

Built-In Functions

Function	Description
eval(expression)	Evaluates a string as a JavaScript statement or expression, and either executes it or returns the resulting value.
parseInt(string, base)	Finds an integer value at the beginning of a string and returns it. If there is no number at the beginning of the string, Windows platforms return 0; other platforms return "NaN" (not a number).
parseFloat(string)	Finds a floating-point value at the beginning of a string and returns it. If there is no number at the beginning of the string, either 0 or "NaN" (not a number) is returned.
Number(string)	Converts a string/boolean to Number or NaN
isNaN(value)	Evaluates <i>value</i> to see if it is Not a Number. Returns a boolean value
escape(character)	Returns a string containing the ASCII encoding of character in the form
escape(str)	Converts a string to URL-encoded (escaped) form. All nonalphanumeric characters are converted to % and their ASCII value to hexadecimal.
unescape(str)	Converts an escaped (URL-encoded) string to normal text. It can be used to convert characters in URLs.
encodeURIComponent	To Encode the Query string value.

Standard Date and Time Functions:

new Date()

new Date(milliseconds) //time is 01 January 1970 00:00:00 UTC

new Date(dateString) //string format: October 13, 2014 11:13:00

new Date(year, month, day, hours, minutes, seconds, milliseconds)

Function	Parameters	Return Types	
setDate	dateValue	-----	Set the day as a number (1-31)
setMonth	monthvalue	-----	Set the month (0-11)
setYear	Yearvalue	-----	
setFullYear			Set the year (optionally month and day yyyy.mm.dd)
setTime	TimeValue	-----	Set the time (milliseconds since January 1, 1970)
setHours	hoursvalue	-----	Set the hour (0-23)
setMinutes	minutesvalue	-----	Set the minutes (0-59)
setSeconds	secondsvalue	-----	Set the seconds (0-59)
setMilliseconds			Set the milliseconds (0-999)
getDate	-----	dateValue	Get the day as a number (1-31)
getDay			Get the weekday a number (0-6)
getMonth	-----	Monthvalue	Get the month (0-11)
getFullYear	-----	Yearvalue	Get the four digit year (yyyy)
getTime	-----	timeValue	Get the time (milliseconds since January 1, 1970)
getHours	-----	Hoursvalue	Get the hour (0-23)
getMinutes	-----	minutesvalue	Get the minutes (0-59)
getSeconds	-----	secondsvalue	Get the seconds (0-59)
getTimeZoneOffset	-----	Longvalue	
toGMTString	-----	String	
toLocaleString()	-----	String	

String Functions:

Function	Parameters	Return Type
indexOf	string and initial index	Next occurrence of the string
lastIndexOf	string and starting index	Index of last occurrence of the string
link	URL	A tag with hypertext link
split	Separator	Array of string
substring	FirstIndex and lastIndex	String
toString	-----	String
toUpperCase	-----	String
toLowerCase	-----	String

big	-----	BIG Tag
blink	-----	BLINK Tag
bold	-----	Bold Tag
fixed	-----	TT Tag
fontcolor	-----	 and Tags
fontsize	-----	 and Tags
italics	-----	I Tag
small	-----	SMALL Tag
strike	-----	STRIKE Tag
sub	-----	SUB Tag
sup	-----	SUP Tag
anchor	name	A tag

Regular Expressions:

It's a string which is used for form a search pattern rather than direct matching.

Eg: `var pattern = /demo/i`

- **/demo/i** is a regular expression.
- **demo** is a pattern (to be used in a search).
- **i** is a modifier (modifies the search to be case-insensitive).

The search() method uses an expression to search for a match, and returns the position of the match.

`var n = string.search(pattern)`

The replace() method returns a modified string where the pattern is replaced.

`var txt = str.replace(/Microsoft/i,"Deccansoft");`

Regular Expression Patterns

- **?** = 0 or 1
- ***** = 0 or More
- **+** = 1 or More
- **[]** = any one of them
- **{x}** = x times
- **\w** = word
- **\s** = space
- **\d** = digit
- **\s** = whitespace
- **\b** = match beginning or at the end of the word
- **|** = Find any of the alternatives separated with |

test() method.

```
var pat = /e/;
```

```
var bln = pat.test("The best things in life are free!");
```

exec() method.

It searches a string for a specified pattern, and returns the found text.

If no match is found, it returns *null*

```
/e/.exec("The best things in life are free!");
```

Math Functions:

Function	Parameters	Return Type
PI	-----	Float
cos()	Number	Float
sin()	Number	Float
tan()	Number	Float
acos()	Number	Float
asin()	Number	Float
atan()	Number	Float
atan2()	Number1,number2	Float
exp()	Number	Float
log()	Number	Float
max(x,y,z,...,n)	number1,number2	Number
min(x,y,z,...,n)	number1,number2	Number
abs()	Number	Float
ceil()	Number	Integer greater than number
floor()	Number	Integer less than number
pow()	number1,number2	Float
round()	Number	Integer
sqrt()	Number	Float
random()	-----	Float