

Operators

+ operands
↓ ↓
x + y infix

Arithmetic

⇒ + - * /

↑ operator

↑ if both operands are int it does an integer divide

$$2 / 3 \Rightarrow 0$$

$$2 / 3. \Rightarrow .6666666 \dots$$

⇒ % remainder after integer divide

$$2 \% 3 \Rightarrow 2$$

$$8 \% 3 \Rightarrow 2$$

+ (unary plus)
- (unary minus)

+2

-2

-(x+y) returns negative

Bitwise operators

~ (tilde) ones complement

$$\sim 10101100 \Rightarrow 01010011$$

<< shift left x = 10101100

x << 3

>> shift right

01100000

Unsigned shifts in zeros

x >> 3

Signed + positive ↗

or 00010101

Signed + negative shift in ones maybe

11110101