

gist:SocialBeing

rdfs:label Social Being

rdfs:comment

Equivalent to --- OR ---

gist:Organization

purpose.

rdfs:comment

gist:Person

rdfs:comment

rdfs:comment

rdfs:comment

rdfs:comment

necessary.

gist:Collection

collection of segments

rdfs:label

rdfs:comment

fundamentally

rdfs:comment

gist:Content

gist:IntellectualProperty

Brands.

gist:Intention

gist:Language

gist:Magnitude

gist:PhysicalIdentifiableItem

gist:PhysicalSubstance

livided in half and still retain its essence (

ater, penicillin and even h. pilori bacteria ex

for those very rare cases where someone is

studying an individual bacterium).

gist:Place Locatable location

gist:TimeInstant

still single point in time (January 1, 200 ime and dates are in xsd: DateTime format Universal Time. Our identity criteria require that

(as in 12:01.0001 January 1, 2008), or a broade

something has (refers to) this instance

gist:TimeInterval specific interval on a time line with start and

gist:UnitOfMeasure he primitive units can be converted, the

ecompose to their primitive. Each unit has a

complex units (ratio or product) have to

ase unit and a conversion factor to the ba

get from base. So the convertToBase for inch

0.0254 to get you to the base (meter)

gist:PhysicalThing

Something that takes up space and has

weight.

