



 The Boolean type has two values, false and true, which represent the traditional Boolean values.



- Lua supports a conventional set of logical operators: and, or, and not
 - O The result of the **and** operator is its first operand if that operand is false; otherwise, the result is its second operand.
 - O The result of the **or** operator is its first operand if it is not false; otherwise, the result is its second operand.



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- \odot A useful Lua idiom is x = x or v, which is equivalent to if not x then x = v end
- O Another useful idiom is (a and b or c).
 It is equivalent to the C expression a ? b : c

For instance, we can select the maximum of two numbers x and y with the expression (x > y) and x or y. When x > y, the first expression of the **and** is true, so the **and** results in its second operand (x), which is always true (because it is a number), and then the **or** expression results in the value of its first operand, x. When x > y is false, the **and** expression is false and so the **or** results in its second operand, y.



The not operator always gives a Boolean value: