Hide comments



```
Basics >
                                                                                                                                     Loops ∽
                                                                 On page script
                                                                                                                                  For Loop
  Variables x
                                                                                                                                  for (var i = 0; i < 10;
                                                                         type="text/javascript"> ...
                                  // variable
                                                                                                                                       document.write(i +
var a:
var b = "init":
                                  // string
                                                                          ternal JS file
var c = "Hi" + " " + "Joe";
                                  // = "Hi Joe'
// = "33"
                                                                                                                                  var sum = 0:
var d = 1 + 2 + "3";
                                                                          src="filename.is"></script>
                                                                                                                                  for (var i = 0: i < a.le)</pre>
                                                                                                                                      sum + = a[i];
var e = [2,3,5,8];
                                  // arrav
var f = false:
                                  // boolean
                                                                          econd timeout
                                                                                                                                  html = "";
var g = /()/;
                                  // RegEx
                                                                          ut(function () {
var h = function(){};
                                  // function object
                                                                                                                                  for (var i of custOrder)
const PI = 3.14;
                                  // constant
                                                                                                                                      html += "" + i +
var a = 1, b = 2, c = a + b;
let z = 'zzz';
                                  // one line
                                  // block scope local variable
                                                                                                                                  While Loop
                                                                          addNumbers(a, b) {
                                                                                                                                  var i = 1:
                                                                         rn a + b; ;
                                                                                                                                  while (i < 100) {
                // Use strict mode to write secure code
"use strict":
                 // Throws an error because variable is not declared
                                                                                                                                      i *= 2:
                                                                         umbers(1, 2):
                                                                                                                                       document.write(i + "
false. true
                                  // boolean
                                                                          .getElementById("elementID").innerHTML = "Hello Worl Do While Loop
18, 3.14, 0b10011, 0xF6, NaN
                                  // number
                                                                                                                                  var i = 1;
 "flower", 'John'
                                  // string
undefined, null , Infinity
                                  // special
                                                                                               // write to the browser console
                                                                                                                                      i *= 2:
                                                                          log(a):
                                                                                               // write to the HTML
                                                                                                                                      document.write(i + "
                                                                          .write(a):
a = b + c - d;
                     // addition, substraction
                                                                                               // output in an alert box
                                                                                                                                  } while (i < 100)
a = b * (c / d);
                     // multiplication, division
                                                                          "Really?"):
                                                                                               // yes/no dialog, returns true/f-
                                                                                                                                  Break
x = 100 % 48;
                     // modulo. 100 / 48 remainder = 4
                                                                          Your age?","0");
                                                                                               // input dialog. Second argument
                                                                                                                                  for (var i = 0; i < 10; i
a++; b--;
                     // postfix increment and decrement
                                                                                                                                       if (i == 5) { break;
Bitwise operators
                                                                          line
                                                                                                                                       document.write(i + "
                                                                                                                                  }
    AND
                       5 & 1 (0101 & 0001)
                                                                          nt */
                                                                         ine
     OR
                      5 | 1 (0101 | 0001)
                                          5 (101)
                                                                                                                                  Continue
     NOT
                       ~ 5 (~0101)
                                          10 (1010)
                                                                                                                                  for (var i = 0; i < 10; i
     XOR
                       5 ^ 1 (0101 ^ 0001)
                                          4 (100)
                                                                                                                                      if (i == 5) { contint
                       5 << 1 (0101 << 1)
     left shift
                                          10 (1010)
                                                                   Strings ⊗
                                                                                                                                       document.write(i + '
                       5 >> 1 (0101 >> 1)
     right shift
                                          2 (10)
>>> zero fill right shift 5 >>> 1 (0101 >>> 1) 2 (10)
                                                                 var abc = "abcdefghijklmnopgrstuvwxyz";
                                                                 var esc = 'I don\'t \n know'; // \n new line
Arithmetic
                                                                 var len = abc.length;
                                                                                                   // string length
                                                                 abc.indexOf("lmno");
a * (b + c)
                                                                                                   // find substring, -1 if doesr
                     // grouping
                                                                                                                                    Events (1)
                                                                                                   // last occurance
                                                                 abc.lastIndexOf("lmno");
person.age
                     // member
                                                                 abc.slice(3, 6);
                                                                                                   // cuts out "def", negative
person[age]
                     // member
                                                                                                                                  <button onclick="mvFunct:
                                                                 abc.replace("abc","123");
!(a == b)
                     // logical not
                                                                                                   // find and replace, takes r
                                                                                                                                     Click here
a != b
                                                                 abc.toUpperCase():
                                                                                                   // convert to upper case
                     // not equal
                                                                                                                                  </button>
                                                                                                   // convert to lower case
// abc + " " + str2
                                                                 abc.toLowerCase();
typeof a
                     // type (number, object, function...)
