**Hide comments** 



```
Basics ➤
                                                                                                                                           Loops ₽
                                                                    On page script
                                                                                                                                         For Loop
  If - Else ↓↑
                                                                                                                                         for (var i = 0; i < 10; i++) {
                                                                               ?="text/javascript"> ...
                                                                                                                                         document.write(i + ": " + i*3 +
if ((age >= 14) && (age < 19)) {
                                         // logical condition
status = "Eligible.";
                                     // executed if condition is true
                                                                                                                                         }
                                                                                nal JS file
} else {
                                         // else block is optional
                                                                                                                                         var sum = 0:
                                                                                                                                         for (var i = 0; i < a.length; i+
status = "Not eligible.";
                                     // executed if condition is false
                                                                                ="filename.js"></script>
                                                                                                                                         sum + = a[i];
                                                                                and timeout
                                                                                                                                                         // parsing an arm
                                                                                                                                        html = "";
Switch Statement
                                                                                Function () {
                                                                                                                                         for (var i of custOrder) {
switch (new Date().getDay()) {
                                     // input is current day
                                 // if (day == 6)
                                                                                                                                         html += "" + i + "";
        text = "Saturday";
        break:
                                                                                                                                         While Loop
                                 // if (day == 0)
                                                                                dNumbers(a, b) {
                                                                                                                                         var i = 1;
        text = "Sunday";
                                                                               o; ;
                                                                                                                                         while (i < 100) {
        break;
                                                                                                                                         i *= 2;
                                                                                                                                                                     // in
default:
                                 // else...
                                                                               ers(1, 2);
                                                                                                                                         document.write(i + ", ");
        text = "Whatever";
                                                                                                                                                                     // 01
                                                                     _u., _ u., u., ment
                                                                    document.getElementById("elementID").innerHTML = "Hello World!";
                                                                                                                                         var i = 1;
  variables x
                                                                                                                                         do {
                                                                                                                                                                     // i
                                                                                                 // write to the browser console
                                                                                (a);
                                                                                                                                         document.write(i + ", ");
                                 // variable
                                                                                                 // write to the HTML
var a:
                                                                                ite(a);
var b = "init";
                                                                                                                                         } while (i < 100)
                                 // string
                                                                                                 // output in an alert box
var c = "Hi" + " " + "Joe";
                                 // = "Hi Joe'
                                                                                ally?");
                                                                                                 // yes/no dialog, returns true/false
var d = 1 + 2 + "3";
                                 // = "33"
                                                                                ^ age?","0");
                                                                                                 // input dialog. Second argument is t
var e = [2,3,5,8];
                                                                                                                                         for (var i = 0; i < 10; i++) {</pre>
                                 // array
                                                                                                                                         if (i == 5) { break; }
document.write(i + ", ");
var f = false;
                                 // boolean
var g = /()/;
                                 // RegEx
var h = function(){};
                                                                                                                                         }
                                 // function object
                                 // constant
const PI = 3.14;
                                                                                                                                         Continue
var a = 1, b = 2, c = a + b;
                                 // one line
                                                                                                                                         for (var i = 0; i < 10; i++) {
let z = 'zzz';
                                 // block scope local variable
                                                                                                                                         if (i == 5) { continue; }
                                                                      Data Types R
Strict mode
                                                                                                                                         document.write(i + ", ");
"use strict";
                // Use strict mode to write secure code
                                                                                                             // number
                                                                    var age = 18;
                // Throws an error because variable is not declar
                                                                    var name = "Jane";
                                                                                                             // string
                                                                    var name = {first:"Jane", last:"Doe"};
                                                                                                             // object
                                                                    var truth = false;
                                                                                                             // boolean
                                                                                                                                           Strings ⊗
                                 // boolean
                                                                    var sheets = ["HTML","CSS","JS"];
                                                                                                             // arrav
