OPERATORS IN JAVASCRIPT

Operators

The most common operators are mathematical operators; +, -, /, * (add, subtract, divide, multiply) for example. Operators can be split into two groups, comparison operators and assignment or 'action' operators. Comparison operators test to see if two variables relate to each other in the specified way, for example, one variable is a higher number than the other. Other operators perform an action on a variable, such as increasing it by one.

The following table gives those that are most commonly used. There are many JavaScript 1.3 operators such as the identity operator === and others like it. These are supported by all current browsers, but are rarely used. Browsers that do not understand them will just produce errors.

Operato	rDescription			
Орегаю	-			
+	adds two numbers or appends two strings - if more than one type of variable is appended, including a string appended to a number or			
	vice-versa, the result will be a string			
-	subtracts the second number from the first			
/	divides the first number by the second			
*	multiplies two numbers			
%	divide the first number by the second and return the remainder (or			
	modulus)			
=	assigns the value on the right to the object on the left			
+=	the object on the left = the object on the left plus (+) the value on			
	the right - this also works when appending strings			
-=	the object on the left = the object on the left minus (-) the value on			
	the right			
>	number on the left must be greater than the number on the right -			
	this also works with strings and values			
<	number on the left must be less than the number on the right - this			
	also works with strings and values			
>=	number on the left must be greater than or equal to the number on			
	the right - this also works with strings and values			
<=	number on the left must be less than or equal to the number on the			
	right - this also works with strings and values			
++	increment the number			
	decrement the number			
L				

==	the numbers or objects or values must be equal
!=	the numbers or objects or values must not be equal
in	object or array on the right must have the property or cell on the left

Bitwise and logical operators

Operator	Description
<<	bitwise leftshift
>>	bitwise rightshift
&	bitwise AND
	bitwise OR
^	bitwise XOR
~	bitwise NOT
!	logical NOT (the statement must not be true)
&&	logical AND (both statements must be true)
	logical OR (either statement must be true)

Note JavaScript does not support logical Exclusive OR (XOR) operator.

Examples of JavaScript Assignment Operators

In the following table the variables x and y have been assigned the values of x=2 and y=4.

Operator	Example	Equivalent to	Result
=	x = y		x = 4
+=	x += y	x = x + y	x = 6
-=	x -= y	x = x - y	x = -2
*=	x *= y	x = x * y	x = 8
/=	x /= y	x = x / y	x = 0.5
% =	x %= y	x = x % y	x = 2

Source : http://www.soslug.org/node/1726