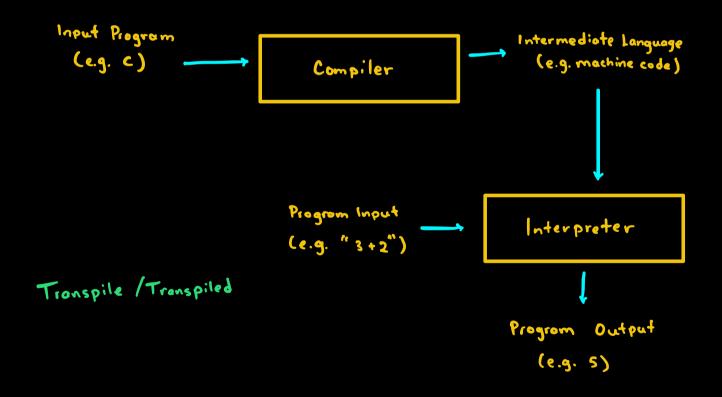
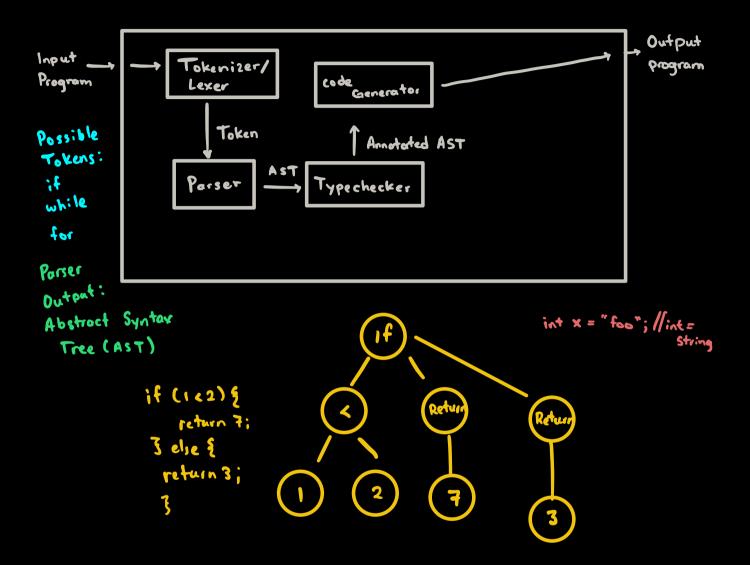
Interreted Style



Compiled Style





```
digit ::= '0' | ' | '
  number := digit | digit number
  expression := number | expression '+' expression
  example numbers:
                             example expression:
   0
                                  1101
                                  101 + 110
    01
                                 (1+111) + (expression + expression
    101
Language Design:
 - Integers and bookens
  - Declare and Initialize variables
  - Perform typical arithmetic / logical operations
   Var is a variable
   hum is a number
   Type :: - int | 'bool'
    Vordec := '(' 'vordec' type var expression ')'
    expression :: num | 'true' | 'false' |
                 ( op expression expression )
     loop := '(' while expression statement ')'
    assign ::= "() (=' Vor expression ')
  Statement := Vorder | loop lassign
   ob ::= ,t,1,-,1,88,1,11,
  program :: = Statement *
```

Object language: Our language: My Long
Metalonguage: what we are writing the compiler in: Java
Torget language: what we are compiling to: Java script

1:04:00