

# Python Operators - Arithmetic

Operator	Name
+	Addition
-	Subtraction
*	Multiplication
/	Division
%	Modulus
**	Exponentiation
//	Floor division

# Python Operators - Assignment

Operator	Example	Same As
=	a = 3	a = 3
+=	a += 3	a = a + 3
-=	a -= 3	a = a - 3
*=	a *= 3	a = a * 3
/=	a /= 3	a = a / 3

# Python Operators - Comparison

Operator	Name	Example
<code>==</code>	Equal	<code>x == y</code>
<code>!=</code>	Not equal	<code>x != y</code>
<code>&gt;</code>	Greater than	<code>x &gt; y</code>
<code>&lt;</code>	Less than	<code>x &lt; y</code>
<code>&gt;=</code>	Greater than or equal to	<code>x &gt;= y</code>
<code>&lt;=</code>	Less than or equal to	<code>x &lt;= y</code>

# Python Operators - Logical

Operator	Description	Example
and	Returns True if both statements are true	<code>x &lt; 5 and x &lt; 10</code>
or	Returns True if one of the statements is true	<code>x &lt; 5 or x &lt; 4</code>
not	Reverse the result, returns False if the result is true	<code>not(x &lt; 5 and x &lt; 10)</code>

# Python Operators - Identity

Operator	Description	Example
is	Returns true if both variables are the same object	x is y
is not	Returns true if both variables are not the same object	x is not y

# Python Operators - Membership

Operator	Description	Example
in	Returns True if a sequence with the specified value is present in the object	x in y
not in	Returns True if a sequence with the specified value is not present in the object	x not in y

# Python Operators - Bitwise

Operator	Name	Description
&	AND	Sets each bit to 1 if both bits are 1
	OR	Sets each bit to 1 if one of two bits is 1
~	NOT	Inverts all the bits