Equivalent to

--- OR ---

gist:PhysicalIdentifiableItem

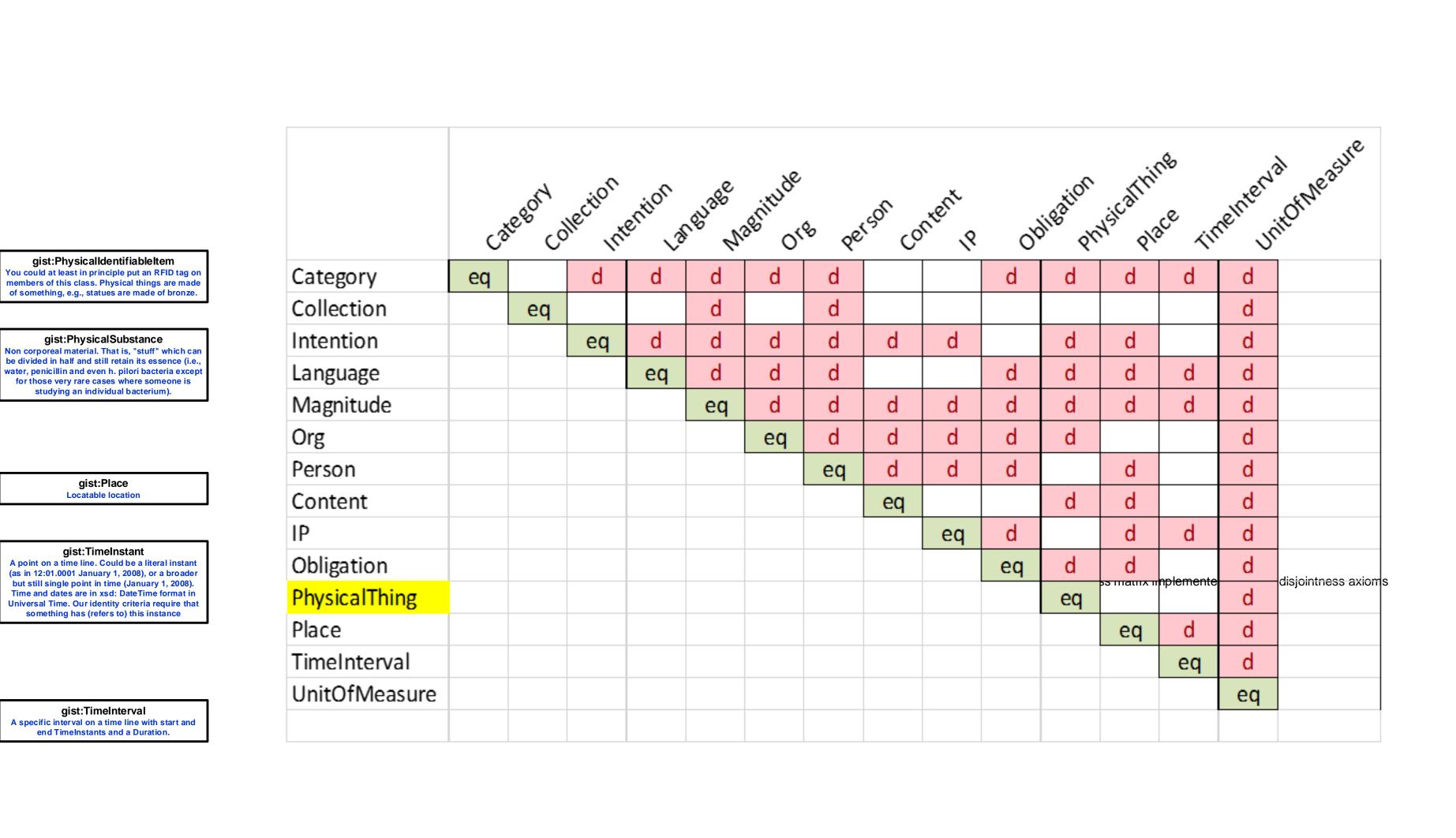
gist:PhysicalSubstance

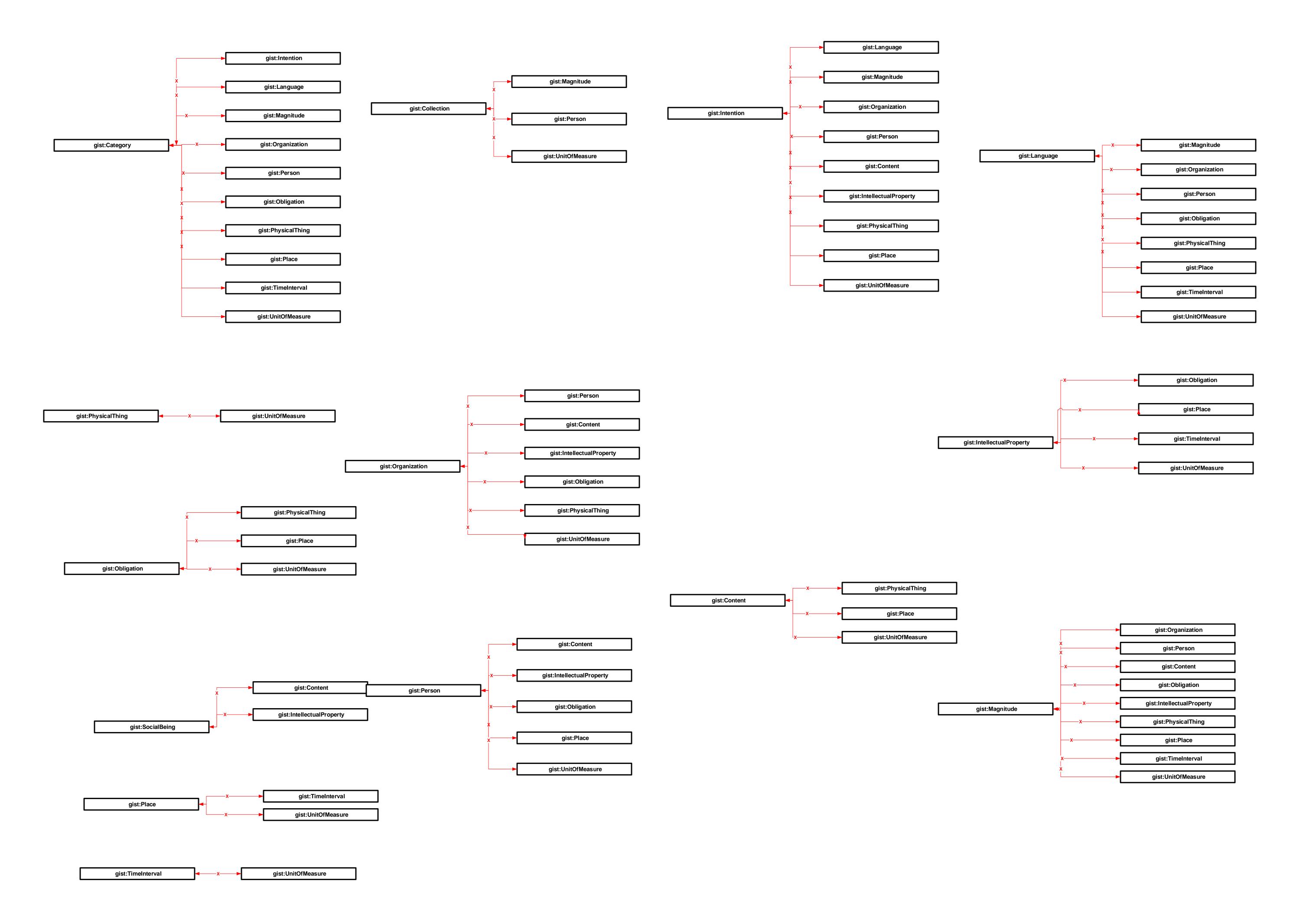
The bases are from SI. This is the number you

ultiple a Unit by to get to base or divide by to

corporeal material. That is, "stuff" which ca

A Person or an Organization.





semantic arts

rdfs:label Introduced the product unit (similar to the ratio unit where two units Temperature Unit are multiplied), and made area and volume specialization gist:SimpleUnitOfMeasure gist:DistanceUnit gist:hasBaseUnit Inits to measure linear distance such as has gist:kelvin feet and kilometers. --- AND --gist:conversionOffset rdfs:label some double Distance Unit gist:SimpleUnitOfMeasure gist:ElectricalCurrentUnit gist:hasBaseUnit Units of electrical charge(volt). Note that wattage, current and kilowatt hours are has gist:meter composed units. gist:UnitOfMeasure --- AND --rdfs:label gist:DurationUnit rdfs:label Unit of Measure Electrical Current Unit nits to measure passage of time, hours days, years. --- AND --gist:SimpleUnitOfMeasure rdfs:label gist:hasBaseUnit **Duration Unit** has gist:ampere gist:ProductUnit oduct Units are units of measure that are gist:SimpleUnitOfMeasure gist:RatioUnit gist:SimpleUnitOfMeasure he product of two simpler ones. Area and UnitOfMeasure composed of a numerate The primitive units can be converted, th olume are the classic cases, but other unit and a denominator unit. complex units (ratio or product) have to gist:LuminescenceUnit nore exotics cases exist, like newtons. decompose to their primitives. Each uni --- AND --gist:hasBaseUnit Measure of brightness (candles). --- AND --has a base unit and a conversion factor to has gist:second --- AND --the base. The bases are from SI. This is the rdfs:label number you multiple a Unit by to get to Ratio Unit rdfs:label Product Unit base or divide by to get from base. So the convertToBase for inch is 0.0254 to get Luminescence Unit rdfs:comment you to the base (meter) gist:UnitOfMeasure --- AND ---EXAMPLE: miles/hour gist:SimpleUnitOfMeasure gist:MassUnit Units of weight, e.g., pounds, kilos, etc. rdfs:label gist:multiplier gist:hasBaseUnit rdfs:comment Simple Unit Of Measure some gist:UnitOfMeasure has gist:candela NOTE: If needed, a conversion factor for a rdfs:label RatioUnit can be (recursively) derived from Mass Unit gist:convertToBase e conversion factors of the numerator and gist:multiplicand denominator units. E.g. the derived some double some gist:UnitOfMeasure nversion factor from km/minute to meters gist:SimpleUnitOfMeasure gist:MoleUnit second is 1000/60 or 16 2/3. Amount of chemical material. Measured i gist:hasBaseUnit gist:convertToBase avagadro units of 6.02 x 10 ^23 molecules exactly 1 gist:BaseUnit min 0 double gist:hasBaseUnit --- AND --has gist:kilogram gist:UnitOfMeasure rdfs:label Mole Unit gist:numerator gist:BaseUnit some gist:UnitOfMeasure gist:SimpleUnitOfMeasure

gist:denominator

some gist:UnitOfMeasure

gist7.1 units of measure

Base URI: http://ontologies.semanticarts.com/o/gistUnit

Version URI: http://ontologies.semanticarts.com/o/gistUnit7.1

gist:convertToBase

Domain:gist:UnitOfMeasuredouble

ne conversion factor used to get to the

pase unit. E.g., multiplying by 0.0254

by this number to go the other way.

Used in conjunction with

unit to another.

Degrees K = (Degrees F -

= (F-(-469.67)) * (5/9). To go the other

way: F = (K * 9/5) - 469.67. Try it on

gist:conversionOffset

Domain:gist:UnitOfMeasuredouble

ld this number to get to the zero point

nversionOffset is -273.15 degrees C

On the Fahrenheit scale it is -459.67

degrees. Is equal to 0 when the unit has

inch, meter.

e same zero point as the base unit. e.g.

