

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

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

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

http://ontologies.semanticarts.com/o/gistTop7.5

Location: gistTop7.5.owl

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 legrees. Is equal to 0 when the unit has he same zero point as the base unit. e.g.

gist:unitSymbol

inch, meter.

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.

Units and Measures

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

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

qist: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

qist:SimpleUnitOfMeasure

gist:hasBaseUnit

has gist:_mole

gistMagnitude

gist7.5 magnitudes

Base URI: http://ontologies.semanticarts.com/o/gistMagnitude Version URI: http://ontologies.semanticarts.com/o/gistMagnitude7.5

Default Namespace: Default Comment: rdfs:comment Default Label:

Namespaces Namespaces

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

http://ontologies.semanticarts.com/o/gistUnit7.5 Location : gistUnit7.5.owl

gist:ProductMagnitude

A magnitude expressed as a product of primitives. (E.g., Force = M*A). --- AND ---

rdfs:label **Product Magnitude**

gist:Magnitude

gist:hasUoM

some gist:ProductUnit

gist:RatioMagnitude

This is a number whose unit of measure is

--- AND ---

rdfs:label

Ratio Magnitude

decimal value.

rdfs:comment

60, the unit of measure might be MilesPerHour.

gist:Magnitude

gist:hasUoM some gist:CountingUnit

gist:Count

A measure that involves countable

amounts ('eaches' as well as cases, etc.). Can be decimal.

--- AND ---

rdfs:label

Count

rdfs:comment

NOTE: Count is not disjoint with all the

other magnitudes, as there are some

magnitudes that could conceivably be

counted.

gist:Magnitude

rdfs:comment

NOTE: A RatioMagnitude just has one

EXAMPLE: Speed. The ratio magnitude is

gist:hasUoM

some gist:RatioUnit

gist:Temperature

The degree or intensity of heat present in a substance or object, especially as expressed according to a comparative

--- AND ---

rdfs:label

Temperature

gist:hasUoM

some gist:TemperatureUnit

gist:Magnitude

gist:ElectricCurrent

A flow of electric charge.

--- AND ---

rdfs:label

Electric Current

gist:hasUoM

some gist:ElectricalCurrentUnit

gist:Magnitude

gist:Percentage

A ratio where the numerator and denominator are of the same unit of measure.

gist:Monetary A special type of magnitude, due to the

way rounding is handled in math and the temporal aspect of conversion. --- AND ---

rdfs:label

Monetary

gist:Magnitude

gist:hasUoM

some gist:CurrencyUnit

rdfs:label Percentage

rdfs:comment NOTE: there are various ways to represent percentage: 50/100 could be represented as '50' or '0.5'. gist uses the latter, as it involves fewer conversions for subsequent use.

Subclass of

gist:InformationQuantity

An amount of data, such as 6 petabytes, or

--- AND ---

rdfs:label

Information Quantity

gist:Magnitude

gist:hasUoM

some gist:DataSizeUnit

640KB.

gist:RatioMagnitude

gist:LuminousIntensity

A measure of the wavelength-weighted power emitted by a light source in a particular direction per unit solid angle. This is based on the luminosity function, a standardized model of the sensitivity of the human eye.

--- AND ---

rdfs:label

Luminous Intensity

gist:Magnitude

gist:hasUoM

some gist:LuminousIntensityUnit

gist:MolarQuantity

Amount of a substance, as counted molecules.

--- AND ---

rdfs:label

Molar Quantity

gist:Magnitude

gist:hasUoM

some gist:MoleUnit

gistTime

gist7.5 time

Base URI : http://ontologies.semanticarts.com/o/gistTime Version URI : http://ontologies.semanticarts.com/o/gistTime7.5 Default Namespace :

Default Comment: rdfs:comment
Default Label:

Namespaces

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

<u>Imports</u>

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

gist:timeZoneStandardUsed

Domain:gist:TimeInstant
Range:gist:TimeZoneStandard
the "timezone" with Daylight savings adjust

gist:offsetToUniversal

Domain:gist:TimeZone Range:gist:Duration

gist:universalDateTime

Domain:gist:TimeInstant Range:dateTime

gist:localDateTime

Domain:gist:TimeInstant Range:dateTime

gist:universalTime

Domain:gist:TimeInstant

gist:localTime

Domain:gist:TimeInstant

gist:universalDate

Domain:gist:TimeInstant

gist:localDate Domain:gist:TimeInstant

gist:TimeZoneStandard -

gist:_greenwichTimeZone

gist:TimeZoneStandard

The algorithm for getting from Greenwich Mean Time to local time, which includes the time zone offset and rules about daylight savings time.

--- AND ---

rdfs:label

Time Zone Standard

gist:Specification

gist:basedOn

some gist:TimeZone

gist:GrenichInstant

By default time instants are expressed in grenich, if you need to be explicit (to calculate offset for instance)

--- AND ---

rdfs:label

Grenich instant

gist:TimeInstant

gist:timeZoneStandardUsed

has gist:_greenwichTimeZone

instant is. Typical values would be day, hour, minute or second. --- AND ---

gist:LocalInstant

A point in time expressed relative to a local

time zone. Can be converted to Universal

Time using the time zone offset. The

precision is used to state how precise this

rdfs:label Local Instant

gist:timeZoneStandardUsed

some gist:TimeZoneStandard

gist:sameTimeAs

some gist:TimeInstant

gist:localDateTime

some dateTime

gist:localDate min 1

11111111

gist:localTime

min 1

gist:TimeInstant

gist:TimeZone

A region that observes a uniform standard time for legal, commercial, and social purposes. A typical time zone averages 15° of longitude in width and typically observes a clock time one hour earlier than the zone immediately to the east.