18, 3.14, 0b10011, 0xF6, NaN
                                 // number
                                                                                                             // undefined
                                                                    var a; typeof a;
"flower", 'John'
                                 // string
                                                                                                                                         var abc = "abcdefghijklmnopqrstuv
                                                                                                             // value null
                                                                    var a = null;
                                                                                                                                         var esc = 'I don\'t \n know';
undefined, null , Infinity
                                 // special
                                                                                                                                         var len = abc.length;
Operators
                                                                                                                                         abc.indexOf("lmno");
                                                                    var student = {
                                                                                                     // object name
                                                                                                                                         abc.lastIndexOf("lmno");
a = b + c - d;
                    // addition, substraction
                                                                    firstName:"Jane",
                                                                                                 // list of properties and values
a = b * (c / d);
                                                                                                                                         abc.slice(3, 6);
                    // multiplication, division
                                                                    lastName:"Doe",
                                                                                                                                         abc.replace("abc","123");
x = 100 \% 48;
                    // modulo. 100 / 48 remainder = 4
                                                                    age:18,
                                                                                                                                         abc.toUpperCase();
a++; b--;
                    // postfix increment and decrement
                                                                    height: 170,
                                                                                                                                         abc.toLowerCase();
                                                                    fullName : function() {
                                                                                                // object function
Bitwise operators
                                                                                                                                         abc.concat(" ", str2);
                                                                       return this.firstName + " " + this.lastName;
                                                                                                                                         abc.charAt(2);
                        5 & 1 (0101 & 0001) 1 (1)
     AND
&
                                                                                                                                         abc[2];
      OR
                        5 | 1 (0101 | 0001)
                                             5 (101)
                                                                    };
                                                                                                                                         abc.charCodeAt(2);
      NOT
                                             10 (1010)
                        ~ 5 (~0101)
                                                                    student.age = 19;
                                                                                                 // setting value
                                                                                                                                         abc.split(",");
      XOR
                        5 ^ 1 (0101 ^ 0001)
                                             4 (100)
                                                                    student[age]++;
                                                                                                 // incrementing
                                                                                                                                         abc.split("");
                        5 << 1 (0101 << 1)
                                             10 (1010)
     left shift
                                                                    name = student.fullName(); // call object function
                                                                                                                                         128.toString(16);
     right shift
                        5 >> 1 (0101 >> 1)
                                             2 (10)
>>> zero fill right shift 5 >>> 1 (0101 >>> 1) 2 (10)
Arithmetic
                                                                                                                                           Events ①
                                                                      Numbers and Math >
a * (b + c)
                    // grouping
                                                                                                                                                    Lick="myFunction();">
person.age
                    // member
                                                                    var pi = 3.141;
                    // member
                                                                    pi.toFixed(∅);
                                                                                             // returns 3
person[age]
                    // logical not
                                                                    pi.toFixed(2);
                                                                                             // returns 3.14 - for working with money
!(a == b)
a != b
                                                                    pi.toPrecision(2)
                                                                                             // returns 3.1
                    // not equal
typeof a
                    // type (number, object, function...)
                                                                    pi.valueOf();
                                                                                             // returns number
                                                                                                                                                    ntextmenu, ondblclick, o
                    // minary shifting
x \ll 2 \times \gg 3
                                                                    Number(true):
                                                                                             // converts to number
                                                                                                                                                    ve, onmouseover, onmou
a = b
                    // assignment
                                                                    Number(new Date())
                                                                                             // number of milliseconds since 1970
                                                                    parseInt("3 months");
a == b
                    // equals
                                                                                            // returns the first number: 3
                                                                    parseFloat("3.5 days"); // returns 3.5
a != b
                    // unequal
                                                                                                                                                    onkeypress, onkeyup
a === b
                    // strict equal
                                                                    Number.MAX VALUE
                                                                                             // largest possible JS number
                                                                    Number.MIN VALUE
a !== b
                    // strict unequal
                                                                                             // smallest possible JS number
a < b a > b
                    // less and greater than
                                                                    Number.NEGATIVE_INFINITY// -Infinity
                                                                                                                                                    eforeunload, onerror, onl
a \le b \quad a >= b
                    // less or equal, greater or eq
                                                                    Number.POSITIVE_INFINITY// Infinity
                                                                                                                                                    scroll, onunload
a += b
                    // a = a + b (works with - * %...)
