1 Context-free grammar for CUTE Lang

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

1.1 Syntax diagram

To explain efficiently, grammar 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
\circ $x_{/y}$ \circ	x - y	Nonterminal except y
○→ (x) ○	"x"	Terminal
	a, b	Sequence
	$\mathbf{a} \mid \mathbf{b}$	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 grammar

Context-free grammar expressed by syntax diagram is the following. $\,$





