onclick="document.getElementById('demo').innerHTML = 'test' "

this will change the text within the demo ID to 'test'

onclick="document.getElementById('demo').style.fontSize='35px'"

this will change the font size of the text in the demo ID to 35px

document.getElementById("demo").style.display = "none";

document.getElementById("demo").style.display = "block";

document.write

window.alert(alertcontent)

console.log(logcontent)

you can declare variables in script tags

|  |  |
| --- | --- |
| **Keyword** | **Description** |
| break | Terminates a switch or a loop |
| continue | Jumps out of a loop and starts at the top |
| debugger | Stops the execution of JavaScript, and calls (if available) the debugging function |
| do ... while | Executes a block of statements, and repeats the block, while a condition is true |
| for | Marks a block of statements to be executed, as long as a condition is true |
| function | Declares a function |
| if ... else | Marks a block of statements to be executed, depending on a condition |
| return | Exits a function |
| switch | Marks a block of statements to be executed, depending on different cases |
| try ... catch | Implements error handling to a block of statements |
| var | Declares a variable |

**String methods**

Str.length returns length of string

Str.indexOf("index") returns the start index of the first occurrence of the specified string

Str.indexOf("index",4) starts search after specified index number

Str.lastIndexOf("index") returns the start index of the last occurrence of the specified string

Str.search("index") same as indexOf, but cannot take a start position. Can take regular expressions

Str.slice(x,y) returns string >= x and <y. negative values count from the end instead

Str.slice(x) returns all of string after x

Str.substring(x,y) same as slice, cannot accept negative values

Str.substr(x,y) slice, but returns a string of length y starting at index x

Str.replace("replace with","this") returns a string, replacing a first instance of a string with another

Str.toUpperCase() returns the string in all uppercase

Str.toLowerCase() same, lowercase

Str1.concat(str2, str3) join 2 or more strings. This equals str1 + str2 + str3

Str.charAt(x) returns character present at position x

Str.charCodeAt(x) returns Unicode character present at position x

Str.split(",") converts string to array. Array items are separated at the given string

**Number methods**

num.toString() converts to a string

num.toExponential(x) returns exponential number with x number of characters after the decimal point

num.toFixed(x) returns number with x number of decimal places

num.toPrecision(x) returns string with x number of digits

number(str) returns a number pulled from the string

parseInt(str) same, but whole numbers only

parseFloat(str) similar to number()

**array methods**

arr.join(" \* ") returns a string of each array item concatenated with the given string

arr.pop() removes the last item in an array. Also returns the value that was removed

arr.push(str) adds that string to the end of the array. Returns new length of the array

arr.shift() same as pop, but removes the first list item. Returns the removed item

arr.unshift(str) adds the string to the beginning of the array. Returns new length of array

arr[x] = str updates the item at array index x to equal str

delete arr[x] changes the element at position x to be undefined

arr.splice(x,y,str1,str2) add new strings into an array at index x while removing y elements

arr.slice(x,y) same as slice, returns an array, not a string

arr1.concat(arr2) returns an array of 2 or more merged arrays

**sorting arrays**

arr.sort() sorts elements by alphabetical order

arr.reverse() reverse order sort

**sorting numerically** – because a sort is alphabetical and not numeric, a workaround is necessary. By comparing two values to see which one is numerically higher, a numerical sort can be obtained

arr.sort(function(a, b){return a – b}) returns a numerically sorted array

arr.sort(function(a, b){return a + b}) returns a numerically descending sorted array

**date**

var d = new Date(year, month, day, house, minute, second, millisecond) creates a variable as a date

no input creates a date/time form the current date/time

date.getTime() returns ms between date and jan 1, 1970

date.getFullYear() returns year

date.getMonth() returns month (0-11)

date.getDate() returns day of month (1-31)

date.getHours() returns hour (0-23)

date.getMinutes() returns minutes (0-59)

date.getSeconds() returns seconds (0-59)

date.getMilliseconds() returns milliseconds (0-999)

date.getDay() returns day of week (0-6)

alternate versions of these methods exist. Set instead of get

date.setFullYear(1999) sets the year of the date variable

…

Date.setDate() adds days of the week to the date string

Math.abs(x) Returns the absolute value of x

Math.acos(x) Returns the arccosine of x, in radians

Math.asin(x) Returns the arcsine of x, in radians

Math.atan(x) Returns the arctangent of x as a numeric value between -PI/2 and PI/2 radians

Math.atan2(y, x) Returns the arctangent of the quotient of its arguments

Math.ceil(x) Returns the value of x rounded up to its nearest integer

Math.cos(x) Returns the cosine of x (x is in radians)

Math.exp(x) Returns the value of Ex

Math.floor(x) Returns the value of x rounded down to its nearest integer

Math.log(x) Returns the natural logarithm (base E) of x

Math.max(x, y, z, ..., n) Returns the number with the highest value

Math.min(x, y, z, ..., n) Returns the number with the lowest value

Math.pow(x, y) Returns the value of x to the power of y

Math.random() Returns a random number between 0 and 1

Math.round(x) Returns the value of x rounded to its nearest integer

Math.sin(x) Returns the sine of x (x is in radians)

Math.sqrt(x) Returns the square root of x

Math.tan(x) Returns the tangent of an angle

Math.E // returns Euler's number

Math.PI // returns PI

Math.SQRT2 // returns the square root of 2

Math.SQRT1\_2 // returns the square root of 1/2

Math.LN2 // returns the natural logarithm of 2

Math.LN10 // returns the natural logarithm of 10

Math.LOG2E // returns base 2 logarithm of E

Math.LOG10E // returns base 10 logarithm of E

Regular expressions – an expression that forms a search pattern. instead of quoting a string, surround it by slashes (/) and follow it by a letter

/demo/i means case insensitive

/demo/g is a global match. Can be used to reference all instances of a string in another string, rather than the first instance (good for replace)