My Project

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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CharConstToken	 . 7
DashToken	 . 8
EndOfFileToken	 . 9
FalseKwdToken	 . 12
FloatConstToken	 . 12
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LeftParenToken	 . 15
LetToken	 . 16
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VariableNameToken	 . 32
Node	 19
Decl	 . 9
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MatrixDecl2	
StandardDecl	
Expr	
BitwiseOperator	
ConstExpr	
IfThenElseExpr	
LetExpr	
LogicOperator	
MatrixRef	
NestedOrFuncCall	
NotExpr	
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ParenExpr	
TrueOrFalseExpr	
VarName	
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CurlyStmts	. 8
IfElseStmt	. 13
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EmptyStmts	. 9
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ParserTestSuite	. 22
RegexTestSuite	. 24
ScannerTestSuite	. 25
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Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Assignmentiviatinx5tmt
AssignmentStmt
AstTestSuite
BitwiseOperator
CharConstToken
ConstExpr
CurlyStmts
DashToken
Decl
EmptyStmts
EndOfFileToken
Expr
ExtToken
FalseKwdToken
FloatConstToken
ForwardSlashToken
IfElseStmt
IfStmt 1
IfThenElseExpr
IfToken
IntConstToken
LeftParenToken
LetExpr
LetToken 1
LogicOperator
MatrixDecl1
MatrixDecl2
MatrixRef
NestedOrFuncCall
Node 1
NotExpr
NotOpToken
ParenExpr
Parser
ParseResult
ParserTestSuite
PlusSignToken
PrintStmt 2

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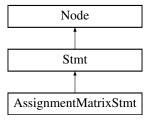
Program	23
RegexTestSuite	24
RelationalOpToken	24
RepeatStmt	25
Scanner	25
ScannerTestSuite	25
SemiColonStmt	27
StandardDecl	27
StarToken	28
Stmt	28
Stmts	29
StmtStmts	30
StringConstToken	30
Token	30
TrueKwdToken	31
TrueOrFalseExpr	31
VariableNameToken	32
VarName	32
WhileStmt	33

Chapter 3

Class Documentation

3.1 AssignmentMatrixStmt Class Reference

Inheritance diagram for AssignmentMatrixStmt:



Public Member Functions

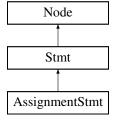
- AssignmentMatrixStmt (std::string v, Expr *e1, Expr *e2, Expr *e3)
- std::string unparse ()

The documentation for this class was generated from the following file:

AST.h

3.2 AssignmentStmt Class Reference

Inheritance diagram for AssignmentStmt:



Public Member Functions

• AssignmentStmt (std::string v, Expr *e)

• std::string unparse ()

The documentation for this class was generated from the following file:

· AST.h

3.3 AstTestSuite Class Reference

Inheritance diagram for AstTestSuite:



Public Member Functions

- char ** makeArgs (const char *a0, const char *a1)
- void writeFile (const string text, const string filename)
- char * readFile (const char *fn)
- void unparse_tests (string file)
- void xtest_iter3_simple1 (void)
- void xtest_iter3_simple2 (void)
- void xtest_iter3_simple3 (void)
- void test_sample_1 (void)
- void test_sample_2 (void)
- void test_sample_3 (void)
- void test_sample_4 (void)
- void test_sample_5 (void)
- void **test_mysample** (void)
- void test_forest_loss (void)
- void xtest_sample_6 (void)

Public Attributes

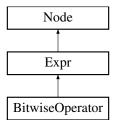
- Parser p
- ParseResult pr

The documentation for this class was generated from the following file:

· ast_tests.h

3.4 BitwiseOperator Class Reference

Inheritance diagram for BitwiseOperator:



Public Member Functions

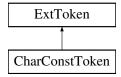
- BitwiseOperator (Expr *e1, std::string op, Expr *e2)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.5 CharConstToken Class Reference

Inheritance diagram for CharConstToken:



Public Member Functions

- CharConstToken (Parser *p, Token *t)
- ParseResult nud ()
- std::string description ()

