

# Operations on bool

These are the Boolean operations, ordered by ascending priority:

Operation	Result	Notes
<code>x or y</code>	if <code>x</code> is false, then <code>y</code> , else <code>x</code>	(1)
<code>x and y</code>	if <code>x</code> is false, then <code>x</code> , else <code>y</code>	(2)
<code>not x</code>	if <code>x</code> is false, then <code>True</code> , else <code>False</code>	(3)

Notes:

1. This is a short-circuit operator, so it only evaluates the second argument if the first one is `False`.
2. This is a short-circuit operator, so it only evaluates the second argument if the first one is `True`.
3. `not` has a lower priority than non-Boolean operators, so `not a == b` is interpreted as `not (a == b)`, and `a == not b` is a syntax error.

```
if x == y and a >= b and e < f:  
    print( 'Gotcha' )  
else:  
    print( 'Not you' )
```