## 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



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#### **Boolean Values**

In programming you often need to know if			
an expression is True or False.			
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 <	$\overline{b}$ 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

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### Python Membership Operators

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