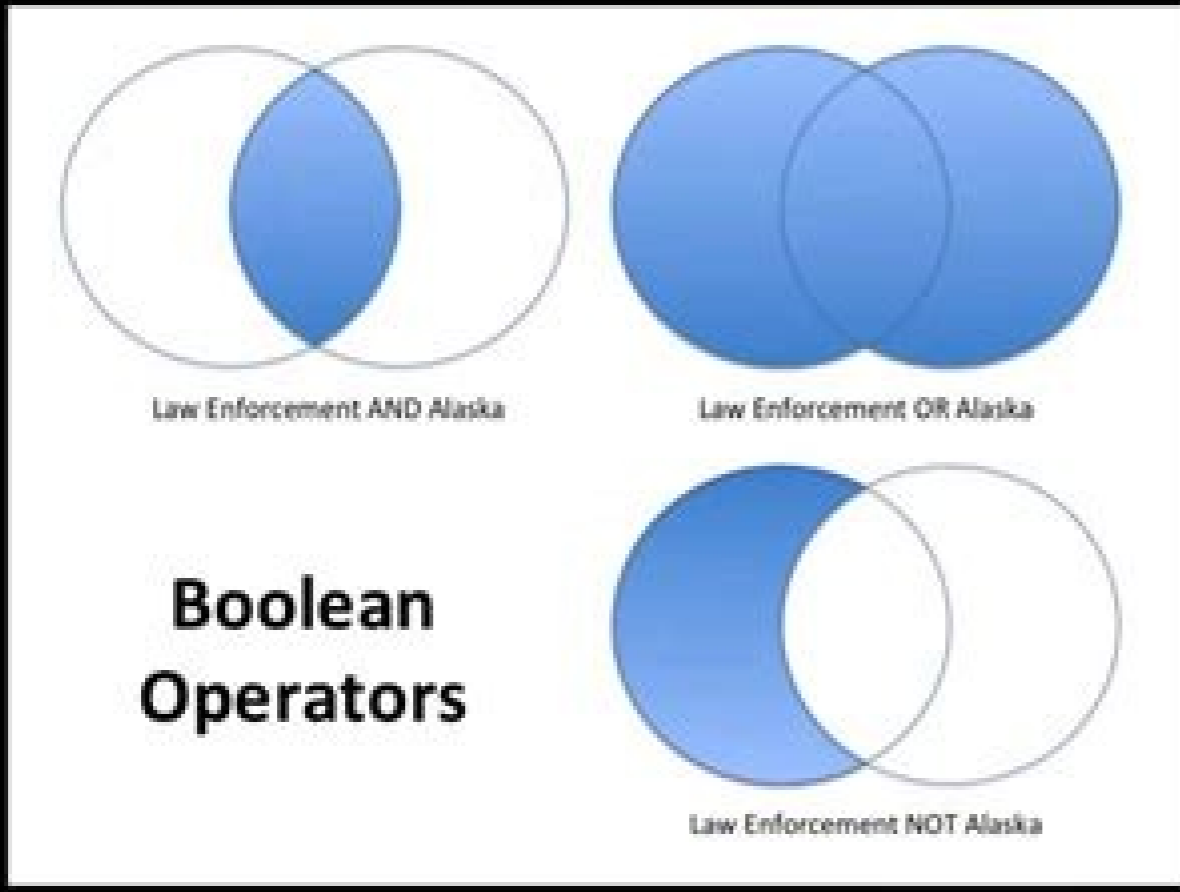
