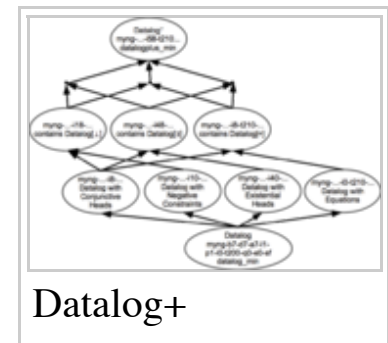


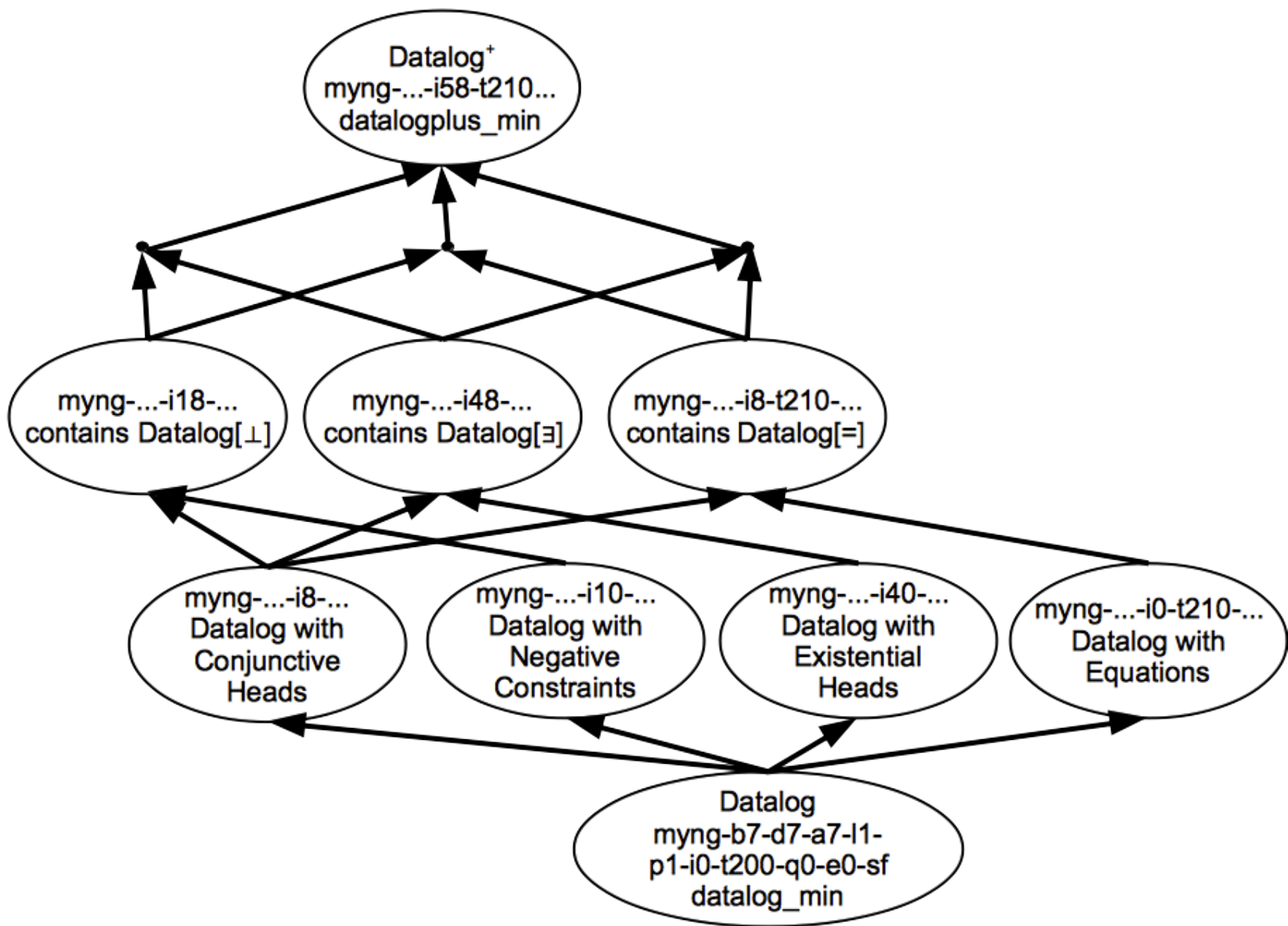
MYNG of Deliberation RuleML 1.01 Demo

From RuleML Wiki

This page (http://wiki.ruleml.org/index.php/MYNG_of_Deliberation_RuleML_1.01_Demo) provides a quick demonstration of MYNG for customizing sublanguages of Deliberation RuleML 1.01 . Key new features include:

