

Arithmetic Operators

Operator Purpose
 + Addition
 - Subtraction
 * Multiplication
 / Division
 % Remainder

OPERATORS

Arithmetic Operators
 + Addition
 - Subtraction
 * Multiplication
 / Division
 % Remainder
 Note: Unlike the remainder operator in C and Objective-C, Swift's remainder operator can also operate on floating-point numbers (e.g. `8 % 2.5 // equals 0.5`)

Comparative Operators
 == Equal to
 === Identical to
 != Not equal to
 !== Not identical to
 ~= Pattern match
 > Greater than
 < Less than
 >= Greater than or equal to
 <= Less than or equal to

Assignment Operators
 = Assign
 += Addition
 -= Subtraction
 *= Multiplication
 /= Division
 %= Remainder
 &= Bitwise AND
 |= Bitwise Inclusive OR
 ^= Exclusive OR
 <<= Shift Left
 >>= Shift Right
 &&= Logical AND
 ||= Logical OR

OPERATORS (cont)

Increment and Decrement Operators
 ++ Addition
 -- Subtraction
 If the operator is written before the variable, it increments the variable before returning its value.
 If the operator is written after the variable, it increments the variable after returning its value.

Logical Operators
 ! NOT
 && Logical AND
 || Logical OR

Range Operators
 ..< Half-open range
 ... Closed range

Bitwise Operators
 & Bitwise AND
 | Bitwise Inclusive OR
 ^ Exclusive OR
 ~ Unary complement (bit inversion)

<< Shift Left
 >> Shift Right

Overflow and Underflow Operators
 Typically, assigning or incrementing an integer, float, or double past its range would result in a runtime error. However, if you'd instead prefer to safely truncate the number of available bits, you can opt-in to have the variable overflow or underflow using the following operators:
 Operator Purpose

OPERATORS (cont)

&+ Addition
 &- Subtraction
 &* Multiplication
 &/ Division
 &% Remainder
 Example for unsigned integers (works similarly for signed):
 var willOverflow = UInt8.max
 // willOverflow equals 255, which is the largest value a UInt8 can hold
 willOverflow = willOverflow &+ 1
 // willOverflow is now equal to 0
 var willUnderflow = UInt8.min
 // willUnderflow equals 0, which is the smallest value a UInt8 can hold
 willUnderflow = willUnderflow &- 1
 // willUnderflow is now equal to 255
 Another example to show how you can prevent dividing by zero from resulting in infinity:
 let x = 1
 let y = x &/ 0
 // y is equal to 0
 Other Operators
 ?? Nil coalescing
 ?: Ternary conditional
 ! Force unwrap object value
 ? Safely unwrap object value

Comparative Operators

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 === Identical to
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Assignment Operators

Operator Purpose
 = Assign
 += Addition
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 /= Division
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 &= Bitwise AND
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Bitwise Operators

Operator Purpose
 & Bitwise AND
 | Bitwise Inclusive OR
 ^ Exclusive OR
 ~ Unary complement (bit inversion)
 << Shift Left
 >> Shift Right



Increment and Decrement Operators

Operator Purpose

++ Addition

-- Subtraction

-If the operator is written before the variable, it increments the variable before returning its value.

-If the operator is written after the variable, it increments the variable after returning its value.

Logical Operators

Operator Purpose

! NOT

&& Logical AND

|| Logical OR

Range Operators

Operator Purpose

..

... Closed range



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