

Iteration3

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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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Chapter 2

Class Index

2.1 Class List

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

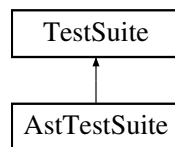
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Chapter 3

Class Documentation

3.1 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 **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)

Public Attributes

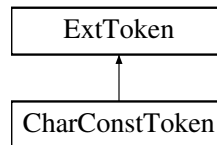
- [Parser](#) **p**
- [ParseResult](#) **pr**

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

- ast_tests.h

3.2 CharConstToken Class Reference

Inheritance diagram for CharConstToken:



Public Member Functions

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

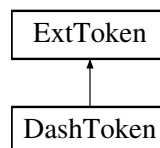
Additional Inherited Members

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

- extToken.h

3.3 DashToken Class Reference

Inheritance diagram for DashToken:



Public Member Functions

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

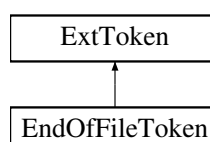
Additional Inherited Members

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

- extToken.h

3.4 EndOfFileToken Class Reference

Inheritance diagram for EndOfFileToken:



Public Member Functions

- **EndOfFileToken** ([Parser](#) *p, [Token](#) *t)
- `std::string` **description** ()

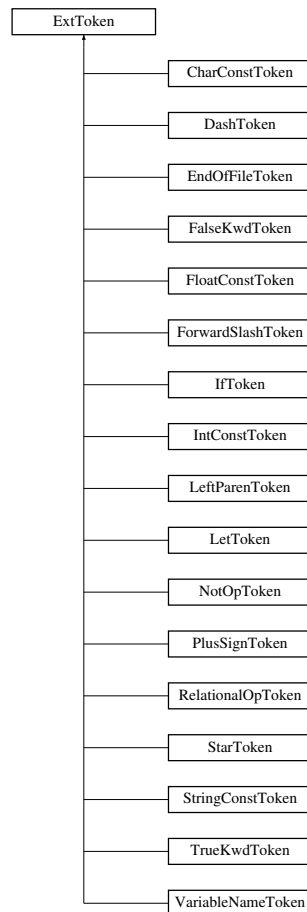
Additional Inherited Members

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

- `extToken.h`

3.5 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

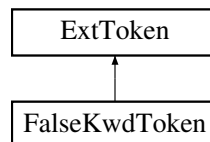
- std::string **lexeme**
- tokenType **terminal**
- ExtToken * **next**
- Parser * **parser**

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

- extToken.h

3.6 FalseKwdToken Class Reference

Inheritance diagram for FalseKwdToken:



Public Member Functions

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

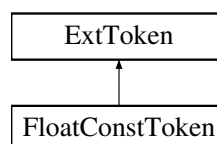
Additional Inherited Members

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

- extToken.h

3.7 FloatConstToken Class Reference

Inheritance diagram for FloatConstToken:



Public Member Functions

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

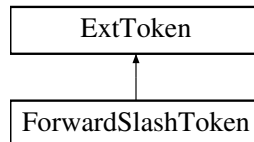
Additional Inherited Members

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

- extToken.h

3.8 ForwardSlashToken Class Reference

Inheritance diagram for ForwardSlashToken:



Public Member Functions

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

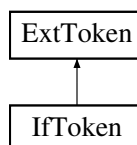
Additional Inherited Members

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

- extToken.h

3.9 IfToken Class Reference

Inheritance diagram for IfToken:



Public Member Functions

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

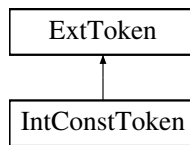
Additional Inherited Members

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

- extToken.h

3.10 IntConstToken Class Reference

Inheritance diagram for IntConstToken:



Public Member Functions

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

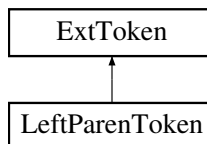
Additional Inherited Members

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

- extToken.h

3.11 LeftParenToken Class Reference

Inheritance diagram for LeftParenToken:



Public Member Functions

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

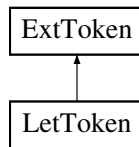
Additional Inherited Members

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

- extToken.h

3.12 LetToken Class Reference

Inheritance diagram for LetToken:



Public Member Functions

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

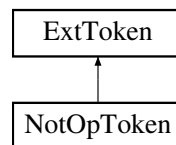
Additional Inherited Members

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

- extToken.h

3.13 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

3.14 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](#) **parseSelfExpr** ()
- [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

3.15 ParseResult Class Reference

Public Attributes

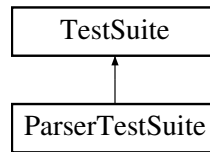
- std::string **errors**
- Node * **ast**
- bool **ok**

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

- parseResult.h
- parseResult.cpp

3.16 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

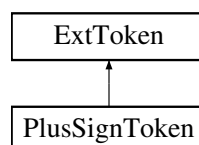
- [Scanner](#) * **s**
- [Parser](#) * **p**

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

- `parser_tests.h`

3.17 PlusSignToken Class Reference

Inheritance diagram for PlusSignToken:



Public Member Functions

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

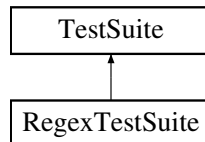
Additional Inherited Members

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

- extToken.h

3.18 RegexTestSuite Class Reference

Inheritance diagram for RegexTestSuite:



Public Member Functions

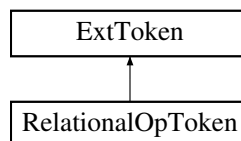
- void **test_make_matchRegex_match** (void)
- void **test_make_matchRegex_no_match** (void)
- void **test_make_matchRegex_match_string_copy** (void)

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

- regex_tests.h

3.19 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

3.20 Scanner Class Reference

Public Member Functions

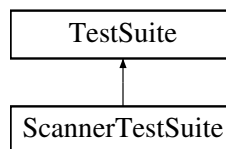
- [Token](#) * **scan** (const char *text)

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

- scanner.h
- scanner.cpp

3.21 ScannerTestSuite Class Reference

Inheritance diagram for ScannerTestSuite:



Public Member Functions

- void **test_setup_code** ()
- void **test_terminal_whileKwd** ()
- void **test_terminal_boolKwd** ()
- void **test_terminal_trueKwd** ()
- void **test_terminal_falseKwd** ()
- void **test_terminal_intKwd** ()
- void **test_terminal_floatKwd** ()
- 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_printKwd** ()
- void **test_terminal_toKwd** ()
- void **test_terminal_intConst** ()
- void **test_terminal_floatConst** ()
- void **test_terminal_stringConst** ()
- void **test_terminal_variableName** ()
- 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_colon** ()

- void **test_terminal_semiColon** ()
- 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_lexicalErrors** ()
- 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

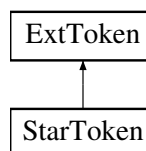
- [Scanner](#) * **s**

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

- scanner_tests.h

3.22 StarToken Class Reference

Inheritance diagram for StarToken:



Public Member Functions

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

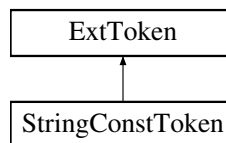
Additional Inherited Members

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

- extToken.h

3.23 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

3.24 Token Class Reference

Public Member Functions

- **Token** (tokenType token, std::string str, int num)
- **Token** (std::string str, tokenType token, int num)

Public Attributes

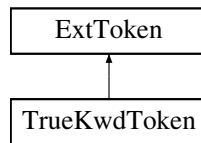
- tokenType **terminal**
- std::string **lexeme**
- [Token](#) * **next**

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

- scanner.h

3.25 TrueKwdToken Class Reference

Inheritance diagram for TrueKwdToken:



Public Member Functions

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

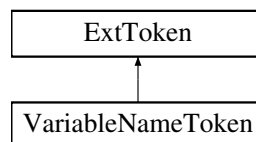
Additional Inherited Members

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

- extToken.h

3.26 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

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