- Integration of new Relax NG schema modules -- and the RuleML sublanguages they define -- into MYNG, e.g.
 - Datalog⁺, Hornlog⁺, and their many extensions
 - Improved functionality of the MYNG GUI and REST interface, e.g.
 - GUI access to automatically-generated monolithic XSD schemas that are compatible with XML tools, e.g. JAXB.
 - Display of myng-code and myng-code-based schema URLs.
-



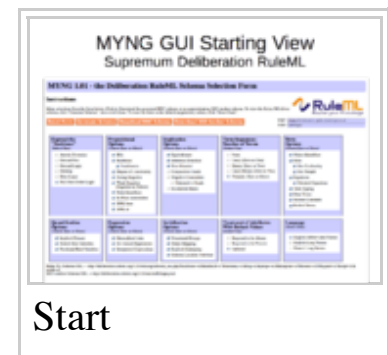


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- 1 Quick Tour of the GUI
- 2 Configuring a Custom Relax NG Schema
- 3 Usage of Customized Schemas
- 4 References

1 Quick Tour of the GUI

- Open the MYNG GUI at <http://deliberation.ruleml.org/1.01/myng>.
- The selection form opens with the supremum language selected:
 - Clicking the Reset Form button will always return to this selection.
 - The RNC field gives the myng-code for this language (myng-b3f-d7-a7-11-p3ff-i7f-tf3f-q7-ef-sf).
 - The XSD field gives the name of the best approximating anchor language (naffologeq).
 - The two rows of five boxes with blue backgrounds group the configuration options into semantically-related facets, which will be discussed in greater detail below.



MYNG GUI Starting View

Supremum Deliberation RuleML

MYNG 1.01 - the Deliberation RuleML Schema Selection Form

Instructions

Make selections from the form below. Click to Download the generated RNC schema or an approximating XSD anchor schema. To view the Relax NG driver schema, click "Generate Schema", then scroll down. To reset the form to the default (supremum) values, click "Reset Form".



[Reset Form](#) [Generate Schema](#) [Download RNC Schema](#) [Download XSD Anchor Schema](#)

RNC: myng-b3f-d7-a7-11-p3ff-i7f-tf3f-q7-ef-sf

XSD: naffollegeq

Expressivity "Backbone" (Select One)

- ☐ Atomic Formulas
- ☐ Ground Fact
- ☐ Ground Logic
- ☐ Datalog
- ☐ Horn Logic
- ☒ Full First-Order Logic

Propositional Options (Check Zero or More)

- ☒ IRIs
- ☒ Rulebases
- ☒ Entailments
- ☒ Degree of Uncertainty
- ☒ Strong Negation
- ☒ Weak Negation
(Negation as Failure)
- ☒ Node Identifiers
- ☒ In-Place Annotation
- ☒ XML base
- ☒ XML id

Implication Options (Check Zero or More)

- ☒ Equivalences
- ☒ Inference Direction
- ☒ Non-Material
- ☒ Conjunctive Heads
- ☒ Negative Constraints
- ☒ Disjunctive Heads
- ☒ Existential Heads

Term Sequences: Number of Terms (Select One)

- ☐ None
- ☐ Unary (Zero or One)
- ☐ Binary (Zero or Two)
- ☐ Unary/Binary (Zero to Two)
- ☒ Polyadic (Zero or More)

Term Options (Check Zero or More)

- ☒ Object Identifiers
- ☒ Slots
- ☒ Slot Cardinality
- ☒ Slot Weight
- ☒ Equations
- ☒ Oriented Equations
- ☒ Term Typing
- ☒ Data Terms
- ☒ Skolem Constants
- ☒ Reified Terms

Quantification Options (Check Zero or More)

- ☒ Implicit Closure
- ☒ Slotted Rest Variables
- ☒ Positional Rest Variables

Expression Options (Check Zero or More)

- ☒ Generalized Lists
- ☒ Set-valued Expressions
- ☒ Interpreted Expressions

Serialization Options (Check Zero or More)

- ☒ Unordered Groups
- ☒ Stripe-Skipping
- ☒ Explicit Datatyping
- ☒ Schema Location Attribute

Treatment of Attributes With Default Values (Select One)

