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JS CheatSheet

If - Else _

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if ((age >= **14**) && (age < **19**)) { // logical condition status = "Eligible."; // executed if
condition is true } else { // else block is optional status = "Not eligible."; // executed if condition is false }

Switch Statement

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

Variables

var a; // variable var b = "init"; // string var c = "Hi" + " " + "Joe"; // = "Hi Joe" var d = 1 + 2 + "3"; // = "33" var e = [2,3,5,8]; // array var f = false; // boolean var g = /()/; // RegEx var h = function(){}; // function object const PI = 3.14; // constant var a = 1, b = 2, c = a + b; // one line let z = 'zzz'; // block scope local

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

false, true // boolean 18, 3.14, 0b10011, 0xF6,
NaN // 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 decrement

| & | AND | 5 & 1 (0101 & 0001) | 1 (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) |

Arithmetic

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 equal a !== b // strict unequal a < b a > b // less and greater than a <= b a >= b // less or equal, greater or eq a += b // a = a + b (works with - * %...) a && b // logical and a || b // logical or

Dates

(?)(N)(X)

Basics

200

On page script

<script type="text/javascript"> ... </script>

Include external JS file

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

function addNumbers(a, b) { return a + b; ; } x = addNumbers(1, 2):

Edit DOM element

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

Output

console.log(a); // write to the browser console document.write(a); // write to the HTML alert(a); output in an alert box confirm("Really?"); // yes/no dialog, returns true/false depending on
user click prompt("Your age?","0"); // input dialog. Second argument is the initial value

/* Multi line comment */ // One line

Data Types

var age = 18; // number var name = "Jane"; // string var name = {first:"Jane", last:"Doe"}; // object var truth = false; // boolean var sheets = ["HTML","CSS","JS"]; // array var a; typeof a; // undefined var a = null; // value null

var student = { // object name firstName:"Jane", // list of properties and values lastName: "Doe", age: 18, height: 170, fullName : function() { // object function return this.firstName + this.lastName; } }; student.age = 19; // setting value
student[age]++; // incrementing name = student.fullName(); // call object function

Ads

250



GeekPrank.com

var pi = 3.141; pi.toFixed(0); // returns 3 pi.toFixed(2); // returns 3.14 - for working with money pi.toPrecision(2) // returns 3.1

ي jQ

css

Loops

For Loop

for (var i = 0; i < 10; i++) { document.write(i +
": " + i*3 + "
br />"); } var sum = 0; for (var i = 0; i < a.length; i++) { sum + = a[i];} // parsing an array

While Loop

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

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

Break

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

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

Strings

var abc = "abcdefghijklmnopqrstuvwxyz"; var esc = 'I don\'t \n know'; // \n new line var len abc.length; // string length abc.indexOf("lmno"); // find substring, -1 if doesn't contain abc.lastIndexOf("lmno"); // last occurance abc.slice(3, 6); // cuts out "def", negative values count from behind abc.replace("abc","123"); // find and replace, takes regular expressions abc.toUpperCase(); // convert to upper case abc.toLowerCase(); // convert to lower case abc.concat(" ", str2); // abc + " " + str2 abc.charAt(2); // character at index: "c" abc[2]; // unsafe, abc[2] = "C"
doesn't work abc.charCodeAt(2); // character code at index: "c" -> 99 abc.split(","); // splitting a string on commas gives an array abc.split(""); // splitting on characters 128.toString(16); // number to hex(16), octal (8) or binary (2)

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, $\underline{\text{onchange}},$ onfocus, onfocusin, onfocusout, oninput, oninvalid, onreset, onsearch, onselect, onsubmit

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

Clipboard

oncopy, oncut, onpaste

Sat Jan 27 2018 20:36:07 GMT+0200 (Финляндия (зима)) var d = new Date();

1517078167916 miliseconds passed since 1970

Date ("2017-06-23"); // date declaration Date("2017"); // is set to Jan 01 Date("2017-06-23T12:00:00-09:45"); // date - time YYYY-MM-DDTHH:MM:SSZ Date("June 23 2017"); // long date format Date ("Jun 23 2017 07:45:00 GMT+0100 (Tokyo Time)"); // time zone

var d = new Date(); a = d.getDay(); // getting the weekday **getDate();** // day as a number (1-31) getDay(); // weekday as a number (0-6) getFullYear(); // four digit year (yyyy) getHours(); // hour (0-23) getMilliseconds(); // milliseconds (0-999) **getMinutes**(); // minutes (0-59) getMonth(); // month (0-11) getSeconds(); //seconds (0-59) getTime(); // milliseconds since

Setting part of a date

var d = new Date(); d.setDate(d.getDate() + 7); // adds a week to a date **setDate();** // day as number (1-31) setFullYear(); // year (optionally month and day) setHours(); // hour (0-23) setMilliseconds(); // milliseconds (0-999) setMinutes(); // minutes (0-59) setMonth(); // month (0-11) setSeconds(); // seconds (0-59) setTime(); // milliseconds since 1970)

Regular Expressions ONE

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

Modifiers

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

Patterns

Escape character find a digit find a whitespace character ۱b 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

