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Python While Loops

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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
```

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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
```

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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:



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```
while i < 6:
```

```
    i += 1
```

```
    if i == 3:
```

```
        continue
```

```
    print(i)
```

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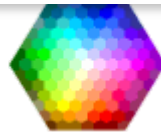
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