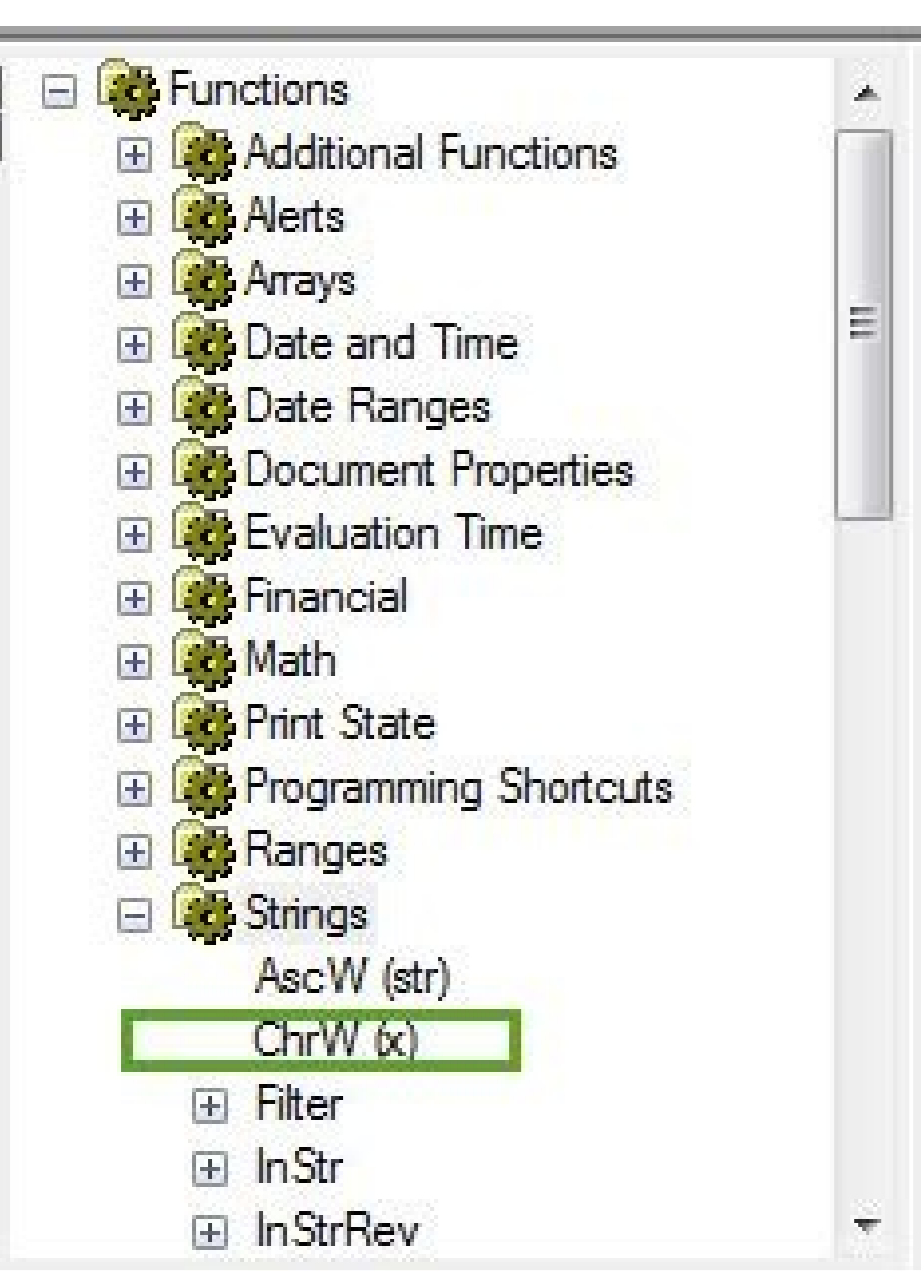


