

# Breaking Out of Loops

## Breaking Out of Loops

Sometimes you want to exit a loop before it's finished, or skip the remainder of a loop and move to the next iteration. To do this you can use the **break** and **continue** statements respectively.

### **break**

As a first example, consider:

```
[1]: for i in range(10):  
      print(i)  
  
      if i == 5:  
          break
```

```
0  
1  
2  
3  
4  
5
```

where you can see that the loop terminated before it was finished iterating through **range(10)**. The **break** may be inside the **if** statement, but it's the loop that it affects.

The **break** statement exits the first loop that it's nested in. For example, if we had multiple nested loops:

```
[5]: for i in range(3):  
      print('Loop1', i)  
      for j in range(3):  
          print('    Loop2', j)  
  
          if j == 1:  
              break
```

```
Loop1 0  
    Loop2 0  
    Loop2 1  
Loop1 1
```

```
    Loop2 0
    Loop2 1
Loop1 2
    Loop2 0
    Loop2 1
```

We can see that the outer loop (Loop1) iterated through all of `range(3)`, while Loop2 terminates before it can reach the last iteration.

### **continue**

If you want to end the current loop iteration, but you don't want to break out of the loop, you can use the `continue` statement.

```
[9]: for i in range(10):
      if i == 5:
          continue
      print(i)
```

```
0
1
2
3
4
6
7
8
9
```

As you can see in the example above, 5 is not printed.