- ☐ Required to be Absent
- ☐ Required to be Present
- ☒ Optional

Language (Select One)

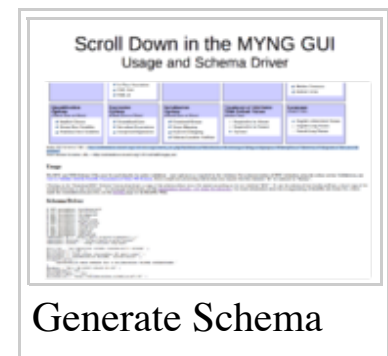
- ☒ English Abbreviated Names
- ☐ English Long Names
- ☐ French Long Names

Relax NG Schema URL = http://deliberation.ruleml.org/1.01/relaxng/schema_rnc.php?backbone=x3f&default=x7&termseq=x7&lng=x1&propo=x3ff&implies=x7f&terms=xf3f&quant=x7&expr=xf&serial=xf
XSD Anchor Schema URL = <http://deliberation.ruleml.org/1.01/xsd/naffollegeq.xsd>

- Below the facets, two URLs are given
 - Relax NG Schema URL = http://deliberation.ruleml.org/1.01/relaxng/schema_rnc.php?backbone=x3f&default=x7&termseq=x7&lng=x1&propo=x3ff&implies=x7f&terms=xf3f&quant=x7&expr=xf&serial=xf

This is the MYNG REST call with query string to obtain the driver schema corresponding to the selections, which can also be reached using the myng-code (<http://deliberation.ruleml.org/1.01/relaxng#myng-code>) URL <http://deliberation.ruleml.org/1.01/myng-b3f-d7-a7-11-p3ff-i7f-tf3f-q7-ef-sf.rnc> .
 - XSD Anchor Schema URL = <http://deliberation.ruleml.org/1.01/xsd/naffologeq.xsd>

This is the URL for the monolithic XSD schema of the anchor language naffologeq.
- Clicking the Generate Schema button initiates a request to the MYNG REST interface which produces a copy of the Relax NG Schema at the bottom of the page.
- Buttons are also available for downloading the indicated RNC and XSD schemas.



Scroll Down in the MYNG GUI

Usage and Schema Driver

	<input checked="" type="checkbox"/> In-Place Annotation <input checked="" type="checkbox"/> XML base <input checked="" type="checkbox"/> XML id			<input checked="" type="checkbox"/> Skolem Constants <input checked="" type="checkbox"/> Reified Terms
Quantification Options (Check Zero or More)	Expression Options (Check Zero or More)	Serialization Options (Check Zero or More)	Treatment of Attributes With Default Values (Select One)	Language (Select One)
<input checked="" type="checkbox"/> Implicit Closure <input checked="" type="checkbox"/> Slotted Rest Variables <input checked="" type="checkbox"/> Positional Rest Variables	<input checked="" type="checkbox"/> Generalized Lists <input checked="" type="checkbox"/> Set-valued Expressions <input checked="" type="checkbox"/> Interpreted Expressions	<input checked="" type="checkbox"/> Unordered Groups <input checked="" type="checkbox"/> Stripe-Skipping <input checked="" type="checkbox"/> Explicit Datatyping <input checked="" type="checkbox"/> Schema Location Attribute	<input type="radio"/> Required to be Absent <input type="radio"/> Required to be Present <input checked="" type="radio"/> Optional	<input checked="" type="radio"/> English Abbreviated Names <input type="radio"/> English Long Names <input type="radio"/> French Long Names

Relax NG Schema URL = http://deliberation.ruleml.org/1.01/relaxng/schema_rnc.php?backbone=x3f&default=x7&termseq=x7&lng=x1&propo=x3ff&implies=x7f&terms=xf3f&quant=x7&expr=xf&serial=xf
 XSD Anchor Schema URL = <http://deliberation.ruleml.org/1.01/xsd/naffologeq.xsd>

Usage

The RNC and XSD Schema URLs may be used directly for online validation - copy and paste as required by the validator. For a demonstration of RNC validation using the online service Validator.nu, see [How to Validate with the RuleML Parameterized Relax NG Schema](#). Some scripts and processing instructions may require that the character "&" be replaced by "&#amp;".

Clicking on the "Download RNC Schema" button downloads a copy of the schema driver into a file named according to the text labelled "RNC". To use the schema driver locally (offline), a local copy of the modules directory is also necessary - for download instructions, see the [Deliberation RuleML 1.01 Relax NG Directory](#). For more information about the re-engineering of RuleML into Relax NG, which made this modularization possible, see the [MYNG](#) page on the RuleML Wiki.