--- AND ---

rdfs:label

Time Zone

gist:GeoRegion

gist:offsetToUniversal

some gist:Duration

gistPlace

gist7.5 place

Base URI: http://ontologies.semanticarts.com/o/gistPlace
Version URI: http://ontologies.semanticarts.com/o/gistPlace7.5
Default Namespace:
Default Comment: rdfs:comment

Default Comment: rdfs:comment Default Label :

<u>Namespaces</u>

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

mports

JRI: http://ontologies.semanticarts.com/o/gistTop7.5

Location : gistTop7.5.owl

gist:fromPlace

Range:gist:Place

gist:toPlace Range:gist:Place

gist:geoOccupies (gist:geoOccupiedBy)

Domain
--- OR ---

gist:PhsicalIdentifiableItem

gist:PhysicalSubstance

Range

--- OR ---

gist:GeoRegion

aist:GeoVolume

gist:permanentGeoOccupies (gist:permanentGeoOccupiedBy)

gist:geoContains [T]

(gist:geoContainedIn)

Transitive version of geoDirectlyContains

Domain

--- OR ---

gist:GeoRoute

gist:GeoSegment

gist:Landmark

gist:Room

gist:GeoPoint

gist:GeoRegion

gist:GeoVolume

Range

--- OR ---

gist:GeoRoute

gist:GeoSegment

gist:Landmark

gist:Room

gist:GeoPoint

gist:GeoRegion

gist:GeoVolume

gist:geoDirectlyContains

(gist:geoDirectlyContainedIn)

The subject geospatially contains the object. E.g. the area of a city contains the area of its neighborhoods

gist:GeoSegment

A single portion of a GeoRegion which has been divided (i.e., segmented).

--- AND ---

rdfs:label

Geo Segment

gist:fromPlace

exactly 1 gist:GeoPoint

gist:toPlace

exactly 1 gist:GeoPoint

gist:GeoRoute

An ordered set of GeoPoints that defines a path from starting point to ending point.

--- AND ---

rdfs:label

Geo Route

gist:OrderedCollection

gist:hasDirectPart

some gist:GeoSegment

gist:GeoVolume

A three-dimensional space on or near the surface of the Earth, such as an oil reservoir, the body of a lake, or an airspace.

--- AND ---

rdfs:label Geo Volume

gist:geoDirectlyContains

some gist:GeoPoint

gist:hasMagnitude

some gist:Volume

gist:GeoSegment

gist:Landmark

gist:Room

gist:GeoPoint

gist:Place

rdfs:label

gist:GeoRoute

gist:GeoVolume

gist:GeoRegion

gist:Room

An enclosed area within a building.
--- AND ---

-16--1-1- -1

rdfs:label

Room

gist:directPartOf

some gist:Building

gist:identifiedBy

some gist:ID

gist:Landmark

Something permanently attached to the Earth.

--- AND ---

rdfs:label

Landmark

gist:PhysicalIdentifiableItem

gist:permanentGeoOccupies

--- OR ---

gist:GeoVolume

gist:GeoRegion

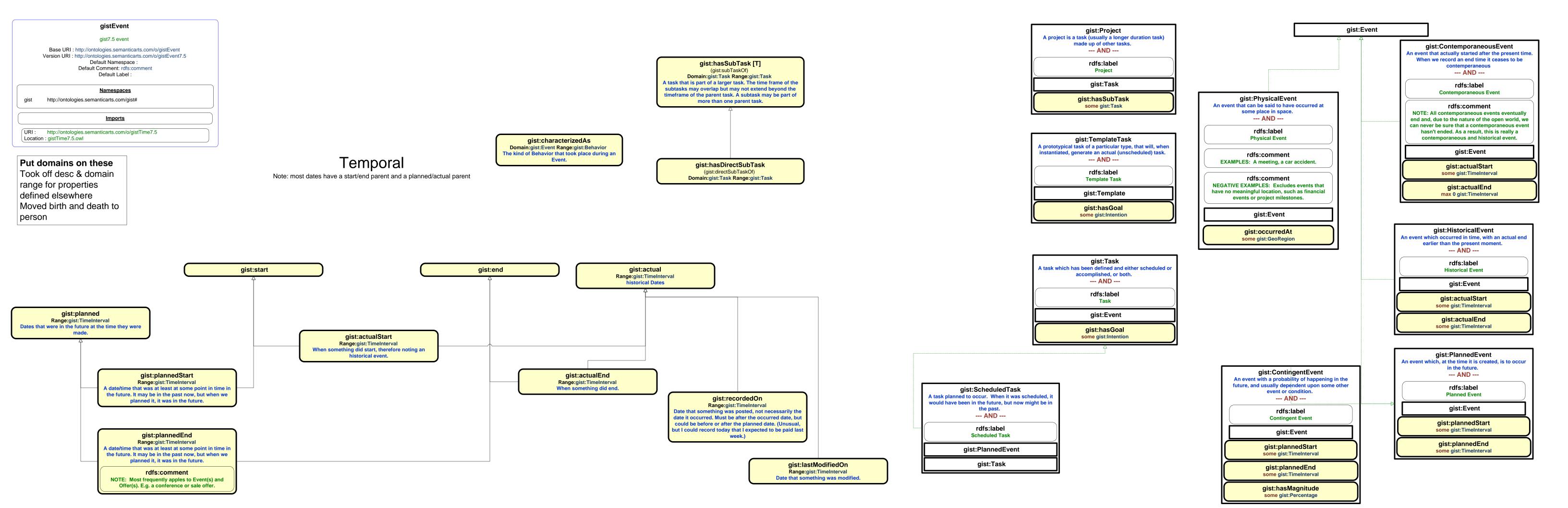
gist:Building

A man-made structure for dwelling or working.

