graph-serializer

0.0.0

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Chapter 1

Namespace Index

1.1 Namespace List

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4.1 File List

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src/common/reverted.hpp 93
src/lexer/lexer.hpp 94
src/parser/parser.hpp 97

Chapter 5

Namespace Documentation

5.1 common::opt Namespace Reference

Options for graph This enumeration represents options that graph supports and that alter its API calls behaviour.

Variables

- constexpr std::uint8_t **drc** = 0x01

  is graph directional?
- constexpr std::uint8_t **wgh** = 0x02

  is graph weighted?

5.1.1 Detailed Description

Options for graph This enumeration represents options that graph supports and that alter its API calls behaviour.

Chapter 6

Class Documentation

6.1 common::ActionQueue Class Reference

Queue for actions Stores actions and then allows to dump them when needed.

`#include <action-queue.hpp>`

Public Member Functions

- void **dumpAllActions** ()

  Dump all actions till queue is empty.
- void **dumpAction** ()

  Dump single action from queue.
- void query (std::shared_ptr< IAction > action)

  Add action to queue.

6.1.1 Detailed Description

Queue for actions Stores actions and then allows to dump them when needed.

6.1.2 Member Function Documentation

6.1.2.1 query()

```
void ActionQueue::query (
            std::shared_ptr< IAction > action )
```

Add action to queue.

Parameters

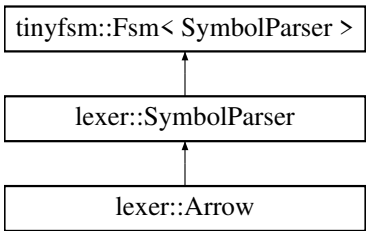
action	action to add

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

- src/common/action-queue.hpp
- src/common/action-queue.cpp

6.2 lexer::Arrow Class Reference

Inheritance diagram for lexer::Arrow:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

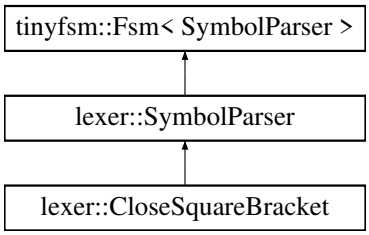
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.3 lexer::CloseSquareBracket Class Reference

Inheritance diagram for lexer::CloseSquareBracket:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)

- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.4 common::Connection Struct Reference

Edge Represents edge without source node.

`#include <common.hpp>`

Public Member Functions

- **Connection** (std::string peer, std::optional< int > weight=std::nullopt) noexcept
- bool **operator==** (const Connection &other) const

Public Attributes

- std::optional< int > **weight**
- std::string **peer**

6.4.1 Detailed Description

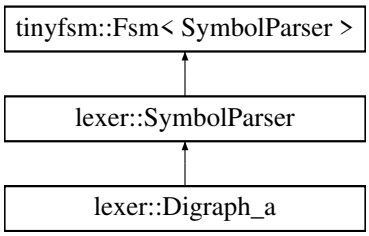
Edge Represents edge without source node.

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

- src/common/common.hpp
- src/common/common.cpp

6.5 lexer::Digraph_a Class Reference

Inheritance diagram for lexer::Digraph_a:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

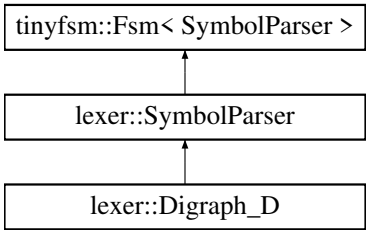
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.6 lexer::Digraph_D Class Reference

Inheritance diagram for lexer::Digraph_D:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

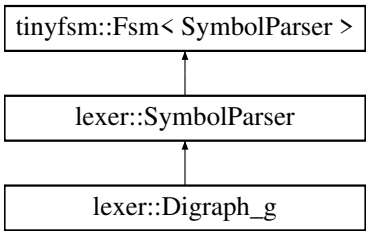
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.7 lexer::Digraph_g Class Reference

Inheritance diagram for lexer::Digraph_g:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)

- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

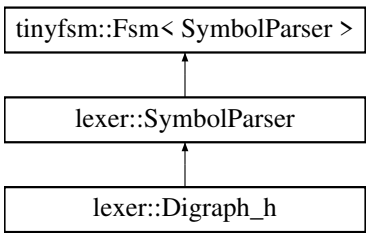
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.8 lexer::Digraph_h Class Reference

Inheritance diagram for lexer::Digraph_h:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

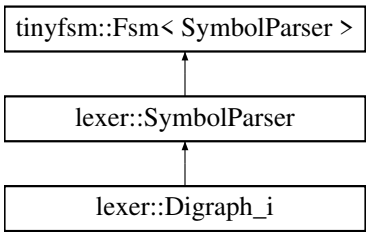
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.9 lexer::Digraph_i Class Reference

Inheritance diagram for lexer::Digraph_i:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

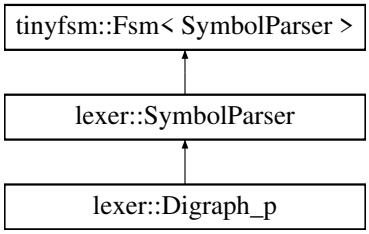
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.10 lexer::Digraph_p Class Reference

Inheritance diagram for lexer::Digraph_p:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

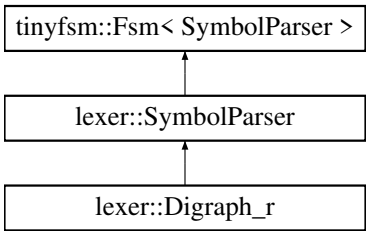
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.11 lexer::Digraph_r Class Reference

Inheritance diagram for lexer::Digraph_r:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)

- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

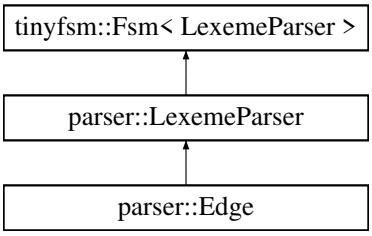
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.12 parser::Edge Class Reference

Inheritance diagram for parser::Edge:



Additional Inherited Members

Public Member Functions inherited from parser::LexemeParser

- virtual void **react** (InputGraphType const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputEdge const &)
- virtual void **react** (InputLabel const &)
- virtual void **react** (InputEqual const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from parser::LexemeParser

- static void **reset** ()

Static Protected Attributes inherited from parser::LexemeParser

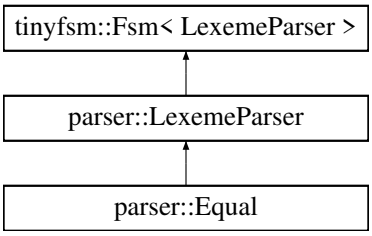
- static SharedState **shared** {}

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

- src/parser/parser.hpp
- src/parser/parser.cpp

6.13 parser::Equal Class Reference

Inheritance diagram for parser::Equal:



Additional Inherited Members

Public Member Functions inherited from parser::LexemeParser

- virtual void **react** (InputGraphType const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputEdge const &)
- virtual void **react** (InputLabel const &)
- virtual void **react** (InputEqual const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from parser::LexemeParser

- static void **reset** ()

Static Protected Attributes inherited from parser::LexemeParser

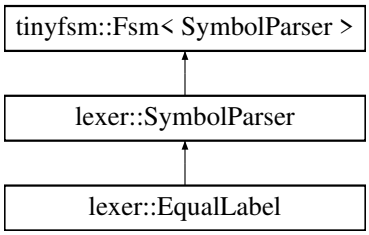
- static SharedState **shared** {}

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

- src/parser/parser.hpp
- src/parser/parser.cpp

6.14 lexer::EqualLabel Class Reference

Inheritance diagram for lexer::EqualLabel:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

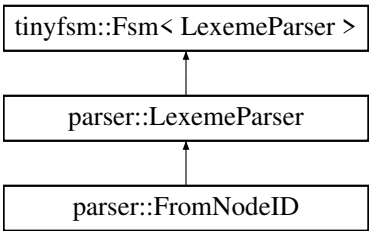
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.15 parser::FromNodeID Class Reference

Inheritance diagram for parser::FromNodeID:



Additional Inherited Members

Public Member Functions inherited from parser::LexemeParser

- virtual void **react** (InputGraphType const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputLabel const &)
- virtual void **react** (InputEqual const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from parser::LexemeParser

- static void **reset** ()

Static Protected Attributes inherited from parser::LexemeParser

- static SharedState **shared** {}

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

- src/parser/parser.hpp
- src/parser/parser.cpp

6.16 common::Graph Class Reference

Graph Represents graph object as lists of connections. Supports some API calls to make life easier.

`#include <common.hpp>`

Public Types

- using **graph_flags_t** = std::uint8_t
- using **connections_t** = std::vector<Connection>
- using **label_container_t** = std::unordered_map<std::string, std::string>
- using **container_t** = std::unordered_map<std::string, connections_t>
- using **container_value_t** = std::pair<std::string, connections_t>

Public Member Functions

- **Graph** () noexcept

  Construct a new Graph object Constructs object and puts it into non-initialized state.
- void init (graph_flags_t flags=0x0) noexcept

  Inits graph object Sets flags and puts object into active mode.
- bool isDirectional () const noexcept

  Checks for drc flag.
- bool isWeighted () const noexcept

  Checks for wgh flag.
- void pushNode (std::string name)

  Adds new node to graph.
- void pushEdge (std::string source, Connection edge)

  Adds new edge to graph.
- void setLabel (std::string source, std::string label)

  Sets label for node.
- bool areConnected (std::string_view source, std::string_view target)

  Checks for connection between nodes.
- std::optional< int > getWeight (std::string_view source, std::string_view target)

  Gets weight of edge.
- std::optional< std::string > getLabel (std::string source) const

  Gets label of node.
- std::string dumpGraphState () const

  Dump graph state to a string.