Schema Driver

```
# GET parameter: backbone=x3f
# GET parameter: default=x7
# GET parameter: termseq=x7
# GET parameter: lng=x1
# GET parameter: propo=x3ff
# GET parameter: implies=x7f
# GET parameter: terms=xf3f
# GET parameter: quant=x7
# GET parameter: expr=xf
# GET parameter: serial=xf
namespace dc = "http://purl.org/dc/elements/1.1/"
namespace dcterms = "http://purl.org/dc/terms/"
namespace ruleml = "http://ruleml.org/spec"

dc:title [ "Deliberation RuleML Custom-Built Schema" ]
dc:version [ "1.01" ]
dc:creator [ "Tara Athan (taraathan AT gmail.com)" ]
dc:subject [ "Deliberation RuleML, custom-built" ]
dc:description [
  "custom-built main module for a Deliberation RuleML sublanguage."
]
dc:date [ "2014-08-02T17:24:23-04:00" ]
dc:language [ "en" ]
dcterms:rights [ "TBD" ]
dc:relation [ "http://deliberation.ruleml.org/1.01" ]
```

2 Configuring a Custom Relax NG Schema

We will configure the RuleML sublanguage called "disdatalogplus_mid". Its features include Disjunctive Rules ("dis"), Datalog expressivity ("datalog"), Conjunctive Rules, Existential Rules, and Equality ("plus"), and an assortment of Deliberation RuleML extras such as reification and annotation ("_mid").

- Expressivity Backbone:
 - This is a radio button input where we Select One Expressivity Level.
 - For this example, we select the Datalog level of expressivity: corresponding to function-free Horn Logic.
 - Also all the Expression Options (second row of facets) become disabled, because Datalog is function-free, so expression options are irrelevant.
 - Notice that the "b" (backbone) and "e" (expressions) components of the myng-code change.
 - Notice that the anchor language changes to "nafnegdishornlogplus". This is not an exact approximation.



Selection of Expressivity Datalog

[Reset Form](#) [Generate Schema](#) [Download RNC Schema](#) [Download XSD Anchor Schema](#)

RNC: mylog-b7-7-a7-l1-p3ff-i7f-tf3f-a7-e0-sf
XSD: nafnegdishornlogplus

Expressivity "Backbone" (Select One)

- ☐ Atomic Formulas
- ☐ Ground Fact
- ☐ Ground Logic
- ☒ Datalog
- ☐ Horn Logic
- ☐ Full First-Order Logic

Propositional Options (Check Zero or More)

- ☒ IRIs
- ☒ Rulebases
 - ☒ Entailments
- ☒ Degree of Uncertainty
- ☒ Strong Negation
- ☒ Weak Negation (Negation as Failure)
- ☒ Node Identifiers
- ☒ In-Place Annotation
- ☒ XML base
- ☒ XML id

Implication Options (Check Zero or More)

- ☒ Equivalences
- ☒ Inference Direction
- ☒ Non-Material
- ☒ Conjunctive Heads
- ☒ Negative Constraints
 - ☒ Disjunctive Heads
- ☒ Existential Heads

Term Sequences: Number of Terms (Select One)

- ☐ None
- ☐ Unary (Zero or One)
- ☐ Binary (Zero or Two)
- ☐ Unary/Binary (Zero to Two)
- ☒ Polyadic (Zero or More)

Term Options (Check Zero or More)

- ☒ Object Identifiers
- ☒ Slots
 - ☒ Slot Cardinality
 - ☒ Slot Weight
- ☒ Equations
 - ☒ Oriented Equations
- ☒ Term Typing
- ☒ Data Terms
- ☒ Skolem Constants
- ☒ Reified Terms

Quantification Options (Check Zero or More)

- ☒ Implicit Closure
- ☒ Slotted Rest Variables
- ☒ Positional Rest Variables

Expression Options (Check Zero or More)

- ☐ Generalized Lists
- ☐ Set-valued Expressions
- ☐ Interpreted Expressions

Serialization Options (Check Zero or More)

- ☒ Unordered Groups
- ☒ Stripe-Skipping
- ☒ Explicit Datatyping
- ☒ Schema Location Attribute

Treatment of Attributes With Default Values (Select One)

- ☐ Required to be Absent
- ☐ Required to be Present
- ☒ Optional

Language (Select One)

- ☒ English Abbreviated Names
- ☐ English Long Names
- ☐ French Long Names

- Propositional Options:
 - Let's disable the Degree of Uncertainty option, which is only needed for Fuzzy Logic.
 - We'll also disable Rulebases and both kinds of Negation.
 - Notice that the "p" (propositional) component of the myng-code changes.
- Implication Options:
 - We'll disable Equivalences.
 - New in Version 1.01: Disjunctive Logic is not an Expressivity Level, as it was in Version 1.0. Disjunction (Or) in the heads of rules now may be mixed-in with any Expressivity Level
 - Notice that the "i" (implication) component of the myng-code changes.

