



value

Type

3

int

'3'

str

3.0

float

↖ 16 quantition

123 = 123.0

1.23

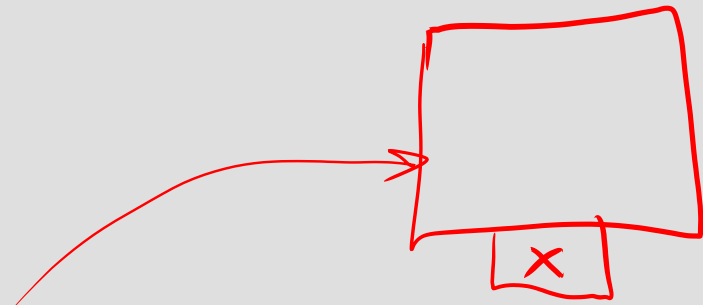
type Cast

int("30") → 30

str(3.1400) → "3.14"

float(23) → 23.0

Variable



$x =$ _____

$$x = 0.1$$

$$y = x$$

$$x = y + x$$

$$y = "h_i"$$

"h" + "i"

"x" * 3

Operators

+
-

$1 + 2 \rightarrow 3$

$1.5 + 2.5 \rightarrow 4.0$

* times

/ divide

$1 / 2 \rightarrow 0.5$

$4 / 2 \rightarrow 2.0$

% mod
remainder

$18 \% 7 \rightarrow 4$

** exponent

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

// divide drop
remainder

$18 // 7 \rightarrow 2$

Value

Type kind of thing str
 int
 float type(3/2)

Variable name ~ box to store (value, type) pairs

Operator changes values (combines math, ...)

Expression → bit of code that results in value
 3 3+4 int(str(x) * 4)