On the Celsius scale, the

Google.

ets you from inches to meters. Divide

versionOffset to convert from one

ersionOffset) * convertToBase. Or k

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

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

qist:hasBaseUnit

Domain:gist:UnitOfMeasure

Range:gist:BaseUnit

Relates a UnitOfMeasure to its BaseUnit.

e.g. saying that a furlong hasBaseUnit meto

says it is a DistanceUnit.

rdfs:comment

EXAMPLE: saying that a furlong

hasBaseUnit meter says it is a DistanceUr

gist:numerator

Domain:gist:RatioUnit

Range:gist:UnitOfMeasure

Relates a RatioUnit such as meter(s)/

gist:denominator

Domain:gist:RatioUnit

Range:gist:UnitOfMeasure

elates a Ratio Unit such as meters/secon

gist:multiplier

Domain:gist:ProductUnit

Range:gist:UnitOfMeasure

to the first of two units multiplied togethe

(e.g. mile)

gist:multiplicand

Domain:gist:ProductUnit Range:gist:UnitOfMeasure

Relates a ProductUnit such as square mile to

the second of two units multiplied together (e.g. mile).

elates a ProductUnit such as square mile

to the denominator Unit (e.g. second).

second to the numerator Unit (e.g. meter)

This indicates what kind Unit something is,

gist:CurrencyUnit

Units of money. Note: this is the only unit

whose conversion factors include time

(i.e., the conversion rates change on a

--- AND ---

rdfs:label

Currency Unit

gist:SimpleUnitOfMeasure

gist:hasBaseUnit

has gist:uSDollar

gist:CountingUnit

Units of counting, especially "each" but

also units such as dozens.

--- AND ---

rdfs:label

Counting Unit

gist:SimpleUnitOfMeasure

gist:hasBaseUnit

has gist:each

gist:TemperatureUnit emperatures have a different zero value and therefore need an offset for

conversion.

--- AND ---

gist:hasBaseUnit

has gist:mole

--- AND --rdfs:label Area Unit gist:ProductUnit gist:multiplier some gist:DistanceUnit gist:multiplicand some gist:DistanceUnit gist:VolumeUnit Units of three dimensional space, expressed here as an area times a distan --- AND --rdfs:label Volume Unit gist:ProductUnit gist:multiplier some gist:AreaUnit gist:multiplicand some gist:DistanceUnit

gist:AreaUnit

Units of two-dimensional area such as

square inches and hectares.

gist:BaseUnit - gist:each -gist:hasBaseUnit ->gist:convertToBase - 1.0 double gist:BaseUnit - gist:kilogram Square and cubic meters are no longer base units gist:kilogram -gist:hasBaseUnit ->qist:convertToBase - 1.0 double gist:kelvin gist:convertToBase - 1.0 double -gist:hasBaseUnit ->gist:kelvin gist:conversionOffset - (gist:BaseUnit The base units in gist are the seven double primary ones from SI (second, kilogram etc) plus two convenience ones: each and usDollar. --- ALL DIFFERENT --gist:ampere --- ENUM --gist:convertToBase - 1.0 gist:ampere -gist:hasBaseUnit -> gist:each double Base Unit gist:kilogram gist:each gist:candela gist:kelvin gist:convertToBase - 1.0 -gist:hasBaseUnit -> gist:candela gist:kilogram gist:ampere double gist:kelvin gist:candela gist:mole gist:ampere gist:convertToBase - 1.0 gist:mole –gist:hasBaseUnit -> gist:mole double gist:candela gist:second gist:mole gist:BaseUnit - gist:second gist:meter gist:second gist:hasBaseUnit -> gist:convertToBase - 1.0 double gist:second gist:uSDollar gist:meter gist:BaseUnit - gist:meter gist:uSDollar gist:meter gist:hasBaseUnit -> gist:convertToBase - 1.0 double gist:BaseUnit - gist:uSDollar gist:uSDollar gist:convertToBase - 1.0 double

gistMagnitude

gist7.1 magnitudes

Base URI: http://ontologies.semanticarts.com/o/gistMagnitude Version URI: http://ontologies.semanticarts.com/o/gistMagnitude7.1

<u>Namespaces</u>

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

http://ontologies.semanticarts.com/o/gistTop 7.1

Location : gistTop7.1.owl

http://ontologies.semanticarts.com/o/gistUnit7.1

Location: gistUnit7.1.owl

gist:hasA [IF]

gist:hasPrecision

Range:gist:Magnitude Links a Magnitude to the degree of accuracy of the numeric value. This allows for fuzzy numbers. All magnitudes have a precision. Usually we don't record them. When we do this, it will be a value whose extent covers 2 standard deviations around the stated magnitude

rdfs:comment

NOTE: Most frequently apples to Magnitude(s) and TimeInstant. Could also apply to a measurement.

rdfs:comment

EXAMPLE: Temperature precise to tenth of a degree C; TimeInstant precise to 24

gist:Count

Measures that involve countable amounts ("eaches" as well as cases, etc.). Can be decimal. Note: we did not make count disjoint with all the other magnitudes as there are some magnitudes that could conceivably be counted (say distance in rods, it's a bit of a stretch admittedly but shouldn't harm anything).

--- AND ---

rdfs:label

gist:Magnitude

gist:hasUoM

some gist:CountingUnit

gist:Magnitude

A scalar value which is either measured, estimated or set as a reference value. Magnitudes of the same dimensional type (i.e., duration or electric current) can be compared with a greater than or less than operator, but can still differ in their relationToTheWorld type (i.e., you can compare actuals to estimates or references as long as the dimension is the same).

--- AND ---

rdfs:label Magnitude

rdfs:comment

NOTE: Note the precision should be in the same type of unit as the magnitude but we'd need rules to enforce that

gist:hasUoM

some gist:UnitOfMeasure

gist:hasPrecision

some gist:Magnitude

gist:of

some owl:Thing

gist:decimalValue

some double

gist:hasUoMDomain:gist:Magnitude Range:gist:UnitOfMeasure

Which unit of measure you are using. All measures are in some uom, even if we don't know what it is initially.

gist:ProductMagnitude gist:currencyValueDomain

gist:hasMagnitude

Range:gist:Magnitude

To have a comparable numerical value.

Each magnitude has a unit.

gist:decimalValueDomain:

gist:Magnitudedouble

gist:Magnitudedouble

Currencies are rounded to

specified precision

These are magnitudes expresses as products of primitives (such as force M*A) --- AND ---

rdfs:label

Product Magnitude

gist:Magnitude

gist:hasUoM

some gist:ProductUnit

gist:Duration

Time, but not on time line. For instance one week, or seven days, but not Jan 1, 2008 to Jan 7, 2008 (which is an interval). Intervals have durations but aren't durations.

--- AND ---

rdfs:label

Duration

gist:Magnitude

gist:hasUoM

some gist:DurationUnit

gist:Extent

A measure of distance which could be distances over the earth, and could also be height, width, length, depth, girth, etc.