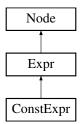
Additional Inherited Members

The documentation for this class was generated from the following file:

extToken.h

3.6 ConstExpr Class Reference

Inheritance diagram for ConstExpr:



Public Member Functions

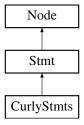
- ConstExpr (std::string cs)
- std::string unparse ()

The documentation for this class was generated from the following file:

AST.h

3.7 CurlyStmts Class Reference

Inheritance diagram for CurlyStmts:



Public Member Functions

- CurlyStmts (Stmts *ss)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.8 DashToken Class Reference

Inheritance diagram for DashToken:



Public Member Functions

- DashToken (Parser *p, Token *t)
- ParseResult led (ParseResult left)
- std::string description ()
- int **lbp** ()

Additional Inherited Members

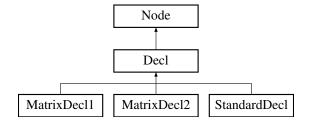
The documentation for this class was generated from the following file:

extToken.h

3.9 Decl Class Reference 9

3.9 Decl Class Reference

Inheritance diagram for Decl:



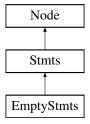
Additional Inherited Members

The documentation for this class was generated from the following file:

• AST.h

3.10 EmptyStmts Class Reference

Inheritance diagram for EmptyStmts:



Public Member Functions

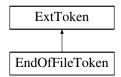
• std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.11 EndOfFileToken Class Reference

Inheritance diagram for EndOfFileToken:



Public Member Functions

- EndOfFileToken (Parser *p, Token *t)
- std::string description ()

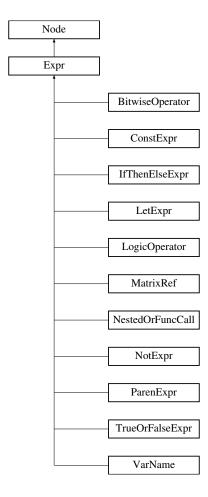
Additional Inherited Members

The documentation for this class was generated from the following file:

· extToken.h

3.12 Expr Class Reference

Inheritance diagram for Expr:



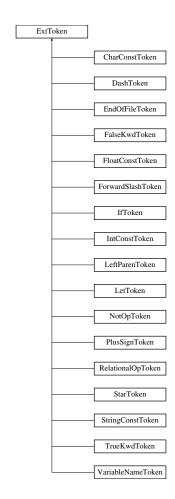
Additional Inherited Members

The documentation for this class was generated from the following file:

• AST.h

3.13 ExtToken Class Reference

Inheritance diagram for ExtToken:



Public Member Functions

- ExtToken (Parser *p, Token *t)
- ExtToken (Parser *p, Token *t, std::string d)
- virtual ParseResult nud ()
- virtual ParseResult led (ParseResult left)
- virtual int **lbp** ()
- virtual std::string description ()

Public Attributes

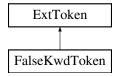
- std::string lexeme
- tokenType terminal
- ExtToken * next
- Parser * parser

The documentation for this class was generated from the following file:

extToken.h

3.14 FalseKwdToken Class Reference

Inheritance diagram for FalseKwdToken:



Public Member Functions

- FalseKwdToken (Parser *p, Token *t)
- ParseResult nud ()
- std::string description ()

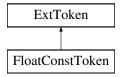
Additional Inherited Members

The documentation for this class was generated from the following file:

· extToken.h

3.15 FloatConstToken Class Reference

Inheritance diagram for FloatConstToken:



Public Member Functions

- FloatConstToken (Parser *p, Token *t)
- ParseResult **nud** ()
- std::string description ()

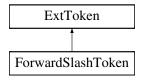
Additional Inherited Members

The documentation for this class was generated from the following file:

· extToken.h

3.16 ForwardSlashToken Class Reference

Inheritance diagram for ForwardSlashToken:



Public Member Functions

- ForwardSlashToken (Parser *p, Token *t)
- ParseResult led (ParseResult left)
- std::string description ()
- int **lbp** ()

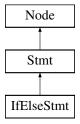
Additional Inherited Members

The documentation for this class was generated from the following file:

· extToken.h

3.17 If Else Stmt Class Reference

Inheritance diagram for IfElseStmt:



Public Member Functions

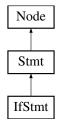
- IfElseStmt (Expr *e, Stmt *s1, Stmt *s2)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.18 IfStmt Class Reference

Inheritance diagram for IfStmt:



Public Member Functions

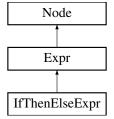
- IfStmt (Expr *e, Stmt *s)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.19 IfThenElseExpr Class Reference

Inheritance diagram for IfThenElseExpr:



Public Member Functions

- IfThenElseExpr (Expr *e1, Expr *e2, Expr *e3)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.20 IfToken Class Reference

Inheritance diagram for IfToken:



Public Member Functions

- IfToken (Parser *p, Token *t)
- ParseResult nud ()
- std::string description ()
- int **lbp** ()

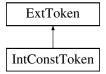
Additional Inherited Members

The documentation for this class was generated from the following file:

· extToken.h

3.21 IntConstToken Class Reference

Inheritance diagram for IntConstToken:



Public Member Functions

- IntConstToken (Parser *p, Token *t)
- ParseResult nud ()
- std::string description ()

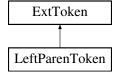
Additional Inherited Members

The documentation for this class was generated from the following file:

· extToken.h

3.22 LeftParenToken Class Reference

Inheritance diagram for LeftParenToken:



Public Member Functions

- LeftParenToken (Parser *p, Token *t)
- ParseResult nud ()
- std::string description ()
- int **lbp** ()

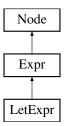
Additional Inherited Members

The documentation for this class was generated from the following file:

· extToken.h

3.23 LetExpr Class Reference

Inheritance diagram for LetExpr:



Public Member Functions

- LetExpr (Stmts *ss, Expr *e)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.24 LetToken Class Reference

Inheritance diagram for LetToken:



Public Member Functions

- LetToken (Parser *p, Token *t)
- ParseResult nud ()
- std::string description ()
- int **lbp** ()

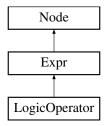
Additional Inherited Members

The documentation for this class was generated from the following file:

extToken.h

3.25 LogicOperator Class Reference

Inheritance diagram for LogicOperator:



Public Member Functions

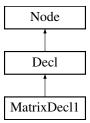
- LogicOperator (Expr *e1, std::string op, Expr *e2)
- std::string unparse ()

The documentation for this class was generated from the following file:

AST.h

3.26 MatrixDecl1 Class Reference

Inheritance diagram for MatrixDecl1:



Public Member Functions

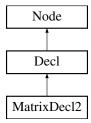
- MatrixDecl1 (Expr *v1, Expr *e1, Expr *e2, Expr *v2, Expr *v3, Expr *e3)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.27 MatrixDecl2 Class Reference

Inheritance diagram for MatrixDecl2:



Public Member Functions

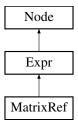
- MatrixDecl2 (Expr *v, Expr *e)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.28 MatrixRef Class Reference

Inheritance diagram for MatrixRef:



Public Member Functions

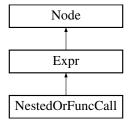
- MatrixRef (Expr *v, Expr *e1, Expr *e2)
- std::string unparse ()

The documentation for this class was generated from the following file:

· AST.h

3.29 NestedOrFuncCall Class Reference

Inheritance diagram for NestedOrFuncCall:



3.30 Node Class Reference

Public Member Functions

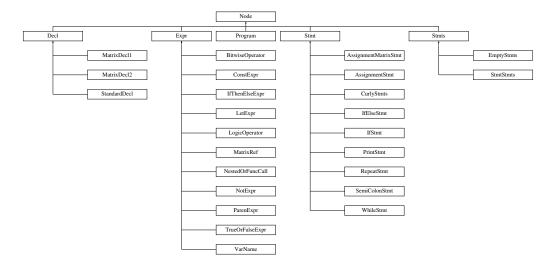
- NestedOrFuncCall (Expr *v, Expr *e)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.30 Node Class Reference

Inheritance diagram for Node:



Public Member Functions

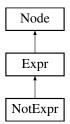
- virtual std::string unparse ()
- virtual std::string cppCode ()

The documentation for this class was generated from the following file:

• AST.h

3.31 NotExpr Class Reference

Inheritance diagram for NotExpr:



Public Member Functions

- NotExpr (Expr *e)
- std::string unparse ()

The documentation for this class was generated from the following file:

AST.h

3.32 NotOpToken Class Reference

Inheritance diagram for NotOpToken:



Public Member Functions

- NotOpToken (Parser *p, Token *t)
- ParseResult nud ()
- std::string description ()

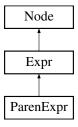
Additional Inherited Members

The documentation for this class was generated from the following file:

• extToken.h

3.33 ParenExpr Class Reference

Inheritance diagram for ParenExpr:



Public Member Functions

- ParenExpr (Expr *e)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.34 Parser Class Reference

Public Member Functions

- ParseResult parse (const char *text)
- ParseResult parseProgram ()
- ParseResult parseDecl ()
- ParseResult parseStandardDecl ()
- ParseResult parseMatrixDecl ()
- ParseResult parseStmts ()
- ParseResult parseStmt ()
- ParseResult parseExpr (int rbp)
- ParseResult parseTrueKwd ()
- ParseResult parseFalseKwd ()
- ParseResult parseIntConst ()
- ParseResult parseFloatConst ()
- ParseResult parseStringConst ()
- ParseResult parseCharConst ()
- ParseResult parseVariableName ()
- ParseResult parseNestedExpr ()
- ParseResult parseNotExpr ()
- ParseResult parseLetExpr ()
- ParseResult parselfExpr ()
- · ParseResult parseAddition (ParseResult left)
- ParseResult parseMultiplication (ParseResult left)
- ParseResult parseSubtraction (ParseResult left)
- ParseResult parseDivision (ParseResult left)
- ParseResult parseRelationalExpr (ParseResult left)
- void match (tokenType tt)
- bool attemptMatch (tokenType tt)
- bool **nextIs** (tokenType tt)
- void nextToken ()
- std::string terminalDescription (tokenType terminal)
- std::string makeErrorMsg (tokenType terminal)
- std::string makeErrorMsgExpected (tokenType terminal)
- std::string makeErrorMsg (const char *msg)

Public Attributes

- ExtToken * tokens
- ExtToken * currToken
- ExtToken * prevToken
- Token * stokens
- Scanner * s

The documentation for this class was generated from the following files:

- · parser.h
- · parser.cpp

3.35 ParseResult Class Reference

Public Attributes

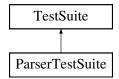
- std::string errors
- Node * ast
- bool ok

The documentation for this class was generated from the following files:

- · parseResult.h
- · parseResult.cpp

3.36 ParserTestSuite Class Reference

Inheritance diagram for ParserTestSuite:



Public Member Functions

- void test_setup_code ()
- void test_parse_bad_syntax ()
- void test_parse_sample_1 ()
- void test_parse_sample_2 ()
- void test_parse_sample_3 ()
- void test_parse_sample_4 ()
- void test_parse_sample_5 ()
- void test_parse_mysample ()
- void test_parse_forestLossV2 ()

Public Attributes

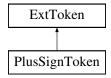
- Scanner * s
- Parser * p

The documentation for this class was generated from the following file:

· parser_tests.h

3.37 PlusSignToken Class Reference

Inheritance diagram for PlusSignToken:



Public Member Functions

- PlusSignToken (Parser *p, Token *t)
- ParseResult led (ParseResult left)
- std::string description ()
- int **lbp** ()

