



Value

Type

3

int

"3"

str

3.0

float

int + int → addition

str + str → concatenation
long str

1.23

Cast a value to a type

int(3.7) → 3

float("13") → 13.0

str(1.00100) → "1.001"

Operators

$$+ \quad 2+3 \rightarrow 5$$

$$2.0+3.0 \rightarrow 5.0$$

$$- \quad 2-3 \rightarrow -1$$

$$2.0-3 \rightarrow -1.0$$

$$* \quad 2*3 \rightarrow 6$$

$$/ \quad 2/3 \rightarrow 0.66666666\dots$$

$$4/2 \rightarrow 2.0$$

$\%$ mod
remainder $18 \% 7 \rightarrow 4$

$2^{**}0.5$

$2^{**}(1/2)$

$**$ exponent

$$2^{**}3 \rightarrow 2^3 \rightarrow 8$$

$//$ div
no remainder

$$18 // 7 \rightarrow 2$$

Variables is like a box

$$x = 3$$

$$y = x + 1$$

$$y = y + 1$$

$$x = "hi"$$