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JavaScript Operator Precedence

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Operator precedence describes the order in which operations are performed in an arithmetic expression.

Multiplication (*) and division (/) have higher **precedence** than addition (+) and subtraction (-).

Examples

As in traditional mathematics, multiplication is done first:

```
let x = 100 + 50 * 3;
```

Try it Yourself »

As in traditional mathematics, the precedence can be changed by parentheses.

When using parentheses, operations inside the parentheses are computed first:

```
let x = (100 + 50) * 3;
```

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Operations with the same precedence (like * and /) are computed from left to right:

HTML

CSS **JAVASCRIPT**







Try it Yourself »

Operator Precedence Values

Expressions in parentheses are computed **before** the rest of the expression Function are executed **before** the result is used in the rest of the expression

Val	Operator	Description	Example
18	()	Expression Grouping	(100 + 50) * 3
17		Member Of	person.name
17	[]	Member Of	person["name"]
17	?.	Optional Chaining ES2020	x ?. y
17	()	Function Call	myFunction()
17	new	New with Arguments	new Date("June 5,2022")
16	new	New without Arguments	new Date()

Increment Operators

Posfix increments are executed **before** prefix increments

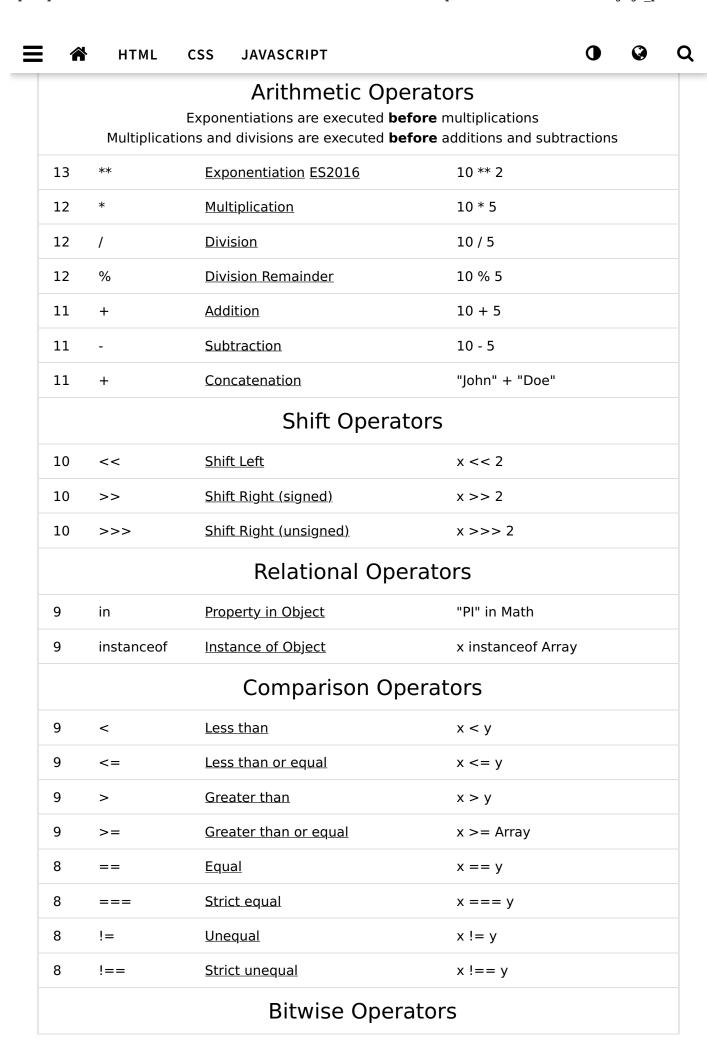
15	++	Postfix Increment	i++	
15		Postfix Decrement	i	
14	++	Prefix Increment	++i	
14		Prefix Decrement	i	
NOT Operators				

14	!	<u>Logicai NOT</u>	!(x==y)
14	~	Bitwise NOT	~X

Unary Operators

14	+	<u>Unary Plus</u>	+x
14	-	<u>Unary Minus</u>	-X
14	typeof	<u>Data Type</u>	typeof x
14	void	Evaluate Void	void(0)

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=		HTML	CSS JAVASCRIPT		•	Q	Q
	6	^	Bitwise XOR	x ^ y			
	5		Bitwise OR	x y			
		Logical Operators					
	4	&&	<u>Logical AND</u>	x && y			
	3	II	<u>Logical OR</u>	x y			
	3	??	Nullish Coalescing ES2020	x ?? y			
		Conditional (ternary) Operator					
	2	?:	Condition	? "yes" : "no"			
	Assignment Operators Assignments are executed after other operations						
	2	=	Simple Assignment	x + y			
	2	:	Colon Assignment	x: 5			
	2	+=	Addition Assignment	x += y			
	2	-=	Subtraction Assignment	x -= y			
	2	*=	Multiplication Assignment	x *= y			
	2	**=	Exponentiation Assignment	x **= y			
	2	/=	Division Assignment	x /= y			
	2	%=	Remainder Assignment	x %= y			
	2	<<=	Left Shift Assignment	x <<= y			
	2	>>=	Right Shift Assignment	x >>= y			
	2	>>>=	<u>Unsigned Right Shift</u>	x >>>= y			
	2	&=	Bitwise AND Assignment	x &= y			
	2	=	Bitwise OR Assignment	x = y			
	2	^=	Bitwise XOR Assignment	x ^= y			
	2	&&=	Logical AND Assignment	x &= y			
	2	=	Logical OR Assignment	x = y			
	2	=>	Arrow	x => y			
	2	yield	Pause / Resume	yield x			



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