rdfs:label Building

Subclass of

gist:Landmark



gistAddress

gist7.5 Address

Base URI : http://ontologies.semanticarts.com/o/gistAddress Version URI: http://ontologies.semanticarts.com/o/gistAddress7.5 Default Namespace:

Default Comment: rdfs:comment

Default Label :

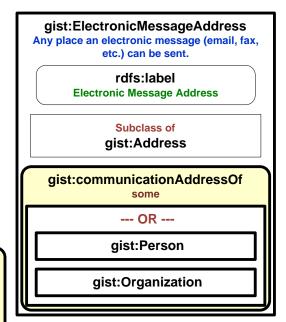
<u>Namespaces</u>

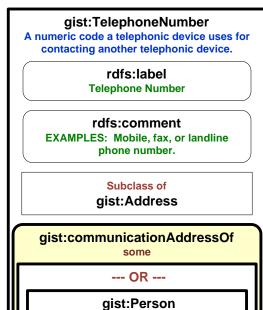
gist http://ontologies.semanticarts.com/gist#

<u>Imports</u>

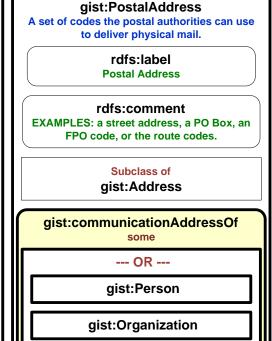
http://ontologies.semanticarts.com/o/gistPlace7.5

Location : gistPlace7.5.owl





gist:Organization



gist:Address A reference to a place (real or virtual) that

can be located by some routing algorithm, and where messages or things can be sent

to or retrieved from. E.g. PO Box or URL to a

pdf file.

rdfs:label

Address

Subclass of

gist:Content



gist:hasStreetAddress

gist:hasCommunicationAddress

(gist:communicationAddressOf)

Range:gist:Address Points to a general class of places you can send

messages including postal addresses, fax numbers,

phone numbers, email, web site, etc.

(gist:streetAddressOf) Range:gist:BuildingAddress A place that can be found on a map, has geo coordinates; you could live or work there.

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

Default Label :

Namespaces

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

<u>Imports</u>

RI: http://ontologies.semanticarts.com/o/gistTop7.5

Location: gistTop7.5.owl

gist:GovernmentOrganization -

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

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

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.

gist:CountryGovernment

The geopolitical body that runs a geopolitical region recognized as a country.

--- AND ---

rdfs:label

Country Government

gist:GovernmentOrganization

gist:directlyRecognizedBy

has gist:_unitedNations

gist:governs some gist:GeoRegion

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.

