# Python While Loops

## Python Loops

Python has two primitive loop commands:

* while loops
* for loops

## The while Loop

With the while loop we can execute a set of statements as long as a condition is true.

### Example

Print i as long as i is less than 6:

i = 1  
while i < 6:  
  print(i)  
  i += 1

****Note:**** remember to increment i, or else the loop will continue forever.

The while loop requires relevant variables to be ready, in this example we need to define an indexing variable, i, which we set to 1.

## The break Statement

With the break statement we can stop the loop even if the while condition is true:

### Example

Exit the loop when i is 3:

i = 1  
while i < 6:  
  print(i)  
  if i == 3:  
    break  
  i += 1

## The continue Statement

With the continue statement we can stop the current iteration, and continue with the next:

### Example

Continue to the next iteration if i is 3:

i = 0  
while i < 6:  
  i += 1  
  if i == 3:  
    continue  
  print(i)

## The else Statement

With the else statement we can run a block of code once when the condition no longer is true:

### Example

Print a message once the condition is false:

i = 1  
while i < 6:  
  print(i)  
  i += 1  
else:  
  print("i is no longer less than 6")