

gistUnit

gist7.5 units of measure

Base URI : http://ontologies.semanticarts.com/o/gistUnit
Version URI : http://ontologies.semanticarts.com/o/gistUnit7.5
Default Namespace :
Default Comment: rdfs:comment
Default Label :

Namespaces

gisthttp://ontologies.semanticarts.com/gist#

Imports

URI : http://ontologies.semanticarts.com/o/gistTop7.5
Location : gistTop7.5.owl

Units and Measures

These are the remaining base units that were not essential for the definition of top level concepts

gist:numerator

Domain: gist:RatioUnit
Range: gist:UnitOfMeasure
Relates a RatioUnit such as meter(s)/second to the numerator Unit (e.g. meter).

gist:denominator

Domain: gist:RatioUnit
Range: gist:UnitOfMeasure
Relates a RatioUnit such as meters/second to the denominator Unit (e.g. second).

gist:conversionOffset

Domain: gist:UnitOfMeasure
Range: double
Add this number to get to the zero point.
On the Celsius scale, the conversionOffset is -273.15 degrees C.
On the Fahrenheit scale it is -459.67 degrees. Is equal to 0 when the unit has the same zero point as the base unit. e.g. inch, meter.

gist:unitSymbol

Domain: gist:UnitOfMeasure
Range: string
The standard symbol for the unit NOT using any special characters. E.g. square meter would be m^2 rather than m².

gist:unitSymbolUnicode

Domain: gist:UnitOfMeasure
Range: string
The standard symbol for the unit preferred for pretty printing, may use special characters. E.g. square meter would be m² rather than m^2.

gist:unitSymbolHTML

Domain: gist:UnitOfMeasure
Range: string
The standard symbol for the unit in HTML format for pretty printing, may use special characters. E.g. to show square meter as m² rather than m^2, the value of this property would be "<![CDATA[m²]]>" This is for when Unicode not supported and the display will be HTML format.

gist:RatioUnit

A UnitOfMeasure composed of a numerator unit and a denominator unit.
--- AND ---

rdfs:label

Ratio Unit

rdfs:comment

EXAMPLE: Miles per hour.

rdfs:comment

NOTE: If needed, a conversion factor for a RatioUnit can be (recursively) derived from the conversion factors of the numerator and denominator units. E.g., the derived conversion factor from km/minute to meters/second is 1000/60 or 16 2/3.

gist:UnitOfMeasure

gist:numerator

exactly 1 gist:UnitOfMeasure

gist:denominator

exactly 1 gist:UnitOfMeasure

gist:CurrencyUnit

A unit of money. Note: this is the only unit whose conversion factors include time (i.e., the conversion rates change on a daily basis).
--- AND ---

rdfs:label

Currency Unit

gist:SimpleUnitOfMeasure

gist:hasBaseUnit

has gist:_USDollar

gist:CountingUnit

A unit of counting, especially 'each', but also units such as dozens.
--- AND ---

rdfs:label

Counting Unit

gist:SimpleUnitOfMeasure

gist:hasBaseUnit

has gist:_each

gist:DataSizeUnit

A unit to measure amounts of digital information.
--- AND ---

rdfs:label

Data Size Unit

gist:SimpleUnitOfMeasure

gist:hasBaseUnit

has gist:_bit

gist:TemperatureUnit

Unit of measurement for expressing temperature. Per SI, the base of temperature is in Kelvin, to allow for all units to be expressed relative to a real (in this case absolute) zero.
--- AND ---

rdfs:label

Temperature Unit

gist:SimpleUnitOfMeasure

gist:hasBaseUnit

has gist:_kelvin

gist:conversionOffset

some double

gist:ElectricalCurrentUnit

Unit of electrical current, which is charge per unit time. The SI unit is the ampere. (Note that electrical current is a composed unit.)
--- AND ---

rdfs:label

Electrical Current Unit

gist:SimpleUnitOfMeasure

gist:hasBaseUnit

has gist:_ampere

gist:LuminousIntensityUnit

The measure of brightness. The SI unit is the candela.
--- AND ---

rdfs:label

Luminous Intensity Unit

gist:SimpleUnitOfMeasure

gist:hasBaseUnit

has gist:_candela

gist:MoleUnit

Amount of chemical material. Measured in Avogadro units (moles) of 6.02 x 10^23 molecules.
--- AND ---

rdfs:label

Mole Unit

gist:SimpleUnitOfMeasure

gist:hasBaseUnit

has gist:_mole

gistEvent

gist7.5 event

Base URI : <http://ontologies.semanticarts.com/o/gistEvent>
Version URI : <http://ontologies.semanticarts.com/o/gistEvent7.5>
Default Namespace :
Default Comment: [rdfs:comment](#)
Default Label :

Namespaces

gist <http://ontologies.semanticarts.com/gist#>

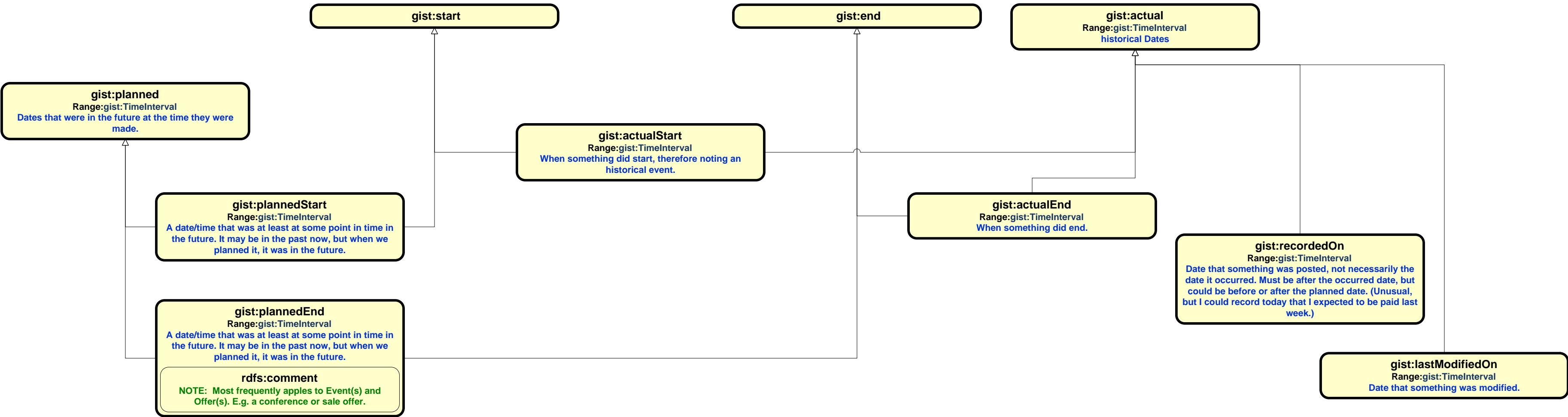
Imports

URI : <http://ontologies.semanticarts.com/o/gistTime7.5>
Location : [gistTime7.5.owl](#)

Put domains on these
Took off desc & domain
range for properties
defined elsewhere
Moved birth and death to
person

Temporal

Note: most dates have a start/end parent and a planned/actual parent



gist:characterizedAs

Domain: gist:Event Range: gist:Behavior
The kind of Behavior that took place during an Event.

gist:hasSubTask [T]

(gist:subTaskOf)

Domain: gist:Task Range: gist:Task
A task that is part of a larger task. The time frame of the subtasks may overlap but may not extend beyond the timeframe of the parent task. A subtask may be part of more than one parent task.

gist:hasDirectSubTask

(gist:directSubTaskOf)

