LOL

Rules

```
■ program
```

- stat
- declaration
- assignment
- repeat loop
- conditional
- func_def
- block
- expr
- func_call
- TYPE
- LITERAL
- NONE
- TEXT
- NUMBER
- BOOLEAN
- TEXT_VALUE
- NUMBER_VALUE
- BOOLEAN_VALUE
- SEPARATOR
- LPAREN
- RPAREN
- LCURL
- RCURL
- LSQUARE
- RSQUARE
- POW
- m MUL
- DIV
- ADD
- SUB
- LT
- GT - LTE
- GTE
- EQ
- NEO
- NOT
- AND
- OR ■ ASSIGN
- EOL
- NAME
- WHITESPACE
- LINE_COMMENT
- BLOCK_COMMENT
- QUOTE
- DIGIT
- LETTER
- NEWLINE
- BACKSLASH

```
program
```

Text notation:

```
program : EOL? stat* ;
```

Visual notation:

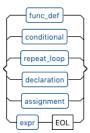


stat Тор

Text notation:

```
stat : func_def | conditional | repeat_loop | declaration | assignment | expr EOL ;
```

Visual notation:

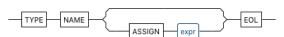


declaration Тор

Text notation:

declaration : TYPE NAME (ASSIGN expr)? EOL ;

Visual notation:



assignment

Text notation:

assignment : NAME ASSIGN expr EOL ;

Visual notation:

ASSIGN NAME EOL expr

repeat_loop Text notation:

repeat_loop : 'repeat' expr block ;

Visual notation:

'repeat' expr block

conditional Text notation:

conditional : ('if' expr block) ('elif' expr block)* ('else' block)?;

Visual notation:

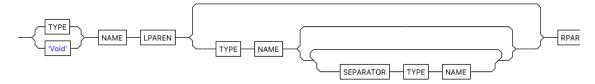


func_def Top

Text notation:

```
func_def : (TYPE | 'Void') NAME LPAREN (TYPE NAME (SEPARATOR TYPE NAME)*)? RPAREN block ;
```

Visual notation:

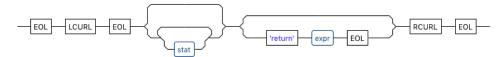


block Top

Text notation:

```
block : EOL LCURL EOL stat* ('return' expr EOL)? RCURL EOL ;
```

Visual notation:

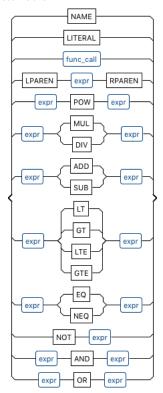


expr Top

Text notation:

```
expr : NAME | LITERAL | func_call | LPAREN expr RPAREN | expr POW expr | expr (MUL | DIV) expr | expr (ADD | SUB) expr | expr (LT | GT | LTE | GTE) expr | expr (EQ | NEQ) expr | NOT expr | expr AND expr | expr OR expr ;
```

Visual notation:



func_call To

Text notation: func_call : NAME LPAREN (expr (SEPARATOR expr)*)? RPAREN ; Visual notation: NAME LPAREN RPAREN expr SEPARATOR TYPE Тор Text notation: TYPE : TEXT | NUMBER | BOOLEAN ; Visual notation: TEXT NUMBER BOOLEAN LITERAL Text notation: LITERAL : TEXT_VALUE | NUMBER_VALUE | BOOLEAN_VALUE ; Visual notation: TEXT_VALUE NUMBER_VALUE BOOLEAN_VALUE NONE Top

Text notation:

```
NONE : 'None' ;
```

Visual notation:

'None'

TEXT Top

Text notation:

```
TEXT : 'Text' ;
```

Visual notation:

'Text'

NUMBER TO

Text notation:

```
NUMBER : 'Number' ;
```

Visual notation:

```
'Number'
```

BOOLEAN To

Text notation:

```
BOOLEAN: 'Boolean';
```

```
Visual notation:
    'Boolean'
TEXT_VALUE
Text notation:
   Visual notation:
    QUOTE
                                           QUOTE -
NUMBER_VALUE
Text notation:
   NUMBER_VALUE : DIGIT+ | DIGIT+.DIGIT+ ;
Visual notation:
                 DIGIT
        DIGIT
BOOLEAN_VALUE
Text notation:
   BOOLEAN_VALUE : 'true' | 'false' ;
Visual notation:
      'true'
SEPARATOR
               Тор
Text notation:
   SEPARATOR : ',';
Visual notation:
LPAREN
Text notation:
  LPAREN : '(';
Visual notation:
  --- m
```

