# 35 Compilers

Bloat.org compilers tutorials c

C
C++
Java   } → compiler → .s
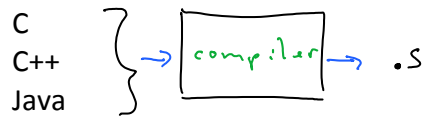
1+2*3
The entire language is integer
expression
Can do parenthesis too
(1+2) *3

./main I
1+2*3
7

Source → Scanner → Tokens

10+20*30
- - - - - - -

10  +  20  *  30

AST tree:
+
├ 10
└ *
  ├ 20
  └ 30

Parser

↑ syntax errors caught here

abstract Syntax Tree (AST)

610 ↗
Interpretor ←

Generator ←
↳ .s