

JavaScript Operators

JavaScript operators are symbols that are used to perform operations on operands. E.g.

```
var sum = 10+20;
```

Here, + is the arithmetic operator and = is the assignment operator.

Types of operators

1. Arithmetic operators
2. Comparison operators
3. Bitwise operators
4. Logical operators
5. Assignment operators
6. Special operators

JavaScript arithmetic operators

They are used to perform operations on the operands.

Operator	Description	Example
+	Addition	10+20 = 30
-	Subtraction	20-10 = 10
*	Multiplication	20*10 = 200
/	Division	20/10 = 2
%	Modules/remainder	20%10 = 0
++	Increment	Var a = 10; A++; Now a = 11;
--	Decrement	Var a = 10; a--; now = 9;

JavaScript comparison operators

It is used to compare two operands.

Operators	Description	example
==	Is equal to	10 == 20 =false
===	Identical (equal and of the same type)	10===20 =false
!=	Not equal to	10 != 20 =true
!==	Not identical	20!==20 =false
>	Greater than	20>10 =true
>=	Greater than or equal to	20>=10 =true
<	Less than	20>10 =false
<=	Less than or equal to	20<=10 =false

JavaScript bitwise operators

It is used to perform bitwise operations on operands.

Operator	Description	Example
&	Bitwise AND	(10==20 & 20==33) =false
	Bitwise OR	(10==20 20==33) =false
^	Bitwise XOR	(10==20 ^ 20==33) =false
~	Bitwise not	(~10) = -10
<<	Bitwise left shift	(10<<2) = 40
>>	Bitwise right	(10>>2) =2
>>>	Bitwise right shift with zero	(10>>>2) = 2

JavaScript logical operators

Operators	Description	Examples
&&	Logical AND	(10==20 && 20==33) =false
	Logical OR	(10==20 20 ==33) =false
!	Logical not	!(10==20) =true

JavaScript assignment Operators

Operator	Description	Example
=	assign	10 +10 = 20
+=	Add and assign	Var a = 10; A+=20; Now a = 30
- =	Subtract and assign	Var a=20; a- =10; now a=10
=	Multiply and assign	Var a=10; A=20; Now a = 200
/=	Divide and assign	Var a = 10; a/=2; now a = 5
%=	Modulus and assign	Var = 10; a%=2; now a=0