Domain: gist:Task Range: gist:Task

gist:Project

A project is a task (usually a longer duration task) made up of other tasks.
--- AND ---

rdfs:label

Project

gist:Task

gist:hasSubTask

some gist:Task

gist:TemplateTask

A prototypical task of a particular type, that will, when instantiated, generate an actual (unscheduled) task.
--- AND ---

rdfs:label

Template Task

gist:Template

gist:hasGoal

some gist:Intention

gist:Task

A task which has been defined and either scheduled or accomplished, or both.
--- AND ---

rdfs:label

Task

gist:Event

gist:hasGoal

some gist:Intention

gist:ScheduledTask

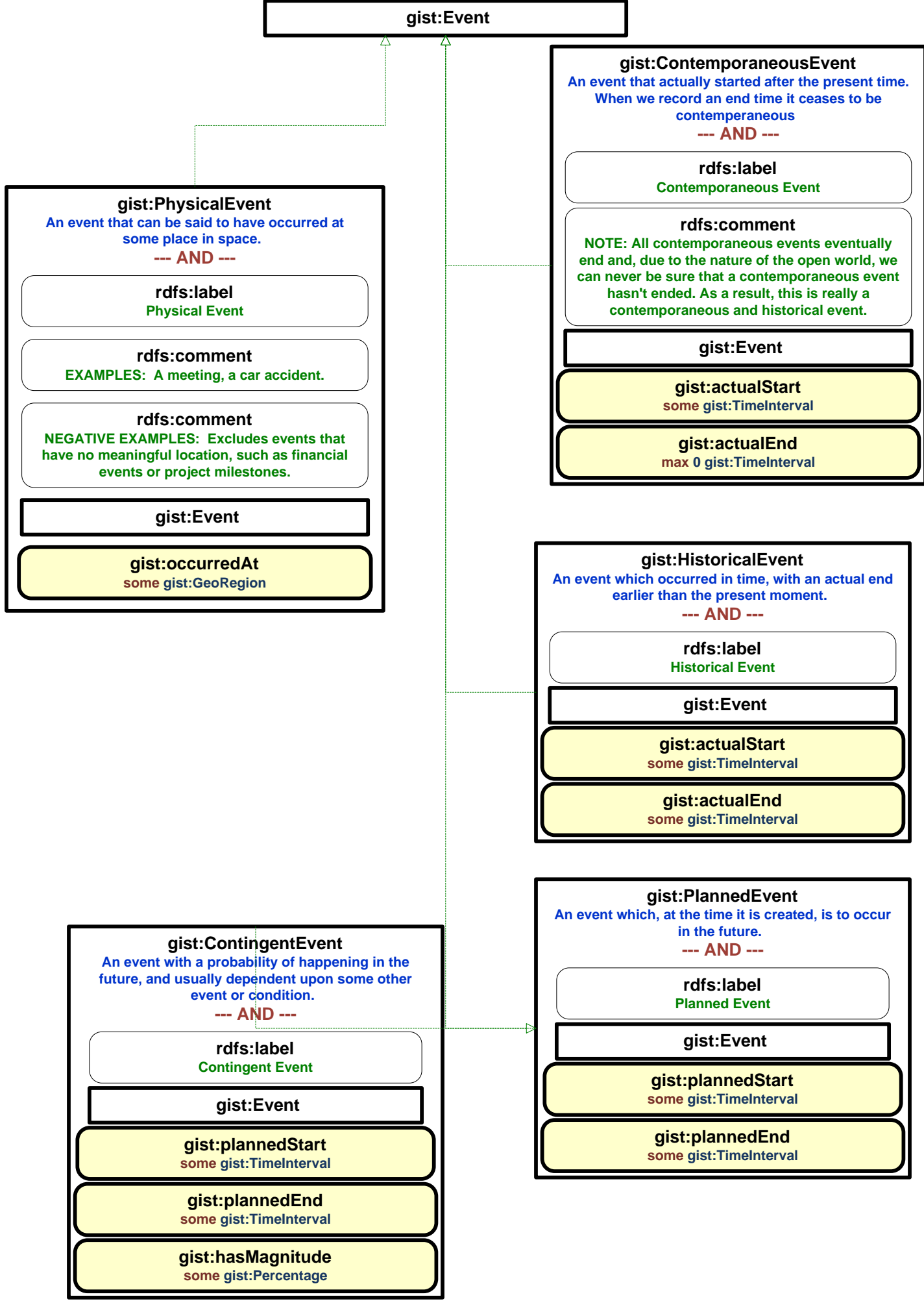
A task planned to occur. When it was scheduled, it would have been in the future, but now might be in the past.
--- AND ---

rdfs:label

Scheduled Task

gist:PlannedEvent

gist:Task



gistOrganization

gist7.5 org

Base URI : <http://ontologies.semanticarts.com/o/gistOrganization>
Version URI : <http://ontologies.semanticarts.com/o/gistOrganization7.5>
Default Namespace :
Default Comment : [rdfs:comment](#)
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Namespaces

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gist:GovernmentOrganization -
gist: _unitedNations
if the united nations recognizes you as a
country you are a country

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gist:recognizedBy
(gist:recognizes)
Range:gist:SocialBeing
The entity that formally acknowledges the existence of, as the State recognizes the existence of a particular company

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(gist:recognizes)
Range:gist:SocialBeing
The entity that formally acknowledges the existence of, as the State recognizes the existence of a particular company

gist:directlyRecognizedBy

gist:GovernmentOrganization
An organization established either by fiat (as a conquering army overtakes a land and declares a government) or by delegation from a fiat government, such as a state or local government or a specific agency. Differs from a corporation in that it cannot be owned.

--- AND ---

rdfs:label
Government Organization

rdfs:comment
EXAMPLES: The State of Washington Office of Financial Management; the Food and Drug Administration; the Scottish Parliament.

gist:Organization

gist:recognizedBy
some gist:CountryGovernment

rdfs:comment
NOTE: Establishment by a CountryGovernment may be indirect via local, regional, or national GovernmentOrganization(s) that ultimately are recognized by a CountryGovernment.

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gist:CountryGovernment
The geopolitical body that runs a
geopolitical region recognized as a
country.
--- AND ---
rdfs:label
Country Government
gist:Organization
gist:directlyRecognizedBy
has gist:_unitedNations
gist:governs
some gist:GeoRegion
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```

gist:Group

A collection of People. The group may or may not be an Organization. Many organizations consist of groups of people, but that is not a defining characteristic.

--- AND ---

rdfs:label
Group

gist:Collection

gist:hasMember
some gist:Person

```
graph TD
    G["gist:Group  
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--- AND ---  
rdfs:label  
Group"]
    C["gist:Collection"]
    H["gist:hasMember  
some gist:Person"]
    G --- C
    C --- H
```

