

# 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

InstanceOf        Compares an object to a specified type

## Bitwise and Bit Shift Operators

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