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The Java™ Tutorials

Trail: Learning the Java Language

Lesson: Language Basics

Section: Operators

Summary of Operators

The following quick reference summarizes the operators supported by the Java programming language.

Simple Assignment Operator

`=` Simple assignment operator

Arithmetic Operators

`+` Additive operator (also used for String concatenation)
`-` Subtraction operator
`*` Multiplication operator
`/` Division operator
`%` Remainder operator

Unary Operators

`+` Unary plus operator; indicates positive value (numbers are positive without this, however)
`-` Unary minus operator; negates an expression
`++` Increment operator; increments a value by 1
`--` Decrement operator; decrements a value by 1
`!` Logical complement operator; inverts the value of a boolean

Equality and Relational Operators

`==` Equal to
`!=` Not equal to
`>` Greater than
`>=` Greater than or equal to
`<` Less than
`<=` Less than or equal to

Conditional Operators

`&&` Conditional-AND
`||` Conditional-OR
`?:` Ternary (shorthand for if-then-else statement)

Type Comparison Operator

<code>instanceof</code>	Compares an object to a specified type
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Bitwise and Bit Shift Operators

<code>~</code>	Unary bitwise complement
<code><<</code>	Signed left shift
<code>>></code>	Signed right shift
<code>>>></code>	Unsigned right shift
<code>&</code>	Bitwise AND
<code>^</code>	Bitwise exclusive OR
<code> </code>	Bitwise inclusive OR

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