Public Attributes

- friend **GraphDumpingFactory**

Friends

- std::ostream & **operator<<** (std::ostream &os, const Graph &graph)

6.16.1 Detailed Description

Graph Represents graph object as lists of connections. Supports some API calls to make life easier.

6.16.2 Member Function Documentation

6.16.2.1 areConnected()

```
bool Graph::areConnected (
            std::string_view source,
            std::string_view target )
```

Checks for connection between nodes.

Parameters

source	first node ID
target	second node ID

Returns

true if connection exists

false otherwise

6.16.2.2 dumpGraphState()

```
std::string Graph::dumpGraphState ( ) const
```

Dump graph state to a string.

Returns

std::string graph state

6.16.2.3 getLabel()

```
std::optional< std::string > Graph::getLabel (
            std::string source ) const
```

Gets label of node.

Parameters

source	node ID

Returns

std::optional<std::string> label if exists

6.16.2.4 getWeight()

```
std::optional< int > Graph::getWeight (
            std::string_view source,
            std::string_view target )
```

Gets weight of edge.

Parameters

source	first node ID
target	second node ID

Returns

std::optional<int> weight if exists

6.16.2.5 init()

```
void Graph::init (
            graph_flags_t flags = 0x0 )  [noexcept]
```

Inits graph object Sets flags and puts object into active mode.

Parameters

flags	flags to set

6.16.2.6 isDirectional()

```
bool Graph::isDirectional ( ) const  [noexcept]
```

Checks for drc flag.

Returns

true if graph is directional

false otherwise

6.16.2.7 isWeighted()

```
bool Graph::isWeighted ( ) const  [noexcept]
```

Checks for wgh flag.

Returns

true if graph is weighted

false otherwise

6.16.2.8 pushEdge()

```
void Graph::pushEdge (
            std::string source,
            Connection edge )
```

Adds new edge to graph.

Parameters

source	source node ID
edge	edge to add

6.16.2.9 pushNode()

```
void Graph::pushNode (
            std::string name )
```

Adds new node to graph.

Parameters

name	node ID

6.16.2.10 setLabel()

```
void Graph::setLabel (
            std::string source,
            std::string label )
```

Sets label for node.

Parameters

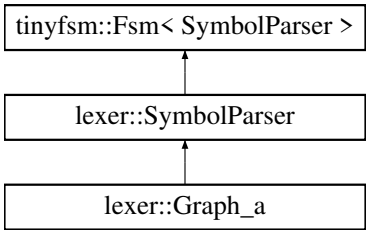
source	node ID
label	label string

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

- src/common/common.hpp
- src/common/common.cpp

6.17 lexer::Graph_a Class Reference

Inheritance diagram for lexer::Graph_a:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

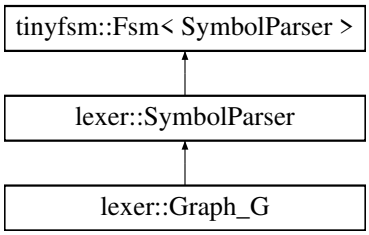
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.18 lexer::Graph_G Class Reference

Inheritance diagram for lexer::Graph_G:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)

- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

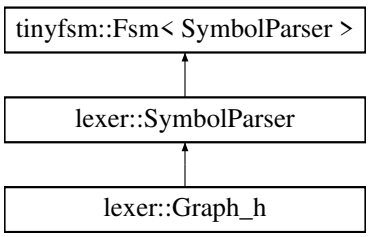
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.19 lexer::Graph_h Class Reference

Inheritance diagram for lexer::Graph_h:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

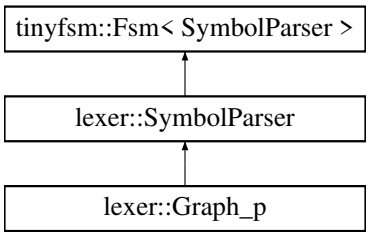
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.20 lexer::Graph_p Class Reference

Inheritance diagram for lexer::Graph_p:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

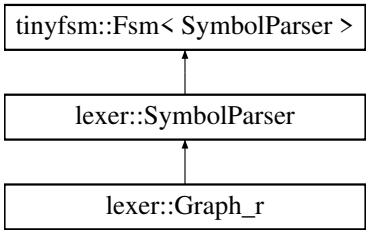
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.21 lexer::Graph_r Class Reference

Inheritance diagram for lexer::Graph_r:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.22 common::GraphDumpingFactory Class Reference

Classes

- struct Settings

Public Member Functions

- GraphDumpingFactory (Settings settings) noexcept

  Construct a new graph dumping factory.
- **GraphDumpingFactory** (GraphDumpingFactory &&) noexcept=default
- **GraphDumpingFactory** (const GraphDumpingFactory &)=delete
- void dumpOne (const Graph &one, std::string_view filename)

  Dumps single graph to a file.

6.22.1 Constructor & Destructor Documentation

6.22.1.1 GraphDumpingFactory()

```
GraphDumpingFactory::GraphDumpingFactory (
            Settings settings )  [noexcept]
```

Construct a new graph dumping factory.

Parameters

settings	settings for this factory

6.22.2 Member Function Documentation

6.22.2.1 dumpOne()

```
void GraphDumpingFactory::dumpOne (
            const Graph & one,
            std::string_view filename )
```

Dumps single graph to a file.

Parameters

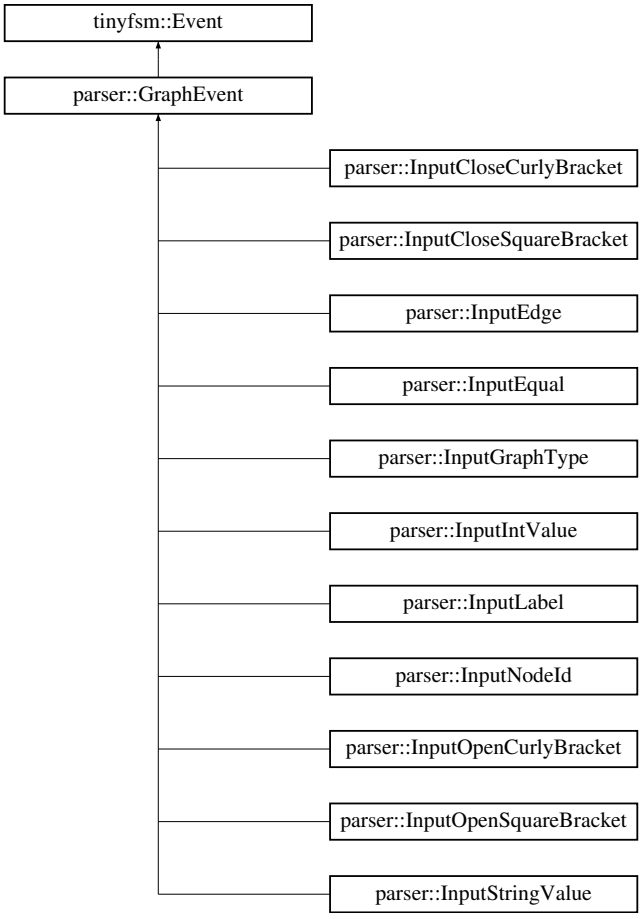
one	target graph object
filename	file to dump to

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

- src/common/reverted.hpp
- src/common/reverted.cpp

6.23 parser::GraphEvent Struct Reference

Inheritance diagram for parser::GraphEvent:

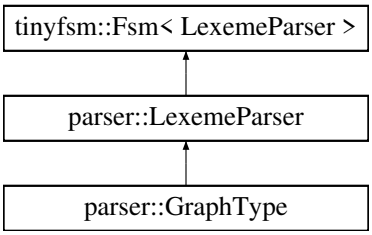


The documentation for this struct was generated from the following file:

- src/parser/parser.hpp

6.24 parser::GraphType Class Reference

Inheritance diagram for parser::GraphType:



Additional Inherited Members

Public Member Functions inherited from parser::LexemeParser

- virtual void **react** (InputGraphType const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputEdge const &)
- virtual void **react** (InputLabel const &)
- virtual void **react** (InputEqual const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from parser::LexemeParser

- static void **reset** ()

Static Protected Attributes inherited from parser::LexemeParser

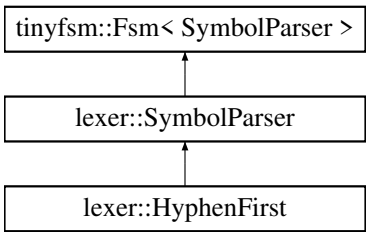
- static SharedState **shared** {}

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

- src/parser/parser.hpp
- src/parser/parser.cpp

6.25 lexer::HyphenFirst Class Reference

Inheritance diagram for lexer::HyphenFirst:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

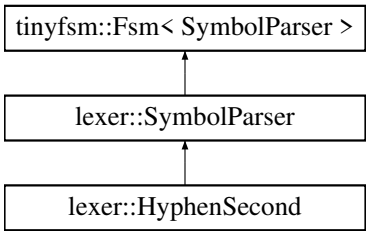
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.26 lexer::HyphenSecond Class Reference

Inheritance diagram for lexer::HyphenSecond:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

- static SharedState **shared** {}

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

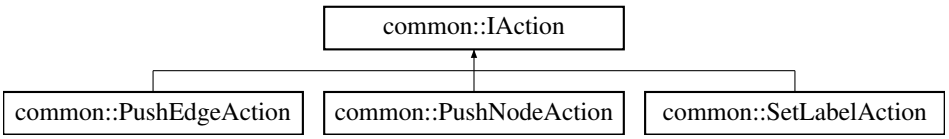
- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.27 common::IAction Class Reference

Callback Interface.

`#include <action-queue.hpp>`

Inheritance diagram for common::IAction:



Public Member Functions

- virtual void make ()=0
  call to action

6.27.1 Detailed Description

Callback Interface.