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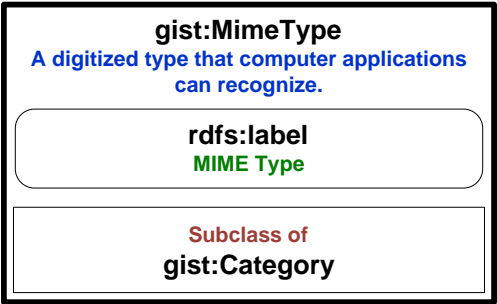
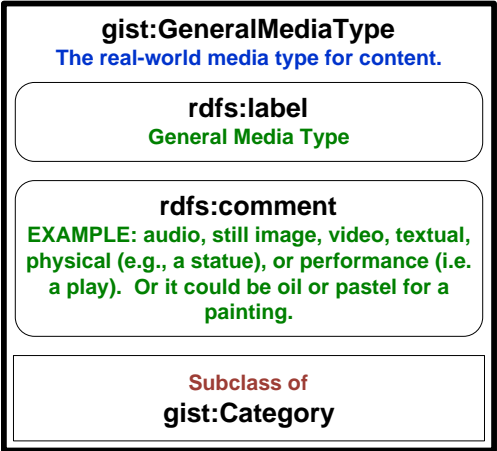
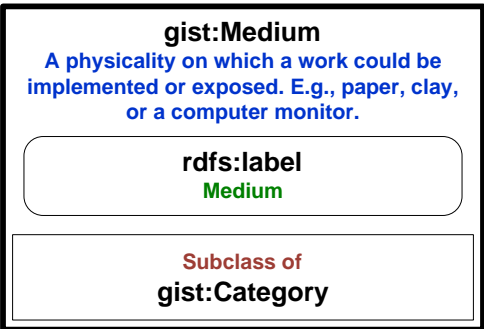
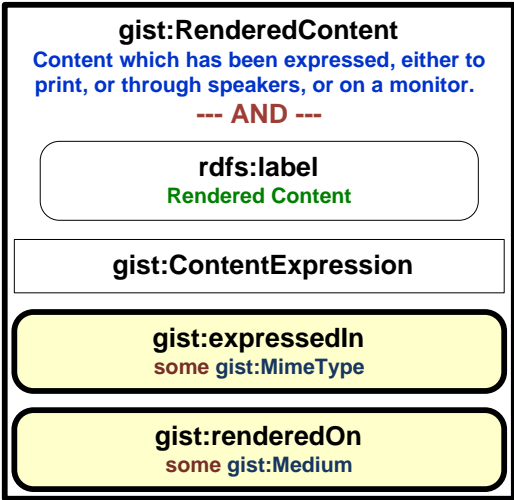
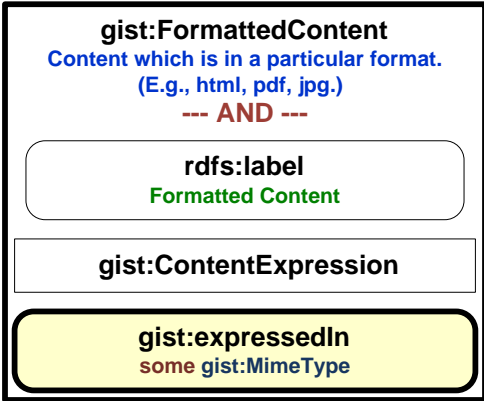
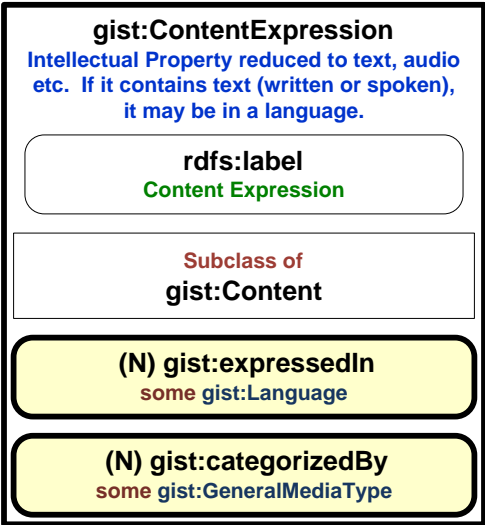
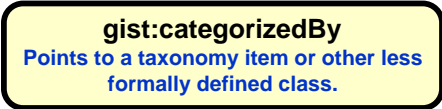
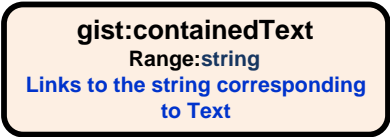
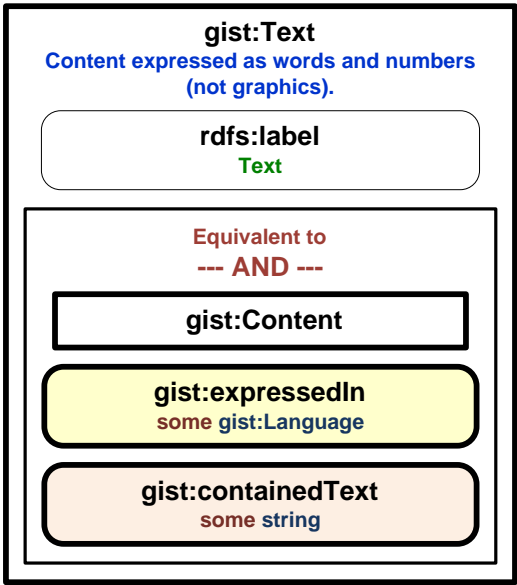
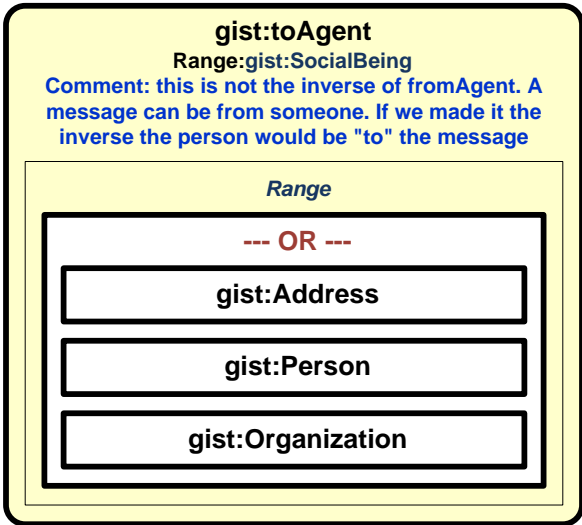
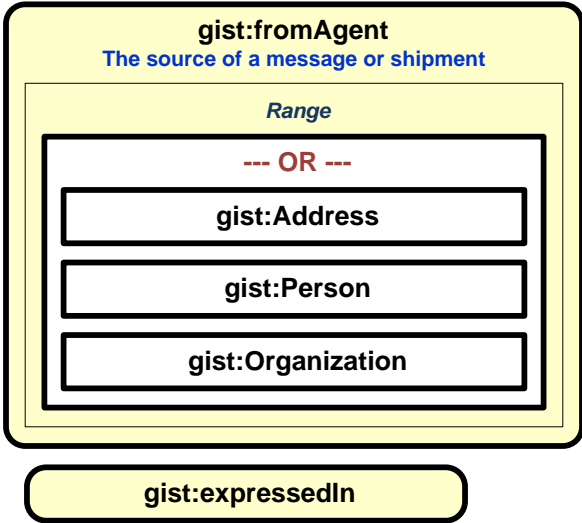
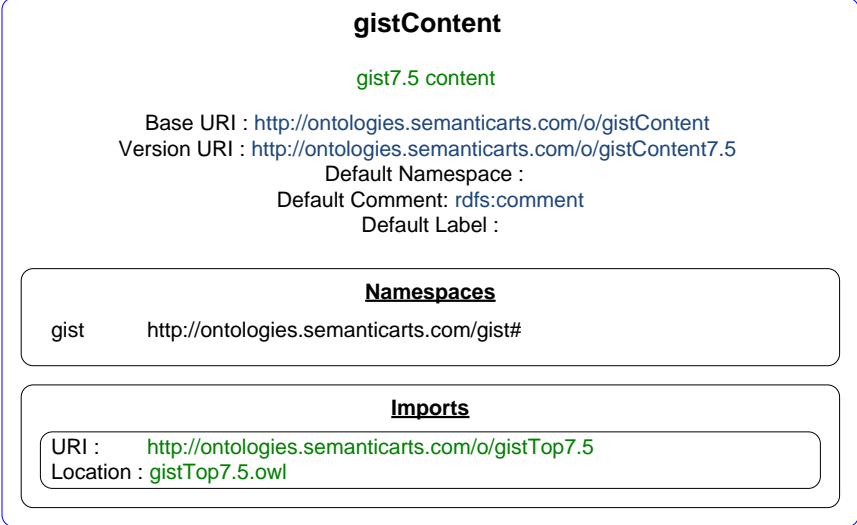
rdfs:label
Group

rdfs:label
Group

gist:Collection

```
gist:hasMember
  some gist:Person
```

```
gist:hasMember
  some gist:Person
```

```
graph TD
    A[ContractTerm] --> B[Specification]
    A --> C[ContractTerm Specification]
```

The diagram illustrates the relationship between `ContractTerm` and `Specification`. It consists of two main boxes. The top box, labeled `ContractTerm`, contains the text `gist:ContractTerm` and a description: "A specification of some aspect of a contract." Below this box is a rounded rectangle containing `rdfs:label` and `Contract Term`. The bottom box, labeled `Specification`, contains the text `Subclass of` and `gist:Specification`.

ContractTerm

A specification of some aspect of a contract.

