Loops

WEB PROGRAMMING FUNDAMENTALS web design and development full sail university





Types of Code

- SEQUENTIAL
 - a series of instructions
- CONDITIONAL
 - when decisions need to be made
- REPETITIVE
 - when you need to do it more than once
- REUSABLE
 - when you need to be able to do it again, without writing it again.





- A loop is a tool used to execute a segment of code repeatedly for a specific number of times or while a certain condition is satisfied.
- Using a loop saves time and effort as the same code will not have to be typed multiple times for it to be executed repeatedly.



While Loop

```
var i:uint = 0;
while(i<10)
{
    doSomething(i);
    i++;
}</pre>
```

- condition is evaluated to be boolean
- when condition is changed to be false, loop ceases.



For Loop

```
for( var i:int = 0; i < 10); i++)
{
    doSomething(i);
}</pre>
```

- Initialize your variable
- Loop while this condition is true
- Increment after each iteration
- Code to execute



When To Use

- for
 - Workhorse, usually the for loop can do it, but you have to know how many times it will run.
- while
 - If you don't know how many times it is going to loop.
- for each
 - When looping over an array or object.