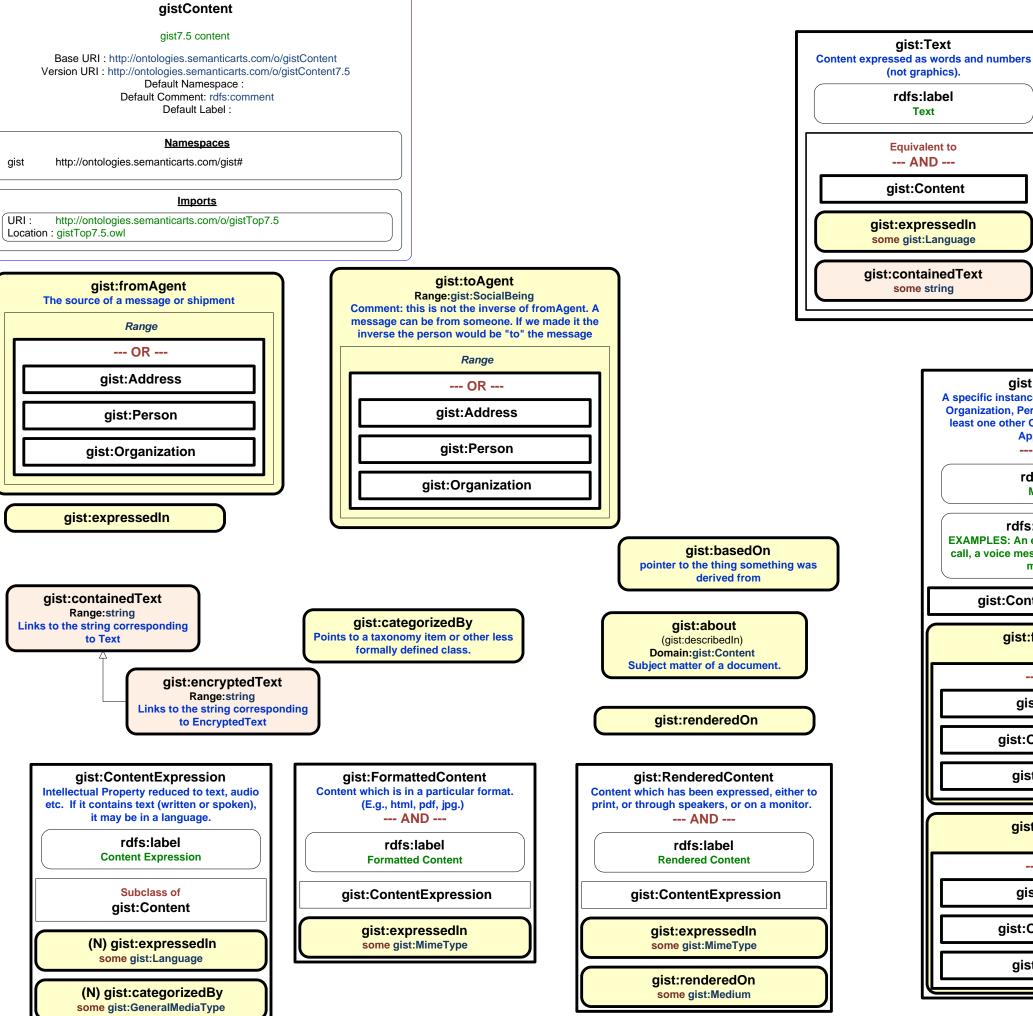
--- AND ---

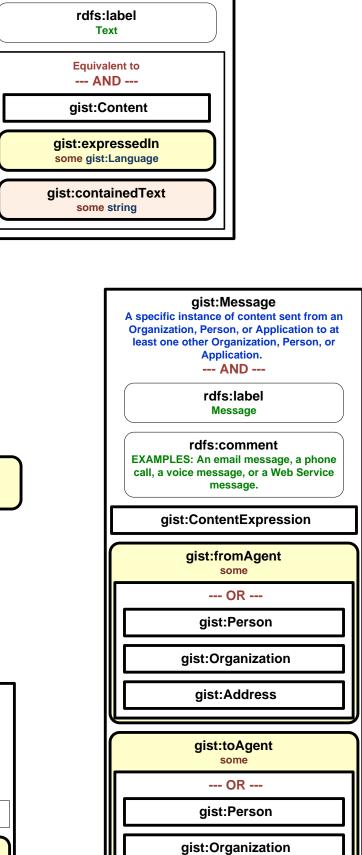
rdfs:label Group

gist:Collection

gist:hasMember

some gist:Person





gist:Address

gist:Medium

A physicality on which a work could be

implemented or exposed. E.g., paper, clay, or a computer monitor.

rdfs:label

Medium

Subclass of

gist:Category

gist:GeneralMediaType

The real-world media type for content.

rdfs:label

General Media Type

rdfs:comment

EXAMPLE: audio, still image, video, textual,

physical (e.g., a statue), or performance (i.e.

a play). Or it could be oil or pastel for a painting.

Subclass of

gist:Category

gist:MimeType

A digitized type that computer applications can recognize.

> rdfs:label MIME Type

> Subclass of

gist:Category

gist:Text

(not graphics).

gistAgreement

gist7.5 agreement

Base URI: http://ontologies.semanticarts.com/o/gistAgreement Version URI: http://ontologies.semanticarts.com/o/gistAgreement7.5 Default Namespace :

Default Comment: rdfs:comment Default Label :

Namespaces

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

http://ontologies.semanticarts.com/o/gistIntention7.5

Location: gistIntention7.5.owl

gist:party

Range:gist:SocialBeing The people or organizations participating in an agreement or obligation

gist:giver

gist:getter

gist: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 gist: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 onger 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

gist:SocialBeing

A Person or an Organization.

rdfs:label

Social Being

rdfs:comment

NOTE: Includes anything than can be party to an Agreement (e.g. Contract). But not all SocialBeing(s) can be parties to all Agreement(s). For example, minors can be beneficiaries, but perhaps not primary signatories on contracts.

Equivalent to --- OR ---

gist:Organization

gist:Person

gist:Commitment

An obligation (possibly unilateral).

--- AND ---

rdfs:label

Commitment

gist:giver

some gist:SocialBeing

gist:categorizedBy

some gist:DegreeOfCommitment

--- OR ---

gist:Restriction

gist:Requirement

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:ContractTerm

A specification of some aspect of a contract.

rdfs:label

Contract Term

Subclass of

gist:Specification

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

An agreement having a balance, as in a bank account, or credit card account, or Accounts Receivable account. --- AND ---

gist:Account

rdfs:label

Account

gist:Agreement

gist:hasMagnitude some gist:Balance

gist:Balance

An amount decremented or incremented by a series of transactions.

--- AND ---

rdfs:label

Balance

gist:Magnitude

gist:Agreement

A contract or other binding agreement,

usually evidenced by signature(s).

--- AND ---

rdfs:label

Agreement

gist:Commitment

gist:party min 2 gist:SocialBeing

gist:hasDirectPart

min 2 gist:Obligation

gist:affectedBy

some gist:Transaction

gist:Transaction An event which has an effect on at least one accumulator.

rdfs:label

Transaction

Subclass of

gist:Event

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

gist:connectedTo

A non owning, non causal, nonsubordinate (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

