

Propuesta Pystachio

Tokens

START-> start	VOID-> void	RPAREN->)
VAR-> var	STRING	SEMICOLON-> ;
INT	CTEL-> ctel	COLON-> :
FUNCTION->	CTEF-> ctef	COMA-> ,
function	ID	EQUAL-> =
SWITCH-> switch	LCURLY-> {	MORETHAN-> >
FOR-> for	RCURLY-> }	LESSTHAN-> <
RETURN-> return	LBRACKET-> [NOTEQUAL-> !=
FLOAT	RBRACKET->]	ISEQUAL-> ==
PRINT-> print	OR-> !!	PLUS-> +
IF-> if	AND-> &&	MINUS-> -
ELSE-> else	DIFF-> %	TIMES-> *
WHILE-> while	EXP-> ^	DIVIDE-> /
BOOL	LPAREN-> (

Expresiones Regulares

ID -> [a-zA-Z][a-zA-Z_0-9]*

STRING -> "[^"]*"

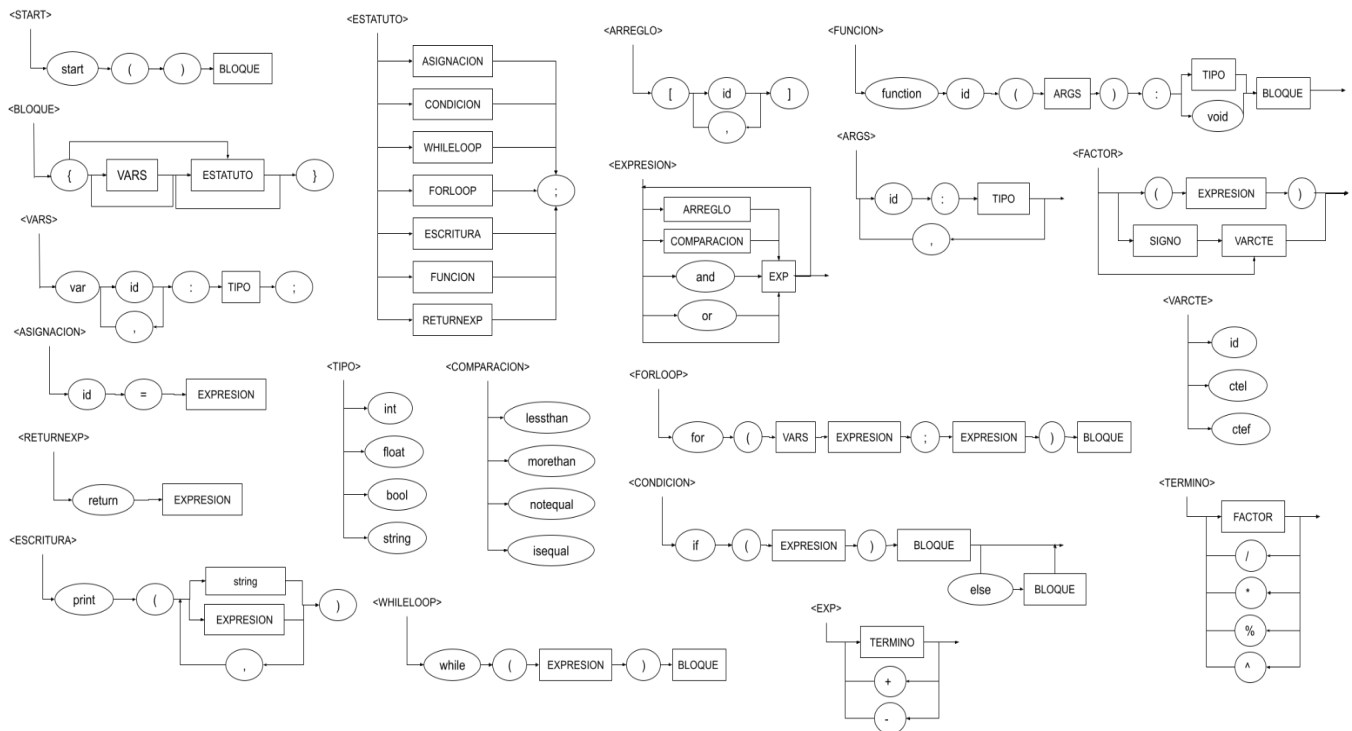
FLOAT -> [0-9]+\.[0-9]+

INT -> [0-9]+

BOOL -> true|false

NEWLINE -> \n+

Diagramas de Sintaxis



Gramática

PROGRAMA -> start LPAREN RPAREN BLOQUE

DECLARACION -> vars | epsilon

VARS -> VAR var | vars vars

VAR -> vardef COLON tipo SEMICOLON

VARDEF -> ID | vardef COMA vardef

TIPO -> int | float | bool | string

BLOQUE -> LCURLY declaracion estatutoExp RCURLY

ESTATUTOEXP -> estatuto SEMICOLON | estatutoexp estatutoexp

ESTATUTO -> asignacion | condicion | escritura | whileLoop | forLoop | funcion | returnexp

RETURNEXP -> RETURN expresion

ASIGNACION -> ID EQUAL expresion

ESCRITO -> impr | impr COMA impr

ESCRITURA -> PRINT LPAREN escrito RPAREN

IMPR -> STRING | expresion

EXPRESION -> exp | arreglo | comparacion exp | AND exp | OR exp | exp expresion

EXP -> termino | termino signo

SIGNO -> PLUS | MINUS

TERMINO -> factor | factor operacion

LISTA -> ID | ID COMA

OPERACION -> TIMES exp | DIVIDE exp | DIFF exp | EXP exp

FACTOR -> LPAREN expresion RPAREN | varcte signo | varcte

ARREGLO -> LBRACKET lista RBRACKET

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COMPARACION -> LESSTHAN | MORETHAN | NOTEQUAL

WHILELOOP -> WHILE LPAREN expresion RPAREN bloque

FORLOOP -> FOR LPAREN vars expresion SEMICOLON expresion RPAREN bloque

CONDICION -> IF LPAREN expresion RPAREN bloque condicionelse

CONDICIONELSE -> ELSE bloque | epsilon

FUNCION -> FUNCTION ID LPAREN argumentos RPAREN COLON tiposreturn bloque

TIPOSRETURN : tipo | VOID

ARGUMENTOS -> args | epsilon

ARGS -> ID COLON tipo | args COMA args

VARCTE -> ID | CTEL | CTEF

EPSILON -> ϵ