                                                                 abc.concat(" ", str2);
                     // minary shifting
x << 2 x >> 3
                                                                 abc.charAt(2);
                                                                                                   // character at index: "c"
a = b
                     // assignment
                                                                                                                                  onclick, oncontextmenu, ondbl
                                                                                                   // unsafe, abc[2] = "C" does
                                                                 abc[2];
                     // equals
                                                                                                                                  onmousemove, onmouseover.
                                                                 abc.charCodeAt(2);
a != b
                                                                                                   // character code at index:
                     // unequal
                                                                 abc.split(",");
abc.split("");
                                                                                                                                  Keyboard
a === b
                     // strict equal
                                                                                                   // splitting a string on com
                                                                                                   // splitting on characters
a !== b
                     // strict unequal
                                                                                                                                  onkeydown, onkeypress, onke
                                                                 128.toString(16);
                                                                                                   // number to hex(16), octal
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 - * %...)
                                                                                                                                  onabort, onbeforeunload, oner
                     // logical and
                                                                                                                                  onpagehide, onresize, onscroll
                                                                   Dates 77
a || b
                     // logical or
                                                                 Wed May 06 2020 04:03:03 GMT+0530 (India Standard Time)
                                                                                                                                           change, onfocus, ont
                                                                 var d = new Date();
                                                                                                                                           onselect, onsubmit
                                                                 1588717983194 miliseconds passed since 1970
  Arrays ≡
var dogs = ["Bulldog", "Beagle", "Labrador"];
var dogs = new Array("Bulldog", "Beagle", "Labrador"); // declarati
17-06-
17");
                                                                                                                                           ndragend, ondragent
                                                                         17-06-23");
                                                                                                       // date declaration
                                                                                                       // is set to Jan 01
                                                                         17-06-23T12:00:00-09:45"); // date - time YYYY-MM-DDTHH:MM:
                                                                                                                                           ncut onnaste
                             // access value at index, first item bei ne 23 2017");
                                                                                                       // long date format
alert(dogs[1]);
dogs[0] = "Bull Terier";
                             // change the first item
                                                                         n 23 2017 07:45:00 GMT+0100 (Tokyo Time)"); // time zone
                                                                                                                                            ncanplay, oncanplay
for (var i = 0; i < dogs.length; i++) {</pre>
                                             // parsing with array.le
                                                                                                                                          data, onloadedmetad
    console.log(dogs[i]);
                                                                          new Date();
                                                                                                                                           s. onratechange, ons
                                                                         tDay();
                                                                                      // getting the weekday
                                                                                                                                           date, onvolumechano
Methods
                                                                                      // dav as a number (1-31)
dogs.toString();
                                          // convert to string: result ;
                                                                                      // weekday as a number (0-6)
                                                                                                                                          end, animationiteration
dogs.join(" *
                                          // join: "Bulldog * Beagle *
                                                                                      // four digit year (yyyy)
                                                                         ear();
                                          // remove last element
dogs.pop();
                                                                         ();
                                                                                                                                          eous
dogs.push("Chihuahua");
                                          // add new element to the en seconds();
                                                                                      // milliseconds (0-999)
                                                                                                                                           end, onmessage, onn
dogs[dogs.length] = "Chihuahua";
                                          // the same as push
                                                                         es();
                                                                                      // minutes (0-59)
                                                                                                                                           , ontoggle, onwheel,
dogs.shift();
                                          // remove first element
                                                                                      // month (0-11)
dogs.unshift("Chihuahua");
                                          // add new element to the be ds();
                                                                                      // seconds (0-59)
                                          // change element to undefin );
delete dogs[0];
                                                                                      // milliseconds since 1970
dogs.splice(2, 0, "Pug", "Boxer");
                                          // add elements (where, how
                                          // join two arrays (dogs fol rt of a date
var animals = dogs.concat(cats,birds);
dogs.slice(1,4):
                                          // elements from [1] to [4-1 new Date();
                                          // sort string alphabeticall e(d.getDate() + 7); // adds a week to a date
