## P5.js CHEAT SHEET Conditional & Test Statements



## If Statement

If (test case to true) then

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

```
{
   then execute this
}
--> if not then do nothing at all and continue.
for example:
value = random(5);
if (value < 2) {
   myAlpha = 50;</pre>
```

## If Else Statement

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

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

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

## Nested If Statement

Stay at home.

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

```
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
```

```
for example:
value = random(5):
if (value < 2 && myAlpha > 50) {
   if (color != black){
   my Alpha = 0;
   } else {
   myAlpha = 50;
} else {
  myAlpha = 100
Else If Else vs Switch Statements
Else If Else can be use full when you want to test anouther condition against a false
outcome. But you should carefull as they can be tedious if not used properly.
In the case below a Switch statement can be put to better use here.
if (keyPressed == true && key == 's') {
  saveFrame("yourName.jpg");
} else if (keyPressed == true && key == 'r') {
  background(255);
} else if (keyPressed == true && key == 'q') {
  exit():
        This switch statement is wrapped in an If statement.
if (keyPressed == true) {
                                            Any changble variable
  switch( key ) {
   case 's':
                                            can be passed to switch.
     saveFrame("yourName.jpg");
     break:
                                            In this case it check for
    case 'r':
                                            matching values for "key".
     background(255);
     break;
    case 'q':
     exit():
     break;
   default:
     println("Unknown key command: ", key);
  } // end switch
```