6.27.2 Member Function Documentation

6.27.2.1 make()

`virtual void common::IAction::make ( )  [pure virtual]`

call to action

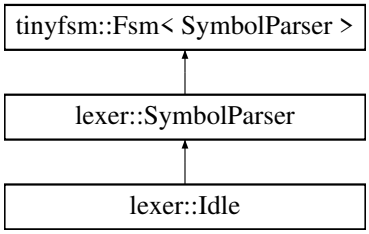
Implemented in common::PushNodeAction, common::SetLabelAction, and common::PushEdgeAction.

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

- src/common/action-queue.hpp

6.28 lexer::Idle Class Reference

Inheritance diagram for lexer::Idle:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

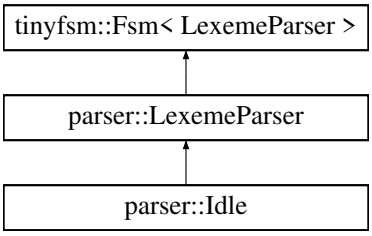
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.29 parser::Idle Class Reference

Inheritance diagram for parser::Idle:



Additional Inherited Members

Public Member Functions inherited from parser::LexemeParser

- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputEdge const &)
- virtual void **react** (InputLabel const &)
- virtual void **react** (InputEqual const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from parser::LexemeParser

- static void **reset** ()

Static Protected Attributes inherited from parser::LexemeParser

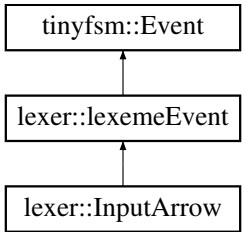
- static SharedState **shared** {}

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

- src/parser/parser.hpp
- src/parser/parser.cpp

6.30 lexer::InputArrow Struct Reference

Inheritance diagram for lexer::InputArrow:

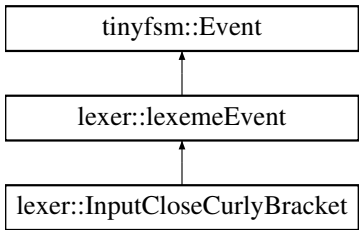


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.31 lexer::InputCloseCurlyBracket Struct Reference

Inheritance diagram for lexer::InputCloseCurlyBracket:

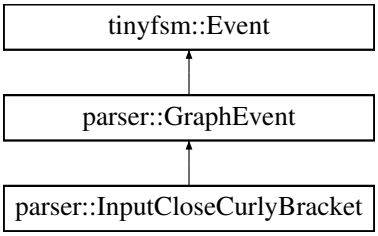


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.32 parser::InputCloseCurlyBracket Struct Reference

Inheritance diagram for parser::InputCloseCurlyBracket:

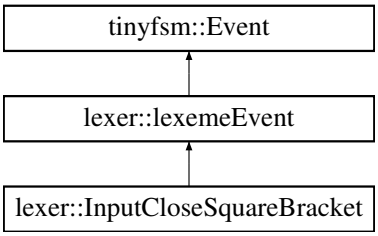


The documentation for this struct was generated from the following file:

- src/parser/parser.hpp

6.33 lexer::InputCloseSquareBracket Struct Reference

Inheritance diagram for lexer::InputCloseSquareBracket:

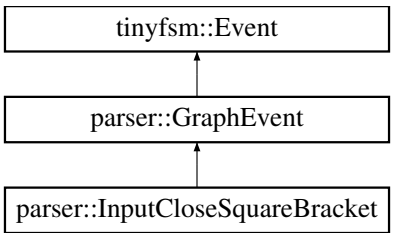


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.34 parser::InputCloseSquareBracket Struct Reference

Inheritance diagram for parser::InputCloseSquareBracket:

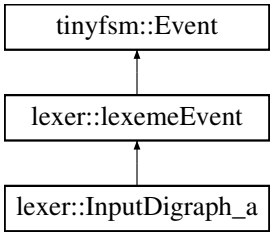


The documentation for this struct was generated from the following file:

- src/parser/parser.hpp

6.35 lexer::InputDigraph_a Struct Reference

Inheritance diagram for lexer::InputDigraph_a:

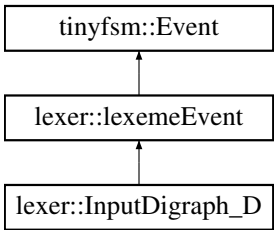


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.36 lexer::InputDigraph_D Struct Reference

Inheritance diagram for lexer::InputDigraph_D:

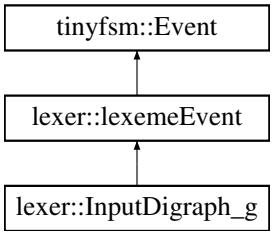


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.37 lexer::InputDigraph_g Struct Reference

Inheritance diagram for lexer::InputDigraph_g:

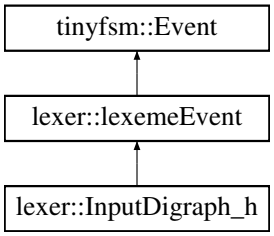


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.38 lexer::InputDigraph_h Struct Reference

Inheritance diagram for lexer::InputDigraph_h:

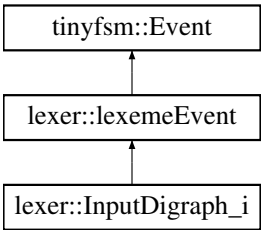


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.39 lexer::InputDigraph_i Struct Reference

Inheritance diagram for lexer::InputDigraph_i:

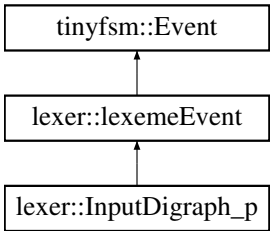


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.40 lexer::InputDigraph_p Struct Reference

Inheritance diagram for lexer::InputDigraph_p:

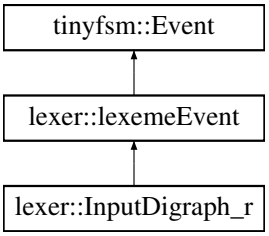


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.41 lexer::InputDigraph_r Struct Reference

Inheritance diagram for lexer::InputDigraph_r:

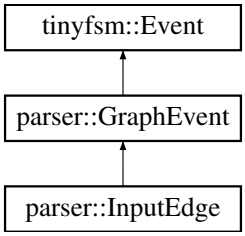


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.42 parser::InputEdge Struct Reference

Inheritance diagram for parser::InputEdge:

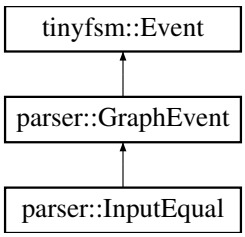


The documentation for this struct was generated from the following file:

- src/parser/parser.hpp

6.43 parser::InputEqual Struct Reference

Inheritance diagram for parser::InputEqual:

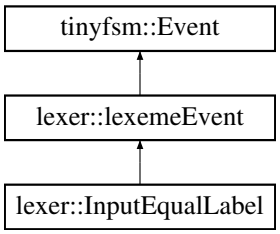


The documentation for this struct was generated from the following file:

- src/parser/parser.hpp

6.44 lexer::InputEqualLabel Struct Reference

Inheritance diagram for lexer::InputEqualLabel:

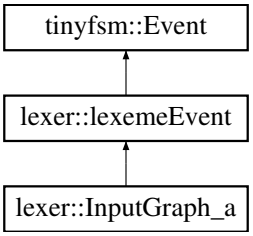


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.45 lexer::InputGraph_a Struct Reference

Inheritance diagram for lexer::InputGraph_a:

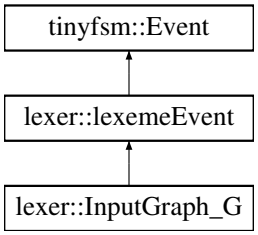


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.46 lexer::InputGraph_G Struct Reference

Inheritance diagram for lexer::InputGraph_G:

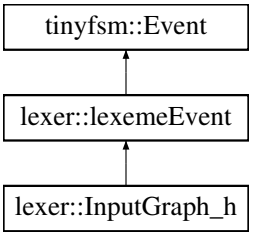


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.47 lexer::InputGraph_h Struct Reference

Inheritance diagram for lexer::InputGraph_h:

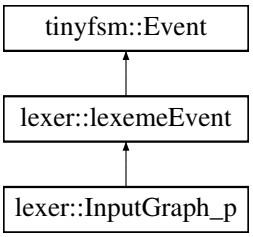


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.48 lexer::InputGraph_p Struct Reference

Inheritance diagram for lexer::InputGraph_p:

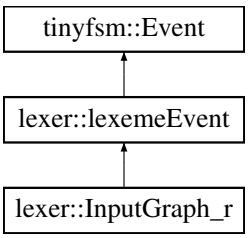


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.49 lexer::InputGraph_r Struct Reference

Inheritance diagram for lexer::InputGraph_r:

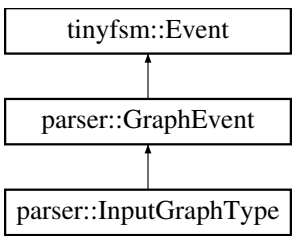


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.50 parser::InputGraphType Struct Reference

Inheritance diagram for parser::InputGraphType:



Public Attributes

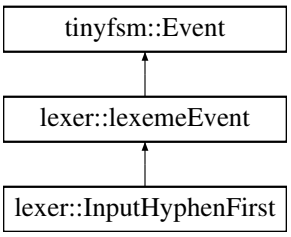
- std::string **graphType**

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

- src/parser/parser.hpp

6.51 lexer::InputHyphenFirst Struct Reference

Inheritance diagram for lexer::InputHyphenFirst:

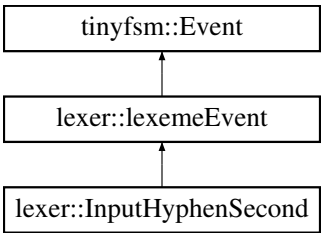


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.52 lexer::InputHyphenSecond Struct Reference