dogs.sort();
                                                                                                                                     Regular Express
                                          // sort string in descending
dogs.reverse();
x.sort(function(a, b){return a - b});
                                          // numeric sort
                                                                                                                                  var a = str.search(/Cheat
                                                                                      // day as a number (1-31)
                                                                         );
x.sort(function(a, b){return b - a});
                                          // numeric descending sort
                                                                         ear();
                                                                                      // year (optionally month and day)
                                                                                      // hour (0-23)
                                                                         ();
```

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// first item in sorted arra | seconds(); // milliseconds (0-999)
                                                                                                                                                                         perform (
highest = x[0]:
x.sort(function(a, b){return 0.5 - Math.random()});
                                                                                                                                                                         perform a
                                                                  // random or es();
                                                                                                  // minutes (0-59)
                                                                                                                                                    g
                                                                                                 // month (0-11)
                                                                                                                                                                         perform i
                                                                                 - ();
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
                                                                                                  // seconds (0-59)
                                                                                   ds();
                                                                                                                                                    Patterns
                                                                                                  // milliseconds since 1970)
                                                                                                                                                                         Escape c
                                                                                                                                                    \d
                                                                                                                                                                         find a dig
  Errors 1
                                                                                                                                                                         find a wh
                                                                            JSON<sub>i</sub>
                                                                                                                                                    15
                                                                                                                                                                         find mate
try {
                                      // block of code to try
                                                                          var str = '{"names":[' +
                                                                                                                                                                         contains
                                                                                                                               // crate JSON object
     undefinedFunction():
                                                                           '{"first":"Hakuna","lastN":"Matata" },' +
                                                                         '{"first":"Jane","lastN":"Doe" },' +
'{"first":"Air","last":"Jordan" }]}';
                                                                                                                                                                         contains
catch(err) {
                                      // block to handle errors
                                                                                                                                                                         Start of s
    console.log(err.message);
                                                                          obj = JSON.parse(str);
                                                                                                                               // parse
                                                                                                                                                                         find the U
                                                                          document.write(obj.names[1].first);
                                                                                                                               // access
                                                                                                                                                                         Anv sino
Throw error
throw "My error message":
                                  // throw a text
                                                                         var myObj = { "name":"Jane", "age":18, "city":"Chicago" }; // creat
                                                                          var myJSON = JSON.stringify(myObj);
Input validation
                                                                         window.location = "demo.php?x=" + myJSON;
var x = document.getElementById("mynum").value; // get input-
                                                                         Storing and retrieving
try {
    if(x == "") throw "empty";
                                                         // error cas myObj = { "name":"Jane", "age":18, "city":"Chicago" };
                                                                         myJSON = JSON.stringify(myObj);
localStorage.setItem("testJSON", myJSON);
     if(isNaN(x)) throw "not a number";
                                                                                                                                   // storing data
     x = Number(x);
                                                                          text = localStorage.getItem("testJSON");
     if(x > 10)
                   throw "too high";
                                                                                                                                   // retrieving data
                                                                         obj = JSON.parse(text);
catch(err) {
                                                         // if there' document.write(obj.name);
     document.write("Input is " + err);
                                                         // output error
     console.error(err);
                                                         // write the error i
finally {
     document.write("</br />Done");
                                                         // executed regardle
Error name values
                    A number is "out of range"
An illegal reference has occurred
RangeError
ReferenceError
SyntaxError
                     A syntax error has occurred
                    A type error has occurred
An encodeURI() error has occurred
TypeError
URIError
```

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