Cheatography

Python Operators and Booleans Cheat Sheet by Nouha_Thabet via cheatography.com/103894/cs/21322/

Python Arithmetic Operators			
Addition	9 + 2	>> 11	
Subtraction	9 - 2	>> 7	
Multiplication	9 * 2	>> 18	
Division	9 / 2	>> 4.5	
Modulus	9 % 2	>> 1	
Exponentiation	3 ** 2	>> 81	
Floor division	9 // 2	>> 4	

Python Assignment Operators		
Operator	Example	Same As
=	x = 2	x = 2
+=	x += 2	x = x + 2
-=	x -= 2	x = x - 2
*=	x *= 2	x = x * 2
/=	x /= 2	x = x / 2
%=	x %= 2	x = x % 2
//=	x //= 2	x = x // 2
**=	x **= 2	x = x ** 2

Python Comparison Operators		
Equal	х == у	
Not equal	x != y	
Greater than	х > у	
Less than	х < у	
Greater than or equal to	x >= y	
Less than or equal to	x <= y	

Boolean Values

In programming you often need to know if an expression is True or False. You can evaluate any expression in

You can evaluate any expression in Python, and get the answer.

print(5	<	8)	>>>	True
print(5	>	8)	>>>	False

Python Logical Operators

and Returns True if both statements are true

x < 5 and x < 10

or Returns True if one of the statements is true

x < 5 or x < 4

not Reverse the result, returns False if the result is true

not(x < 5 and x < 10)

Python Identity Operators

is Returns true if both variables are the same object

x is y

is Returns true if both variables are not not the same object

x is not y

Python Membership Operators

in Returns True if a sequence with the specified value is present in the object

x in y

not Returns True if a sequence with the in specified value is not present in the object

x not in y

Python Bitwise Operators		
&	AND	Sets each bit to 1 if both bits are 1
	OR	Sets each bit to 1 if one of two bits is 1
^	XOR	Sets each bit to 1 if only one of two bits is 1
~	NOT	Inverts all the bits
<<	Zero fill left shift	Shift left by pushing zeros in from the right and let the leftmost bits fall off
>>	Signed right shift	Shift right by pushing copies of the leftmost bit in from the left, and let the rightmost bits fall off



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