Inheritance diagram for lexer::InputHyphenSecond:

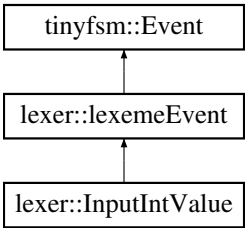


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.53 lexer::InputIntValue Struct Reference

Inheritance diagram for lexer::InputIntValue:



Public Attributes

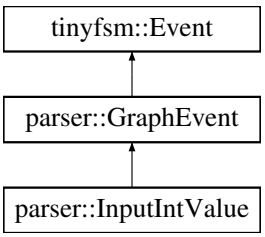
- int **IntValue**

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

- src/lexer/lexer.hpp

6.54 parser::InputIntValue Struct Reference

Inheritance diagram for parser::InputIntValue:



Public Attributes

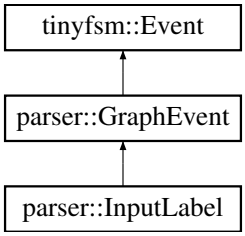
- int **weight**

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

- src/parser/parser.hpp

6.55 parser::InputLabel Struct Reference

Inheritance diagram for parser::InputLabel:

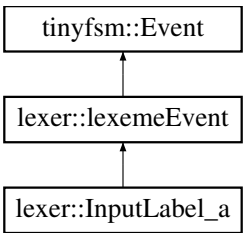


The documentation for this struct was generated from the following file:

- src/parser/parser.hpp

6.56 lexer::InputLabel_a Struct Reference

Inheritance diagram for lexer::InputLabel_a:

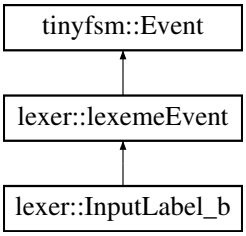


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.57 lexer::InputLabel_b Struct Reference

Inheritance diagram for lexer::InputLabel_b:

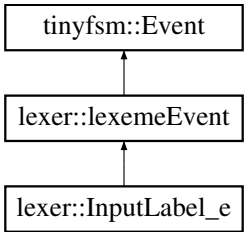


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.58 lexer::InputLabel_e Struct Reference

Inheritance diagram for lexer::InputLabel_e:

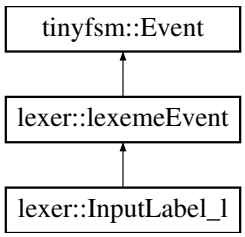


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.59 lexer::InputLabel_l Struct Reference

Inheritance diagram for lexer::InputLabel_l:

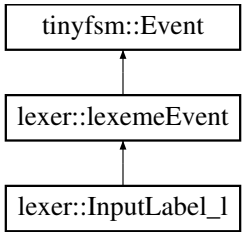


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.60 lexer::InputLabel_L Struct Reference

Inheritance diagram for lexer::InputLabel_L:

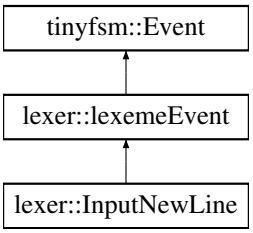


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.61 lexer::InputNewLine Struct Reference

Inheritance diagram for lexer::InputNewLine:

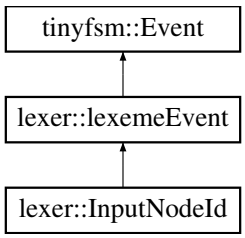


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.62 lexer::InputNodeId Struct Reference

Inheritance diagram for lexer::InputNodeId:



Public Attributes

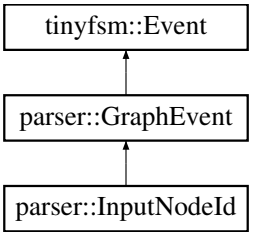
- std::string **NodeId**

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

- src/lexer/lexer.hpp

6.63 parser::InputNodeId Struct Reference

Inheritance diagram for parser::InputNodeId:



Public Attributes

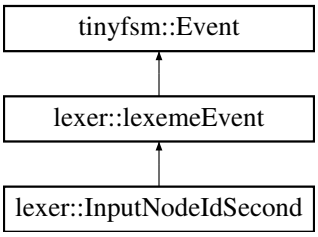
- std::string **NodeID**

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

- src/parser/parser.hpp

6.64 lexer::InputNodeIdSecond Struct Reference

Inheritance diagram for lexer::InputNodeIdSecond:



Public Attributes

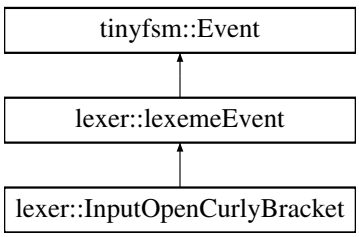
- std::string **NodeIdSecond**

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

- src/lexer/lexer.hpp

6.65 lexer::InputOpenCurlyBracket Struct Reference

Inheritance diagram for lexer::InputOpenCurlyBracket:

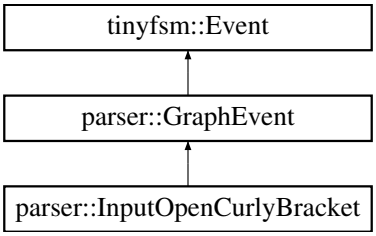


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.66 parser::InputOpenCurlyBracket Struct Reference

Inheritance diagram for parser::InputOpenCurlyBracket:

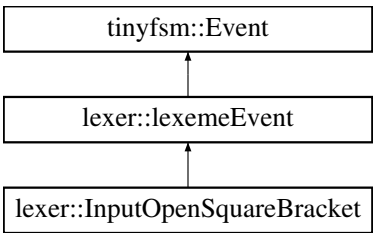


The documentation for this struct was generated from the following file:

- src/parser/parser.hpp

6.67 lexer::InputOpenSquareBracket Struct Reference

Inheritance diagram for lexer::InputOpenSquareBracket:

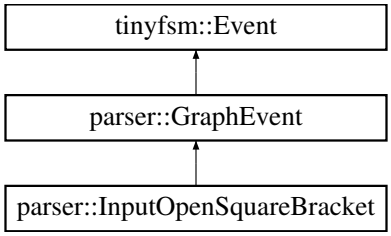


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.68 parser::InputOpenSquareBracket Struct Reference

Inheritance diagram for parser::InputOpenSquareBracket:

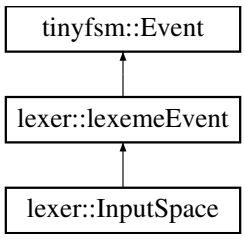


The documentation for this struct was generated from the following file:

- src/parser/parser.hpp

6.69 lexer::InputSpace Struct Reference

Inheritance diagram for lexer::InputSpace:

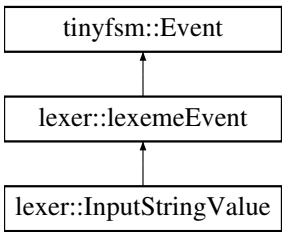


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.70 lexer::InputStringValue Struct Reference

Inheritance diagram for lexer::InputStringValue:



Public Attributes

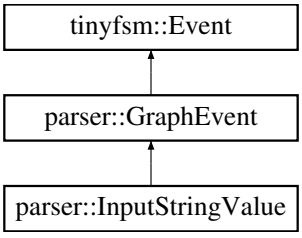
- std::string **StringValue**

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

- src/lexer/lexer.hpp

6.71 parser::InputStringValue Struct Reference

Inheritance diagram for parser::InputStringValue:



Public Attributes

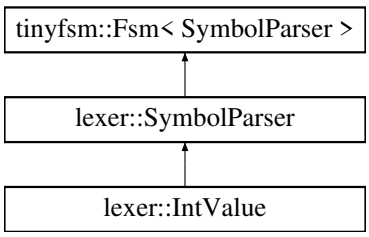
- std::string **label**

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

- src/parser/parser.hpp

6.72 lexer::IntValue Class Reference

Inheritance diagram for lexer::IntValue:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

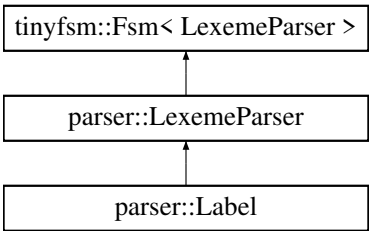
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.73 parser::Label Class Reference

Inheritance diagram for parser::Label:



Additional Inherited Members

Public Member Functions inherited from parser::LexemeParser

- virtual void **react** (InputGraphType const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputEdge const &)
- virtual void **react** (InputLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from parser::LexemeParser

- static void **reset** ()

Static Protected Attributes inherited from parser::LexemeParser

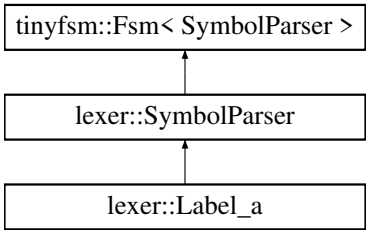
- static SharedState **shared** {}

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

- src/parser/parser.hpp
- src/parser/parser.cpp

6.74 lexer::Label_a Class Reference

Inheritance diagram for lexer::Label_a:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

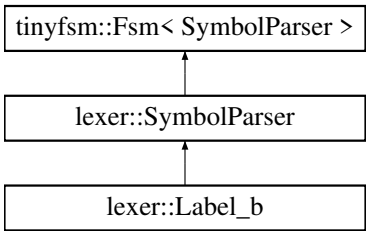
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.75 lexer::Label_b Class Reference

Inheritance diagram for lexer::Label_b:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)

- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

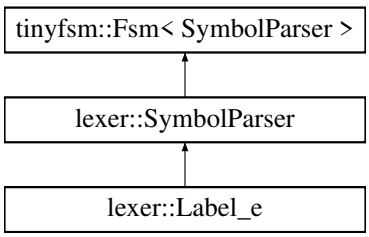
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.76 lexer::Label_e Class Reference

Inheritance diagram for lexer::Label_e:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

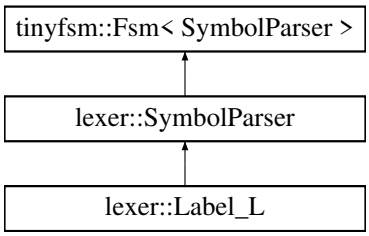
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.77 lexer::Label_L Class Reference

Inheritance diagram for lexer::Label_L:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

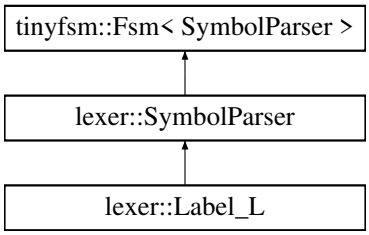
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.78 lexer::Label_l Class Reference

Inheritance diagram for lexer::Label_l:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.79 common::Lexeme Struct Reference

Lexeme Represents single unit of lexer output.

