel(73.5 days*); /
returns 1.5 Number.MAY.VANUE* // largest possible 35 number
// Number.MIN VANUE* // smallest possible 35 number
// Number.ROSTIVE_INFINITY// Infinity
// Number.POSTIVE_INFINITY// Infinity

Math. var pi = Math.PI; // 3.141592653589793 Math.round (4,4) = 4 - rounded Math.round (4,5); // = 5 Math.pow (2,8); 256 - 2 to the power of 8 Math.agrid (9); // = 7 - squ root Math.agh (-3,14); // = 3.14 - absolute, positive - Math.casi (1,3); // = 7 - rounded up Math.floor (3,9) = 3 - rounded down Math.floor (3,9) = 3 - rounded down Math.sin (0); // = 0 - sine Math.cos (0,8) = 7 - rounded up Math.floor (3,9) = 3 - rounded down Math.sin (0,3), -2, 2; // = -2 - the lowest value Math.log (1); // = 0 - natural logarithm Math.agr (1); // = 3 - the highest value Math.log (1); // = 0 - natural logarithm Math.agr (1); // = 0 - natural logarithm Math.cog (1); // = 0 natural logarithm Math.cog (1); // = 1 - Natural logarithm Math.floor (1); // =

Constants like Math.PI:

E, PI, SQRT2, SQRT1 2, LN2, LN10, LOG2E, Log10E

Global Functions

GIODAI FUNCTIONS

(7)(// executes a string as if it was script code
String(23), // return string from number (23).toStrin
// return string from number (32%), // return
number from string decode(Nicongonic (100), // return
"ay page.asp" encode(Nicongonent(enc)) // decode Nic Result:
"ayspage.asp" decode(Nicongonent(enc)) // decode a URI
component encode(Nicongonent(enc)) // encode a URI
component is institute (); // is variable a finite, legal
number :stMSM(); // is variable an illegal number
paraefloat(); // returns floating point number of str
paraefloat(); // paraes a string and returns an integer

Promises ___

_

function sum (a, b) { return Promise(function (resolv resject) { setTimeout(function () { // send the respon after i second if (typeof a != "number" | ! typeof b != setTimeout(a) = setTi

pending, fulfilled, rejected

Properties

Promise.length, Promise.prototype Methods

Promise.all(iterable), Promise.race(iterable), Promise.reject(reas Promise.resolve(value)

Online Interactive JavaScript (JS) Cheat Sheet

JavaScript Cheat Seet contains useful code examples on a single page. Find code for JS loops, variables, objects, data types, strings, events and many other categories. Popy-paste the code you need or just quickly check the JS syntax for your projects.

Choose to display or hide the comments, clicking the command in the top right corner.

- Basics Introduction to JavaScript syntax. Learn how to include the scripts on a HTML page, how to declare a function, target a DOM element by it ID, how to output the data and how to write comments
- $\bullet \ \ Loops {\sf Most}\ programming\ languages\ allow\ to\ work\ with\ loops,\ which\ help\ in\ executing\ one\ or\ more\ statements\ up$ to a desired number of times. Find the "for" and "while" loop syntax in this section.
- If Else statements Conditional statements are used to perform different actions based on different conditions.
- Variables Use variables (numbers, strings, arrays etc.) and learn the operators.
- Data types You can declare many types of variables and declare your own objects in JavaScript.
- Strings Learn how to work with JS strings and find the most common functions to work with this data type.
- Events Use JavaScript event listeners to trigger functions.
- Numbers and math Work with JS numbers, predefined constants and perform math functions.
- Dates Get or modify current time and date.
- Arrays Learn how to organize your vairables in vectors and how to use them.
- Global functions Predefined functions that are built in every browser that supports JS.
- Regular expressions Use RegEx to define a search pattern.
- Errors JS error handling.
 JSON JavaScript Object Notation is syntax used for storing and exchanging data.
- Promises The Promise object is used for asynchronous computation. See our example on how to declare one.

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