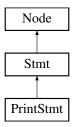
Additional Inherited Members

The documentation for this class was generated from the following file:

· extToken.h

3.38 PrintStmt Class Reference

Inheritance diagram for PrintStmt:



Public Member Functions

- PrintStmt (Expr *e)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.39 Program Class Reference

Inheritance diagram for Program:



Public Member Functions

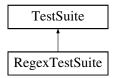
- Program (VarName *v, Stmts *s)
- std::string unparse ()

The documentation for this class was generated from the following file:

AST.h

3.40 RegexTestSuite Class Reference

Inheritance diagram for RegexTestSuite:



Public Member Functions

- · void test_make_matchRegex_match (void)
- void test_make_matchRegex_no_match (void)
- void test_make_matchRegex_match_string_copy (void)

The documentation for this class was generated from the following file:

· regex_tests.h

3.41 RelationalOpToken Class Reference

Inheritance diagram for RelationalOpToken:



Public Member Functions

- RelationalOpToken (Parser *p, Token *t, std::string d)
- ParseResult led (ParseResult left)
- int **lbp** ()

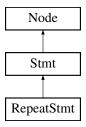
Additional Inherited Members

The documentation for this class was generated from the following file:

extToken.h

3.42 RepeatStmt Class Reference

Inheritance diagram for RepeatStmt:



Public Member Functions

- RepeatStmt (std::string v, Expr *e1, Expr *e2, Stmt *s)
- std::string unparse ()

The documentation for this class was generated from the following file:

AST.h

3.43 Scanner Class Reference

Public Member Functions

- Token * scan (const char *text)
- void initializeMakeRegex ()

Public Attributes

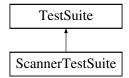
- regex_t * regexArray [43]
- regex_t * whiteSpace
- regex_t * blockComment
- regex_t * lineComment

The documentation for this class was generated from the following files:

- · scanner.h
- scanner.cpp

3.44 ScannerTestSuite Class Reference

Inheritance diagram for ScannerTestSuite:



Public Member Functions

 void test setup code () void test_terminal_intKwd () void test terminal floatKwd () • void test terminal boolKwd () void test terminal trueKwd () void test_terminal_falseKwd () void test_terminal_stringKwd () void test_terminal_matrixKwd () void test_terminal_letKwd () void test terminal inKwd () void test terminal endKwd () void test_terminal_ifKwd () • void test_terminal_thenKwd () • void test_terminal_elseKwd () void test terminal repeatKwd () • void test_terminal_whileKwd () void test terminal printKwd () • void test terminal toKwd () void test terminal intConst () void test_terminal_floatConst () void test_terminal_stringConst() void test terminal variableName1 () void test_terminal_variableName2 () void test terminal variableName3 () void test_terminal_leftParen () • void test_terminal_rightParen() void test_terminal_leftCurly () void test_terminal_rightCurly () void test_terminal_leftSquare () void test_terminal_rightSquare () • void test terminal semiColon () • void test terminal colon () • void test terminal assign () void test_terminal_plusSign () void test terminal star () void test terminal dash () void test_terminal_forwardSlash () • void test terminal lessThan () void test terminal lessThanEqual () void test terminal greaterThan () void test_terminal_greaterThanEqual () void test_terminal_equalsEquals() • void test_terminal_notEquals() void test terminal andOp () • void test terminal orOp () void test_terminal_notOp () void test_terminal_endOfFile () void test_terminal_lexicalError () bool noLexicalErrors (Token *tks) void scanFileNoLexicalErrors (const char *filename) bool sameTerminals (Token *tks, int numTerms, tokenType *ts) void test scan empty ()

void test_scan_empty_comment ()

- void test_scan_lexicalErrors ()
- void test_scan_nums_vars ()
- void test_scan_bad_syntax_good_tokens ()
- void test_scan_sample_forestLoss ()

Public Attributes

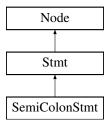
• Scanner * s

The documentation for this class was generated from the following file:

• scanner_tests.h

3.45 SemiColonStmt Class Reference

Inheritance diagram for SemiColonStmt:



Public Member Functions

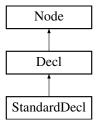
• std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.46 StandardDecl Class Reference

Inheritance diagram for StandardDecl:



Public Member Functions

- StandardDecl (std::string kwd, std::string varName)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.47 StarToken Class Reference

Inheritance diagram for StarToken:



Public Member Functions

- StarToken (Parser *p, Token *t)
- ParseResult led (ParseResult left)
- std::string description ()
- int **lbp** ()

Additional Inherited Members

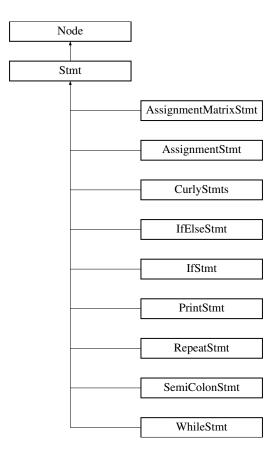
The documentation for this class was generated from the following file:

· extToken.h

3.48 Stmt Class Reference

Inheritance diagram for Stmt:

3.49 Stmts Class Reference 29



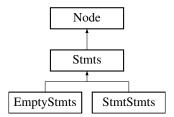
Additional Inherited Members

The documentation for this class was generated from the following file:

• AST.h

3.49 Stmts Class Reference

Inheritance diagram for Stmts:



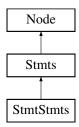
Additional Inherited Members

The documentation for this class was generated from the following file:

• AST.h

3.50 StmtStmts Class Reference

Inheritance diagram for StmtStmts:



Public Member Functions

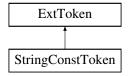
- StmtStmts (Stmt *s, Stmts *ss)
- std::string unparse ()

The documentation for this class was generated from the following file:

AST.h

3.51 StringConstToken Class Reference

Inheritance diagram for StringConstToken:



Public Member Functions

- StringConstToken (Parser *p, Token *t)
- ParseResult nud ()
- std::string description ()

Additional Inherited Members

The documentation for this class was generated from the following file:

· extToken.h

3.52 Token Class Reference

Public Member Functions

• **Token** (std::string lexeme, tokenType terminal, Token *next)

Public Attributes

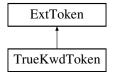
- tokenType terminal
- std::string lexeme
- Token * next

The documentation for this class was generated from the following files:

- · scanner.h
- · scanner.cpp

3.53 TrueKwdToken Class Reference

Inheritance diagram for TrueKwdToken:



Public Member Functions

- TrueKwdToken (Parser *p, Token *t)
- ParseResult nud ()
- std::string description ()

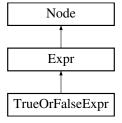
Additional Inherited Members

The documentation for this class was generated from the following file:

· extToken.h

3.54 TrueOrFalseExpr Class Reference

Inheritance diagram for TrueOrFalseExpr:



Public Member Functions

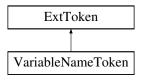
- TrueOrFalseExpr (std::string trueorfalse)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

3.55 VariableNameToken Class Reference

Inheritance diagram for VariableNameToken:



Public Member Functions

- VariableNameToken (Parser *p, Token *t)
- ParseResult nud ()
- std::string description ()

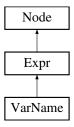
Additional Inherited Members

The documentation for this class was generated from the following file:

· extToken.h

3.56 VarName Class Reference

Inheritance diagram for VarName:



Public Member Functions

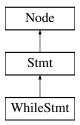
- VarName (std::string lexeme)
- std::string unparse ()

The documentation for this class was generated from the following file:

AST.h

3.57 WhileStmt Class Reference

Inheritance diagram for WhileStmt:



Public Member Functions

- WhileStmt (Expr *e, Stmt *s)
- std::string unparse ()

The documentation for this class was generated from the following file:

• AST.h

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