**Data Types**

int INT

float FLOAT

bool BOOL

void VOID

char CHAR

array ARRAY

byte BYTE

String STRING

Double DOUBLE

File FILE

Directory DIRECTORY

Long\_int LONG\_INT

Short\_int SHORT\_INT

Long\_float LONG\_FLOAT

Short\_float SHORT\_FLOAT

Long\_double LONG\_DOUBLE

Short\_double SHORT\_DOUBLE

**Boolean Literals**

false BLN\_FALSE

true BLN\_TRUE

**Boolean Operators**

"&&" AND\_OPT

"||" OR\_OPT

# XOR\_OPT

$ NOR\_OPT

**Conditionals**

if IF

else ELSE

switch SWITCH

case CASE

default DEFAULT

elif ELIF

ifnot IFNOT

**Loops**

while WHILE

do DO

break BREAK

continue CONTINUE

for FOR

**Function Definition**

function FUNCTION

return RETURN

**Built-in Functions**

"print" BLTIN\_PRINT

.

.

.

.

.

.

.

**Relational Operators**

"<=" LESSEQ\_OPT

">=" GREATEREQ\_OPT

"!=" NEQ\_OPT

"==" EQ\_OPT

"<" LESS\_OPT

">" GREATER\_OPT

**Assignment Operators**

"=" ASSIGNMENT\_OPT

"=\*" MULTIPLY\_ASSIGNMENT\_OPT

"=/" DIVIDE\_ASSIGNMENT\_OPT

"=%" MODE\_ASSIGNMENT\_OPT

"=+" ADD\_ASSIGNMENT\_OPT

"=-" SUB\_ASSIGNMENT\_OPT

"=^" POW\_ASSIGNMENT\_OPT

**Unary Operators**

"++" INCREMENT\_OPT

"--" DECREMENT\_OPT

"!" NOT\_OPT

**Binary Operators**

"\*" MULTIPLY\_OPT

"/" DIVIDE\_OPT

"%" MODE\_OPT

"+" ADD\_OPT

"-" SUB\_OPT

"^" POW\_OPT

**Literals and Identifiers**

[\-+]?{Digit}+ INT\_LTRL

[\-+]?{Digit}\*"."{Digit}+ FLT\_LTRL

\"(\\.|[^\\"])\*\" STR\_LTRL

\'(\\.|[^\\'])+\' CHR\_LTRL

{Letter}({Digit}|{Letter})\* IDNTF

";" SEMICOLON

"{" LEFT\_BRACKET

"}" RIGHT\_BRACKET

"," COMMA

":" COLON

"(" LEFT\_PARANTHESIS

")" RIGHT\_PARANTHESIS

"[" LEFT\_SQ\_BRACKET

"]" RIGHT\_SQ\_BRACKET

(\r|\n|\r\n) NEW\_LINE

[ \t\v\f]+ WHITE\_SPACE

. UNKNOWN\_CHAR