

# Yacc Form of grammar **Hoot.grm**

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This yacc grammar was generated on Tue May 07 05:47:04 CEST 2019 from the annotated Yacc grammar file Hoot .grm.

```
HootProgram
: Statements_opt
;

Statements_opt
: /* empty */
| Statements_opt Statement
;

Statement
: StatementType EndOfStatement
;

EndOfStatement
: EOS
;

StatementType
: /* empty */
| PragmaStatement
| SortDeclarationStatement
| HootExpression
| error
;

SortDeclarationStatement
: IsaDeclarationStatement
;

IsaDeclarationStatement
: SortSymbols ISA SortSymbols
;

SortSymbol
: IDENTIFIER
;

SortSymbols
: SortSymbol
| SortSymbol ',' SortSymbols
;

HootExpression
: PsiTerm
;

PsiTerm
: TAG
| UntaggedPsiTerm
| TAG ':' UntaggedPsiTerm
;

UntaggedPsiTerm
: SortExpression Body_opt
;

Body_opt
: /* empty */
| '(' SubTerms ')'
;

SubTerms
: SubTerm
| SubTerm ',' SubTerms
;

SubTerm
: PsiTerm
| Feature ARROW PsiTerm
;

Feature
: INTEGER
| IDENTIFIER
;
```

```

SortExpression
: Constant
| Sort
| '{' SortList '}'
| NOT SortExpression
| SortExpression AND SortExpression
| SortExpression OR SortExpression
| SortExpression BUTNOT SortExpression
| '(' SortExpression ')'
;

Constant
: INTEGER
| CHAR
| FLOAT
| STRING
| BOOLEAN
;

Sort
: TOP
| BOTTOM
| IDENTIFIER
;

SortList
: Sort
| Sort ';' SortList
;

PragmaStatement
: HELP_PRAGMA
| EXIT_PRAGMA
| INCLUDE_PRAGMA FileList
| ENCODE_PRAGMA
| EVAL_PRAGMA
| SORTS_PRAGMA
| DEFINED_PRAGMA
| SYMBOLS_PRAGMA
| MUTE_PRAGMA
| SIZE_PRAGMA
| HEIGHT_PRAGMA
| WIDTH_PRAGMA
| CHILDREN_PRAGMA SortExpression
| DESCENDANTS_PRAGMA SortExpression
| PARENTS_PRAGMA SortExpression
| ANCESTORS_PRAGMA SortExpression
| ENUMSIZE_PRAGMA INTEGER
| ISA_PRAGMA SortExpression SortExpression
| REFRESH_PRAGMA
| TREE_PRAGMA
| TIMING_PRAGMA
| GC_PRAGMA
| SYNTAX_PRAGMA
| TRACE_PRAGMA
| UNKNOWN_PRAGMA
;

FileList
: STRING
| STRING FileList
;

```