`#include <common.hpp>`

Public Attributes

- LexemeType **type**
- std::any **value**

6.79.1 Detailed Description

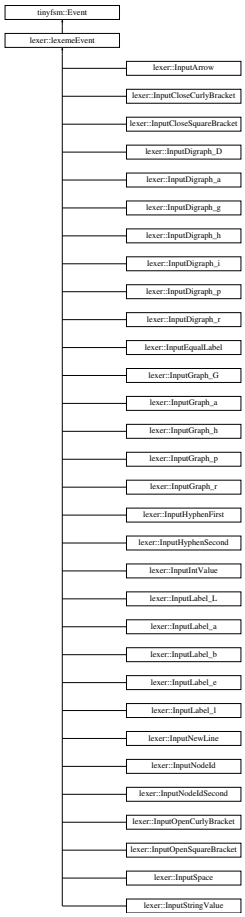
Lexeme Represents single unit of lexer output.

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

- src/common/common.hpp

6.80 lexer::lexemeEvent Struct Reference

Inheritance diagram for lexer::lexemeEvent:

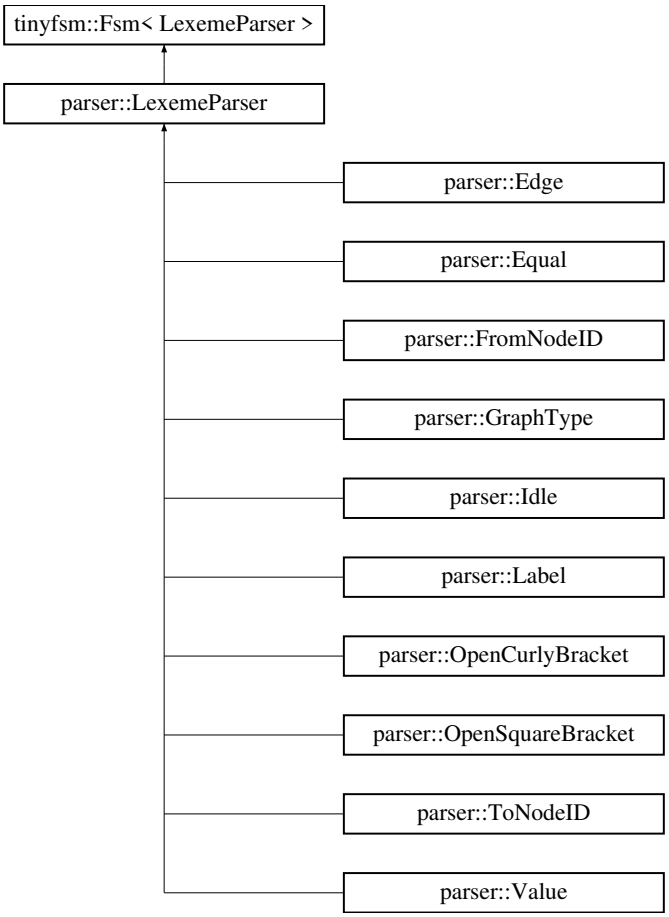


The documentation for this struct was generated from the following file:

- src/lexer/lexer.hpp

6.81 parser::LexemeParser Class Reference

Inheritance diagram for parser::LexemeParser:



Public Member Functions

- virtual void **react** (InputGraphType const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputEdge const &)
- virtual void **react** (InputLabel const &)
- virtual void **react** (InputEqual const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions

- static void **reset** ()

Static Protected Attributes

- static SharedState **shared** {}

Friends

- std::shared_ptr< common::Graph > parse (std::vector< common::Lexeme > &input)

  Parse lexemes vector into graph object.

6.81.1 Friends And Related Symbol Documentation

6.81.1.1 parse

```
std::shared_ptr< common::Graph > parse (
            std::vector< common::Lexeme > & input )  [friend]
```

Parse lexemes vector into graph object.

Parameters

input	lexemes

Returns

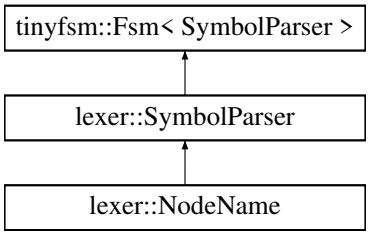
std::shared_ptr<common::Graph> output object

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

- src/parser/parser.hpp
- src/parser/parser.cpp

6.82 lexer::NodeName Class Reference

Inheritance diagram for lexer::NodeName:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)

- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

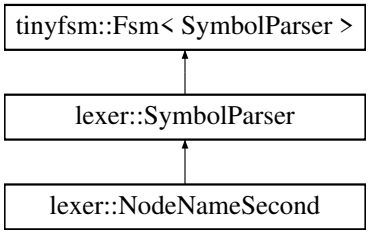
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.83 lexer::NodeNameSecond Class Reference

Inheritance diagram for lexer::NodeNameSecond:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

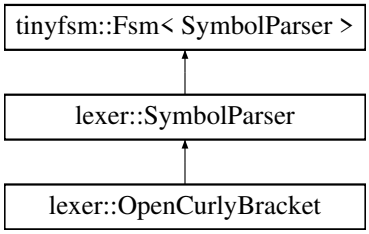
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.84 lexer::OpenCurlyBracket Class Reference

Inheritance diagram for lexer::OpenCurlyBracket:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

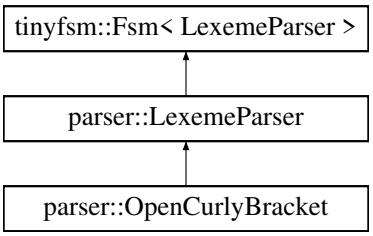
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.85 parser::OpenCurlyBracket Class Reference

Inheritance diagram for parser::OpenCurlyBracket:



Additional Inherited Members

Public Member Functions inherited from parser::LexemeParser

- virtual void **react** (InputGraphType const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputEdge const &)
- virtual void **react** (InputLabel const &)
- virtual void **react** (InputEqual const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from parser::LexemeParser

- static void **reset** ()

Static Protected Attributes inherited from parser::LexemeParser

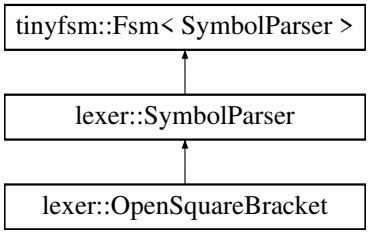
- static SharedState **shared** {}

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

- src/parser/parser.hpp
- src/parser/parser.cpp

6.86 lexer::OpenSquareBracket Class Reference

Inheritance diagram for lexer::OpenSquareBracket:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

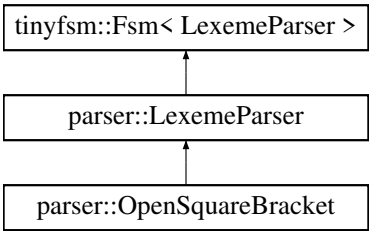
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.87 parser::OpenSquareBracket Class Reference

Inheritance diagram for parser::OpenSquareBracket:



Additional Inherited Members

Public Member Functions inherited from parser::LexemeParser

- virtual void **react** (InputGraphType const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputEdge const &)
- virtual void **react** (InputEqual const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from parser::LexemeParser

- static void **reset** ()

Static Protected Attributes inherited from parser::LexemeParser

- static SharedState **shared** {}

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

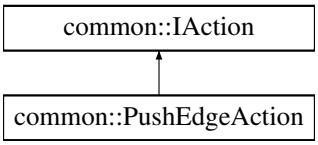
- src/parser/parser.hpp
- src/parser/parser.cpp

6.88 common::PushEdgeAction Class Reference

PushEdge action interface implementation.

`#include <action-queue.hpp>`

Inheritance diagram for common::PushEdgeAction:



Public Types

- using **push_edge_action** = void (common::Graph::∗)(std::string, Connection)

Public Member Functions

- **PushEdgeAction** (push_edge_action action, Graph ∗instance, std::string name, Connection edge)
- virtual void make () override final

  call to action

6.88.1 Detailed Description

PushEdge action interface implementation.

6.88.2 Member Function Documentation

6.88.2.1 make()

```
void PushEdgeAction::make ( )  [final], [override], [virtual]
```

call to action

Implements common::IAction.

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

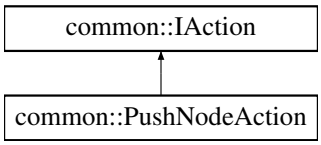
- src/common/action-queue.hpp
- src/common/action-queue.cpp

6.89 common::PushNodeAction Class Reference

PushNode action interface implementation.

`#include <action-queue.hpp>`

Inheritance diagram for common::PushNodeAction:



Public Types

- using **push_node_proto** = void (common::Graph::∗)(std::string)

Public Member Functions

- **PushNodeAction** (push_node_proto action, Graph ∗instance, std::string name)
- virtual void make () override final

  call to action

6.89.1 Detailed Description

PushNode action interface implementation.

