Order of Operations (for Logical Operators)

Just like how math operators (*, /, +, -) have an order that they are evaluated in, ie. multiplication is evaluated before addition, so do logical operators!

The ! operator will be evaluated first, then &&, and finally | |. If you have a bunch of the same operations in an expression, like multiple | | combinations, then you just operate from left to right.

To *change the order of operations* you can surround expressions in parentheses because **parentheses will be evaluated before anything else**.

So, the order of operations is:

- 1. Parentheses
- 2. NOT!
- 3. AND &&
- 4. OR | |

For the expression:

```
!true || false && true
```

This will have the NOT! operator evaluated first, so this simplifies to:

```
false || false && true
```

Then the AND && operator will be evaluated. The combination false && true equals false, and the whole expression becomes:

false || false

Finally the OR | | operator will be evaluated, and the whole expression evaluates to false.