1 Context-free grammer for CUTE Lang

This chapter explains what context-free grammer is used in CUTE Lang.

1.1 Syntax diagram

To explain efficiently, grammer is explained by syntax diagram first.

Syntax diagram representation rules

Representation rules for our syntax diagram are on Table 1.

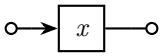
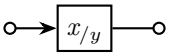
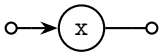
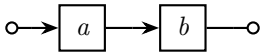
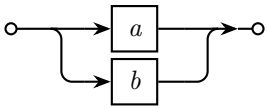
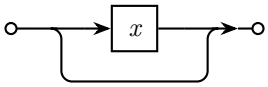
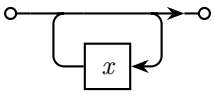
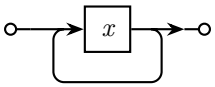
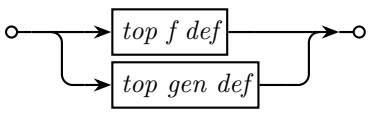
Repesentation	EBNF Equivalent	Meaning
	x	Nonterminal
	x – y	Nonterminal except y
	“x”	Terminal
	a, b	Sequence
	a | b	Selections
	[x]	Optional
	{ x }	Zero or more repeat
	x, { x }	One or more repeat

Table 1: Representation rules of syntax diagram

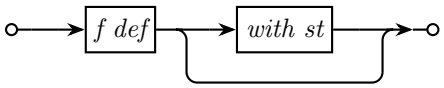
Syntax diagram for context-free grammer

Context-free grammer expressed by syntax diagram is the following.

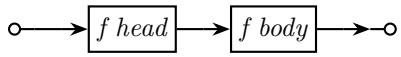
top def



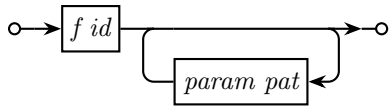
top f def



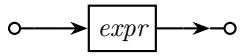
f def



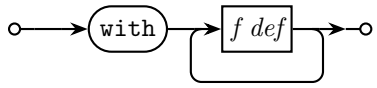
f head



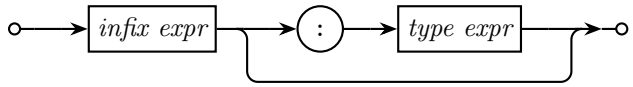
f body



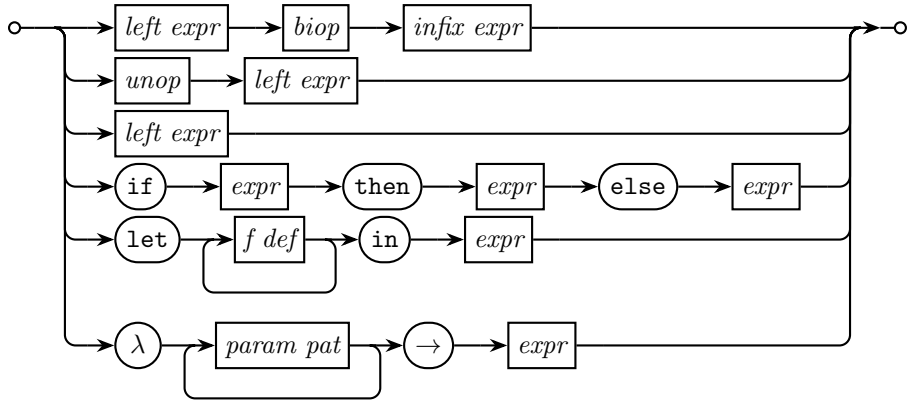
with st



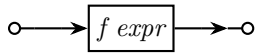
expr



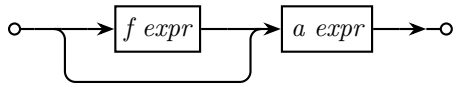
infix expr



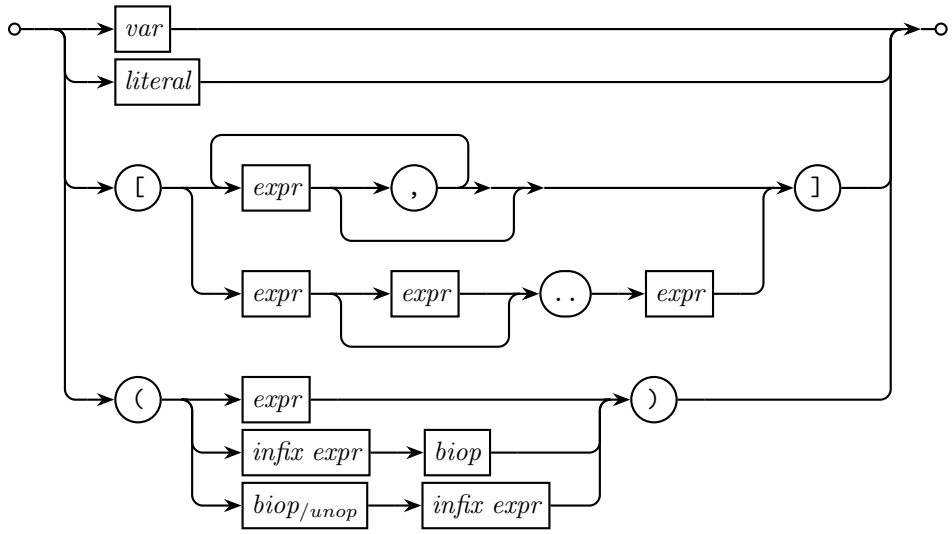
left expr



f expr



a expr


var
literal
[
expr
,
]
expr
expr
..
expr
(
expr
infix expr
biop
biop/unop
infix expr
)