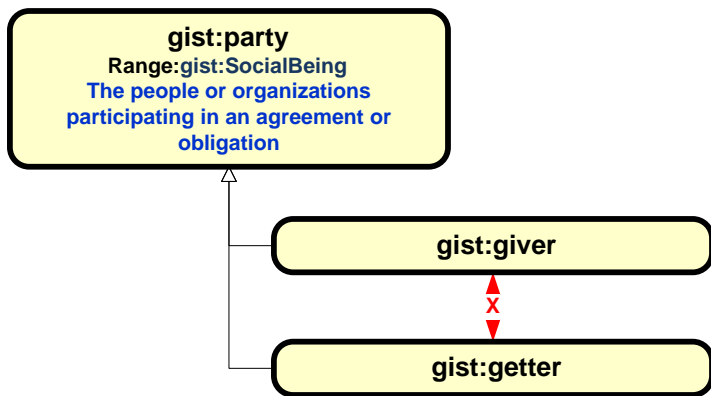
rdfs:label

Contract Term

Specification

Subclass of

gist:Specification



```
graph TD; A["rdfs:DegreeOfCommitment  
The difficulty of reversing a commitment."] --> B["rdfs:label  
Degree Of Commitment"]; B --> C["rdfs:comment  
EXAMPLE: A car rental typically has a lower degree of commitment than an airfare reservation."]; C --> D["Subclass of  
rdfs:Category"];
```

rdfs:DegreeOfCommitment
The difficulty of reversing a commitment.

rdfs:label
Degree Of Commitment

rdfs:comment
EXAMPLE: A car rental typically has a lower degree of commitment than an airfare reservation.

Subclass of
rdfs:Category

gist:triggeredBy
a property that describes what would happen to trigger the contingent obligation. In most cases, before the Contingent becomes an Obligation, the triggered by event is a planned event (that is it hasn't happened yet -- if it had happened the contingency would no longer be contingent. In most cases it will be a ContingentEvent

gist:affects
(gist:affectedBy)
the subject has or had or will have an
effect on the object

[illegible]

```
graph TD; CO["gist:ContingentObligation"] --- CO_DEF["An obligation that is not yet firm. There is some contingent event, the occurrence of which will cause the obligation to become firm."]; CO --- CO_LABEL["rdfs:label"]; CO --- CO_COMMENT["Contingent Obligation"]; CO --- CO_NOTE["NOTE: A contingent obligation might have a getter counterparty (as in the case of insurance); but it might not (as in the case of an offer)."]; CO --- EQ["Equivalent to --- AND ---"]; EQ --- C["gist:Commitment"]; C --- G["gist:giver"]; C --- TB["gist:triggeredBy"];
```

gist:ContingentObligation

An obligation that is not yet firm. There is some contingent event, the occurrence of which will cause the obligation to become firm.

rdfs:label
Contingent Obligation

rdfs:comment
NOTE: A contingent obligation might have a getter counterparty (as in the case of insurance); but it might not (as in the case of an offer).

Equivalent to --- AND ---

gist:Commitment

gist:giver
some gist:SocialBeing

gist:triggeredBy
some gist:Event

gist:Offer
A commitment to buy or sell a described or identified part or service.

--- **AND** ---

rdfs:label
Offer

gist:plannedEnd
some **gist:TimeInstant**

gist:start
some **gist:TimeInstant**

gist:hasMagnitude
some **gist:Monetary**

gist:giver
some **gist:SocialBeing**

gist:hasDirectPart
some **gist:CatalogItem**

gist:ContingentObligation

gist:Obligation
A future commitment from one organization or person to another. Contracts are sets of obligations to do or forebear, or to indemnify or warrant.

rdfs:label
Obligation

rdfs:comment
NOTE: Obligations will often be governed by some Agreement or Offer.

Equivalent to
--- AND ---

gist:Commitment

gist:giver
some **gist:SocialBeing**

gist:getter
some **gist:SocialBeing**

The diagram illustrates the hierarchy of RDF properties. It consists of four stacked boxes, each containing a property name and its definition. The boxes are connected by arrows pointing downwards, indicating a hierarchy. The first box is white, and the subsequent three are yellow.

- Agreement**
A contract or other binding agreement, usually evidenced by signature(s).
--- AND ---
- label**
Agreement
- Commitment**
- party**
min 2 **SocialBeing**
- hasDirectPart**
min 2 **Obligation**

gist:Account
An agreement having a balance, as in a bank account, or credit card account, or Accounts Receivable account.

--- AND ---

rdfs:label
Account

gist:Agreement

gist:hasMagnitude
some **gist:Balance**

The diagram illustrates the relationship between three concepts:

- gist:Balance**: An amount decremented or incremented by a series of transactions.
 - AND ---
 - rdfs:label**: Balance
- gist:Magnitude**
- gist:affectedBy**: some gist:Transaction

Arrows indicate that **gist:Magnitude** is affected by **gist:Balance** and **gist:affectedBy**.

```
graph TD; Transaction[Transaction] --> Event[Event]; Transaction --> Accumulator[accumulator];
```

The diagram illustrates the relationship between **Transaction** and **Event**. **Transaction** is a subclass of **Event**, indicated by a red arrow pointing from **Transaction** to **Event**. Additionally, **Transaction** has an **accumulator**, represented by a green arrow pointing from **Transaction** to the word **accumulator**.

gistTemporalRelation

gist7.5 temporalRelation

Base URI : <http://ontologies.semanticarts.com/o/gistTemporalRelation>
Version URI : <http://ontologies.semanticarts.com/o/gistTemporalRelation7.5>
Default Namespace :
Default Comment: [rdfs:comment](#)
Default Label :

Namespaces

gist <http://ontologies.semanticarts.com/gist#>

Imports

URI : <http://ontologies.semanticarts.com/o/gistTime7.5>
Location : [gistTime7.5.owl](#)

gistTemporalRelation

gist7.5 temporalRelation

Base URI : <http://ontologies.semanticarts.com/o/gistTemporalRelation>
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gist <http://ontologies.semanticarts.com/gist#>

Imports

URI : <http://ontologies.semanticarts.com/o/gistTime7.5>
Location : [gistTime7.5.owl](#)

gistTemporalRelation

gist7.5 temporalRelation

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gist <http://ontologies.semanticarts.com/gist#>

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URI : <http://ontologies.semanticarts.com/o/gistTime7.5>
Location : [gistTime7.5.owl](#)

gistTemporalRelation

gist7.5 temporalRelation

Base URI : <http://ontologies.semanticarts.com/o/gistTemporalRelation>
Version URI : <http://ontologies.semanticarts.com/o/gistTemporalRelation7.5>
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gist <http://ontologies.semanticarts.com/gist#>

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Location : [gistTime7.5.owl](#)

Imports

URI : <http://ontologies.semanticarts.com/o/gistTime7.5>
Location : [gistTime7.5.owl](#)

gist:connectedTo
A non owning, non causal, non-subordinate (ie. peer to peer) relationship.

gist:connectedTo
A non owning, non causal, non-subordinate (ie. peer to peer) relationship.

gist:TimeInterval

gist:TemporalRelation
A relationship existing for a period of time.

rdfs:label
Temporal Relation

rdfs:comment
NOTE: A temporal relation must be **gist:connectedTo** a minimum of two objects. For example, a temporal relation representing a period of employment is connected both to the person and to the role/position they held.

rdfs:comment
EXAMPLES: employs-Employment, hasStreetAddress-EstablishedLocation.
One important context for reifying a property.

(N) gist:start
some **gist:TimeInstant**

(N) gist:end
some **gist:TimeInstant**

(N) gist:connectedTo
some **owl:Thing**

gist:TemporalRelation
A relationship existing for a period of time.

rdfs:label
Temporal Relation

rdfs:comment
NOTE: A temporal relation must be **gist:connectedTo** a minimum of two objects. For example, a temporal relation representing a period of employment is connected both to the person and to the role/position they held.