6.89.2 Member Function Documentation

6.89.2.1 make()

```
void PushNodeAction::make ( )  [final], [override], [virtual]
```

call to action

Implements common::IAction.

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

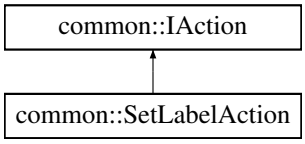
- src/common/action-queue.hpp
- src/common/action-queue.cpp

6.90 common::SetLabelAction Class Reference

SetLabel action interface implementation.

`#include <action-queue.hpp>`

Inheritance diagram for common::SetLabelAction:



Public Types

- using **set_node_label** = void (common::Graph::∗)(std::string, std::string)

Public Member Functions

- **SetLabelAction** (set_node_label action, Graph ∗instance, std::string name, std::string label)
- virtual void make () override final

  call to action

6.90.1 Detailed Description

SetLabel action interface implementation.

6.90.2 Member Function Documentation

6.90.2.1 make()

```
void SetLabelAction::make ( )  [final], [override], [virtual]
```

call to action

Implements common::IAction.

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

- src/common/action-queue.hpp
- src/common/action-queue.cpp

6.91 common::GraphDumpingFactory::Settings Struct Reference

Public Attributes

- bool **verboseWrite** = false

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

- src/common/reverted.hpp

6.92 lexer::SharedState Struct Reference

Public Attributes

- std::vector< common::Lexeme > **tokens**
- std::string **token**
- int **flag_label** = 0
- int **flag_curly** = 0
- int **flag_square** = 0
- int **flag_hyphen** = 0
- int **flag_label_l** = 0
- int **quotes_count** = 0

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

- src/lexer/lexer.hpp

6.93 parser::SharedState Struct Reference

Public Attributes

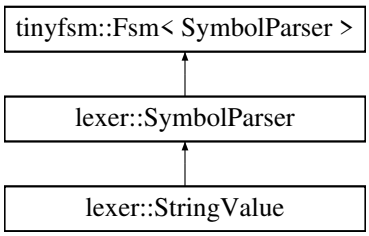
- std::shared_ptr< common::Graph > **graph**
- common::ActionQueue **backoffQueue**
- common::ActionQueue **actionQueue**
- std::string **fromNodeId**
- std::string **toNodeId**
- std::string **label**
- std::string **expectedValue**
- std::uint8_t **flags** = 0x0
- int **weight** = -1

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

- src/parser/parser.hpp

6.94 lexer::StringValue Class Reference

Inheritance diagram for lexer::StringValue:



Additional Inherited Members

Public Member Functions inherited from lexer::SymbolParser

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)
- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from lexer::SymbolParser

- static void **reset** ()

Static Public Attributes inherited from lexer::SymbolParser

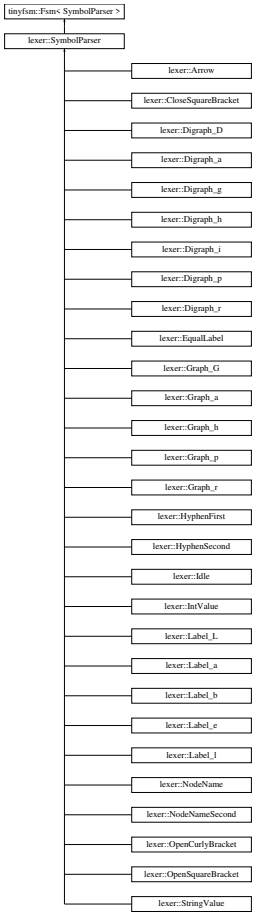
- static SharedState **shared** {}

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.95 lexer::SymbolParser Class Reference

Inheritance diagram for lexer::SymbolParser:



Public Member Functions

- virtual void **react** (InputDigraph_D const &)
- virtual void **react** (InputDigraph_i const &)
- virtual void **react** (InputDigraph_g const &)
- virtual void **react** (InputDigraph_r const &)
- virtual void **react** (InputDigraph_a const &)
- virtual void **react** (InputDigraph_p const &)
- virtual void **react** (InputDigraph_h const &)

- virtual void **react** (InputGraph_G const &)
- virtual void **react** (InputGraph_r const &)
- virtual void **react** (InputGraph_a const &)
- virtual void **react** (InputGraph_p const &)
- virtual void **react** (InputGraph_h const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputNodeIdSecond const &)
- virtual void **react** (InputSpace const &)
- virtual void **react** (InputNewLine const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputHyphenFirst const &)
- virtual void **react** (InputHyphenSecond const &)
- virtual void **react** (InputArrow const &)
- virtual void **react** (InputLabel_L const &)
- virtual void **react** (InputLabel_a const &)
- virtual void **react** (InputLabel_b const &)
- virtual void **react** (InputLabel_e const &)
- virtual void **react** (InputLabel_l const &)
- virtual void **react** (InputEqualLabel const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions

- static void **reset** ()

Static Public Attributes

- static SharedState **shared** {}

Friends

- std::vector< common::Lexeme > lex (const std::string &input)

  Lex string.

6.95.1 Friends And Related Symbol Documentation

6.95.1.1 lex

```
std::vector< common::Lexeme > lex (
            const std::string & input )  [friend]
```

Lex string.

Parameters

input	string to lex

Returns

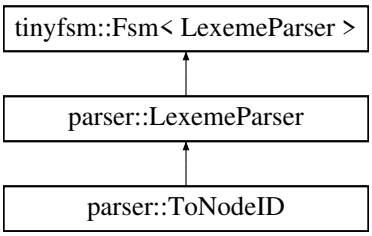
std::vector<common::Lexeme> output lexemes

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

- src/lexer/lexer.hpp
- src/lexer/lexer.cpp

6.96 parser::ToNodeID Class Reference

Inheritance diagram for parser::ToNodeID:



Additional Inherited Members

Public Member Functions inherited from parser::LexemeParser

- virtual void **react** (InputGraphType const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseSquareBracket const &)
- virtual void **react** (InputEdge const &)
- virtual void **react** (InputLabel const &)
- virtual void **react** (InputEqual const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from parser::LexemeParser

- static void **reset** ()

Static Protected Attributes inherited from parser::LexemeParser

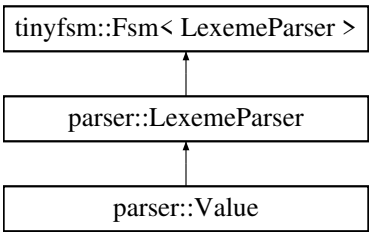
- static SharedState **shared** {}

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

- src/parser/parser.hpp
- src/parser/parser.cpp

6.97 parser::Value Class Reference

Inheritance diagram for parser::Value:



Additional Inherited Members

Public Member Functions inherited from parser::LexemeParser

- virtual void **react** (InputGraphType const &)
- virtual void **react** (InputOpenCurlyBracket const &)
- virtual void **react** (InputCloseCurlyBracket const &)
- virtual void **react** (InputNodeId const &)
- virtual void **react** (InputOpenSquareBracket const &)
- virtual void **react** (InputEdge const &)
- virtual void **react** (InputLabel const &)
- virtual void **react** (InputEqual const &)
- virtual void **react** (InputStringValue const &)
- virtual void **react** (InputIntValue const &)
- void **entry** ()
- void **exit** ()

Static Public Member Functions inherited from parser::LexemeParser

- static void **reset** ()

Static Protected Attributes inherited from parser::LexemeParser

- static SharedState **shared** {}

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

- src/parser/parser.hpp
- src/parser/parser.cpp

Chapter 7

File Documentation

7.1 action-queue.hpp

```
00001 #pragma once
00002
00003 // standard
00004 #include <memory>
00005 #include <string>
00006 #include <queue>
00007
00008 // local
00009 #include "common.hpp"
00010
00011
00012 namespace common {
00013
00017     class IAction {
00018     public:
00022         virtual void make() = 0;
00023     };
00024
00028     class PushNodeAction : public IAction {
00029     public:
00030         using push_node_proto = void (common::Graph::*)(std::string);
00031
00032         PushNodeAction(push_node_proto action, Graph* instance, std::string name);
00033         // IAction
00034         virtual void make() override final;
00035
00036     private:
00037         push_node_proto action_;
00038         Graph* this_;
00039         std::string name_;
00040     };
00041
00045     class SetLabelAction : public IAction {
00046     public:
00047         using set_node_label = void (common::Graph::*)(std::string, std::string);
00048
00049         SetLabelAction(set_node_label action, Graph* instance, std::string name, std::string label);
00050         // IAction
00051         virtual void make() override final;
00052
00053     private:
00054         set_node_label action_;
00055         Graph* this_;
00056         std::string name_;
00057         std::string label_;
00058     };
00059
00063     class PushEdgeAction : public IAction {
00064     public:
00065         using push_edge_action = void (common::Graph::*)(std::string, Connection);
00066
00067         PushEdgeAction(push_edge_action action, Graph* instance, std::string name, Connection edge);
00068         // IAction
00069         virtual void make() override final;
00070
00071     private:
00072         push_edge_action action_;
00073         Graph* this_;
```

```
00074         std::string name_;
00075         Connection edge_;
00076     };
00077
00082     class ActionQueue {
00083     public:
00084
00088         void dumpAllActions();
00089
00093         void dumpAction();
00094
00099         void query(std::shared_ptr<IAction> action);
00100
00101     private:
00102         std::queue<std::shared_ptr<IAction» actions_;
00103     };
00104
00105 }
```