a && b
                    // logical and
a || b
                    // logical or
                                                                    var pi = Math.PI;
                                                                                             // 3.141592653589793
                                                                                                                                                    ange, onfocus, onfocusin
                                                                    Math.round(4.4);
                                                                                             // = 4 - rounded
                                                                                                                                                    select, onsubmit
                                                                    Math.round(4.5);
                                                                                             // = 5
                                                                    Math.pow(2,8);
                                                                                             // = 256 - 2 to the power of 8
                                                                    Math.sqrt(49);
                                                                                             // = 7 - square root
  Dates 🗂
                                                                                                                                                    agend, ondragenter, ond
```

https://htmlcheatsheet.com/js/

```
.14):
                                                                                              // = 3.14 - absolute, positive value
Fri Jul 16 2021 11:36:18 GMT+0530 (India Standard Time)
                                                                                 .14);
                                                                                              // = 4 - rounded up
                                                                                                                                                      it, onpaste
var d = new Date();
                                                                                3.99):
                                                                                              // = 3 - rounded down
1626415578963 miliseconds passed since 1970
                                                                                              // = 0 - sine
Number(d)
                                                                                              // OTHERS: tan,atan,asin,acos,
                                                                                 th.PI);
                                                                                                                                                      anplay, oncanplaythroug
Date("2017-06-23");
                                     // date declaration
                                                                                 3, -2, 2);
                                                                                             // = -2 - the lowest value
                                                                                                                                                      a, onloadedmetadata, on
Date("2017");
                                     // is set to Jan 01
                                                                                 3, -2, 2); // = 3 - the highest value
                                                                                                                                                      onratechange, onseeked
                                                                                              // = 0 natural logarithm
Date("2017-06-23T12:00:00-09:45"); // date - time YYYY-MM-DDTHH:MM:SSZ
                                                                                                                                                      ange, onwaiting
                                                                                              // = 2.7182pow(E,x)
Date("June 23 2017");
                                     // long date format
                                                                                              // random number between 0 and 1
Date("Jun 23 2017 07:45:00 GMT+0100 (Tokyo Time)"); // time zone
                                                                                 ();
                                                                                 Math.random() * 5) + 1; // random integer, from 1 to 5
                                                                                                                                                      d, animationiteration, ani
var d = new Date();
                                                                                 2, SQRT1_2, LN2, LN10, LOG2E, Log10E
                                                                                                                                                      , onmessage, onmousev
a = d.getDay();
                    // getting the weekday
                                                                                                                                          onstorage, ontoggle, onwheel, ontouc
getDate();
                    // day as a number (1-31)
getDay();
                    // weekday as a number (0-6)
                                                                       Arrays ≡
getFullYear();
                    // four digit year (yyyy)
getHours();
                     // hour (0-23)
                                                                     var dogs = ["Bulldog", "Beagle", "Labrador"];
getMilliseconds();
                    // milliseconds (0-999)
                                                                     var dogs = new Array("Bulldog", "Beagle", "Labrador"); // declaration
getMinutes();
                    // minutes (0-59)
                                                                                                  // access value at index, first item being [0] Functions ()
getMonth();
                    // month (0-11)
                                                                     alert(dogs[1]);
getSeconds();
                    // seconds (0-59)
                                                                     dogs[0] = "Bull Terier";
                                                                                                  // change the first item
getTime();
                    // milliseconds since 1970
                                                                                                                                          eval();
                                                                     for (var i = 0; i < dogs.length; i++) {</pre>
                                                                                                                  // parsing with array
Setting part of a date
                                                                                                                                          String(23);
                                                                     console.log(dogs[i]);
                                                                                                                                          (23).toString();
                                                                                                                                                                        // re
var d = new Date();
                                                                                                                                          Number("23");
                                                                                                                                                                        // re
d.setDate(d.getDate() + 7); // adds a week to a date
                                                                     Methods
                                                                                                                                          decodeURI(enc);
                                                                                                                                                                        // de
                                                                                                                                          encodeURI(uri);
                                                                                                                                                                        // er
                    // day as a number (1-31)
                                                                     dogs.toString();
                                                                                                               // convert to string: res
                    // year (optionally month and day)
                                                                                                                                          decodeURIComponent(enc);
                                                                                                                                                                        // de
setFullYear();
                                                                     dogs.join(" *
                                                                                                               // join: "Bulldog * Beagl
                                                                                                                                          encodeURIComponent(uri);
                                                                                                                                                                        // er
setHours();
                    // hour (0-23)
                                                                                                               // remove last element
                                                                     dogs.pop();
                                                                                                                                          isFinite();
                                                                                                                                                                        // i:
                    // milliseconds (0-999)
setMilliseconds();
                                                                     dogs.push("Chihuahua");
                                                                                                               // add new element to the
                                                                                                                                          isNaN():
                                                                                                                                                                        // is
setMinutes();
                    // minutes (0-59)
                                                                     dogs[dogs.length] = "Chihuahua";
                                                                                                               // the same as push
                                                                                                                                          parseFloat();
                                                                                                                                                                        // re
setMonth();
                    // month (0-11)
                                                                     dogs.shift();
                                                                                                               // remove first element
                                                                                                               // add new element to the parseInt();
                                                                                                                                                                        // pa
setSeconds();
                    // seconds (0-59)
                                                                     dogs.unshift("Chihuahua");
                                                                     delete dogs[0];
setTime();
                     // milliseconds since 1970)
                                                                                                               // change element to undefined (not
                                                                     dogs.splice(2, 0, "Pug", "Boxer");
                                                                                                               // add elements (where, how many to
