## 2\_operators

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## 1 Operators and comparisons

Most operators and comparisons in Python work as one would expect:

• Arithmetic operators +, -, \*, /, // (integer division), '\*\*' power

```
[2]: 1 + 2, 1 - 2, 1 * 2, 2 / 2
```

[2]: (3, -1, 2, 1.0)

[3]: (3.0, -1.0, 2.0, 0.5)

```
[4]: # Integer division of float numbers
3.0 // 2.0
```

[4]: 1.0

```
[5]: # Note! The power operators in python isn't ^, but ** 2 ** 3
```

[5]: 8

Note: Division

The / operator always performs a floating point division in Python 3.x. This is not true in Python 2.x, where the result of / is always an integer if the operands are integers. To be more specific, 1/2 = 0.5 (float) in Python 3.x, and 1/2 = 0 (int) in Python 2.x (but 1.0/2 = 0.5 in Python 2.x).

The boolean operators are spelled out as the words and, not, or.

```
[6]: True and False
```

[6]: False

```
[7]: not False
```

[7]: True

[17]: True