Operator Cheat Sheet

Numeric Operators

Operator	Operand 1 type	Operand 2 type	Return type	Examples
+ (addition)	int/float	int/float	int/float	4 + 7 (11), 2 + 3.5 (5.5)
- (subtraction)	int/float	int/float	int/float	12 - 15 (-3), 4 - 8.0 (-4.0)
* (multiplication)	int/float	int/float	int/float	5 * 8 (40), 3.5 * 2 (7.0)
/ (integer division)	int	int	int	12 / 4 (3), 8 / 9 (0)
/ (division) (at least one operand must be a float)	int/float	int/float	float	1 / 2.0 (0.5), 2.0 / 8 (0.25)
% (modulo)	int	int	int	100 % 9 (1), 2 % 5 (2)
** (exponentiation)	int/float	int/float	int/float	2 ** 3 (8), 4 ** 0.5 (2)

Comparison Operators

Operator	Operand 1 type	Operand 2 type	Return type	Examples
< (less than)	int/float	int/float	boolean	4 < 5 (True), -5.2 < -7.5 (False)
> (greater than)	int/float	int/float	boolean	4 > 5 (False), -5.2 > -7.5 (True)
<= (less or equal)	int/float	int/float	boolean	12 <= 12 (True), 18 <= 0 (False)
>= (greater or equal)	int/float	int/float	boolean	0 >= 0 (True), 18 >= 0 (True)

Equality Operators

Operator	Operand 1 type	Operand 2 type	Return type	Examples
== (equal)	anything	anything	boolean	5 == 5 (True), "sdf" == "s df" (False)
!= (not equal)	anything	anything	boolean	5 != "5" (True), "sdf" != "sdf" (False)

Logical Operators

Operator	Operand 1 type	Operand 2 type	Return type	Examples
and	boolean	boolean	boolean	True and True (true)
or	boolean	boolean	boolean	True or False (true)
not	boolean		boolean	not True (false)