

PROCESSING CHEAT SHEET

Conditional Test Statements

If Statement

An if statement is really used to test a condition and then execute the a piece of code if the condition is true.

```
If (test case to true) then
{
    then execute this
}
or do nothing at all and continue
```

for example:

```
int value = random(5);
if (value < 2) {
    myAlpha = 50;
}
```

If Else Statement

An If Else statement makes sure that there is something to execute even if the condition is false. It gives options are true and false.

Here it is in psuedo code:

```
if (room temperature is less than the thermostat dial setting) then
    turn the heater on.
else
    turn the heater off.
```

for example:

```
int value = random(5);
if (value < 2{
    myAlpha = 50;
} else {
    myAlpha = 100;
}
```

Nested If Statement

Sometime a condition can have more than one true or false comparison. This is called a nested if statement.

Here is some psuedo code:

```
if (it's Friday night and money in my wallet is greater than R50) then
    if (there's a good movie on at the local Cinema) then
        Go see the movie.
    else
        Go dancing in a club.
else
    Stay at home.
```

for example:

```
int value = random(5);
if (value < 2 && myAlpha > 50) {
    if (color != black){
        my Alpha = 0;
    } else {
        myAlpha = 50;
    } else {
        myAlpha = 100
    }
}
```

Logical Operators

Along with relational operators, case statements with more than one condition will also use Logical Operators

Operator	Meaning
! or !=	logical NOT
&&	logical AND
	logical OR