7.2 common.hpp

```
00001 #pragma once
00002
00003 // standard
00004 #include <unordered_map>
00005 #include <string_view>
00006 #include <optional>
00007 #include <cstdint>
00008 #include <utility>
00009 #include <ostream>
00010 #include <memory>
00011 #include <string>
00012 #include <vector>
00013 #include <any>
00014
00015 namespace common {
00016
00017     // class to invert graph parsing (write it back)
00018     class GraphDumpingFactory;
00019
00026     namespace opt {
00027         inline constexpr std::uint8_t drc = 0x01;
00028         inline constexpr std::uint8_t wgh = 0x02;
00029     } // namespace opt
00030
00035     enum class LexemeType : std::uint8_t {
00036         GRAPH_START_LABEL = 0,
00037         OPEN_CURLY_BRACKET = 1,
00038         NODE_ID = 2,
00039         POINTED_ARROW = 3,
00040         FLAT_ARROW = 4,
00041         OPEN_SQUARE_BRACKET = 5,
00042         LABEL_ATTRIBUTE = 6,
00043         EQUALS_SIGN = 7,
00044         ATTRIBUTE_STRING_VALUE = 8,
00045         ATTRIBUTE_INT_VALUE = 9,
00046         CLOSED_CURLY_BRACKET = 10,
00047         CLOSED_SQUARE_BRACKET = 11
00048     };
00049
00054     struct Lexeme {
00055         LexemeType type;
00056         std::any value;
00057     };
00058
00063     struct Connection {
00064         // std::nullopt for non-weighted graphs
00065         std::optional<int> weight;
00066         // Peer
00067         std::string peer;
00068
00069         Connection(std::string peer, std::optional<int> weight = std::nullopt) noexcept;
00070         bool operator==(const Connection& other) const;
00071     };
00072
00078     class Graph {
00079     public:
00080
00081         using graph_flags_t = std::uint8_t;
00082         using connections_t = std::vector<Connection>;
00083         using label_container_t = std::unordered_map<std::string, std::string>;
00084         using container_t = std::unordered_map<std::string, connections_t>;
00085         using container_value_t = std::pair<std::string, connections_t>;
```

```
00086
00091         Graph() noexcept;
00092
00098         void init(graph_flags_t flags = 0x0) noexcept;
00099
00105         bool isDirectional() const noexcept;
00106
00112         bool isWeighted() const noexcept;
00113
00118         void pushNode(std::string name);
00119
00125         void pushEdge(std::string source, Connection edge);
00126
00132         void setLabel(std::string source, std::string label);
00133
00141         bool areConnected(std::string_view source, std::string_view target);
00142
00149         std::optional<int> getWeight(std::string_view source, std::string_view target);
00150
00156         std::optional<std::string> getLabel(std::string source) const;
00157
00162         std::string dumpGraphState() const;
00163
00164         friend std::ostream& operator<<(std::ostream& os, const Graph& graph);
00165         friend GraphDumpingFactory;
00166
00167     private:
00168         void insert(std::string_view source, Connection edge);
00169         connections_t::iterator findConnection(std::string_view source, std::string_view target);
00170
00171     private:
00172         std::uint8_t flags_;
00173         std::unique_ptr<container_t> connections_;
00174         std::unique_ptr<label_container_t> labels_;
00175     };
00176
00177     std::ostream& operator<<(std::ostream& os, const Graph& graph);
00178
00179 } // namespace common
```

7.3 reverted.hpp

```
00001 #pragma once
00002
00003 // standard
00004 #include <unordered_map>
00005 #include <string_view>
00006 #include <optional>
00007 #include <fstream>
00008 #include <utility>
00009 #include <ostream>
00010 #include <memory>
00011 #include <string>
00012 #include <vector>
00013 #include <any>
00014
00015 // local
00016 #include <common/common.hpp>
00017
00018
00019 namespace common {
00020
00021     class GraphDumpingFactory {
00022     public:
00023         struct Settings {
00024             bool verboseWrite = false;
00025         };
00026         // constructors
00031         GraphDumpingFactory(Settings settings) noexcept;
00032         GraphDumpingFactory(GraphDumpingFactory&&) noexcept = default;
00033         GraphDumpingFactory(const GraphDumpingFactory&) = delete;
00034
00040         void dumpOne(const Graph& one, std::string_view filename);
00041
00042     private:
00043         void dumpGraphMetadata(const Graph& unit);
00044         void dumpGraphNodes(const Graph& unit);
00045         void dumpGraphEdges(const Graph& unit);
00046         void trail(const Graph& unit);
00047
00048         void error(const std::string& message);
00049
00050     private:
```

```
00051         Settings settings_;
00052         std::ofstream ofs_;
00053     };
00054
00055 }
```

7.4 lexer.hpp

```
00001 #pragma once
00002
00003 // standard
00004 #include <vector>
00005 #include <string>
00006
00007 // internal
00008 #include <common/common.hpp>
00009
00010 // contrib
00011 #include <tinyfsm.hpp>
00012
00013 namespace lexer {
00014     inline void throw_invalid_input(std::string message) {
00015         throw std::runtime_error(message);
00016     }
00017
00018     struct SharedState {
00019         std::vector<common::Lexeme> tokens;
00020         std::string token;
00021
00022         int flag_label = 0;
00023         int flag_curly = 0;
00024         int flag_square = 0;
00025         int flag_hyphen = 0;
00026         int flag_label_l = 0;
00027         int quotes_count = 0;
00028     };
00029
00030     // ------------------------------------------------------------------------
00031     // 1. Event Declarations
00032     //
00033     struct lexemeEvent               : tinyfsm::Event {};
00034     struct InputDigraph_D            : lexemeEvent {};
00035     struct InputDigraph_i            : lexemeEvent {};
00036     struct InputDigraph_g            : lexemeEvent {};
00037     struct InputDigraph_r            : lexemeEvent {};
00038     struct InputDigraph_a            : lexemeEvent {};
00039     struct InputDigraph_p            : lexemeEvent {};
00040     struct InputDigraph_h            : lexemeEvent {};
00041     struct InputGraph_G              : lexemeEvent {};
00042     struct InputGraph_r              : lexemeEvent {};
00043     struct InputGraph_a              : lexemeEvent {};
00044     struct InputGraph_p              : lexemeEvent {};
00045     struct InputGraph_h              : lexemeEvent {};
00046     struct InputOpenCurlyBracket     : lexemeEvent {};
00047     struct InputCloseCurlyBracket    : lexemeEvent {};
00048     struct InputOpenSquareBracket    : lexemeEvent {};
00049     struct InputCloseSquareBracket   : lexemeEvent {};
00050     struct InputHyphenFirst          : lexemeEvent {};
00051     struct InputHyphenSecond         : lexemeEvent {};
00052     struct InputArrow                : lexemeEvent {};
00053     struct InputLabel_L              : lexemeEvent {};
00054     struct InputLabel_a              : lexemeEvent {};
00055     struct InputLabel_b              : lexemeEvent {};
00056     struct InputLabel_e              : lexemeEvent {};
00057     struct InputLabel_l              : lexemeEvent {};
00058     struct InputEqualLabel           : lexemeEvent {};
00059     struct InputSpace                : lexemeEvent {};
00060     struct InputNewLine              : lexemeEvent {};
00061     struct InputNodeId               : lexemeEvent {std::string NodeId; };
00062     struct InputNodeIdSecond         : lexemeEvent {std::string NodeIdSecond; };
00063     struct InputStringValue          : lexemeEvent {std::string StringValue; };
00064     struct InputIntValue             : lexemeEvent {int IntValue; };
00065
00066     // ------------------------------------------------------------------------
00067     // 2. State Machine Base Class Declaration
00068     //
00069     class SymbolParser : public tinyfsm::Fsm<SymbolParser> {
00070     public:
00071         virtual void react(InputDigraph_D const &)          { throw_invalid_input(""); };
00072         virtual void react(InputDigraph_i const &)          { throw_invalid_input(""); };
00073         virtual void react(InputDigraph_g const &)          { throw_invalid_input(""); };
00074         virtual void react(InputDigraph_r const &)          { throw_invalid_input(""); };
00075         virtual void react(InputDigraph_a const &)          { throw_invalid_input(""); };
```

```
00076         virtual void react(InputDigraph_p const &)          { throw_invalid_input(""); };
00077         virtual void react(InputDigraph_h const &)          { throw_invalid_input(""); };
00078         virtual void react(InputGraph_G const &)            { throw_invalid_input(""); };
00079         virtual void react(InputGraph_r const &)            { throw_invalid_input(""); };
00080         virtual void react(InputGraph_a const &)            { throw_invalid_input(""); };
00081         virtual void react(InputGraph_p const &)            { throw_invalid_input(""); };
00082         virtual void react(InputGraph_h const &)            { throw_invalid_input(""); };
00083         virtual void react(InputOpenCurlyBracket const &)   { throw_invalid_input(""); };
00084         virtual void react(InputCloseCurlyBracket const &)  { throw_invalid_input(""); };
00085         virtual void react(InputNodeId const &)             { throw_invalid_input(""); };
00086         virtual void react(InputNodeIdSecond const &)       { throw_invalid_input(""); };
00087         virtual void react(InputSpace const &)              { throw_invalid_input(""); };
00088         virtual void react(InputNewLine const &)            { throw_invalid_input(""); };
00089         virtual void react(InputOpenSquareBracket const &)  { throw_invalid_input(""); };
00090         virtual void react(InputCloseSquareBracket const &) { throw_invalid_input(""); };
00091         virtual void react(InputHyphenFirst  const &)       { throw_invalid_input(""); };
00092         virtual void react(InputHyphenSecond const &)       { throw_invalid_input(""); };
00093         virtual void react(InputArrow const &)              { throw_invalid_input(""); };
00094         virtual void react(InputLabel_L  const &)           { throw_invalid_input(""); };
00095         virtual void react(InputLabel_a  const &)           { throw_invalid_input(""); };
00096         virtual void react(InputLabel_b  const &)           { throw_invalid_input(""); };
00097         virtual void react(InputLabel_e  const &)           { throw_invalid_input(""); };
00098         virtual void react(InputLabel_l  const &)           { throw_invalid_input(""); };
00099         virtual void react(InputEqualLabel const &)         { throw_invalid_input(""); };
00100         virtual void react(InputStringValue const &)        { throw_invalid_input(""); };
00101         virtual void react(InputIntValue const &)           { throw_invalid_input(""); };
00102
00103
00104         static void reset();
00105         void entry();  /* entry actions in some states */
00106         void exit();  /* no exit actions */
00107
00108         friend std::vector<common::Lexeme> lex(const std::string& input);
00109
00110         inline static SharedState shared {};
00111     };
00112
00113     // ------------------------------------------------------------------------
00114     // 3. State Declarations
00115     //
00116     class Idle : public SymbolParser {
00117         void react(InputDigraph_D const &) override;
00118         void react(InputGraph_G const &) override;
00119         void react(InputSpace const &) override;
00120         void react(InputNewLine const &) override;
00121     };
00122
00123     class Digraph_D : public SymbolParser {
00124         void react(InputDigraph_i const &) override;
00125     };
00126     class Digraph_i : public SymbolParser {
00127         void react(InputDigraph_g const &) override;
00128     };
00129     class Digraph_g : public SymbolParser {
00130         void react(InputDigraph_r const &) override;
00131     };
00132     class Digraph_r : public SymbolParser {
00133         void react(InputDigraph_a const &) override;
00134     };
00135     class Digraph_a : public SymbolParser {
00136         void react(InputDigraph_p const &) override;
00137     };
00138     class Digraph_p : public SymbolParser {
00139         void react(InputDigraph_h const &) override;
00140     };
00141     class Digraph_h : public SymbolParser {
00142         void react(InputOpenCurlyBracket const &) override;
00143         void react(InputSpace const &) override;
00144     };
00145
00146     class Graph_G : public SymbolParser {
00147         void react(InputGraph_r const &) override;
00148     };
00149     class Graph_r : public SymbolParser {
00150         void react(InputGraph_a const &) override;
00151     };
00152     class Graph_a : public SymbolParser {
00153         void react(InputGraph_p const &) override;
00154     };
00155     class Graph_p : public SymbolParser {
00156         void react(InputGraph_h const &) override;
00157     };
00158     class Graph_h : public SymbolParser {
00159         void react(InputOpenCurlyBracket const &) override;
00160         void react(InputSpace const &) override;
00161     };
00162
```

```
00163     class OpenCurlyBracket : public SymbolParser {
00164         void react(InputNodeId const &) override;
00165         void react(InputCloseCurlyBracket const &) override;
00166         void react(InputSpace const &) override;
00167         void react(InputNewLine const &) override;
00168     };
00169
00170     class NodeName : public SymbolParser {
00171         void react(InputOpenSquareBracket const &) override;
00172         void react(InputCloseCurlyBracket const &) override;
00173         void react(InputHyphenFirst const &) override;
00174         void react(InputSpace const &) override;
00175         void react(InputNewLine const &) override;
00176     };
00177
00178     class OpenSquareBracket : public SymbolParser {
00179         void react(InputLabel_L const &) override;
00180         void react(InputSpace const &) override;
00181         void react(InputCloseSquareBracket const &) override;
00182     };
00183
00184     class HyphenFirst : public SymbolParser {
00185         void react(InputHyphenSecond const &) override;
00186         void react(InputArrow const &) override;
00187     };
00188
00189     class HyphenSecond : public SymbolParser {
00190         void react(InputNodeIdSecond const &) override;
00191         void react(InputSpace const &) override;
00192     };
00193
00194     class Arrow : public SymbolParser {
00195         void react(InputNodeIdSecond const &) override;
00196         void react(InputSpace const &) override;
00197     };
00198
00199     class NodeNameSecond : public SymbolParser {
00200         void react(InputOpenSquareBracket const &) override;
00201         void react(InputCloseCurlyBracket const &) override;
00202         void react(InputNewLine const &) override;
00203         void react(InputSpace const &) override;
00204     };
00205
00206
00207     class Label_L : public SymbolParser {
00208         void react(InputLabel_a const &) override;
00209     };
00210     class Label_a : public SymbolParser {
00211         void react(InputLabel_b const &) override;
00212     };
00213     class Label_b : public SymbolParser {
00214         void react(InputLabel_e const &) override;
00215     };
00216     class Label_e : public SymbolParser {
00217         void react(InputLabel_l const &) override;
00218     };
00219     class Label_l : public SymbolParser {
00220         void react(InputEqualLabel const &) override;
00221         void react(InputSpace const &) override;
00222     };
00223     class EqualLabel : public SymbolParser {
00224         void react(InputStringValue const &) override;
00225         void react(InputIntValue const &) override;
00226         void react(InputSpace const &) override;
00227     };
00228     class StringValue : public SymbolParser {
00229         void react(InputCloseSquareBracket const &) override;
00230         void react(InputSpace const &) override;
00231     };
00232     class IntValue : public SymbolParser {
00233         void react(InputCloseSquareBracket const &) override;
00234         void react(InputSpace const &) override;
00235     };
00236
00237     class CloseSquareBracket : public SymbolParser {
00238         void react(InputNodeId const &) override;
00239         void react(InputCloseCurlyBracket const &) override;
00240         void react(InputSpace const &) override;
00241         void react(InputNewLine const &) override;
00242     };
00243
00249     std::vector<common::Lexeme> lex(const std::string& input);
00250 }
```

