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Loops Cheat Sheet

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Check out below for a run down of the syntax for while loops and for loops.

While Loops

A while loop executes the body of the loop while the condition remains True.

Syntax:

```
1    while condition:
2        body
```

Things to watch out for!

- **Failure to initialize variables.** Make sure all the variables used in the loop's condition are initialized before the loop.
- **Unintended infinite loops.** Make sure that the body of the loop modifies the variables used in the condition, so that the loop will eventually end **for all possible values of the variables.**

 Typical use:

While loops are mostly used when there's an unknown number of operations to be performed, and a condition needs to be checked at each iteration.

For Loops

A for loop iterates over a sequence of elements, executing the body of the loop for each element in the sequence.

Syntax:

```
1    for variable in sequence
2        body
```