

INTRODUCTION TO *JAVASCRIPT* CODE

IF ELSE STATEMENTS

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. This is what a basic IF statement looks like in JavaScript:

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

If you have a particular piece of code that you want to only run if the condition is false, then you can add an ELSE statement onto the end of the IF statement, like so:

```
if (condition) {  
    statement1;  
} else {  
    statement2;  
}
```

The condition of an IF ELSE statement is normally comprised of some combination of comparisons (<, >), equalities (==, !=) and logicals (&&, ||). Here are four of the most common comparisons and two of the most common logicals:

Less than

condition = (A < B)

condition is true if the value of A is less than the value of B, and false in all other situations.

Greater than

condition = (A > B)

condition is true if the value of A is greater than the value of B, and false in all other situations.

Equal to

condition = (A == B)

condition is true if the value of A is equal to the value of B, and false in all other situations.

Not equal to

condition = (A != B)

condition is true if the value of A is not equal to the value of B, and false in all other situations.

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 is greater than Variable2, you might use an IF statement like so:

```
if (variable1 > Variable2) {  
    statement;  
}
```

If you only want your code to run if variable1 is less than Variable2 AND variable2 is not equal to Variable3, you might use an IF statement like so:

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

If you want to read about JavaScript IF ELSE statements in more detail, check out this resource created by Mozilla:

- [if...else](#)

Or check any of these resources to read more about comparisons, equalities and logicals:

- [Less than](#)
- [Greater than](#)
- [Equality](#)
- [Inequality](#)
- [Logical AND](#)
- [Logical OR](#)