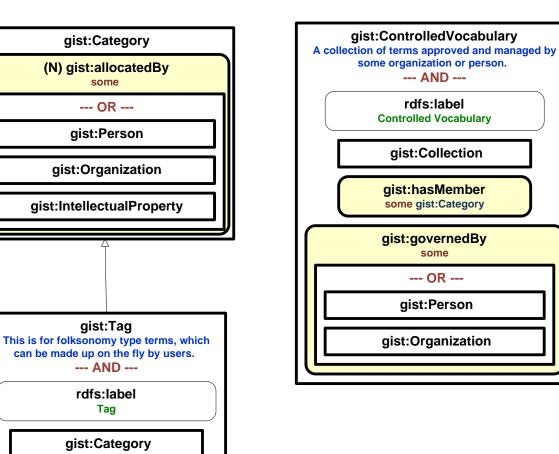
(N) gist:end

some gist:TimeInstant

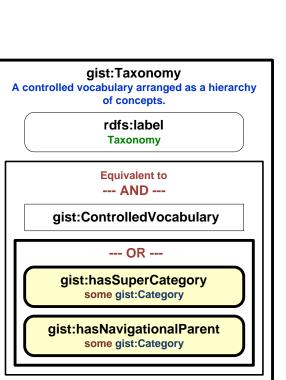
(N) gist:connectedTo

some owl:Thing

gistCategory gist7.5 Categoy Base URI : http://ontologies.semanticarts.com/o/gistCategory Version URI : http://ontologies.semanticarts.com/o/gistCategory7.5 Default Namespace : Default Comment: rdfs:comment Default Label: <u>Namespaces</u> http://ontologies.semanticarts.com/gist# gist <u>Imports</u> http://ontologies.semanticarts.com/o/gistTop7.5 Location : gistTop7.5.owl gist:allocatedBy gist:hasPreferredTerm [F] (gist:preferredTermOf) gist:hasSuperCategory Range:gist:Text (gist:hasSubCategory) If there are many terms for a concept or specific Categories linked in this way are to instance, this is the one to use. represeent true sub types. The categories aren't subtypes but classes defined by a supercategory will be a superclass of one derrived from its sub gist:hasUniqueSuperCategory [F] Used for taxos that must have single parents gist:hasNavigationalParent (gist:hasNavigationalChild) **Used for informal hierarchical** taxonomies. Supports polyhierarchies gist:hasUniqueNavigationalParent [F] Used for taxos that must have single parents



gist:containedText some string



--- AND ---

rdfs:label

--- OR ---

gistIntention

gist7.5 Intention

Base URI: http://ontologies.semanticarts.com/o/gistIntention Version URI: http://ontologies.semanticarts.com/o/gistIntention7.5 Default Namespace :

Default Comment: rdfs:comment Default Label:

<u>Namespaces</u>

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

<u>Imports</u>

http://ontologies.semanticarts.com/o/gistTop7.5

Location : gistTop7.5.owl

gist:prevents

Domain:gist:Intention Range:gist:Behavior

gist:allows

Domain:gist:Intention Range:gist:Behavior

gist:requires

Domain:gist:Intention Range:gist:Behavior

gist:conformsTo

Range:gist:Intention The subject conforms to the Object, e.g. meet an obligation, meet terms of an offer, adhere to a specification

gist:Restriction

A description of things one is prevented from doing. Most laws are restrictions.

--- AND ---

rdfs:label

Restriction

gist:Intention

gist:prevents some gist:Behavior

gist:Requirement

A documented physical or functional need that a particular design, product, or process must be able to perform. Alternately, the obligation of a person or organization to behave in a certain way (i.e., drive on the right side of the road).

rdfs:label

Requirement

Subclass of gist:Intention

gist:requires

some gist:Behavior

gist:Goal

A specific intentional endpoint. One can

tell whether it has been achieved, as opposed to an intention, which may not have an evaluation function.

> rdfs:label Goal

Subclass of gist:Intention

do. This could be broad, such as free speech, but more often is very specific, such as the right of egress through a particular property.

rdfs:label Permission

gist:Intention

gist:ProductSpecification

Offering something which could be physically warehoused or digitally stored.

--- AND ---

rdfs:label

gist:CatalogItem

some gist:ProductCategory

A description of something that can be done for a person or organization (which

gist:CatalogItem

gist:Permission

A description of things one is permitted to

--- AND ---

gist:allows

some gist:Behavior

Product Specification

gist:categorizedBy

gist:ServiceSpecification

produces some form of an act).

--- AND ---

rdfs:label

Service Specification

gist:produces

some gist:Behavior

gist:CatalogItem

A description of a product or service to be delivered, given in a sufficient level of detail that a receiver could determine whether delivery constituted discharge of the obligation to deliver.

rdfs:label

Catalog Item

rdfs:comment

NOTE: In short, an unambiguous characterization of what it is that a potential buyer is paying for.

Subclass of

gist:Specification

gist:BundledCatalogItem

Any combination of descriptions of things offered together. Could be a kit (several parts offered together), but could also be a product plus a warranty.

--- AND ---

rdfs:label

Bundled Catalog Item

gist:CatalogItem

gist:hasDirectPart

some gist:CatalogItem

gist:ProductCategory

Any of many ways of categorizing products, including models, NATO product codes, and the like.

rdfs:label

Product Category

Subclass of

gist:Category

gistMeasure

gist7.5 Measure

Base URI : http://ontologies.semanticarts.com/o/gistMeasure Version URI : http://ontologies.semanticarts.com/o/gistMeasure7.5

Default Namespace :
Default Comment: rdfs:comment
Default Label :

Namespaces

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

<u>Imports</u>

URI: http://ontologies.semanticarts.com/o/gistEvent7.5

Location : gistEvent7.5.owl

gist:ReferenceValue

A measure that was neither measured nor estimated but set by fiat. For instance, a goal. There is no Measurement associated with a ReferenceValue.

> rdfs:label Reference Value

Subclass of gist:Magnitude

gist:Aspect A very general term for the characteristic of something that is being measured. E.g., property (height) or a process (cycle time) or a behavior (loyalty). rdfs:label Aspect gist:aspectOf some --- OR --gist:PhysicalThing gist:Event

gist:hasMember

gist:hasOrderedMember

(gist:orderedMemberOf)
An inverse functional version of hasMember to ensure that no
OrderedMember can be in more than one
OrderedCollection., which can quickly lead to problems.

gist:OrdinalCollection

An Ordered Collection where no item can be of the same rank as any other item. In mathematical terms, this is a 'total order'.

rdfs:label

Ordinal Collection

Subclass of

(N) gist:hasOrderedMember

gist:OrderedCollection

all gist:OrdinalMember

gist:Category

gist:OrdinalMember

A member of an Ordinal Collection. It necessarily precedes or is preceded by another Ordinal Member in the same collection. (This last condition cannot be formally stated in OWL).

