

Описание грамматики языка задания грамматики

Воротников Андрей, Кожевникова Диана, Павлов Илья

Февраль 2023

1 РБНФ

TERMINALS:

```
name ::= '[\w\D][\w]*';
char_sequence ::= '[\W\S^]+';
string ::= '"(\\.|[^\\"']+)*"'
```

KEYS:

```
'TERMINALS'; 'KEYS'; 'NONTERMINALS'; 'AXIOM'; 'RULES'; 'ERRORS';
'; ':; '::='; '; '(:)'; '|'; '['; ']'; '{'; '}'; '#'
```

NONTERMINALS:

```
GRAMMAR;
TERMINALS_BLOCK;
KEYS_BLOCK;
NONTERMINALS_BLOCK;
AXIOM_BLOCK;
ERROR_BLOCK;
RULES_BLOCK;
RULE;
RHS;
NONTERMINAL;
TERMINAL.
```

AXIOM: GRAMMAR.

ERRORS:

```
TERMINALS_BLOCK ' ';
KEYS_BLOCK ' ';
NONTERMINALS_BLOCK ' ';
AXIOM_BLOCK ' ';
ERROR_BLOCK ' ';
RULES_BLOCK ' ';
RULE ' ' | ' ';
```

```

RHS ';' | '.';
NONTERMINAL ';' | '.';
TERMINAL ';' | '.'.

```

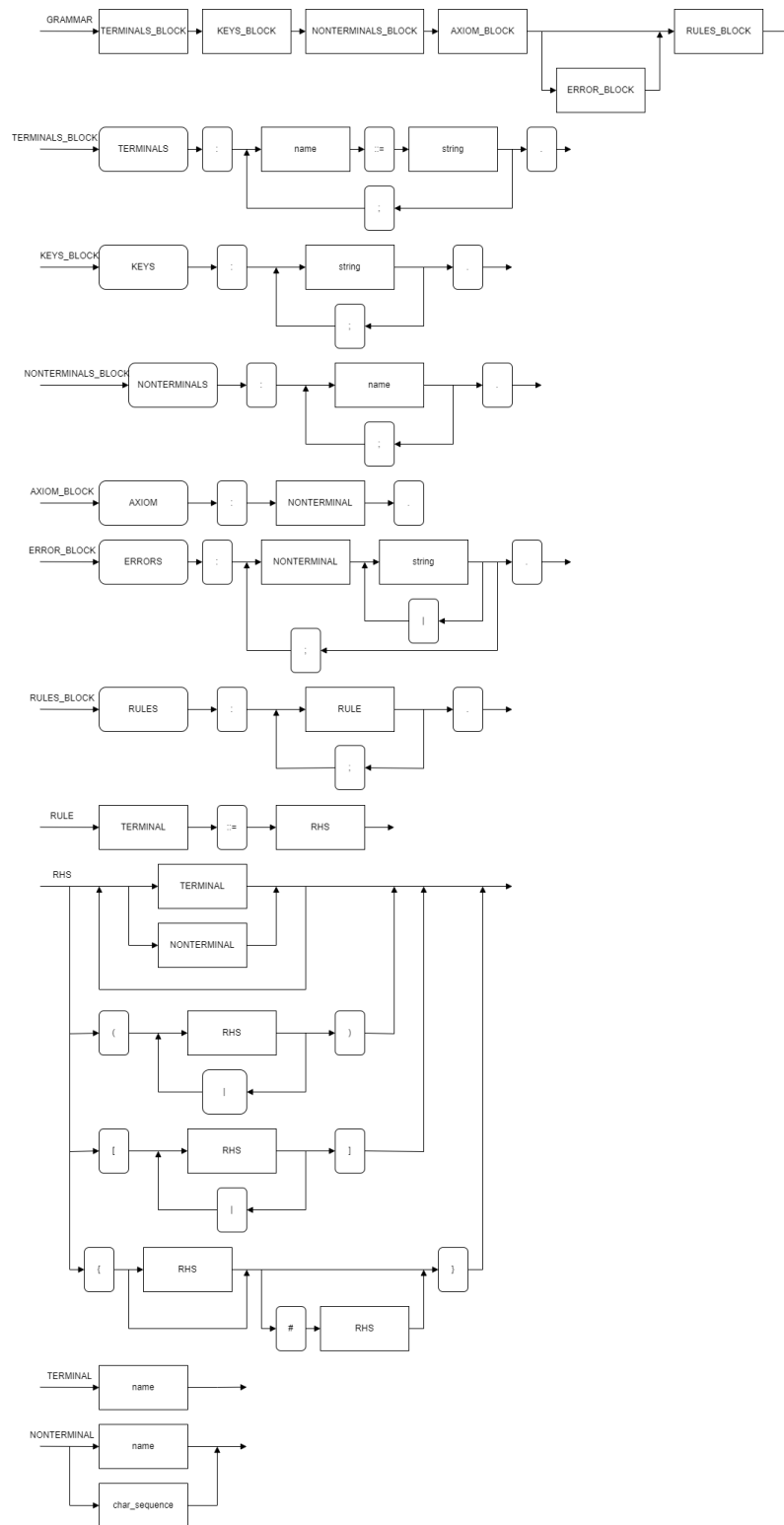
RULES:

```

GRAMMAR ::=
    TERMINALS_BLOCK KEYS_BLOCK NONTERMINALS_BLOCK
    AXIOM_BLOCK [ERROR_BLOCK] RULES_BLOCK;
TERMINALS_BLOCK ::= TERMINALS: {name ::= string # };.;
KEYS_BLOCK ::= KEYS: {string # };.;
NONTERMINALS_BLOCK ::= NONTERMINALS: {name # };.;
AXIOM_BLOCK ::= AXIOM: NONTERMINAL.;
ERROR_BLOCK ::= ERRORS: {NONTERMINAL {string # |} # };.;
RULES_BLOCK ::= RULES: {RULE # };.;
RULE ::= NONTERMINAL ::= RHS;
RHS ::=
    {TERMINAL | NONTERMINAL} |
    ({RHS # |}) |
    [{RHS # |}] |
    {[RHS] [# RHS]};
NONTERMINAL ::= name;
TERMINAL ::= name | char_sequence.

```

2 Диаграммы Вирта



3 Метамоделъ

