

Python Operators Cheat Sheet

Arithmetic Operators

Operator	Description	Example	Result
+	Addition	3 + 2	5
-	Subtraction	3 - 2	1
*	Multiplication	3 * 2	6
/	Division (float)	3 / 2	1.5
//	Floor Division	3 // 2	1
%	Modulus (remainder)	3 % 2	1
**	Exponentiation	2 ** 3	8

Comparison (Relational) Operators

Operator	Description	Example	Result
==	Equal to	3 == 3	True
!=	Not equal to	3 != 4	True
>	Greater than	5 > 3	True
<	Less than	3 < 5	True
>=	Greater than or equal to	3 >= 3	True
<=	Less than or equal to	2 <= 3	True

Logical Operators

Operator	Description	Example	Result
and	Logical AND	True and False	False
or	Logical OR	True or False	True
not	Logical NOT	not True	False

Assignment Operators

Operator	Description	Example	Equivalent To
=	Assign value	x = 5	
+=	Add and assign	x += 2	x = x + 2
-=	Subtract and assign	x -= 2	x = x - 2
*=	Multiply and assign	x *= 2	x = x * 2
/=	Divide and assign	x /= 2	x = x / 2
//=	Floor divide and assign	x //= 2	x = x // 2
%=	Modulus and assign	x %= 2	x = x % 2
**=	Exponent and assign	x **= 2	x = x ** 2

Membership Operators

Operator	Description	Example	Result
in	Value exists in container	'a' in 'cat'	True
not in	Value does not exist	'z' not in 'cat'	True

Identity Operators

Operator	Description	Example	Result
is	Same object in memory	x is y	True/False
is not	Different objects	x is not y	True/False