rdfs:label

Ordinal Member

(NS) gist:orderedMemberOf

some gist:OrdinalCollection

Subclass of --- OR ---

gist:strictlyPrecedes

some gist:OrdinalMember

gist:strictlyPrecededBy some gist:OrdinalMember

gist:precedes

A generic ordering relation indicating that the Subject has the same order as or comes before the Object. The 'greater than or equal to' symbol is often used for this relation.

gist:strictlyPrecedes (gist:strictlyPrecededBy)

A generic ordering relation indicating that the Subject comes before the Object, it may not be of equal rank. The greater than symbol is often used for this relation.

gist:sameOrderAs [S]

A generic ordering relation indicating that the Subject and the Object have the same ordering. The 'equal to' symbol is often used for this relation.

gist:sameOrderAs [R]

gist:aspectOf

gistWiki

gist7.5 Wiki

Base URI : http://ontologies.semanticarts.com/o/gistWiki Version URI : http://ontologies.semanticarts.com/o/gistWiki7.5 Default Namespace : Default Comment: rdfs:comment

Default Label:

Namespaces

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

<u>Imports</u>

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

gist:pluralForm

Can attach to metadata for wikis to

gist:includes

The relationship of navigation to sub navigation or topic. A topic or node can be included in more than one higher level node. roughly the same as skos:narrower

Domain

--- OR ---

gist:Topic

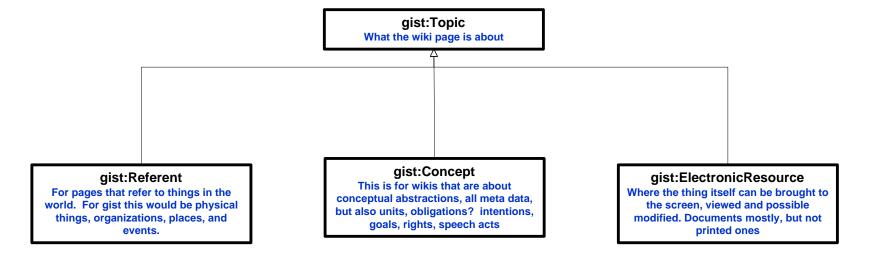
gist:NavigationalNode

Range

--- OR ---

gist:Topic

gist:NavigationalNode



gist:NavigationalNode

The equivalent of a directory, or a node in a navigational tree. Topics can be put into one or more of these.

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 primtive 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#

nports

URI: http://ontologies.semanticarts.com/o/gistUnit7.5

Location : gistUnit7.5.owl

gist:UnitOfMeasure

(N) gist:convertToStandard

some double

(N) gist:hasStandardUnit

some gist:CoherentUnit

gist:CoherentUnit

A unit that is expressed in units that have no conversions. It may be a simple unit. It may also be a product or ratio unit that bottoms out in simple units.

--- OR ---

rdfs:comment

NOTE: coherent unit is the physics term for this, informally you might think of it as the standard unit for a given dimension.

rdfs:comment

NOTE: in principle, the CoherentUnit for a ProductUnit or RatioUnit can be inferred by recursively decomposing the products and ratios into their respective CoherentUnits, bottoming out in SimpleUnits

rdfs:comment

EXAMPLEs: a simple unit: kilogram

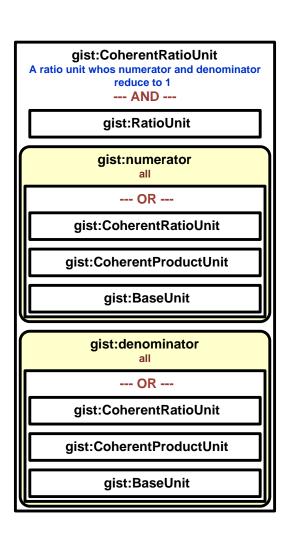
rdfs:comment

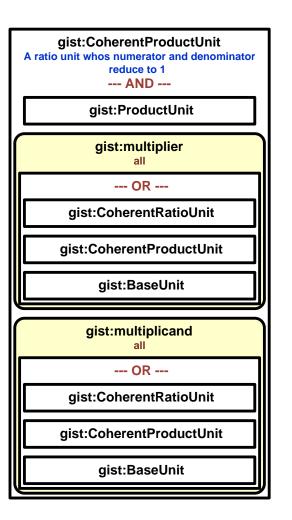
EXAMPLEs: the standard unit for acceleration is meters per square second (feet per square second requires a conversion)