Selection of Propositional Options
No Rulebases, Fuzzy Logic or Negations

Option	Selected
Rulebases	<input type="checkbox"/>
Negation	<input type="checkbox"/>
Disjunction	<input type="checkbox"/>
Conjunction	<input type="checkbox"/>
Degree of Uncertainty	<input type="checkbox"/>
Implication	<input type="checkbox"/>
Equivalence	<input type="checkbox"/>
Other	<input type="checkbox"/>

Propositional Options

Selection of Implication Options
No Equivalences

Option	Selected
Implication	<input type="checkbox"/>
Disjunction	<input type="checkbox"/>
Conjunction	<input type="checkbox"/>
Equivalence	<input type="checkbox"/>
Other	<input type="checkbox"/>

Implication Options

Selection of Propositional Options

No Rulebases, Fuzzy Logic or Negations

[Reset Form](#) [Generate Schema](#) [Download RNC Schema](#) [Download XSD Anchor Schema](#)

RNC: myng-b7-d7-a7-1-p3c1-i7f-tf3f-q7-e0-sf
XSD: nafnegdishornlogplac

Expressivity "Backbone" (Select One) <ul style="list-style-type: none"><input type="radio"/> Atomic Formulas<input type="radio"/> Ground Fact<input type="radio"/> Ground Logic<input checked="" type="radio"/> Datalog<input type="radio"/> Horn Logic<input type="radio"/> Full First-Order Logic	Propositional Options (Check Zero or More) <ul style="list-style-type: none"><input checked="" type="checkbox"/> IRIs<input type="checkbox"/> Rulebases<input type="checkbox"/> Entailments<input type="checkbox"/> Degree of Uncertainty<input type="checkbox"/> Strong Negation<input type="checkbox"/> Weak Negation (Negation as Failure)<input checked="" type="checkbox"/> Node Identifiers<input checked="" type="checkbox"/> In-Place Annotation<input checked="" type="checkbox"/> XML base<input checked="" type="checkbox"/> XML id	Implication Options (Check Zero or More) <ul style="list-style-type: none"><input checked="" type="checkbox"/> Equivalences<input checked="" type="checkbox"/> Inference Direction<input checked="" type="checkbox"/> Non-Material<input checked="" type="checkbox"/> Conjunctive Heads<input checked="" type="checkbox"/> Negative Constraints<input checked="" type="checkbox"/> Disjunctive Heads<input checked="" type="checkbox"/> Existential Heads	Term Sequences: Number of Terms (Select One) <ul style="list-style-type: none"><input type="radio"/> None<input type="radio"/> Unary (Zero or One)<input type="radio"/> Binary (Zero or Two)<input type="radio"/> Unary/Binary (Zero to Two)<input checked="" type="radio"/> Polyadic (Zero or More)	Term Options (Check Zero or More) <ul style="list-style-type: none"><input checked="" type="checkbox"/> Object Identifiers<input checked="" type="checkbox"/> Slots<ul style="list-style-type: none"><input checked="" type="checkbox"/> Slot Cardinality<input checked="" type="checkbox"/> Slot Weight<input checked="" type="checkbox"/> Equations<ul style="list-style-type: none"><input checked="" type="checkbox"/> Oriented Equations<input checked="" type="checkbox"/> Term Typing<input checked="" type="checkbox"/> Data Terms<input checked="" type="checkbox"/> Skolem Constants<input checked="" type="checkbox"/> Reified Terms
Quantification Options (Check Zero or More) <ul style="list-style-type: none"><input checked="" type="checkbox"/> Implicit Closure<input checked="" type="checkbox"/> Slotted Rest Variables<input checked="" type="checkbox"/> Positional Rest Variables	Expression Options (Check Zero or More) <ul style="list-style-type: none"><input type="checkbox"/> Generalized Lists<input type="checkbox"/> Set-valued Expressions<input type="checkbox"/> Interpreted Expressions	Serialization Options (Check Zero or More) <ul style="list-style-type: none"><input checked="" type="checkbox"/> Unordered Groups<input checked="" type="checkbox"/> Stripe-Skipping<input checked="" type="checkbox"/> Explicit Datatyping<input checked="" type="checkbox"/> Schema Location Attribute	Treatment of Attributes With Default Values (Select One) <ul style="list-style-type: none"><input type="radio"/> Required to be Absent<input type="radio"/> Required to be Present<input checked="" type="radio"/> Optional	Language (Select One) <ul style="list-style-type: none"><input checked="" type="radio"/> English Abbreviated Names<input type="radio"/> English Long Names<input type="radio"/> French Long Names