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One important context for reifying a
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(N) gist:start
some gist:TimeInterval

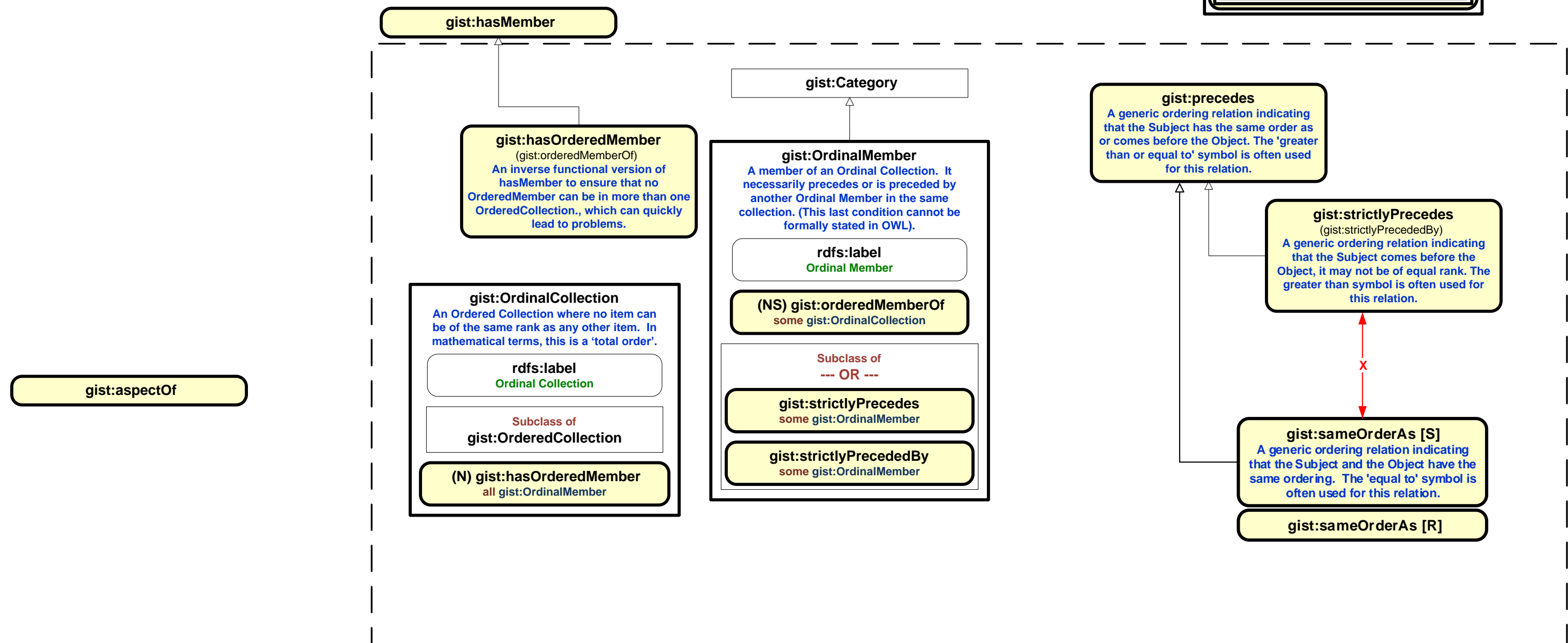
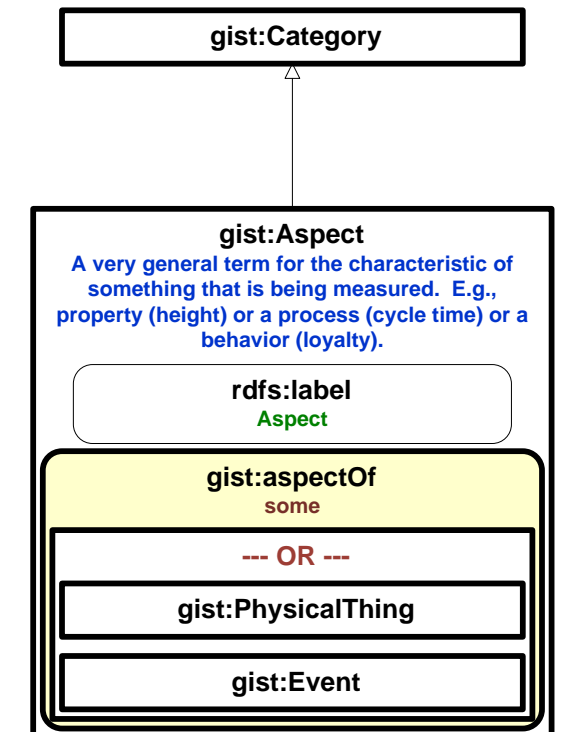
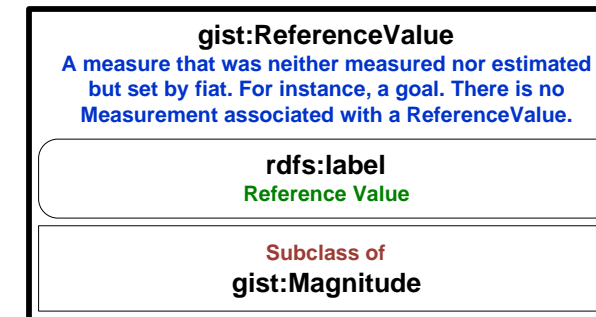
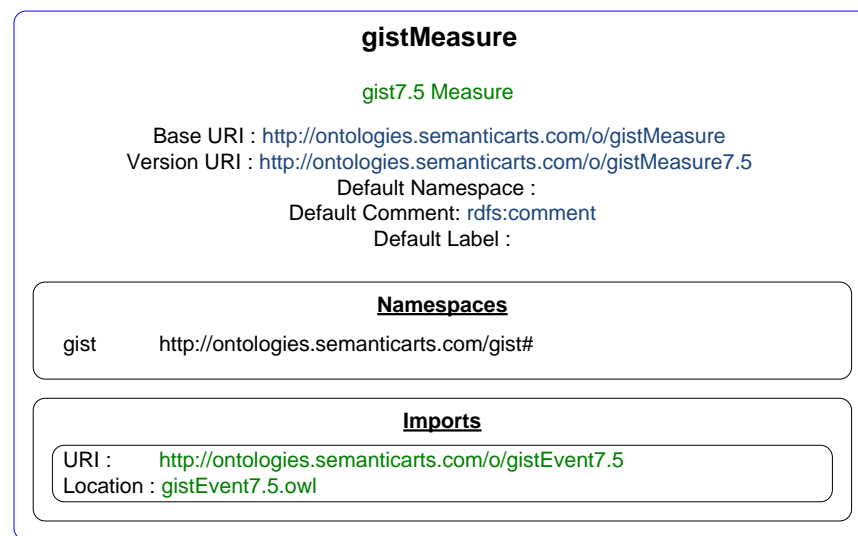
(N) gist:start
some gist:TimeInterval