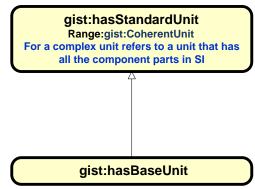
gist:BaseUnit

gist:CoherentRatioUnit

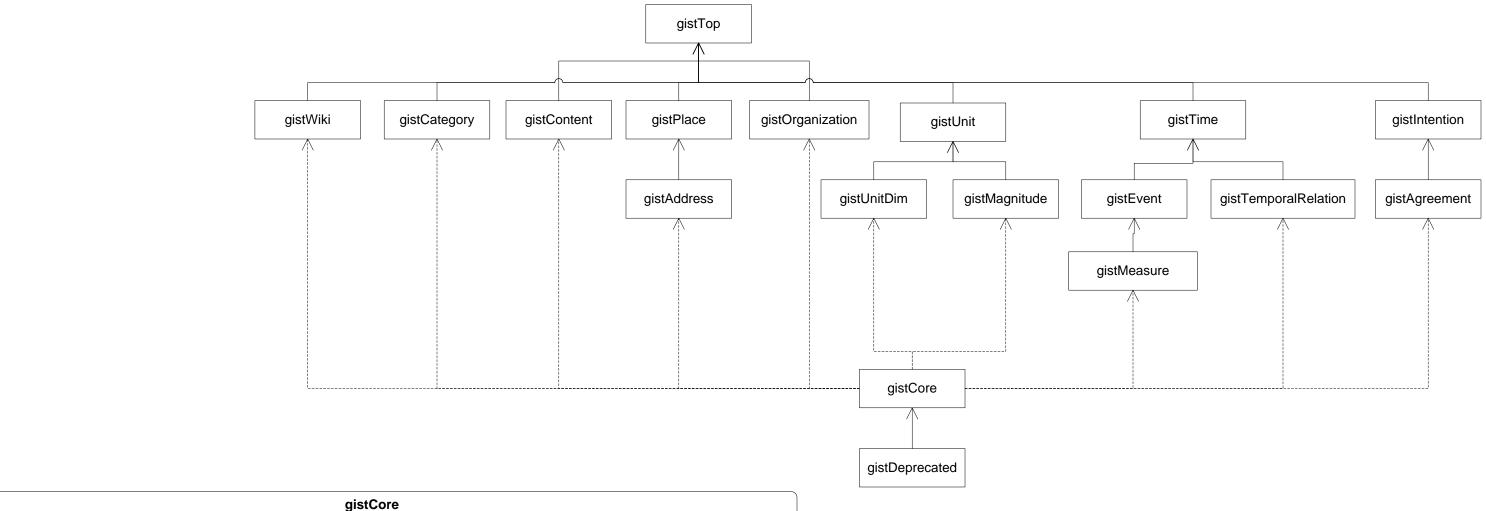
gist:CoherentProductUnit







gist:convertToStandard
Domain:gist:UnitOfMeasure
Range:double
Note this kind of conversion will only
work with temperatures if they are in
Kelvin or Rankine (with a true 0). You
multiple to get to the base, divide to go
from the base. mph to mps is .44704.
The multiple from kph to mps is .277778
. To convert 60 mph to kph is (60 *
.44704 / .277778 or 96.56056 kph



gist7.5 Core

Base URI: http://ontologies.semanticarts.com/o/gistCore Version URI : http://ontologies.semanticarts.com/o/gistCore7.5

Default Namespace : Default Comment: rdfs:comment Default Label:

<u>Namespaces</u>

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

<u>Imports</u>

http://ontologies.semanticarts.com/o/gistWiki7.5

Location : gistWiki7.5.owl

URI: http://ontologies.semanticarts.com/o/gistCategory7.5

Location : gistCategoryii7.5.owl

URI: http://ontologies.semanticarts.com/o/gistContent7.5

Location : gistContent7.5.owl

URI: http://ontologies.semanticarts.com/o/gistAddress7.5

Location : gistAddress7.5.owl

URI: http://ontologies.semanticarts.com/o/gistOrganization7.5

Location : gistOrganization7.5.owl

URI: http://ontologies.semanticarts.com/o/gistMagnitude7.5 Location: gistMagnitude7.5.owl

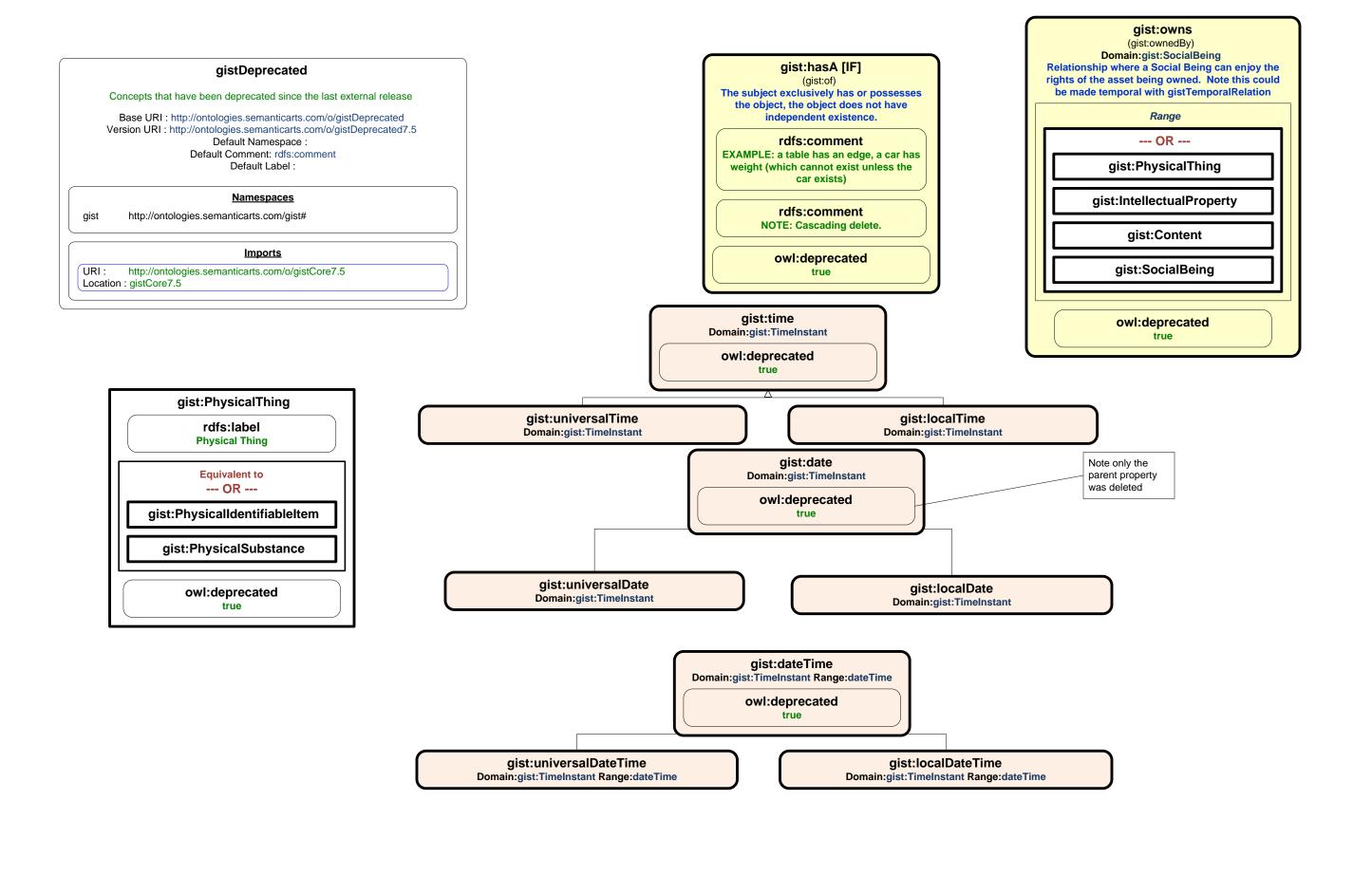
URI: http://ontologies.semanticarts.com/o/gistUnitDim7.5 Location : gistUnitDim7.5.owl