7.5 parser.hpp

```
00001 #pragma once
00002
00003 // standard
00004 #include <cstdint>
00005 #include <memory>
00006 #include <string>
00007
00008 // internal
00009 #include <common/action-queue.hpp>
00010 #include <common/common.hpp>
00011
00012 // contrib
00013 #include <tinyfsm.hpp>
00014
00015
00016 namespace parser {
00017     inline void throw_invalid_input(std::string message) {
00018         throw std::runtime_error(message);
00019     }
00020
00021     struct SharedState {
00022         std::shared_ptr<common::Graph> graph;
00023
00024         common::ActionQueue backoffQueue;
00025         common::ActionQueue actionQueue;
00026
00027         std::string fromNodeId;
00028         std::string toNodeId;
00029         std::string label;
00030         std::string expectedValue;
00031
00032         std::uint8_t flags = 0x0;
00033         int weight = -1;
00034     };
00035
00036     // ----------------------------------------------------------------------------
00037     // 1. Event Declarations
00038     //
00039     struct GraphEvent               : tinyfsm::Event {};
00040     struct InputOpenCurlyBracket    : GraphEvent {};
00041     struct InputCloseCurlyBracket   : GraphEvent {};
00042     struct InputOpenSquareBracket   : GraphEvent {};
00043     struct InputCloseSquareBracket  : GraphEvent {};
00044     struct InputEdge                : GraphEvent {};
00045     struct InputLabel               : GraphEvent {};
00046     struct InputEqual               : GraphEvent {};
00047     struct InputGraphType           : GraphEvent { std::string graphType; };
00048     struct InputNodeId              : GraphEvent { std::string NodeID; };
00049     struct InputStringValue         : GraphEvent { std::string label; };
00050     struct InputIntValue            : GraphEvent { int weight; };
00051
00052
00053     // ----------------------------------------------------------------------------
00054     // 2. State Machine Base Class Declaration
00055     //
00056     class LexemeParser : public tinyfsm::Fsm<LexemeParser> {
00057     public:
00058         virtual void react(InputGraphType const &)          {};
00059         virtual void react(InputOpenCurlyBracket const &)   { throw_invalid_input(""); };
00060         virtual void react(InputCloseCurlyBracket const &)  { throw_invalid_input(""); };
00061         virtual void react(InputNodeId const &)             { throw_invalid_input(""); };
00062         virtual void react(InputOpenSquareBracket const &)  { throw_invalid_input(""); };
00063         virtual void react(InputCloseSquareBracket const &) { throw_invalid_input(""); };
00064         virtual void react(InputEdge const &)               { throw_invalid_input(""); };
00065         virtual void react(InputLabel const &)              { throw_invalid_input(""); };
00066         virtual void react(InputEqual const &)              { throw_invalid_input(""); };
00067         virtual void react(InputStringValue const &)        { throw_invalid_input(""); };
00068         virtual void react(InputIntValue const &)           { throw_invalid_input(""); };
00069
00070         static void reset();
00071         void entry();  /* entry actions in some states */
00072         void exit();  /* no exit actions */
00073
00074         friend std::shared_ptr<common::Graph> parse(std::vector<common::Lexeme>& input);
00075
00076     protected:
00077         inline static SharedState shared {};
00078     };
00079
00080
00081     // ----------------------------------------------------------------------------
00082     // 3. State Declarations
00083     //
00084     class Idle : public LexemeParser {
00085         void react(InputGraphType const &) override;
```

```
00086     };
00087
00088     class GraphType : public LexemeParser {
00089         void react(InputOpenCurlyBracket const &) override;
00090     };
00091
00092     class OpenCurlyBracket : public LexemeParser {
00093         void react(InputNodeId const &) override;
00094         void react(InputCloseCurlyBracket const &) override;
00095     };
00096
00097     class FromNodeID : public LexemeParser {
00098         void react(InputCloseCurlyBracket const&) override;
00099         void react(InputOpenSquareBracket const&) override;
00100         void react(InputEdge const&) override;
00101         void react(InputNodeId const&) override;
00102     };
00103
00104     class OpenSquareBracket : public LexemeParser {
00105         void react(InputLabel const &) override;
00106     };
00107
00108     class Edge : public LexemeParser {
00109         void react(InputNodeId const &) override;
00110     };
00111
00112     class ToNodeID : public LexemeParser {
00113         void react(InputOpenSquareBracket const &) override;
00114         void react(InputNodeId const& ) override;
00115         void react(InputCloseCurlyBracket const&) override;
00116     };
00117
00118     class Label : public LexemeParser {
00119         void react(InputEqual const &) override;
00120     };
00121
00122     class Equal : public LexemeParser {
00123         void react(InputStringValue const &) override;
00124         void react(InputIntValue const &) override;
00125     };
00126
00127     class Value : public LexemeParser {
00128         void react(InputCloseSquareBracket const &) override;
00129     };
00130
00136     std::shared_ptr<common::Graph> parse(std::vector<common::Lexeme>& input);
00137 }
```

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