

C++ Operator Precedence

Operator	Associativity	Overloadable	Arity	Description
::	right	no	unary	global scope
::	left	no	binary	class scope
.	left	no	binary	direct member selection
->	left	yes	binary	indirect member selection
[]	left	yes	binary	subscript (array index)
()	left	yes	n/a	function call
()	left	yes	n/a	type construction
sizeof	right	n/a	unary	size in bytes of object or type
++ --	right	yes	unary	increment, decrement
!	right	yes	unary	logical NOT
+ -	right	yes	unary	plus, minus signs
*	right	yes	unary	pointer dereferencing
&	right	yes	unary	get address of an object
new	right	yes	unary	memory allocation
delete	right	yes	unary	memory deallocation
()	right	yes	binary	type conversion (cast)
* / %	left	yes	binary	multiplication, division, modulus
+ -	left	yes	binary	addition, subtraction
<< >>	left	yes	binary	bit-shift left, right
< <= > >=	left	yes	binary	comparison
== !=	left	yes	binary	equality, inequality
&	left	yes	binary	bitwise AND
^	left	yes	binary	bitwise XOR
	left	yes	binary	bitwise OR
&&	left	yes	binary	logical AND
	left	yes	binary	logical OR
?:	right	no	ternary	conditional expression
= += -=	right	yes	binary	assignment variations
*= /= %=				
&= = ^=				
throw	right	yes	binary	throw an exception
,	left	yes	binary	expression separation