URI: http://ontologies.semanticarts.com/o/gistMeasure7.5 Location: gistMeasurement7.5.owl

URI: http://ontologies.semanticarts.com/o/gistAgreement7.5 Location : gistAgreement7.5.owl

URI: http://ontologies.semanticarts.com/o/gistTemporalRelation7.5

Location : gistTemporalRelation7.5.owl



KEY for Change Log

- V: Visio/Visualization changes only, not affect the owl (callouts, layout, grouping
- 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

7.4 11/28/2016 SU/SI: (AE) [gistMag, gistEvent] - removed gist:hasA as the super-property of all its sub-properties except gist:identifiedBy (hasPrecision, hasMagnitude, actual, planned, start, end) 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 1/11/20	BI: (DMc) [gitSHACL],deleted, moved to dcao (BI for anyone using gistSHACL which we believe was no one
7.5 1/11/20 modules may	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 need to double check. Most likely you will have a few more classes than previous.
7.5 1/11/20	AD: (DMc) gistTop added the class gist:SchemaMetadata as a covering concept for metadata level projects
7.5 1/17/20	17 RF: (DMc) gistDim& gistUom mved teh exactly restriction to the uom ontology
7.5 1/17/20	17 CL: (DMc) gistUoM removed the min 0 from product unit
7.5 1/17/20	17 RF: (DMc) gistTop & gist:Event moved Behavior to top
7.5 1/17/20	BI: (DMc) gistTop & gistIDremoved gist:hasA it was being misused more often than correctly used (in deprecated if anyone needs it)
7.5 1/17/20	17 RF: (DMc) gistIDr moved Social Being to Agreement
7.5 1/17/20	17 RF: (DMc) gistCat & gistOrg moved governs to gistTop
7.5 1/17/20	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 1/17/20	BI: (DMc) gistTime removed gist:time and gist:date, as any use would want to specify local or grenich
7.5 1/17/20	17 BI: (DMc) gistTime removed gist:of restriction from TimeInstant and added epoch
7.5 1/17/20	RF: (DMc) gistTime gistTop moved start and end to gistTop
7.5 1/17/20	RF: (DMc) gistTime gist:Place moved TimeZone and timezoneoffset from place to time
7.5 1/17/20	RF: (DMc) gistAddress changed the restrictions from SocialBeing to Person or Organization
7.5 1/17/20	RF: (DMc) gistPerson emptied out the Person ontology to the top. anything more to say?
7.5 1/17/20	RF: (DMc) gistTime Instant no logner sub of Interval
7.5 1/17/20	AD: (DMc) gistTime added a Genich insttant rather than move all the time zone stuff to top
7.5 1/17/20	BI: (DMc) git:Top, gistEvent replaced gist:Place with gist:GeoRegion for governing and occurredAt
7.5 1/17/20	BI: (DMc) git:Top, removed geoDirecltyContains some point from geoRegion (not clear what it was to be centroid,?
7.5 1/17/20	SI: (DMc) git:Top, loosened governs domain from Agreement to Intention
7.5 1/17/20	SI: (DMc) git:Top, loosened madeupofs domain from PhysicaThing to nothing
7.5 1/21/20	RF: (DMc) git:Top,gistUnit moved Duration, Extent, Weight, Area and Voilume to top, as they participate in the definitions
7.5 1/21/20	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 1/21/20	BI (DMc] gistWiki took out the inverse to includes (was not referenced anywhere)
7.5 2/18/20	17 RF (DMc] gistagree and gistIntention moved the specification stuff to intention
7.5 2/18/20	17 RF (DMc] gistTop and gistIntention moved specification to top for use with Time
7.5 2/18/20 think thats a	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 etter tradeoff.
7.5 2/18/20	AD (DMc] gistUnit added the unit symbol data types
7.5 2/18/20	RF (DMc] gistmag and gistTop, moved hasMag to top because of Area
7.5 2/18/20	BI (DMc] gitPhysicalThing deleted Physical Thing wasn't needed
7.5 2/18/20	17 RF (DMc] deleted the empty Person Id and PhysicalThing ontology tabs