Selection of Implication Options

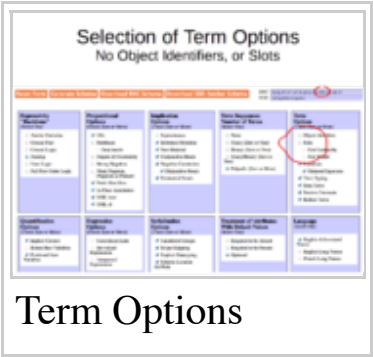
No Equivalences

[Reset Form](#) [Generate Schema](#) [Download RNC Schema](#) [Download XSD Anchor Schema](#)

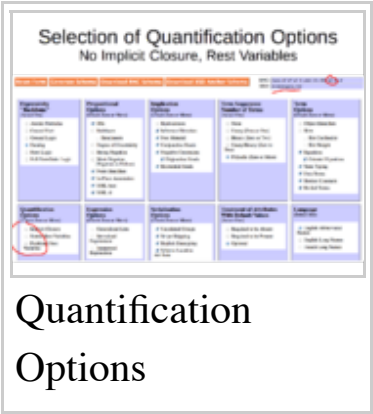
RNC: myng-b7-d7-a7-l1-p3c1-l7e-f3f-q7-e0-sf
XSD: nafnegdishornlogplus

Expressivity "Backbone" (Select One) <ul style="list-style-type: none"><input type="radio"/> Atomic Formulas<input type="radio"/> Ground Fact<input type="radio"/> Ground Logic<input checked="" type="radio"/> Datalog<input type="radio"/> Horn Logic<input type="radio"/> Full First-Order Logic	Propositional Options (Check Zero or More) <ul style="list-style-type: none"><input checked="" type="checkbox"/> IRIs<input type="checkbox"/> Rulebases<ul style="list-style-type: none"><input type="checkbox"/> Entailments<input type="checkbox"/> Degree of Uncertainty<input type="checkbox"/> Strong Negation<input type="checkbox"/> Weak Negation (Negation as Failure)<input checked="" type="checkbox"/> Node Identifiers<input checked="" type="checkbox"/> In-Place Annotation<input checked="" type="checkbox"/> XML base<input checked="" type="checkbox"/> XML id	Implication Options (Check Zero or More) <ul style="list-style-type: none"><input type="checkbox"/> Equivalences<input checked="" type="checkbox"/> Inference Direction<input checked="" type="checkbox"/> Non-Material<input checked="" type="checkbox"/> Conjunctive Heads<input checked="" type="checkbox"/> Negative Constraints<ul style="list-style-type: none"><input checked="" type="checkbox"/> Disjunctive Heads<input checked="" type="checkbox"/> Existential Heads	Term Sequences: Number of Terms (Select One) <ul style="list-style-type: none"><input type="radio"/> None<input type="radio"/> Unary (Zero or One)<input type="radio"/> Binary (Zero or Two)<input type="radio"/> Unary/Binary (Zero to Two)<input checked="" type="radio"/> Polyadic (Zero or More)	Term Options (Check Zero or More) <ul style="list-style-type: none"><input checked="" type="checkbox"/> Object Identifiers<input checked="" type="checkbox"/> Slots<ul style="list-style-type: none"><input checked="" type="checkbox"/> Slot Cardinality<input checked="" type="checkbox"/> Slot Weight<input checked="" type="checkbox"/> Equations<ul style="list-style-type: none"><input checked="" type="checkbox"/> Oriented Equations<input checked="" type="checkbox"/> Term Typing<input checked="" type="checkbox"/> Data Terms<input checked="" type="checkbox"/> Skolem Constants<input checked="" type="checkbox"/> Reified Terms
Quantification Options (Check Zero or More) <ul style="list-style-type: none"><input checked="" type="checkbox"/> Implicit Closure<input checked="" type="checkbox"/> Slotted Rest Variables<input checked="" type="checkbox"/> Positional Rest Variables	Expression Options (Check Zero or More) <ul style="list-style-type: none"><input type="checkbox"/> Generalized Lists<input type="checkbox"/> Set-valued Expressions<input type="checkbox"/> Interpreted Expressions	Serialization Options (Check Zero or More) <ul style="list-style-type: none"><input checked="" type="checkbox"/> Unordered Groups<input checked="" type="checkbox"/> Stripe-Skipping<input checked="" type="checkbox"/> Explicit Datatyping<input checked="" type="checkbox"/> Schema Location Attribute	Treatment of Attributes With Default Values (Select One) <ul style="list-style-type: none"><input type="radio"/> Required to be Absent<input type="radio"/> Required to be Present<input checked="" type="radio"/> Optional	Language (Select One) <ul style="list-style-type: none"><input checked="" type="radio"/> English Abbreviated Names<input type="radio"/> English Long Names<input type="radio"/> French Long Names