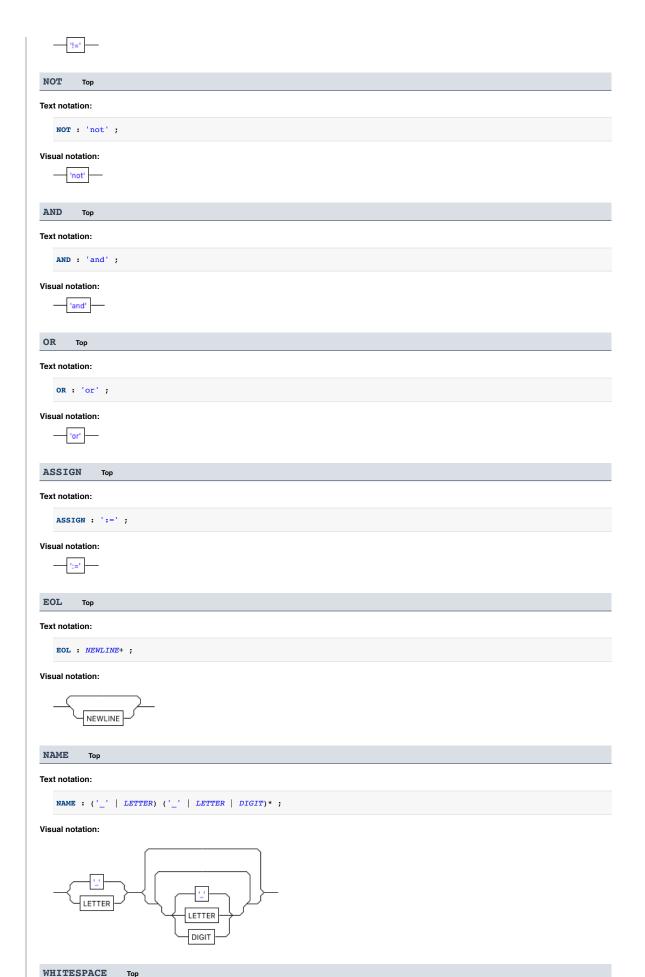
Visual notation:

RPAREN : ')';

RPAREN
Text notation:

<u></u>			
LCURL Top			
Text notation:			
LCURL : '{' ;			
Visual notation:			
RCURL Top			
Text notation:			
RCURL : '}' ;			
Visual notation:			
LSQUARE Top			
Text notation:			
LSQUARE : '[';			
Visual notation:			
RSQUARE Top			
Text notation:			
RSQUARE : ']';			
Visual notation:			
РОЖ Тор			
Text notation:			
POW : '^' ;			
Visual notation:			
MUL Тор			
Text notation:			
MUL : '*' ;			
Visual notation:			
DIV Top			
Text notation:			
DIV : '/' ;			
Visual notation:			
ADD Top			

Text notation:			
ADD : '+' ;			
Visual notation:			
SUB Top			
Text notation:			
SUB : '-' ;			
Visual notation:			
			
LT Top			
Text notation:			
LT : '<' ;			
Visual notation:			
GT Тор			
Text notation:			
GT : '>' ;			
Visual notation:			
- '>'			
LTE Top			
Text notation:			
LTE : '<=' ;			
Visual notation:			
'<='			
GTE Top			
·			
Text notation:			
GTE : '>=' ;			
Visual notation:			
<i>></i> -			
ЕО Тор			
Text notation:			
EQ : '==' ;			
Visual notation:			
NEQ Top			
Text notation:			
NEQ : '!=';			
Visual notation:			



Text notation:

Тор

```
WHITESPACE : (LINE_COMMENT | [ \t]+) -> skip ;
Visual notation:
        LINE_COMMENT
LINE_COMMENT
                    Тор
Text notation:
  LINE_COMMENT : ('#' .*? NEWLINE) -> skip ;
Visual notation:
                                 NEWLINE
BLOCK_COMMENT
                      Тор
Text notation:
   BLOCK_COMMENT : ('##' .*? '##') -> skip ;
Visual notation:
QUOTE
Text notation:
   QUOTE : '\'' ;
Visual notation:
DIGIT Top
Text notation:
  DIGIT : '0'..'9' ;
Visual notation:
  '0..9'
LETTER Top
Text notation:
   LETTER : 'a'..'z' | 'A'..'Z' ;
Visual notation:
NEWLINE
Text notation:
```

Visual notation:

NEWLINE : '\n' | '\r\n' ;



BACKSLASH Top

Text notation:

BACKSLASH : '\\' ;

Visual notation:



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