

Python Cheat Sheet - Operators

Code Club South Africa

Arithmetic Operators (Maths)

Name	Operator	Example	Notes
Addition	+	$5 + 5 = 10$	Simple addition (Plus)
Subtraction	-	$5 - 2 = 3$	Simple subtraction (Minus)
Multiplication	*	$5 * 10 = 50$	Simple multiplication (Times)
Division	/	$6 / 3 = 2$	Simple division (divide)
Exponentiation	**	$5 ** 3 = 125$	Same as $5*5*5$

Comparison Operators (Comparing two sides, Boolean output)

Name	Operator	Example
Equal	==	$1 == 1$ is True $1 == 2$ is False
Not Equal	!=	$1 != 1$ is False $1 != 2$ is True
Greater Than	>	$5 > 1$ is True $5 > 5$ is False
Lesser Than	<	$5 < 1$ is False $1 < 5$ is True
Greater Than or Equal to	>=	$10 >= 10$ is True $5 >= 10$ is False
Lesser Than or Equal to	<=	$5 <= 10$ is True $11 <= 10$ is False

Logical Operators (Comparing more than one boolean, same as Scratch)

Name	Operator	Example	Notes
And	and	$10 > 5$ and $5 > 2$ is True $6 < 5$ and $5 > 2$ is False	Both sides must be true for the output to be true.
Or	or	$2 > 5$ or $5 == 2$ is False $6 < 5$ or $5 > 2$ is True	Only 1 side must be true for the output to be true.
Not	not	$\text{not}(10 > 5 \text{ and } 5 > 2)$ is False $\text{not}(6 < 5 \text{ and } 5 > 2)$ is True	Returns the opposite of whatever the result was.

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