Promises

-

function sum (a, b) { return Promise(function (resolve, reject) { setTimeout(function () { // send the response after 1 second if (typeof a !== "number" || typeof b !== "number") { // testing input types return reject(new TypeError("Inputs must be numbers")); } resolve(a + b); }, 1000); }); } var myPromise = sum(10, 5); myPromsise.then(function (result) { document.write(" 10 + 5: ", result); return sum(null, "foo"); // Invalid data and return another promise }).then(function () { // Won't be called because of the error }).catch(function (err) { // The catch handler is called instead, after another second console.error(err); // => Please provide two numbers to sum. });

pending, fulfilled, rejected

Properties

Promise.length, Promise.prototype

Methods

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

pi.valueOf(); // returns number Number(true); // converts to number Number (new Date()) // number of milliseconds since 1970 parseInt("3 months"); // returns the first number: 3 parseFloat("3.5 davs"); // returns 3.5 Number.MAX VALUE / largest possible JS number Number.MIN VALUE // smallest possible JS number Number.NEGATIVE_INFINITY// -Infinity Number.POSITIVE INFINITY// Infinity

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.sqrt(49); // = 7 square root Math.abs (-3.14); // = 3.14 absolute, positive value Math.ceil(3.14); // = 4 - rounded up Math.floor(3.99); // = 3 - rounded down Math.sin(0); // = 0 - sine Math.cos(Math.PI); // OTHERS: tan,atan,asin,acos, Math.min(0, 3, -2, 2); // = -2 - the lowest valueMath.max(0, 3, -2, 2); // = 3 - the highest valueMath.log(1); // = 0 natural logarithm Math.exp(1); // = 2.7182pow(E,x) Math.random(); // random number between 0 and 1 Math.floor(Math.random() * 5) + 1; // random integer, from 1 to 5

E, PI, SQRT2, SQRT1_2, LN2, LN10, LOG2E, Log10E

Global Functions

 $(?)(\nabla)(x)$

eval(); // executes a string as if it was script code String (23); // return string from number (23).toString(); // return string from number Number("23"); // return number from string decodeURI(enc); // decode URI. Result: "my page.asp" encodeURI(uri); // encode URI. Result: "my%page.asp" decodeURIComponent(enc); // decode a URI component encodeURIComponent(uri); // encode a URI component isFinite(); // is variable a finite, legal number isNaN(); // is variable an illegal number parseFloat(); // returns floating point number of string parseInt(); // parses a string and returns an integer

Errors

(2) NO

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

throw "My error message"; // throw a text

Input validation

var x = document.getElementById("mynum").value;
// get input value try { if(x == "") throw "empty"; // error cases if(isNaN(x)) throw "not a number"; x = Number(x); if (x > 10) throw "too high"; } catch(err) { // if there's an error
document.write("Input is " + err); // output error console.error(err); // write the error in console } finally { document.write("</br />Done"); // executed regardless of the try / catch result }

Error name values

RangeError ReferenceError SvntaxError TypeError **URIError**

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

onabort, oncanplay, oncanplaythrough, ondurationchange, onended, onerror, onloadeddata, onloadedmetadata, onloadstart, onpause, onplay, onplaying, onprogress, onratechange, onseeked, onseeking, onstalled, onsuspend, ontimeupdate, onvolumechange, onwaiting

animationend, animationiteration, animationstart

Miscellaneous

transitionend, onmessage, onmousewheel, ononline, onoffline, onpopstate, onshow, onstorage, ontoggle, onwheel, ontouchcancel, ontouchend, ontouchmove.

Arrays

var dogs = ["Bulldog", "Beagle", "Labrador"]; var dogs = new Array("Bulldog", "Beagle", "Labrador"); // declaration alert(dogs[1]); // access value at index, first item being [0] dogs[0] = "Bull Terier"; // change the first item for (var i = 0; i < dogs.length; i++) { //</pre> parsing with array.length console.log(dogs[i]); }

dogs.toString(); // convert to string: results "Bulldog,Beagle,Labrador" dogs.join(" * "); // join: "Bulldog * Beagle * Labrador" dogs.pop(); // remove last element dogs.push("Chihuahua"); // add new element to the end dogs[dogs.length] = "Chihuahua"; // the same as push dogs.shift(); // remove first element dogs.unshift("Chihuahua"); // add new element to the beginning delete dogs[0]; // change element to undefined (not recommended) dogs.splice(2, 0, "Pug", "Boxer"); // add elements (where, how many to remove, element list) var animals = dogs.concat(cats,birds); // join two arrays (dogs followed by cats and birds) dogs.slice(1,4); // elements from [1] to [4-1] dogs.sort(); // sort string alphabetically dogs.reverse(); // sort string in descending order x.sort(function(a, b) {return a - b}); // numeric sort x.sort(function(a, b){return b - a}); // numeric descending sort highest = x[0]; // first item in sorted array is the lowest (or highest) value x.sort(function(a, b) {return 0.5 Math.random()}); // random order sort

concat, copyWithin, every, fill, filter, find, findIndex, forEach, JSON is Array, join, lastIndexOf, map, pop, push, reduce, everse, shift, slice, some, sort, splice and the source of the source

var str = '{"names":[' + // crate JSON object "first":"Hakuna","lastN":"Matata" },' + '{"first":"Jane","lastN":"Doe" },' '{"first":"Air","last":"Jordan" }]}'; obj = JSON.parse(str); // parse document.write(obj.names[1].first); // access

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

Storing and retrieving

myObj = { "name":"Jane", "age":18,
"city":"Chicago" }; myJSON = ${\tt JSON.stringify(myObj);}$ // storing data localStorage.setItem("testJSON", myJSON); text = localStorage.getItem("testJSON"); // retrieving data obj = JSON.parse(text);

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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.
- Loops 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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