- Term Sequences
 - We keep Polyadic Term Sequences
- Term Options
 - Disable the frame options: Object Identifiers and Slots.
 - Notice that the "t" (terms) component of the myng-code changes.
- Quantification Options
 - Disable all of them.
 - Notice that the "q" (quantification) component of the myng-code changes.
- The anchor language now reads "disdatalogplus_mid".
 - This is one of the RuleML sublanguages that is newly available in Version 1.01.
 - Recent research^[1] has shown that with some additional constraints, querying becomes decidable in these languages.
 - The additional constraints are too complex to implement directly in Relax NG or XSD, but may be possible in Schematron.



Term Options



Quantification Options

Selection of Term Options

No Object Identifiers, or Slots

[Reset Form](#) [Generate Schema](#) [Download RNC Schema](#) [Download XSD Anchor Schema](#)

RNC: myng-b7-d7-a7-l1-p3c1-l7e-tf30-c5-e0-sf
XSD: nafnegdishornlogplus

Expressivity "Backbone" (Select One)

- ☐ Atomic Formulas
- ☐ Ground Fact
- ☐ Ground Logic
- ☒ Datalog
- ☐ Horn Logic
- ☐ Full First-Order Logic

Propositional Options (Check Zero or More)

- ☒ IRIs
- ☐ Rulebases
 - ☐ Entailments
- ☐ Degree of Uncertainty
- ☐ Strong Negation
- ☐ Weak Negation (Negation as Failure)
- ☒ Node Identifiers
- ☒ In-Place Annotation
- ☒ XML base
- ☒ XML id

Implication Options (Check Zero or More)

- ☐ Equivalences
- ☒ Inference Direction
- ☒ Non-Material
- ☒ Conjunctive Heads
- ☒ Negative Constraints
 - ☒ Disjunctive Heads
- ☒ Existential Heads

Term Sequences: Number of Terms (Select One)

- ☐ None
- ☐ Unary (Zero or One)
- ☐ Binary (Zero or Two)
- ☐ Unary/Binary (Zero to Two)
- ☒ Polyadic (Zero or More)

Term Options (Check Zero or More)

- ☐ Object Identifiers
- ☐ Slots
 - ☐ Slot Cardinality
 - ☐ Slot Weight
- ☒ Equations
 - ☒ Oriented Equations
- ☒ Term Typing
- ☒ Data Terms
- ☒ Skolem Constants
- ☒ Reified Terms

Quantification Options (Check Zero or More)

- ☒ Implicit Closure
- ☐ Slotted Rest Variables
- ☒ Positional Rest Variables

Expression Options (Check Zero or More)

- ☐ Generalized Lists
- ☐ Set-valued Expressions
- ☐ Interpreted Expressions

Serialization Options (Check Zero or More)

- ☒ Unordered Groups
- ☒ Stripe-Skipping
- ☒ Explicit Datatyping
- ☒ Schema Location Attribute

Treatment of Attributes With Default Values (Select One)

- ☐ Required to be Absent
- ☐ Required to be Present
- ☒ Optional

Language (Select One)

- ☒ English Abbreviated Names
- ☐ English Long Names
- ☐ French Long Names

Selection of Quantification Options

No Implicit Closure, Rest Variables

[Reset Form](#)[Generate Schema](#)[Download RNC Schema](#)[Download XSD Anchor Schema](#)