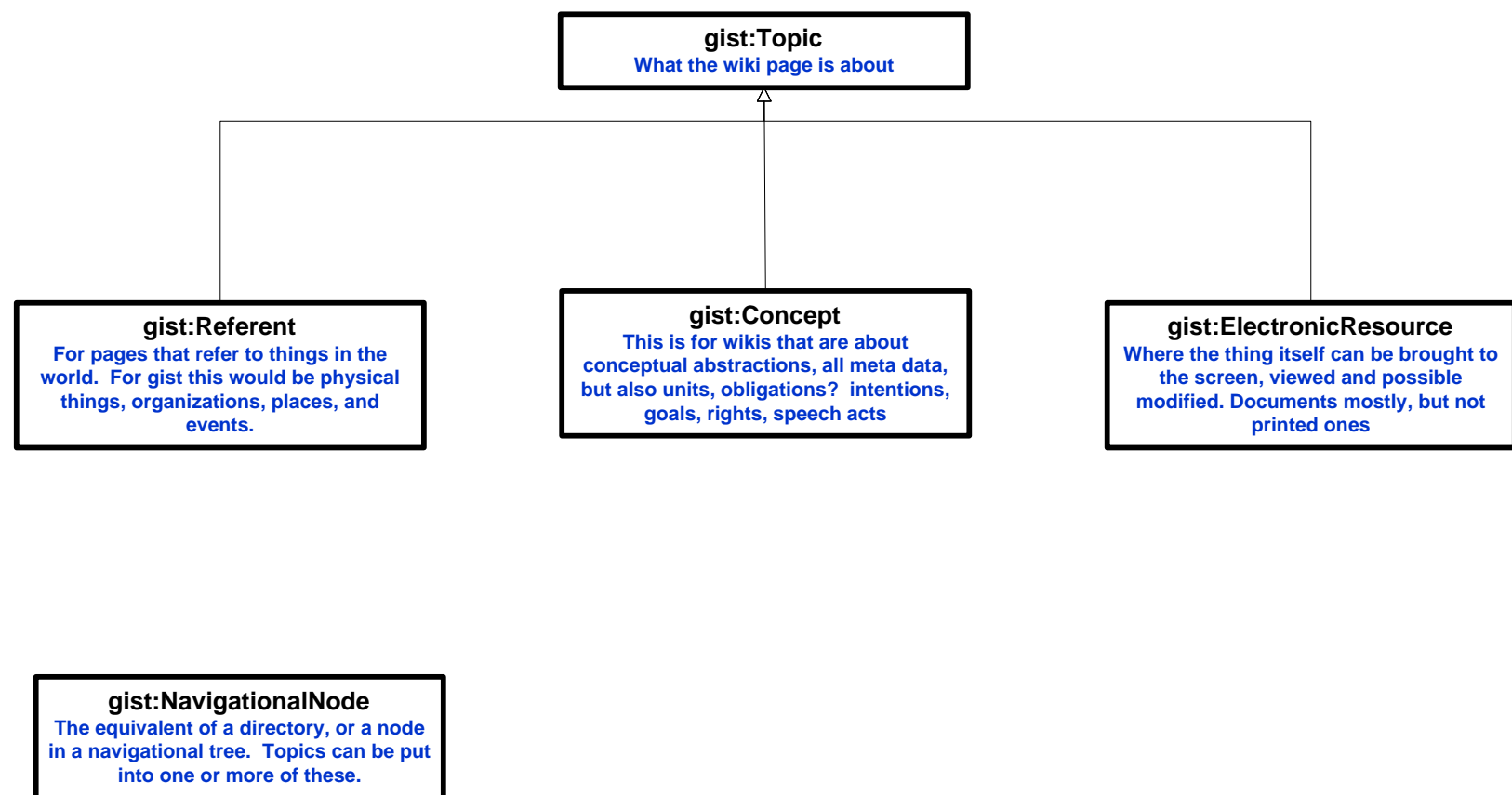
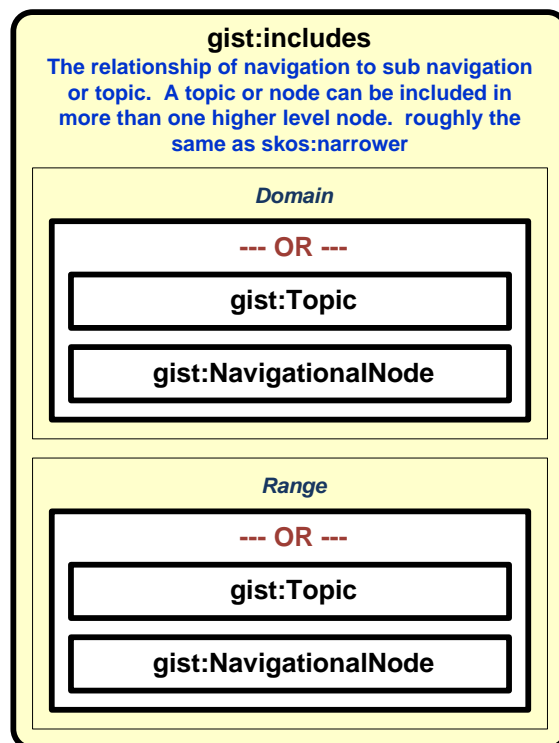
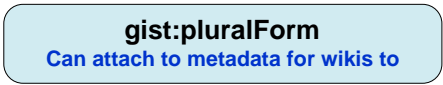
(N) gist:end
some gist:TimeInterval

(N) gist:end
some gist:TimeInterval

(N) gist:connectedTo
some owl:Thing

(N) gist:connectedTo
some owl:Thing





gistDimensionedUnits

gist7.5 dimensioned units of measure. This extension allows (and requires) you to have a conversion factor for all units with the same dimension. If you introduce MilesPerHour you will have to supply the conversion to MetersPerSecond (even though the system "knows" how to convert Miles to meters and hours to seconds. You will have to supply and additional conversion when you introduce KilometersPerHour. Any new combination of primitive rations requires a new Dimension. While this is a burden, it allows units to be converted in sparql

