LISP (LISt Processing — 1950's)

eg: (+ 1 2) (+ 1 2 3 4)

function arguments

(* 2 (+ 3 4))

Formal definition of Syntax of LISP

"grammar" — defines structure of a language.

"or" "nonterminal"

```
expr : num | list
list : '(' expr* ')'
```

* = zero or more

literal token, "terminal"

num = a positive integer token.

Grammars are recursive

Therefore, so are programs to process grammars.

One function per rule.