

Loops

A loop continues executing code until a conditional expression is false

While

This is the simplest kind of loop

```
var num = 0;

while (num < 3)
{
    // execute some code

    num++;
}
```

This loop will run three times, until num becomes 3

For

The for loop is used often and contains the initialization, condition and increment sections within the parenthesis

Here is the same loop as above using for

```
for (var num = 0; num < 3; num++)
{
    // execute some code
}
```

The structure of the loop is as follows

```
for (initialization; conditional expression; post operation)
{
}
```

Initialization

This part executes once at the beginning, and gives a chance to initialize variables

Conditional Expression

This part is checked after the body of the loop executes, and **after** the post operation.

Post operation

This part executes after the loop has finished executing, and happens before the conditional expression is checked.