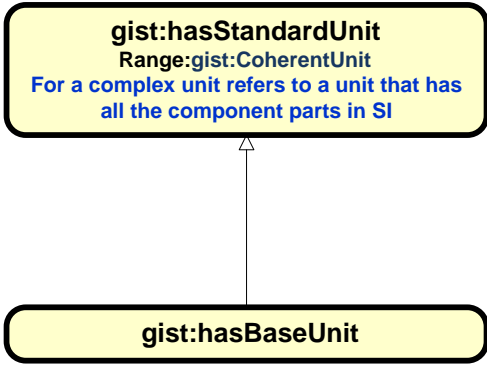
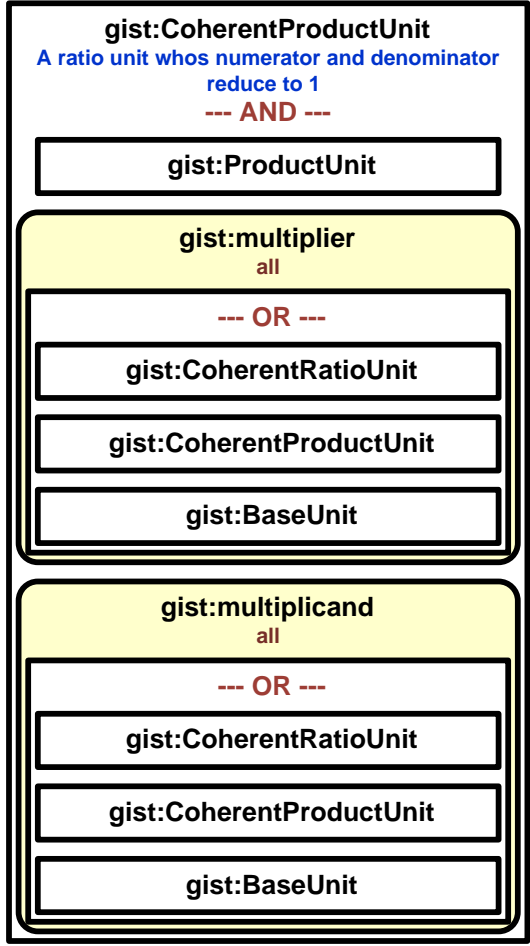
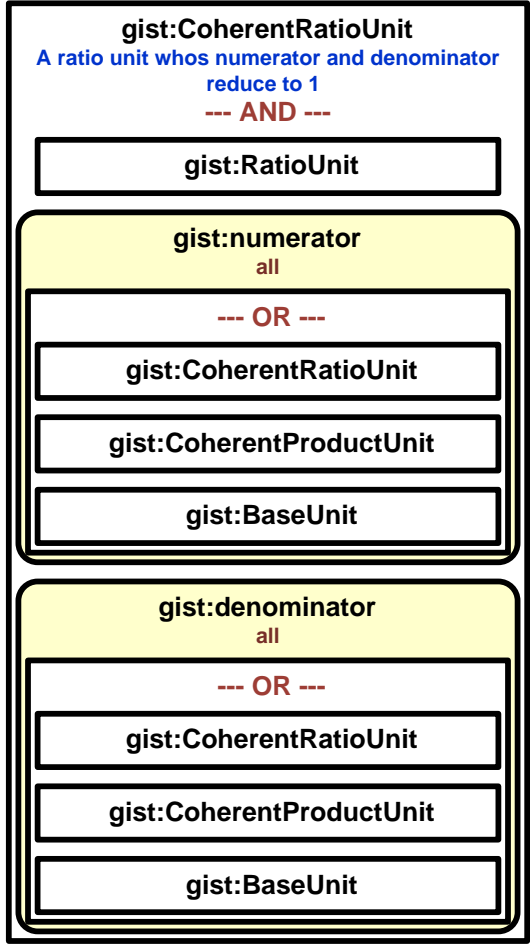
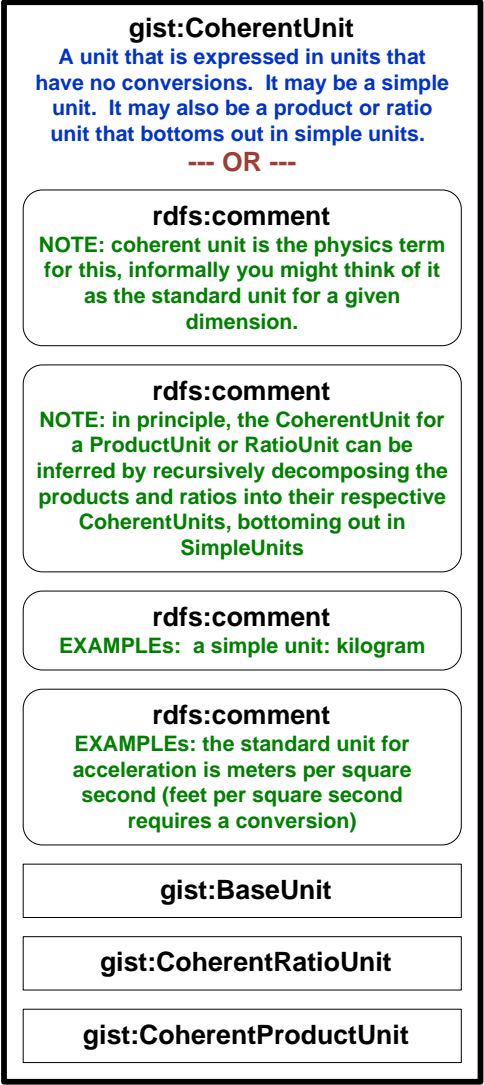
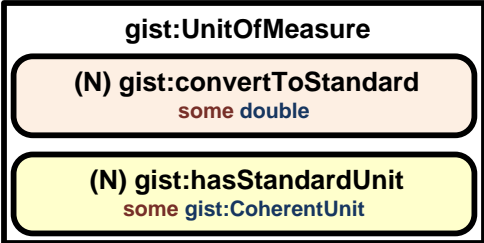
Base URI : <http://ontologies.semanticarts.com/o/gistUnitDim>
Version URI : <http://ontologies.semanticarts.com/o/gistUnitDim7.5>
Default Namespace :
Default Comment : [rdfs:comment](#)
Default Label :

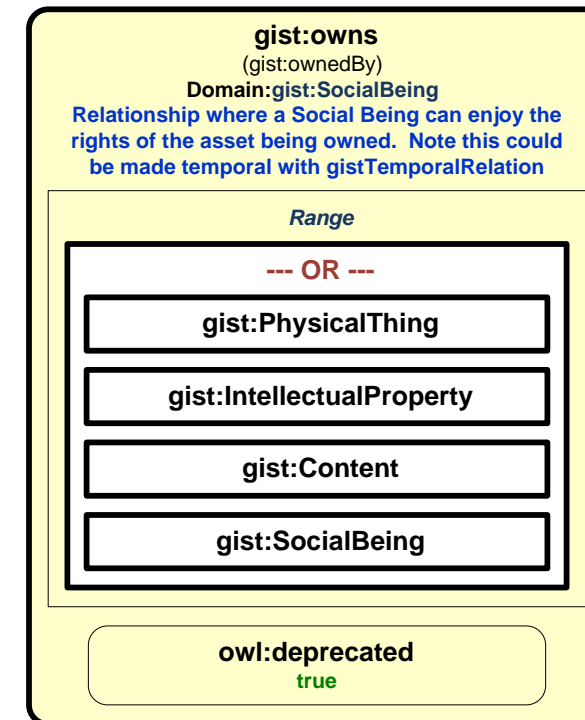
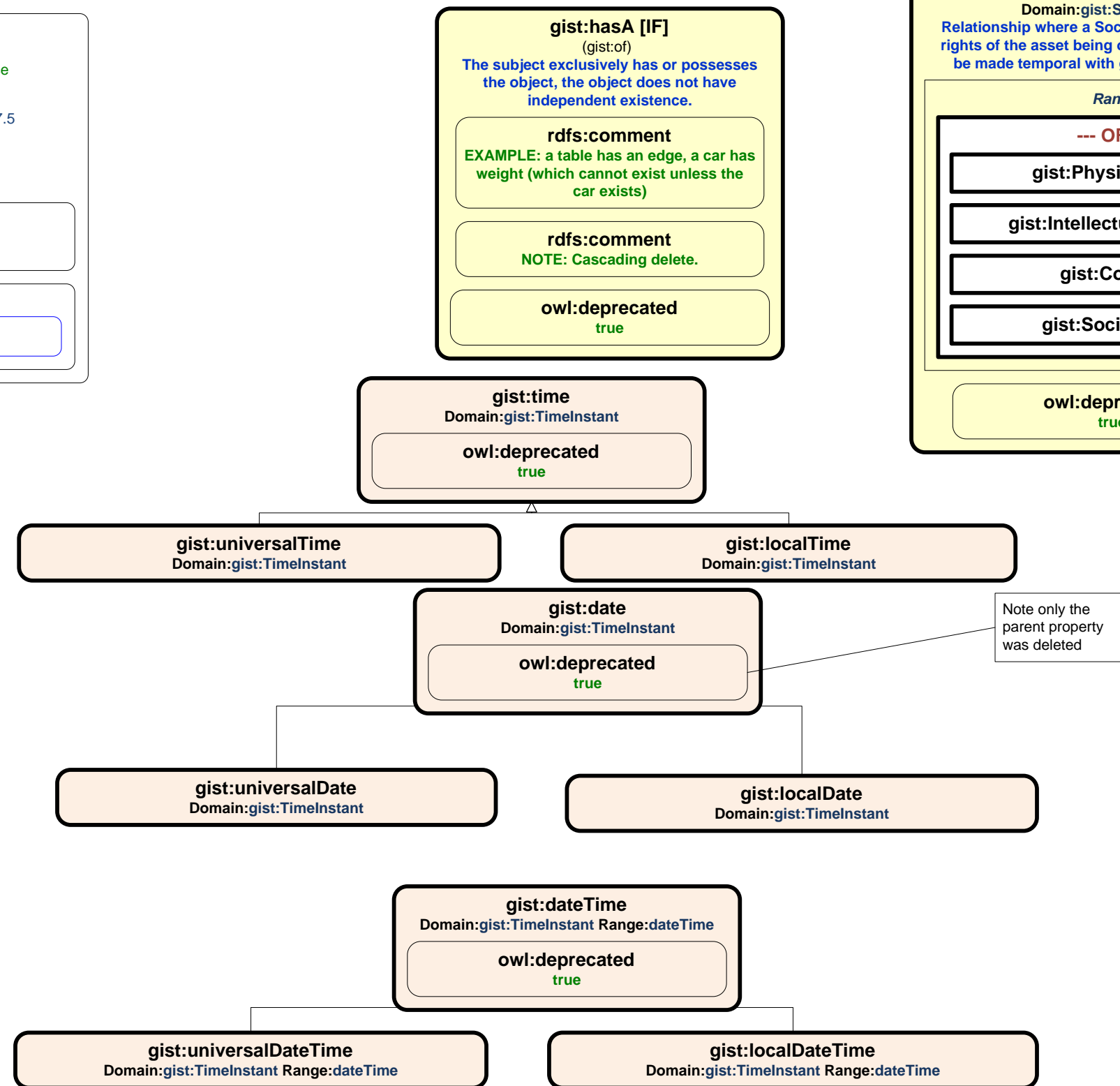
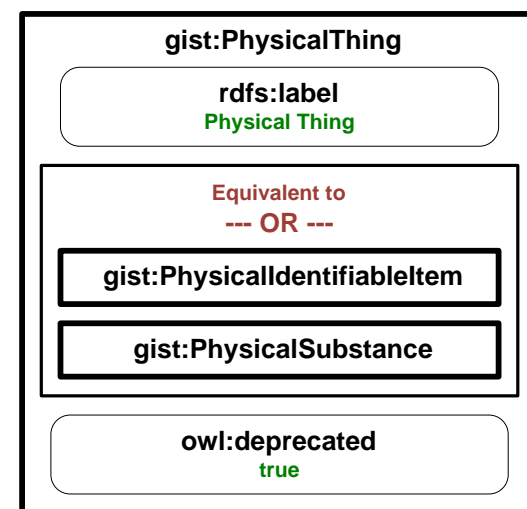
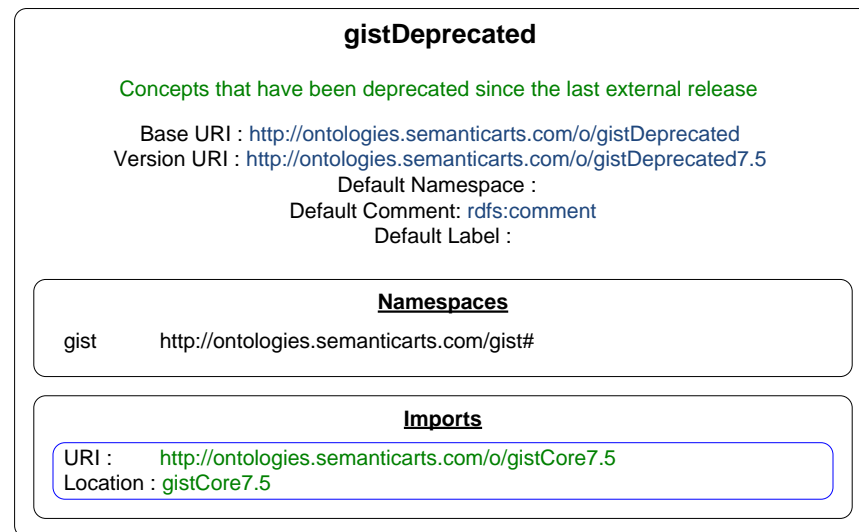
Namespaces