--- AND ---

rdfs:label

Extent

gist:Magnitude

gist:hasUoM

some gist:DistanceUnit

gist:Weight

Magnitude of mass. Assumes object is near the earth's surface, so weight and mass are equivalent for our purposes. --- AND ---

rdfs:label

Weight

gist:Magnitude

gist:hasUoM

some gist:MassUnit

gist:RatioMagnitude

--- AND ---

rdfs:label

Ratio Magnitude

gist:Magnitude

gist:hasUoM

some gist:RatioUnit

gist:Area

Two-dimensional area.

--- AND ---

rdfs:label

Area

gist:Magnitude

gist:hasUoM some gist:AreaUnit

gist:Volume

Three dimensional space or equivalent fluid measurement.

--- AND ---

rdfs:label

Volume

gist:Magnitude

gist:hasUoM

some gist:VolumeUnit

gist:Monetary

Special type of magnitude due to the way rounding is handled in math and temporal aspect of conversion.

--- AND ---

rdfs:label

Monetary

gist:Magnitude

gist:currencyValue

some double

gist:hasUoM

some gist:CurrencyUnit

gist:Percentage

This is a ratio class where the numerator and denominator are of the same unit of measure. This would have to be enforced as a SWRL rule. Note: there are various ways to represent percentage: 50/100 could be represented as "50" or "0.5". We have chosen the later as it involves fewer conversions for subsequent use.

rdfs:label Percentage

Subclass of gist:RatioMagnitude

rdfs:label **Temperature**

gist:hasUoM

gist:Temperature

Base of temperature is in Kelvin per SI to

allow for all units to be expressed relative

to a real (in this case absolute) zero.

--- AND ---

some gist:TemperatureUnit

gist:Magnitude

gist:ElectricCurrent

Voltage --- AND ---

rdfs:label

Electric Current

gist:hasUoM

some gist:ElectricalCurrentUnit

gist:Magnitude

gist:Luminance

Measure of light --- AND ---

rdfs:label Luminance

gist:Magnitude

gist:hasUoM

some gist:LuminescenceUnit

gist:MolarQuantity

Amount of a substance as counted molecules. It's here for completeness, in case we bridge to an SI unit conversion ontology. It is unlikely a commercial system, with the possible exception of some involved in chemical research, would use this. Note: I left out the disjointness with Count, Weight and Volume as there is some ambiguity, at least in my mind, as to whether they are mutually exclusive.

rdfs:label **Molar Quantity**

--- AND ---

gist:Magnitude

gist:hasUoM

some gist:MoleUnit

gistTime

gist7.1 time

Base URI: http://ontologies.semanticarts.com/o/gistTime Version URI: http://ontologies.semanticarts.com/o/gistTime7.1

Names paces

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

<u>Imports</u>

JRI: http://ontologies.semanticarts.com/o/gistMagnitude7.1

Location: gistMagnitude7.1.owl

gist:startDomain:gist:TimeInterval Range:gist:TimeInstant

> gist:endDomain:gist:TimeInterval Range:gist:TimeInstant

gist:timeZoneStandardUsed

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

gist:sameTimeAs [S]Domain:gist:TimeInstant

Range:gist:TimeInstant
Allows relating local time to universal time.

gist:TimeInterval

A specific interval on a time line with start and end TimeInstants and a Duration.

rdfs:label

Time Interval

rdfs:comment

EXAMPLE: Jan1 through Jan8, 2013

(N) gist:start

some gist:TimeInstant

(N) gist:end

some gist:TimeInstant

(N) gist:hasMagnitude

some gist:Duration

rdfs:comment

EXAMPLE: Jan1 through Jan8, 2013

rdfs:comment

NOTE: has a Duration, but is not a Duration.

rdfs:comment

NOTE: end should be later than start, but this is not enforced

gist:universalDateTimeDomain:gist:TimeInstantdateTime

gist:time
Domain:gist:TimeInstant

gist:universalTime
Domain:gist:TimeInstant

gist:date
Domain:gist:TimeInstant

gist:universalDate
Domain:gist:TimeInstant

gist:date
Domain:gist:TimeInstant

gist:universalDate
Domain:gist:TimeInstant

gist:localDate
Domain:gist:TimeInstant

gist:TimeInterval

giet.Timelneten

gist:TimeInstant

A point on a time line. Could be a literal instant (as in 12:01.0001 January 1, 2008), or a broader but still single point in time (January 1, 2008). Time and dates are in xsd: DateTime format in Universal Time. Our identity criteria require that something has (refers to) this instance. We are declaring a time instant to be an interval with no duration (or really a duration only equal to its precision)

rdfs:label

Time Instant

(N) gist:hasPrecision

some gist:Duration

(N) gist:universalDateTime

some dateTime

(N) gist:universalDate

min 1

(N) gist:universalTime

min 1

(N) gist:timeZoneStandardUsed

has gist:_greenwichTimeZone

(N) gist:of

some owl:Thing

rdfs:comment

EXAMPLE: 12:01.0001 April8, 2012 or March 8, 1955 gist:TimeZoneStandard - gist:_greenwichTimeZone

Added grenich time zone

gist:TimeZoneStandard --- AND ---

rdfs:label

Time Zone Standard

gist:Specification

gist:basedOn

some gist:TimeZone

Note: converted date and time from xsd:date and xsd:time to min 1 blank because Fact++ doesn't recognized date or time

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

--- AND ---

rdfs:label

Local Instant

gist:timeZoneStandardUsed

some gist:TimeZoneStandard

(N) gist:sameTimeAs

some gist:TimeInstant

gist:localDateTime

some dateTime

gist:localDate

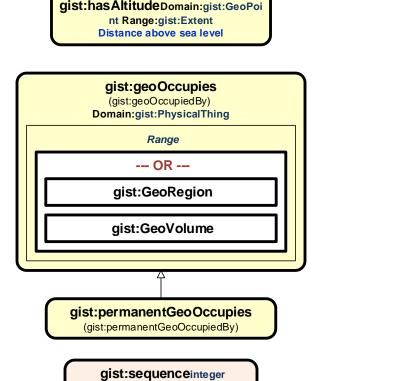
min 1

gist:localTime

min 1

gist:TimeInstant

gistPlace gist7.1 place Base URI: http://ontologies.semanticarts.com/o/gistPlace Version URI: http://ontologies.semanticarts.com/o/gistPlace7.1 **Namespaces** gist http://ontologies.semanticarts.com/gist# http://ontologies.semanticarts.com/o/gistPhysicalThing7.1 Location: gistPhysicalThing7.1.owl http://ontologies.semanticarts.com/o/gistMagnitude7.1 Location: gistMagnitude7.1.owl gist:offsetToUniversalDomain:gist: TimeZone Range:gist:Duration gist:fromPlace Range:gist:Place gist:toPlace Range:gist:Place



For ordering ordered lists.

gist:latitudeDomain:gist:GeoPointdouble

gist:longitudeDomain:gist:GeoPointdouble

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:GeoPoint

Individual point on Earth's surface, including latitude, longitude and altitude. If altitude is missing, assumed to be at the earth's surface, however, altitude is measured from sea level.

