



**Legend**

- Boxes represent resources, i.e. everything that is also a link.
- Angled parameters indicate the type of the resource.
- The IRI of classes and properties is set in boldface.
- The IRI of other specific resources is underlined.
- The type of abstract resources (i.e. 'some X') is set in italics.
- For abstract resources in an LG Schema, prefixes are given.

Arrow indicate non-literal relations (i.e. to links), often with a cardinality range on either side.

- «rdfs:subClassOf»** Hierarchic schema relations.
- «rdf:type»** Type indication (just like «.»).
- «bibo:editor»** Individual relations.
- «dcterms:source»** Independent aggregation (separate graph), stored in the opposite direction (arrow).
- «lgs:.....»** Dependent aggregation relation (same graph).
- .....** Note, linked to relevant resource or relation.

Possible relations to literals (i.e. not to links), are given in the box, preceded by their cardinality range, and followed by the datatype of the literal. A resource of the example class has exactly one dcterms:created relation to xsd:dateTime value, one optional rdfs:label and any amount of numbers.

**lg:graphs:Edge**

- + 0..1 rdfs:label : xsd:string

**lg:graphs:Vertex**

- + 0..k lgs-graphs:containsVertex

**lg:graphs:labeling**

- + 0..1 lgs-graphs:labeling

**list:OWLList**

- + 0..1 list:hasContents
- + 0..1 list:hasNext

**lg:graphs:containsEdgeExplicitly**

- + 0..n lgs-graphs:containsEdgeExplicitly

**lg:graphs:containsEdgeImplicitly**

- + 0..m lgs-graphs:containsEdgeImplicitly

**lg:diagrams:LogicalGraphDiagram**

- + 0..1 lgs-diagrams:visualizes

**lg:shapes:GeometricShape**

- + 0..1 lgs-shapes:isRegular
- + 0..1 lgs-diagrams:hasMinColinearity
- + 0..1 lgs-diagrams:hasMaxColinearity
- + 0..1 lgs-diagrams:hasMinCoplanarity
- + 0..1 lgs-diagrams:hasMaxCoplanarity
- + 0..1 lgs-diagrams:hasMinCospatality
- + 0..1 lgs-diagrams:hasMaxCospatality

A rdf4j:triple is a nested triple, written between double angles, e.g.: test:graph lgs-graphs:containsEdge «test:v1 lgs-diagrams:Contrary test:v2»

**Legend**

- + relation «relation» used in multiple graphs
- + relation «relation» inferred to onto:implicit
- + relation «relation» in agent's dataset graph
- + relation «relation» in source's dataset graph
- + relation «relation» in diagram's dataset graph
- + relation «relation» in lgs:void
- + relation «relation» in lgs:sources
- + relation «relation» in lgs:diagrams
- + relation «relation» in lgs:graphs
- + relation «relation» in lgs:shapes

The prism:number relation refers to an issue number, a bibo:number to an article number.

Names are strings of the form "Family Name, Given Name" or "Full Name". The preferred name is set as rdfs:label.

Valid lgdt:dateRange values are either a xsd:gYear (e.g. "2020"^^xsd:gYear or "0304"^^xsd:gYear or "-0001"^^xsd:gYear), or ranges containing two such values, of the form "1504--1514"^^lgdt:dateRange. Note that negative values are interpreted with a shift: e.g. -0001 is the year 2 BC.

Pages, like all RDF resources, must be valid URLs.

XSD Languages use the two-letter codes of ISO 639-1.

Individual contributor relations are inferred from the bibo lists.

The sesame:directSubPropertyOf a rdfs:Property is inferred based on the hierarchy.

list:isFollowedBy is inferred as the transitive closure of list:hasNext, i.e. it equals path traversal along list:hasNext\*.

The lgs-graphs:labeling of a lgs-graphs:Vertex is a list:OWLList of xsd:string's. The labeling of vertices in multi-labelled graphs is such that the n'th label of each forms part of a set.

The sesame:directSubClassOf of a rdfs:Property is inferred based on the hierarchy.

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