Operator Precedence Values js

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

Postfix 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 ! Logical NOT !(x==y)

14 ~ Bitwise NOT ~x

Unary Operators

14 + Unary Plus +x

14 - Unary Minus -x

14 typeof Data Type typeof x

14 void Evaluate Void void(0)

14 delete Property Delete delete myCar.color

Arithmetic Operators

Exponentiations are executed before multiplications

Multiplications and divisions are executed before additions and subtractions

13 \*\* Exponentiation ES2016 10 \*\* 2

12 \* Multiplication 10 \* 5

12 / Division 10 / 5

12 % Division Remainder 10 % 5

11 + Addition 10 + 5

11 - Subtraction 10 - 5

11 + Concatenation "John" + "Doe"

Shift Operators

10 << Shift Left x << 2

10 >> Shift Right (signed) x >> 2

10 >>> Shift Right (unsigned) x >>> 2

Relational Operators

9 in Property in Object "PI" in Math

9 instanceof Instance of Object x instanceof Array

Comparison Operators

9 < Less than x < y

9 <= Less than or equal x <= y

9 > Greater than x > y

9 >= Greater than or equal x >= Array

8 == Equal x == y

8 === Strict equal x === y

8 != Unequal x != y

8 !== Strict unequal x !== y

Bitwise Operators

7 & Bitwise AND x & y

6 ^ Bitwise XOR x ^ y

5 | Bitwise OR x | y

Logical Operators

4 && Logical AND x && y

3 || Logical OR 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 >>>= Unsigned Right Shift 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

2 yield\* Delegate yield\* x

2 ... Spread ... x

1 , Comma x , y