

INTRODUCTION TO *JAVASCRIPT* LOGICALS

LOGICALS AND IF STATEMENTS

As a brief reminder, an IF statement is a simple piece of code that checks if a condition is TRUE or FALSE. The code inside the IF statement is only run if the condition is TRUE. Here is an example in JavaScript:

```
if (condition) {  
    statement;  
}
```

The condition of an IF statement is normally comprised of some combination of comparisons (<, >) and equalities (==, !=). However, we can also use logicals (&&, ||) to combine multiple comparisons and equalities in the condition. Here are two of the most common logicals:

AND

`condition1 = (condition2) && (condition3)`

`condition1` is true if and only if both `condition2` and `condition3` are true. If either of `condition2` and `condition3` are false, then `condition1` will also be false.

OR

`condition1 = (condition2) || (condition3)`

condition1 is true if and only if at least one of condition2 and condition3 are true. If both condition2 and condition3 are false, then condition1 will also be false.

If you only want your code to run if variable1 and Variable2 are equal OR variable2 and Variable3 are equal, you might use an IF statement like so:

```
if ((variable1 == Variable2) || (variable2 == Variable3)) {  
    statement;  
}
```

If you only want your code to run if variable1 is less than Variable2 AND variable2 is less than Variable3, you might use an IF statement like so:

```
if ((variable1 < Variable2) && (variable2 < Variable3)) {  
    statement;  
}
```

If you want to read about JavaScript logicals in more detail, check out these resources created by Mozilla:

- [Logical AND](#)
- [Logical OR](#)