



7. Asosiy operatorlar

Reja:

▼ Operatorlar



Operatorlar bir yoki bir nechta operandlar ustida amal bajaradi. Umumiy ko'rinishi quyidagicha

```
<chap operand> operator <o'ng operand> // son1 + son2
```

```
<chap operand> operator // son1++
```

```
operator <o'ng operand> // --son2
```

Javascript dasturlash tilida odatda quyidagi operatorlar turlari mavjud:




1. Arifmetik (arithmetic) operatorlar
2. Solishtirish (comparison) operatorlar
3. Tayinlash (assignment) operatorlar
4. Mantiqiy (logical) operatorlar
5. Uchlik (ternary) operator

▼ Arifmetik (arithmetic) operatorlar



Javascript dasturlash tilida arifmetik operatorlardan foydalanib ikki operand ustida arifmetik amallar bajarish imkoniyati mavjud

Operatorlar

 Operator	 Tavsifi	 Misol
\pm	Ikki operandi qo'shish	son1 + son2
$-$	O'ng tomondagi operandni chap tarafdin ayirish	son1 - son2
$*$	Ikki operandi ko'paytirish	son1 * son2
$/$	Chap operandni o'ng operandga bo'lish.	son1 / son2
$\%$	Modulus operatori. Ikki operanddan qoldiqni qaytarish	son1 % son2
$++$	Kattalashtirish (increment) operatori. Operand qiymatini bittaga oshirish.	son1++ yoki ++son1
$--$	Kichiklashtirish (decrement) operatori. Operand qiymatini bittaga kamaytirish.	son2-- yoki --son2



```
let a = 5, b = 10;
console.log(a + b); // 15
console.log(a - b); // -5
console.log(a * b); // 50
console.log(a / b); // 0.5
console.log(a % b); // 5
console.log(a++); // 5 (post-increment)
console.log(a); // 6
console.log(++a); // 7 (pre-increment)
console.log(a); // 7
console.log(b--); // 10 (post-decrement)
console.log(b); // 9
console.log(--b); // 8 (pre-decrement)
console.log(b); // 8
```

▼ Solishtirish (comparison) operatorlar



Javascript dasturlash tilida comparison operatorlardan foydalanib ikki operandlarni solishtirish imkoniyati mavjud. Bunday operatorlar `true` yoki `false` qiymatini qaytaradi.

Operatorlar

Aa Operator	 Tavsifi	 Misol
<code>==</code>	Turini hisobga olmagan holda ikkita operandning tengligini solishtirish	<code>variable1 == variable2</code>
<code>===</code>	Turi va qiymati bo'yicha ikkita operandning tengligini solishtirish.	<code>variable1 === variable2</code>
<code>!=</code>	Ikki operand notengligini (teng emasligini) tekshirish.	<code>variable1 != variable2</code>
<code>></code>	Chap tarafdagi qiymat o'ngdagi qiymatdan katta bo'lsa, <code>true</code> qiymatni qaytaradi; aks holda, <code>false</code> qaytaradi.	<code>variable1 > variable2</code>
<code><</code>	Chap tarafdagi qiymat o'ngdagi qiymatdan kichik bo'lsa, <code>true</code> qiymatni qaytaradi; aks holda, <code>false</code> qaytaradi.	<code>variable1 < variable2</code>
<code>>=</code>	Chap tarafdagi qiymat o'ngdagi qiymatdan katta yoki teng bo'lsa, <code>true</code> qiymatni qaytaradi; aks holda, <code>false</code> qaytaradi.	<code>variable1 >= variable2</code>
<code><=</code>	Chap tarafdagi qiymat o'ngdagi qiymatdan kichik yoki teng bo'lsa, <code>true</code> qiymatni qaytaradi; aks holda, <code>false</code> qaytaradi.	<code>variable1 <= variable2</code>

```

let a = 5, b = 10, c = "5";
const z = a;

console.log(a == c); // true
console.log(a === c); // false
console.log(a == z); // true
console.log(a === z); // true
console.log(a != b); // true
console.log(a != z); // false
console.log(a > b); // false
console.log(a < b); // true
console.log(a >= b); // false
console.log(a <= b); // true










```

▼ Tayinlash (assignment) operatorlar



Javascript'dagi tayinlash operatorlaridan foydalanib o'zgaruvchilarga qisqartma ko'rinishida yangi qiymatlar tayinlash imkoniyati mavjud

Operatorlar

 Operator	 Tavsifi	 Misol
	Chap operandga o'ng operand qiymatini belgilaydi.	variable1 = variable2
	Chap va o'ng operand qiymatlarini umumlashtirib (qo'shib) va natijani chap operandga tayinlaydi.	variable1 += variable2
	Chap operand qiymatidan o'ng operand qiymatini olib tashlab va natijani chap operandga tayinlaydi.	variable1 -= variable2
	Chap va o'ng operand qiymatlarini ko'paytirib va natijani chap operandga tayinlaydi.	variable1 *= variable2
	Chap operand qiymatini o'ng operand qiymatiga bo'lib va natijani chap operandga tayinlaydi.	variable1 /= variable2
	Chap operand modulini o'ng operandga bo'linishini olib va qoldiqni chap operandga tayinlaydi.	variable1 %= variable2

```
let a = 5, b = 10, c = 15;

console.log(a); // 5
a = b;
console.log(a); // 10
a += b;
console.log(a); // 20
a -= b;
console.log(b); //10
c *= b;
console.log(c); // 150
c /= 5;
console.log(c); // 30
b %= 2;
console.log(b); // 0
```