RNC: myng-b7-d7-a7-l1-p3c1-l7e-tf30-q0-e0-sf

XSD: disdatalogplus_mid

Expressivity "Backbone" (Select One)

- ☐ Atomic Formulas
- ☐ Ground Fact
- ☐ Ground Logic
- ☒ Datalog
- ☐ Horn Logic
- ☐ Full First-Order Logic

Propositional Options (Check Zero or More)

- ☒ IRIs
- ☐ Rulebases
 - ☐ Entailments
- ☐ Degree of Uncertainty
- ☐ Strong Negation
- ☐ Weak Negation (Negation as Failure)
- ☒ Node Identifiers
- ☒ In-Place Annotation
- ☒ XML base
- ☒ XML id

Implication Options (Check Zero or More)

- ☐ Equivalences
- ☒ Inference Direction
- ☒ Non-Material
- ☒ Conjunctive Heads
- ☒ Negative Constraints
- ☒ Disjunctive Heads
- ☒ Existential Heads

Term Sequences: Number of Terms (Select One)

- ☐ None
- ☐ Unary (Zero or One)
- ☐ Binary (Zero or Two)
- ☐ Unary/Binary (Zero to Two)
- ☒ Polyadic (Zero or More)

Term Options (Check Zero or More)

- ☐ Object Identifiers
- ☐ Slots
 - ☐ Slot Cardinality
 - ☐ Slot Weight
- ☒ Equations
 - ☒ Oriented Equations
- ☒ Term Typing
- ☒ Data Terms
- ☒ Skolem Constants
- ☒ Reified Terms

Quantification Options (Check Zero or More)

- ☐ Implicit Closure
- ☐ Slotted Rest Variables
- ☐ Positional Rest Variables

Expression Options (Check Zero or More)

- ☐ Generalized Lists
- ☐ Set-valued Expressions
- ☐ Interpreted Expressions

Serialization Options (Check Zero or More)

- ☒ Unordered Groups
- ☒ Stripe-Skipping
- ☒ Explicit Datatyping
- ☒ Schema Location Attribute

Treatment of Attributes With Default Values (Select One)

- ☐ Required to be Absent
- ☐ Required to be Present
- ☒ Optional

Language (Select One)

- ☒ English Abbreviated Names
- ☐ English Long Names
- ☐ French Long Names

3 Usage of Customized Schemas

- Instructions for online validation of RuleML instances against the Relax NG schemas are presented at Validating with Relax NG for RuleML 1.01
- Example: Validating disdatalogplus_min.ruleml (http://validator.nu/?doc=http%3A%2F%2Fdeliberation.ruleml.org%2F1.01%2Fexa%2FDatalogPlus%2Fdisdatalogplus_min.ruleml&schema=http%3A%2F%2Fdeliberation.ruleml.org%2F1.01%2Fmyng-b7-d7-a7-11-p1-i78-t210-q0-e0-sf.rnc&showsource=yes) .



Validator.nu

Using Validator.nu

Validation of disdatalogplus_min.ruleml

Validation results for http://deliberation.ruleml.org/1.01/exa/DatalogPlus/disdatalogplus_min.ruleml

Validator Input

Address	<input type="text" value="http://deliberation.ruleml.org/1.01/exa/DatalogPlus/disdatalogplus_min.ruleml"/>
Encoding	<input type="text" value="As set by the server/page"/>
Schemas	<input type="text" value="http://deliberation.ruleml.org/1.01/myng-b7-d7-a7-l1-p1-i78-t210-q0-e0-sf.rnc"/>
Preset	<input type="text" value="None"/>
Parser	<input type="text" value="Automatically from Content-Type"/>
XMLNS Filter	<input type="text"/>

☐ Be lax about HTTP Content-Type
☐ Show Image Report
☒ Show Source
☐ Show Outline

Group Messages

1. **Info:** The Content-Type was `text/xml`. Using the XML parser (not resolving external entities).

The document validates according to the specified schema(s) and to additional constraints checked by the validator.

4 References

1. ↑ Georg Gottlob, Giorgio Orsi, Andreas Pieris, and Mantas Šimkus. Datalog and its extensions for semantic web databases. In Thomas Eiter and Thomas Krennwallner, editors, Reasoning Web. Semantic Technologies for Advanced Query Answering, volume 7487 of Lecture Notes in Computer Science, pages 54–77. Springer Berlin Heidelberg, 2012.

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Categories: Training | MYNG | RuleML 1.01

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