I'm not robot!



Boolean Operator && AND

P	Q	P && Q
False	False	False
False	True	False
True	False	False
True	True	True





Crystal supports a number of operators, with one, two or three operands. Operator expressions are actually parsed as method calls. For example `a + b` is semantically equivalent to `a.(+)(b)`, a call to method `+` on `a` with argument `b`. There are however some special rules regarding operator syntax: The dot `.` usually put between receiver and method name (i.e. the operator) can be omitted. Chained sequences of operator calls are restructured by the compiler in order to implement operator precedence. Enforcing operator precedence makes sure that an expression such as `1 * 2 + 3 * 4` is parsed as `(1 * 2) + (2 * 3)` to honour regular math rules. Regular method names must start with a letter or underscore, but operators only consist of special characters. Any method not starting with a letter or underscore is an operator method. Available operators are whitelisted in the compiler (see List of Operators below) which allows symbol-only method names and treats them as operators, including their precedence rules. Operators are implemented like any regular method, and the standard library offers many implementations, for example for math expressions. Defining operator methods¶ Most operators can be implemented as regular methods. One can assign any meaning to the operators, but it is advisable to stay within similar semantics to the generic operator meaning to avoid cryptic code that is confusing and behaves unexpectedly. A few operators are defined directly by the compiler and cannot be redefined in user code. Examples for this are the inversion operator `!`, the assignment operator `=`, combined assignment operators such as `||=` and range operators. Whether a method can be redefined is indicated by the column `Overloadable` in the below operator tables. Unary operators¶ Unary operators are written in prefix notation and have only a single operand. Thus, a method implementation receives no arguments and only operates on self. The following example demonstrates the `Vector2` type as a two-dimensional vector with a unary operator `method -` for vector inversion. `struct Vector2 getter x, y def initialize(@x : Int32, @y : Int32) end # Unary operator. Returns the inverted vector to 'self'. def - : self Vector2.new(x, y) end end v1 = Vector2.new(1, 2) -v1 #=> Vector2(@x=-1, @y=-2) Binary operators¶ Binary operators have two operands. Thus, a method implementation receives exactly one argument representing the second operand. The first operand is the receiver self. The following example demonstrates the Vector2 type as a two-dimensional vector with a binary operator method + for vector addition. struct Vector2 getter x, y def initialize(@x : Int32, @y : Int32) end # Binary operator. Returns *other* added to 'self'. def +(other : self) : self Vector2.new(x + other.x, y + other.y) end end v1 = Vector2.new(1, 2) v2 = Vector2.new(3, 4) v1 + v2 #=> Vector2(@x=4, @y=6) Per convention, the return type of a binary operator should be the type of the first operand (the receiver), so that typeof(a b) == typeof(a). Otherwise the assignment operator (a = b) would unintentionally change the type of a. There can be reasonable exceptions though. For example in the standard library the float division operator / on integer types always returns Float64, because the quotient must not be limited to the value range of integers. Ternary operators¶ The conditional operator (? :) is the only ternary operator. It not parsed as a method, and its meaning cannot be changed. The compiler transforms it to an if expression. Operator Precedence¶ This list is sorted by precedence, so upper entries bind stronger than lower ones. Category Operators Index accessors [] []? Unary +, &+, -, !, ~ Exponential **, &** Multiplicative *, &*, /, //, % Additive +, &+, -, &- Shift Binary AND & Binary OR/XOR |, ^ Equality ==, !=, ~, !~, === Comparison ==, Logical AND && Logical OR || Range .., ... Conditional ? Assignment =, ||=, +=, &+=, -=, &-=, *=, &*=, /=, //=, %=, |=, &|=, ~|=, **|=, ..|=, ||=, &&= Splat *, ** List of operators¶ Arithmetic operators¶ Unary¶ Operator Description Example Overloadable Associativity + positive +1 yes right &+ wrapping positive &+1 yes right - negative -1 yes right &- wrapping negative &-1 yes right Multiplicative¶ Operator Description Example Overloadable Associativity ** exponentiation 1**2 yes right &** wrapping exponentiation 1 &** 2 yes right * multiplication 1 * 2 yes left &* wrapping multiplication 1 &* 2 yes left / division 1 / 2 yes left // floor division 1 // 2 yes left % modulus 1 % 2 yes left Additive¶ Operator Description Example Overloadable Associativity + addition 1 + 2 yes left &+ wrapping addition 1 &+ 2 yes left - subtraction 1 - 2 yes left &- wrapping subtraction 1 &- 2 yes left Other unary operators¶ Operator Description Example Overloadable Associativity ! inversion !true no right ~ binary complement ~1 yes right Shifts¶ Operator Description Example Overloadable Associativity & binary AND 1 & 2 yes left | binary OR 1 | 2 yes left ^ binary XOR 1 ^ 2 yes left Equality and Comparison¶ Equality¶ Three base operators test equality: ==: Checks whether the values of the operands are equal ==: Checks whether the value of the first operand matches the value of the second operand with pattern matching. ===: Checks whether the left hand operand matches the right hand operand in case equality. This operator is applied in case ... when conditions. The first two operators also have inversion operators != and !~ whose semantical intention is just the inverse of the base operator: a != b is supposed to be equivalent to !(a == b) and a !~ b to !(a =~ b). Nevertheless, these inversions can be defined with a custom implementation. This can be useful for example to improve performance (non-equality can often be proven faster than equality). Operator Description Example Overloadable Associativity == equals 1 == 2 yes left != not equals 1 != 2 yes left ==~ pattern match "foo" =~ /foo/ yes left !~ no pattern match "foo" !~ /foo/ yes left === case equality /foo/ === "foo" yes left Comparison¶ Operator Description Example Overloadable Associativity < less 1 < 2 yes left > greater or equal 1 >= 2 yes left > greater or equal 1 >= 2 yes left Chaining Equality and Comparison¶ Equality and comparison operators ==, !=, ===, ==~, !~ can be chained together and are interpreted as a compound expression. For example a == b && c == d is equivalent to (a == b) && (c == d).`



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