--- AND ---

rdfs:label **Geo Point**

gist:hasAltitude some gist:Extent

> gist:latitude some double

gist:longitude

some double

rdfs:comment NOTE: Altitude is above sea level.

rdfs:comment

NOTE: Assume coordinate system used by Google.

gist:GeoRegion

Bounded region(s) on surface of the earth. At this level a geoRegion could be noncontiguous; e.g. the region governed by the USA is the region governed by the lower 48 states plus that of Alaska and Hawaii). Child classes in lower ontologies can make this distinction.

--- AND ---

rdfs:label **Geo Region**

gist:geoDirectlyContains some gist:GeoPoint

gist:hasMagnitude

some gist:Area

rdfs:comment

EXAMPLE: the bounded shape that defines the region occupied by Crater Lake; the bounded are known as the continguous USA

rdfs:comment

NOTE: GeoRegion has an area, but it isn't an area (area in gist is a magnitude)

gist:OrderedCollection

rdfs:label

Ordered Collection

Subclass of gist:Collection

gist:TimeZone

I haven't found a definitive source for time zone names or their geoboundaries. I'll suggest the tz database for now.

--- AND ---

rdfs:label Time Zone

gist:GeoRegion

gist:offsetToUniversal

some gist:Duration

gist:GeoSegment

Single segment. --- AND ---

> rdfs:label **Geo Segment**

gist:fromPlace

exactly 1 gist:GeoPoint

gist:toPlace

exactly 1 gist:GeoPoint

gist:GeoRoute

Ordered set of GeoPoints that define a route from starting point to ending point. --- AND ---

rdfs:label

Geo Route

gist:OrderedCollection

gist:hasDirectPart some gist:GeoSegment

gist:GeoVolume

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

Added volume and three D point

gist:Place

Locatable location --- OR ---

rdfs:label

gist:GeoRoute

gist:GeoSegment

gist:Landmark

gist:Room

gist:GeoPoint

gist:GeoRegion

gist:GeoVolume

gist:Room

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

rdfs:label

gist:directPartOf some gist:Building

gist:identifiedBy some gist:ID

gist:Landmark --- AND ---

rdfs:label

gist:PhysicalIdentifiableItem

gist:permanentGeoOccupies

--- OR ---

gist:GeoVolume

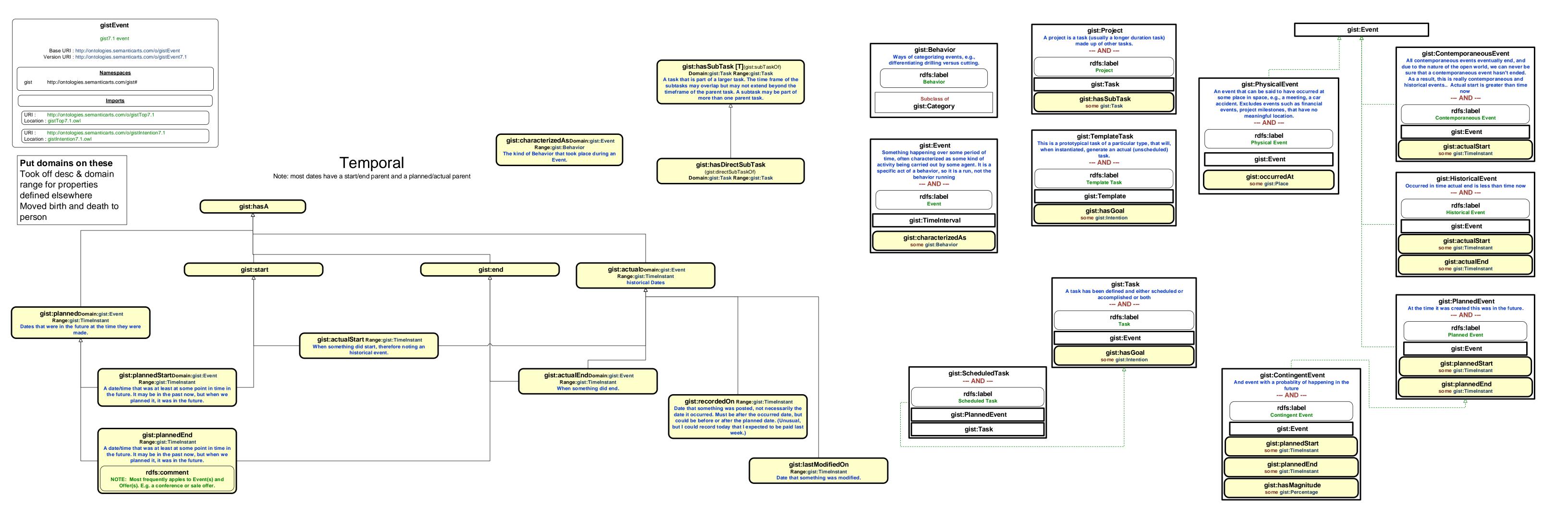
gist:GeoRegion

gist:Building

rdfs:label Building

Subclass of

gist:Landmark



gistAddress

gist7.1 Address

Base URI: http://ontologies.semanticarts.com/o/gistAddress Version URI: http://ontologies.semanticarts.com/o/gistAddress7.1

Namespaces

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

Imports

JRI: http://ontologies.semanticarts.com/o/gistContent7.1

Location: gistContent7.1.owl

RI: http://ontologies.semanticarts.com/o/gistPlace7.1

Location : gistPlace7.1.owl

gist:hasCommunicationAddress

 $({\it gist:} communication Address Of)$

Domain:gist:SocialBeing Range:gist:Address
The general class of places you can send messages
including postal addresses, fax numbers, phone
numbers, email, web site, etc.

gist:hasStreetAddress

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

gist:PostalAddress

A set of codes the postal authorities can use to deliver mail. Could be a street address, could be a postal address, could be the route codes.

rdfs:label

Postal Address

Subclass of gist: Address

(N) gist:communicationAddressOf

some gist:SocialBeing

rdfs:comment

EXAMPLE: a street address, a PO Box, an FPO code

gist:TelephoneNumber

Some phone numbers accept faxes, some allow Internet access, etc.

rdfs:label

Telephone Number

rdfs:comment

EXAMPLE: cell, fax, landline

Subclass of

gist:Address

gist:communicationAddressOf

some gist:SocialBeing

gist:BuildingAddress

An address that you can send mail to or that you could find in the physical world.