gist <http://ontologies.semanticarts.com/gist#>

Imports

URI : <http://ontologies.semanticarts.com/o/gistUnit7.5>
Location : [gistUnit7.5.owl](#)





KEY for Change Log

V: Visio/Visualization changes only, not affect the owl (callouts, layout, grouping etc)
CL: for clarity only, better comments, fixing typos, laying out differently, etc.
AD: purely additive, will not affect anything already existing.
RF: refactoring, no semantic import. Includes changing names where old name is deprecated.
SU: has semantic import from usage perspective, e.g. a comment changes usage which could give semantic errors.
SI: has semantic import from inference perspective. axiom added, removed, changed etc.
BI: Backwards incompatible

gist7.4 ChangeLog		
7.4	11/28/2016 planned, start, end)	SU/SI: (AE) [gistMag, gistEvent] - removed gist:hasA as the super-property of all its sub-properties except gist:identifiedBy (hasPrecision, hasMagnitude, actual,
7.4	11/28/2016	AD: (AE) [gistOrg] - added gist:Template as a domain of gist:governs
7.4	11/28/2016	SU/SI: (AE) [gistContent] - changed the formal definition of gist:Template, no longer a subclass of gist:Content, now a top level primitive (moved to gistTop)

gist.x.x ChangeLog		
7.5	1/11/2017	BI: (DMc) [gitSHACL].deleted, moved to dcao (BI for anyone using gistSHACL which we believe was no one
7.5	1/11/2017	RF: (DMc) [[many] moved classes around in order to flatten out the hierarchy. Generally not a problem for anyone using all of gist, but if you're only using a few modules may need to double check. Most likely you will have a few more classes than previous.
7.5	1/11/2017	AD: (DMc) gistTop added the class gist:SchemaMetadata as a covering concept for metadata level projects
7.5	1/17/2017	RF: (DMc) gistDim& gistUom mved teh exactly restriction to the uom ontology
7.5	1/17/2017	CL: (DMc) gistUoM removed the min 0 from product unit
7.5	1/17/2017	RF: (DMc) gistTop & gist:Event moved Behavior to top
7.5	1/17/2017	BI: (DMc) gistTop & gistIDremoved gist:hasA -- it was being misused more often than correctly used (in deprecated if anyone needs it)
7.5	1/17/2017	RF: (DMc) gistIDr moved Social Being to Agreement
7.5	1/17/2017	RF: (DMc) gistCat & gistOrg moved governs to gistTop
7.5	1/17/2017	BI: (DMc) gistPhysiThing removed gist:owns (wasn't being used and was inconsistent with where it was used in gistFin, which is a more appropriate place for it)
7.5	1/17/2017	BI: (DMc) gistTime removed gist:time and gist:date, as any use would want to specify local or grenich
7.5	1/17/2017	BI: (DMc) gistTime removed gist:of restriction from Timelnsstant and added epoch
7.5	1/17/2017	RF: (DMc) gistTime gistTop moved start and end to gistTop
7.5	1/17/2017	RF: (DMc) gistTime gist:Place moved TimeZone and timezoneoffset from place to time
7.5	1/17/2017	RF: (DMc) gistAddress changed the restrictions from SocialBeing to Person or Organization
7.5	1/17/2017	RF: (DMc) gistPerson emptied out the Person ontology to the top. anything more to say?
7.5	1/17/2017	RF: (DMc) gistTime Instant no logner sub of Interval
7.5	1/17/2017	AD: (DMc) gistTime added a Genich insttant rather than move all the time zone stuff to top
7.5	1/17/2017	BI: (DMc) git:Top, gistEvent replaced gist:Place with gist:GeoRegion for governing and occurredAt
7.5	1/17/2017	BI: (DMc) git:Top, removed geoDirectlyContains some point from geoRegion (not clear what it was to be centroid, ?
7.5	1/17/2017	SI: (DMc) git:Top, loosened governs domain from ... Agreement to ... Intention
7.5	1/17/2017	SI: (DMc) git:Top, loosened madeupofs domain from PhysicaThing to nothing
7.5	1/21/2017	RF: (DMc) git:Top,gistUnit moved Duration, Extent, Weight, Area and Voilume to top, as they participate in the definitions
7.5	1/21/2017	BI (DMc] gistWiki took SocialBeing out of the domain of includes as it was at odds with the other compound domain that was already tehre
7.5	1/21/2017	BI (DMc] gistWiki took out the inverse to includes (was not referenced anywhere)
7.5	2/18/2017	RF (DMc] gistagree and gistIntention -- moved the specification stuff to intention
7.5	2/18/2017	RF (DMc] gistTop and gistIntention -- moved specification to top for use with Time
7.5	2/18/2017	BI (DMc] gistEvent added a max 0 restriction to contemporaneous event. This way when it ends it ceases to be contemporaneous. It makes it less rigid, but I think thats a better tradeoff.
7.5	2/18/2017	AD (DMc] gistUnit added the unit symbol data types
7.5	2/18/2017	RF (DMc] gistmag and gistTop, moved hasMag to top because of Area
7.5	2/18/2017	BI (DMc] gitPhysicalThing deleted Physical Thing wasn't needed
7.5	2/18/2017	RF (DMc] deleted the empty Person Id and PhysicalThing ontology tabs