                                                                                                               // join two arrays (dogs followed) ar Expression
                                                                     var animals = dogs.concat(cats,birds);
                                                                     dogs.slice(1,4);
  Errors ⚠
                                                                             <u>+ () :</u>
                                                                                                               // sort string alphabetic var a = str.search(/CheatSheet/i)
                                                                                                               // sort string in descend
                                                                                e();
try {
                                 // block of code to try
                                                                                 tion(a, b){return a - b});
                                                                                                               // numeric sort
undefinedFunction():
                                                                                                                                          Modifiers
                                                                                tion(a, b){return b - a});
                                                                                                               // numeric descending sor
}
                                                                                                                                                              perform case-in
                                                                                [0];
                                                                                                               // first item in sorted a
catch(err) {
                                 // block to handle errors
                                                                                                                                                              perform a globa
                                                                                tion(a, b){return 0.5 - Math.random()});
                                                                                                                               // random
console.log(err.message);
                                                                                                                                                              perform multilin
}
                                                                                 Within, every, fill, filter, find, findIndex, forEach, indexOf, isArra Patterns
                                                                                 map, pop, push, reduce, reduceRight, reverse, shift, slice, son
Throw error
                                                                                                                                                               Escape charact
                                                                                 ig, unshift, valueOf
throw "My error message";
                             // throw a text
                                                                                                                                          \d
                                                                                                                                                              find a digit
                                                                                                                                          \s
                                                                                                                                                              find a whitespa
                                                                                                                                          \h
                                                                                                                                                              find match at be
Input validation
                                                                                                                                                              contains at leas
                                                                                                                                          n+
var x = document.getElementById("mynum").value; // get input value
                                                                                                                                                              contains zero o
                                                                       JSON i
try {
                                                                                                                                                              contains zero o
if(x == "") throw "empty";
                                              // error cases
                                                                                                                                                              Start of string
                                                                     var str = '{"names":[' +
                                                                                                                   // crate JSON object
if(isNaN(x)) throw "not a number";
                                                                                                                                                              End of string
                                                                      '{"first":"Hakuna","lastN":"Matata" },' +
x = Number(x);
                                                                                                                                                              find the Unicode
                                                                     '{"first":"Jane","lastN":"Doe" },' +
'{"first":"Air","last":"Jordan" }]}';
if(x > 10) throw "too high";
                                                                                                                                                              Any single char
                                                                                                                                                              a or b
                                                                     obj = JSON.parse(str);
                                                                                                                   // parse
catch(err) {
                                                  // if there's an
                                                                                                                                                              Group section
                                                                     document.write(obj.names[1].first);
                                                                                                                                             Promises P In range (a, b o
                                                                                                                   // access
document.write("Input is " + err);
                                              // output error
console.error(err);
                                              // write the error in
                                                                     var myObj = { "name":"Jane", "age":18, "city":"Chicago" }; // cr function sum (a, b) {
finally {
                                                                                                                                   // st return Promise(function (resolve
                                                                     var myJSON = JSON.stringify(myObj);
document.write("</br />Done");
                                              // executed regardles
                                                                                                                                          setTimeout(function () {
                                                                     window.location = "demo.php?x=" + myJSON;
                                                                                                                                   // se
}
                                                                                                                                             if (typeof a !== "number" || 1
                                                                                                                                                    return reject(new TypeEr
                                                                     Storing and retrieving
Error name values
                                                                     myObj = { "name":"Jane", "age":18, "city":"Chicago" };
RangeError
                   A number is "out of range"
                                                                                                                                             resolve(a + b);
                                                                     myJSON = JSON.stringify(myObj);
                                                                                                                       // storing data
ReferenceError
                   An illegal reference has occurred
                                                                                                                                           }, 1000);
                                                                     localStorage.setItem("testJSON", myJSON);
SyntaxError
                   A syntax error has occurred
                                                                                                                                          });
                                                                     text = localStorage.getItem("testJSON");
                                                                                                                       // retrieving dat
TypeError
                    A type error has occurred
                                                                     obj = JSON.parse(text);
URIError
                    An encodeURI() error has occurred
                                                                                                                                          var mvPromise = sum(10, 5):
                                                                     document.write(obj.name);
                                                                                                                                          myPromsise.then(function (result)
                                                                                                                                          document.write(" 10 + 5: ", resul
                                                                                                                                          return sum(null, "foo");
  Useful Links ₽
                                                                                                                                          }).then(function () {
                                                                                                                                          }).catch(function (err) {
    JS cleaner
                         Obfuscator
                                              Can I use?
                                                                  Node.js
                                                                                                                                          console.error(err);
                                                                                                                                          });
                                         RegEx tester
                        iQuerv
                                                                                                                                          pending, fulfilled, rejected
                                                                                                                                          Properties
                                                                                                                                          Promise.length, Promise.prototype
                                                                                                                                          Methods
                                                                                                                                          Promise.all(iterable). Promise.race(ite
                                                                                                                                          Promise resolve(value)
```

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