rdfs:label

Building Address

Subclass of

gist:Address

(N) gist:streetAddressOf

some gist:Building

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:ElectronicMessageAddress

Any place a message can be sent (email, fax, etc.).

rdfs:label

Electronic Message Address

Subclass of

gist:Address

gist:communicationAddressOf

some gist:SocialBeing

Need something here on the types of things that can be sent, text messages, images, audio messages, letters, small packages, trucks, boats.etc (this is a taxo)

Probably should put the communication preferences stuff here

gistPerson

gist7.1 Person

Base URI: http://ontologies.semanticarts.com/o/gistPerson Version URI: http://ontologies.semanticarts.com/o/gistPerson7.1

Namespaces

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

<u>Imports</u>

URI: http://ontologies.semanticarts.com/o/gistPhysicalThing7.1

Location: gistPhysicalThing7.1.owl

URI: http://ontologies.semanticarts.com/o/gistAddress7.1

Location: gistAddress7.1.owl

gist:offspringOf(gist:parentOf)
Domain:gist:LivingThing
Range:gist:LivingThing

gist:nameNote this can be firstName lastName, fullName etc

gist:actualEnd gist:actualEnd gist:hasBirthDateDomain:gist:LivingThing Range:gist:TimeInstant Date a living thing was "born" (or germinated, for plants). gist:hasDeathDateDomain:gist:LivingThing Range:gist:TimeInstant Date a living thing died

gist:hasOccupant(gist:occupantOf)
Domain:gist:Building Range:gist:SocialBeing
More specific form of incumbent where we are
referring to residing at or working at, or doing
business at a very specific location.

gist:LivingThing

Something that is or at some point was alive and growing.

--- AND ---

rdfs:label

Living Thing

rdfs:comment

NEGATIVE EXAMPLE: fictional life forms such as Unicorns or Mickie Mouse

rdfs:comment

EXAMPLE: a cat, a mushroom, a tree

rdfs:comment

NOTE: Is or at some point was alive and growing. With open world you never know if it has since died.

gist:PhysicalIdentifiableItem

gist:offspringOf

some gist:LivingThing

gist:hasBirthDate

some gist:TimeInstant

gist:Person

This is a member of homo sapiens, who has lived at some point, and may or may not be dead. With open world you never know if someone has died. Fictitious people are not persons.

--- AND ---

rdfs:label

Person

rdfs:comment

NEGATIVE EXAMPLE: fictional characters

gist:LivingThing

gist:name

some string

gist:offspringOf

some gist:Person

gistPhysicalThing

gist7.1 PhysicalThing

Base URI: http://ontologies.semanticarts.com/o/gistPhysicalThing Version URI: http://ontologies.semanticarts.com/o/gistPhysicalThing7.1

<u>Namespaces</u>

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

<u>Imports</u>

URI: http://ontologies.semanticarts.com/o/gistID7.1

Location : gistID7.1.owl

JRI: http://ontologies.semanticarts.com/o/gistMagnitude7.1

Location: gistMagnitude7.1.owl

gist:madeUpOf

Domain:gist:PhysicalThing Range:gist:PhysicalSubstance as in the vase is made up of clay

gist:owns

(gist:ownedBy)

Domain:gist:SocialBeing

Relationship where a Social Being can enjoy the rights of the asset being owned. Note this could be made temporal with gistTemporalRelation

Range

--- OR ---

gist:PhysicalThing

gist:IntellectualProperty

gist:Content

gist:SocialBeing

gist:PhysicalThing

Something that takes up space and has weight.

rdfs:label

Physical Thing

Equivalent to

--- AND ---

gist:hasMagnitude

some gist:Weight

gist:hasMagnitude

some gist:Volume

Equivalent to --- OR ---

gist:PhysicalIdentifiableItem

gist:PhysicalSubstance

gist:PhysicalIdentifiableItem

You could at least in principle put an RFID tag on members of this class. Physical things are made of something, e.g., statues are made of bronze.

rdfs:label

Physical Identifiable Item

rdfs:comment

NEGATIVE EXAMPLE: a discontinuous thing like a manufacturing line cannot reasonably have an RFID attached to it even though its parts are not the same kind of thing as the whole.

rdfs:comment

EXAMPLE: a computer, a book

(N) gist:madeUpOf

some gist:PhysicalSubstance

(N) gist:identifiedBy

some gist:ID

rdfs:comment

NOTE: In practice, this always means that the parts are not the same kind of thing as the whole.

gist:PhysicalSubstance

Non corporeal material. That is, "stuff" which can be divided in half and still retain its essence. In principle, cannot have an ID.

rdfs:label

Physical Substance

rdfs:comment

EXAMPLE: an amout of water, of penicillin, of sand

rdfs:comment

NOTE: This is the actual amout of something, not the type of substance.

rdfs:comment

NOTE: some things are substances at a macro level, but ultimately end up as not being divisible into the same kind of thing, e.g. sand vs. grains of sand., bacteria vs. an individual bacterium.

gistID

gist7.1 id

Base URI : http://ontologies.semanticarts.com/o/gistID Version URI : http://ontologies.semanticarts.com/o/gistID7.1

Namespaces

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

nports

\(\begin{align*} \text{URI:} & \text{http://ontologies.semanticarts.com/o/gistTop7.1} \\ \text{Location:} & \text{gistTop7.1.owl} \end{align*}

gist:hasA

gist:identifiedBy [IF]

(gist:identifies) Range:gist:ID

This is like a uri: a thing can have more than one ID, but each of the IDs must refer to a unique thing.

gist:containedText

gist:uniqueText [F]string

This is used for the actual value of a key or ID where you don't want the possibility of having more than one.

gist:allocatedBy

Range:gist:SocialBeing anything that can be assigned includes ids, but also tasks, resources names, categories etc.

gist:ID

an ID is a tiny piece of content

Subclass of

gist:Content

gist:ID

A string of characters that refers to a referent in the real world (person, place, organzation, vehicle, etc.), a concept or an event. Intended to be unique within a domain (but generally no guarantee of this).

--- AND ---

rdfs:label

ID

gist:allocatedBy

some gist:SocialBeing

gist:uniqueText

some string

rdfs:comment

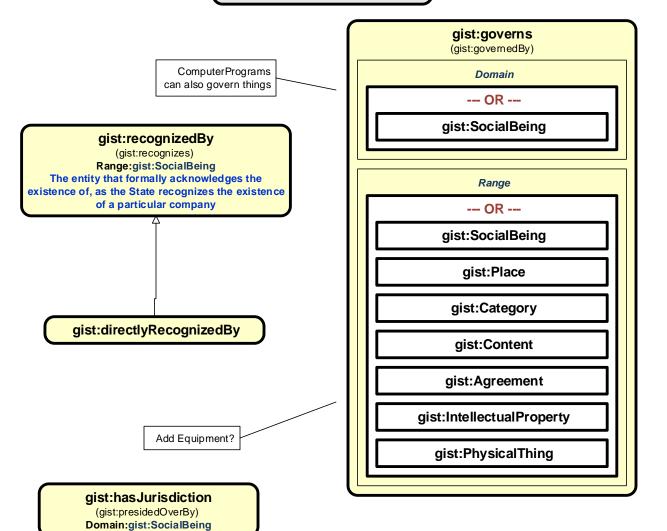
EXAMPLE: e.g. SSN for a person, serial number for a product, employee id

rdfs:comment

NOTE: the thing identified can be anything, e.g. a person, place, organiation, product, concept, event.

gistOrganization gist7.1 org Base URI: http://ontologies.semanticarts.com/o/gistOrganization Version URI: http://ontologies.semanticarts.com/o/gistOrganization7.1 Namespaces gist http://ontologies.semanticarts.com/gist# Imports URI: http://ontologies.semanticarts.com/o/gistPerson7.1 Location: gistPerson7.1.owl URI: http://ontologies.semanticarts.com/o/gistAddress7.1 Location: gistAddress7.1.owl URI: http://ontologies.semanticarts.com/o/gistPlace7.1 Location: gistPlace7.1.owl

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



gist:Organization

A generic organization that can be, e.g., formal or informal, legal or non-legal. It can have members or not

rdfs:label

Organization

rdfs:comment

NOTE: There are a plethora of different kinds of organizations that differ along many facets, including members, structure, purpose, legal vs. non-legal etc.

rdfs:comment

EXAMPLE: Legal entities like companies, non-legal entities like clubs, committees or departments.

gist:GovernmentOrganization

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. Differ from corporations in that they cannot be owned.

--- AND ---

rdfs:label

Government Organization

rdfs:comment

EXAMPLE: State of WA Office of Financial Management; the FDA, the Scottish Parliament

gist:Organization

gist:recognizedBy

some gist:CountryGovernment

gist:governs

some gist:GeoRegion

rdfs:comment

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

gist:CountryGovernment

--- AND ---

rdfs:label

Country Government

gist:GovernmentOrganization

gist:directlyRecognizedBy

has gist:_unitedNations

gist:Group

A gist:Group is a group of People, they may or may not be an organization. Many organizations consist of groups of people but that isn't a defining characteristic.

--- AND ---

rdfs:label

Group

gist:Collection

gist:hasMember

some gist:Person

gistContent gist7.1 content Base URI: http://ontologies.semanticarts.com/o/gistContent Version URI: http://ontologies.semanticarts.com/o/gistContent7.1 Names paces http://ontologies.semanticarts.com/gist# http://ontologies.semanticarts.com/o/gistID7.1 Location: gistID7.1.owl gist:Content Documents, programs, images and the like. Categories are not content until they are written down. rdfs:label gist:fromAgent Content Range:gist:SocialBeing The source of a message or shipment gist:basedOn gist:toAgent pointer to the thing something was Range:gist:SocialBeing derived from Comment: this is not the inverse of from Agent. A message can be from someone. If we made it the inverse the person would be "to" the message gist:about (gist:describedIn) Domain:gist:Content Subject matter of a document. gist:expressedIn gist:renderedOn gist:containedText Links to the string corresponding to Text gist:encryptedText Links to the string corresponding to EncryptedText gist:ContentExpression gist:FormattedContent what does FBRL call this --- this is IP Content which is in a particular format (i.e. reduced to text, audio etc. If it contains html, pdf, jpg) --- AND --text (written or spoken) it may be in a language rdfs:label rdfs:label **Formatted Content Content Expression**

Subclass of

gist:Content

(N) gist:expressedIn

(N) gist:categorizedBy some gist:GeneralMediaType

some gist:Language

gist:expressedIn some gist:MimeType gist:ContentExpression Need a blob like thing for audio etc

monitor. --- AND --rdfs:label **Rendered Content** gist:expressedIn some gist:MimeType gist:renderedOn some gist:Medium gist:ContentExpression How do I refer to the digitized file

Need image, audio and video

gist:Text

Content in words.

rdfs:label

Equivalent to

--- AND ---

gist:Content

gist:expressedIn

some gist:Language

gist:containedText

some string

gist:EncryptedText

Text that has been encrypted.

rdfs:label

Encrypted Text

rdfs:comment

NOTE: Will be likely be handled by an

application by not showing the text in the

Equivalent to

--- AND ---

gist:Text

gist:encryptedText

some string

gist:RenderedContent

Content which has been expressed, either to

print, or through speakers, or through a

gist:Template

Any of a large variety of pieces of content that can be used to generate other content. For example a form can be used to generate data sets, a class can be used to create instances --- AND ---

rdfs:label

Template

rdfs:comment

EXAMPLE: a form. A filled-in form has the structure of the form with data entered into some or all of the fields.

rdfs:comment

NOTE: Use gist:basedOn to link the instantiation of a Template back to its Template.

gist:Content

gist:produces

some gist:Content

gist:Medium

A physicality that a work could be implemented or exposed on, for instance paper, or clay or a computer monitor

> rdfs:label Medium

Subclass of gist:Category

knowhow or skill. Also includes Brands. rdfs:label

gist:IntellectualProperty

A work, invention or concept, independent

of its being expressed in text, audio, video,

image or live performance. For literature

this could be called the "Work" except that

"work" is a highly overloaded term

(expenditure of energy, resource

consumption, art). Often the first

expression preceeds our recognition of the

IP, but subsequent expressions are known

to be derivaties of the IP, even if they are

expression to expression translations (or copies). IP can also be tacit knowledge,

Intellectual Property

rdfs:comment

EXAMPLE: "The Old Man and The Sea" is Intellectual Property. As is the page rank algorithm, and Coca Cola

gist:Language

A recognized, organized set of symbols and grammar.

rdfs:label

Language

rdfs:comment

EXAMPLE: includes natural languages like **English and Spanish and computer** languages like C# and XML.

gist:GeneralMediaType

This is the real world media type (i.e., is it audio, image, video, textual, physical (ie a statue) or performance (i.e. a play) could be oil or pastel for painting

rdfs:label

General Media Type

Subclass of gist:Category

gist:MimeType

These are digitized types that computer applications could recognize. These are the Mime types of interest to a given ontology

> rdfs:label **MIME Type**

Subclass of gist:Category

gist:Message

A specific message from an Agent to at least one other agent. Could be email, a phone call, a voice message or a Web Service message between applications.

--- AND ---

rdfs:label

some gist:SocialBeing

Message

gist:ContentExpression

gist:fromAgent

gist:toAgent some gist:SocialBeing

gistAgreement

gist7.1 agreement

Base URI: http://ontologies.semanticarts.com/o/gistAgreement Version URI: http://ontologies.semanticarts.com/o/gistAgreement7.1

<u>Namespaces</u>

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

<u>Imports</u>

JRI: http://ontologies.semanticarts.com/o/gistTime7.1

Location : gistTime7.1.owl

URI: http://ontologies.semanticarts.com/o/gistCategory7.1

Location : gistCategory7.1.owl

URI: http://ontologies.semanticarts.com/o/gistIntention7.1

Location: gistIntention7.1.owl

gist:party Range:gist:SocialBeing

The people or organizations participating in an agreement or obligation

gist:giver

gist:getter

gist:Category

gist:DegreeOfCommitment

The degree of commitment is the difficulty of reversing a commitment. A car rental typcially has a lower degree of commitment than a airfare reservation

rdfs:label

Degree Of Commitment

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:Commitment

A possibly unilateral obligation
--- 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 fully executed.

There is some contingent event, the occurance of which will cause the Obligation to become firm. Might have a getter counterparty (in the case of Insurance for instance) but it might not in the case of an Offer

rdfs:label

Contingent Obligation

Equivalent to

--- AND ---

gist:Commitment

gist:giver some gist:SocialBeing

gist:triggeredBy some gist:Event

gist:ContractTerm

A contract term is a specification of some aspect of the 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 social being to another. Contracts are sets of oblgations to do or forebear, or indemnify or warrant.

rdfs:label

Obligation

rdfs:comment

NOTE: Will often be governed by some Agreement or Offer.

Equivalent to

--- AND ---

gist:Commitment

gist:giver

some gist:SocialBeing

gist:getter

some gist:SocialBeing

gist:CatalogItem

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

rdfs:label

Catalog Item

rdfs:comment

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

Subclass of

gist:Specification

gist:ProductSpecification

Offering something which could be physically warehoused or digitally stored.

--- AND ---

rdfs:label

Product Specification

gist:CatalogItem

gist:categorizedBy

some gist:ProductCategory

gist:ServiceSpecification

A description of something that can be done for a person or organization (which produces some form of an "act").

--- AND ---

rdfs:label

Service Specification

gist:CatalogItem

gist:produces

some gist:Behavior

gist:Agreement

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:BundledCatalogItem

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

gist:Account

This is account as in bank account, or credit card account, or AR account. It is an agreement with a balance
--- AND ---

rdfs:label

Account

gist:Agreement

gist:hasMagnitude

some gist:Balance

gist:Balance

A balance is the result of a series of transactions
--- AND ---

rdfs:label

Balance

gist:Magnitude

gist:hasDirectPart

some gist:Transaction

gist:Transaction

An event which has an affect on at least one accumulator

rdfs:label

Transaction

Subclass of

gist:Event

gistTemporalRelation

gist7.1 temporalRelation

Base URI: http://ontologies.semanticarts.com/o/gistTemporalRelation Version URI: http://ontologies.semanticarts.com/o/gistTemporalRelation7.1

Names paces

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

<u>Imports</u>

URI: http://ontologies.semanticarts.com/o/gistTime7.1

Location : gistTime7.1.owl

gist:connectedTo

A non owning, non causal, nonsubordinate (ie. peer to peer) relationship.

gist:TimeInterval

gist:TemporalRelation

A relationship holding for a period of time. E.g. employs-Employment, hasStreetAddress-EstablishedLocation. One important context for reifying a property.

rdfs:label

Temporal Relation

rdfs:comment

EXAMPLE: employs-Employment, hasStreetAddress-EstablishedLocation.

rdfs:comment

NOTE: This is one important context for reifying a property.

(N) gist:start some gist:TimeInstant

(N) gist:end some gist:TimeInstant

(N) gist:connectedTo

min 2 owl:Thing

gistCategory

gist7.1 Categoy

Base URI : http://ontologies.semanticarts.com/o/gistCategory Version URI: http://ontologies.semanticarts.com/o/gistCategory7.1

Names paces

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

<u>Imports</u>

http://ontologies.semanticarts.com/o/gistContent7.1

Location : gistContent7.1.owl

gist:allocatedBy

gist:hasPreferredTerm

[F](gist:preferredTermOf) Range:gist:Text If there are many terms for a concept or specific instance, this is the one to use.

> gist:categorizedByPoints to a taxonomy item or other less formally defined class.

> > gist:governedBy

gist:Category

Instances of this class are used to categorize other instances informally. This could be tags, folksonomies or formal definitions from other systems.

rdfs:label Category

gist:allocatedBy some gist:SocialBeing Add Equipment to filter?

gist:ControlledVocabulary Key terms and who is approving them

--- AND ---

rdfs:label Controlled Vocabulary

gist:Collection

gist:governedBy

some gist:GovernanceCommittee

gist:hasMember

some gist:Category

gist:GovernanceCommittee

--- AND ---

rdfs:label

Governance Committee

gist:Group

gist:directPartOf

some gist:Organization

gist:Taxonomy

Hierarchical relationship of concepts in a controlled vocabulary. Note we need to have a property that represents the hierachy and we need a way to distinguish formal and informal taxos

rdfs:label

Taxonomy

Subclass of

gist:ControlledVocabulary

Need to add something like synonym ring

gistIntention

gist 7.1 Intention

Base URI: http://ontologies.semanticarts.com/o/gistIntention Version URI: http://ontologies.semanticarts.com/o/gistIntention7.1

<u>Names paces</u>

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

Imports

JRI: http://ontologies.semanticarts.com/o/gistTop7.1

Location: gistTop7.1.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:affects

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

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

TODO: see where this can be used.

gist:Restriction

A description of things one is prevented from doing; could be broad such as free speech, but more often is very specific such as the right of egress through a particular property. Most laws are restrictions

--- AND ---

rdfs:label

Restriction

gist:Intention

gist:prevents

some gist:Behavior

gist:Requirement

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

rdfs:label

Requirement

Subclass of

gist:Intention

gist:requires

some gist:Behavior

gist:Specification

A set of requirements to be satisfied by a material, design, product or service.

rdfs:label

Specification

Subclass of

gist:Requirement

gist:Intention

This is the "teleologic" aspect of the system that indicates things are done with a purpose. This answers the question: "What do I (they) want?" It is distinct from most of the other classes in the ontology as most of the others represent what is, rather that what is desired.

rdfs:label

Intention

gist:Permission

A description of things one is permitted to do; could be broad such as free speech, but more often is very specific such as the right of egress through a particular property.

--- AND ---

rdfs:label

Permission

gist:Intention

gist:allows

some gist:Behavior

gist:Goal

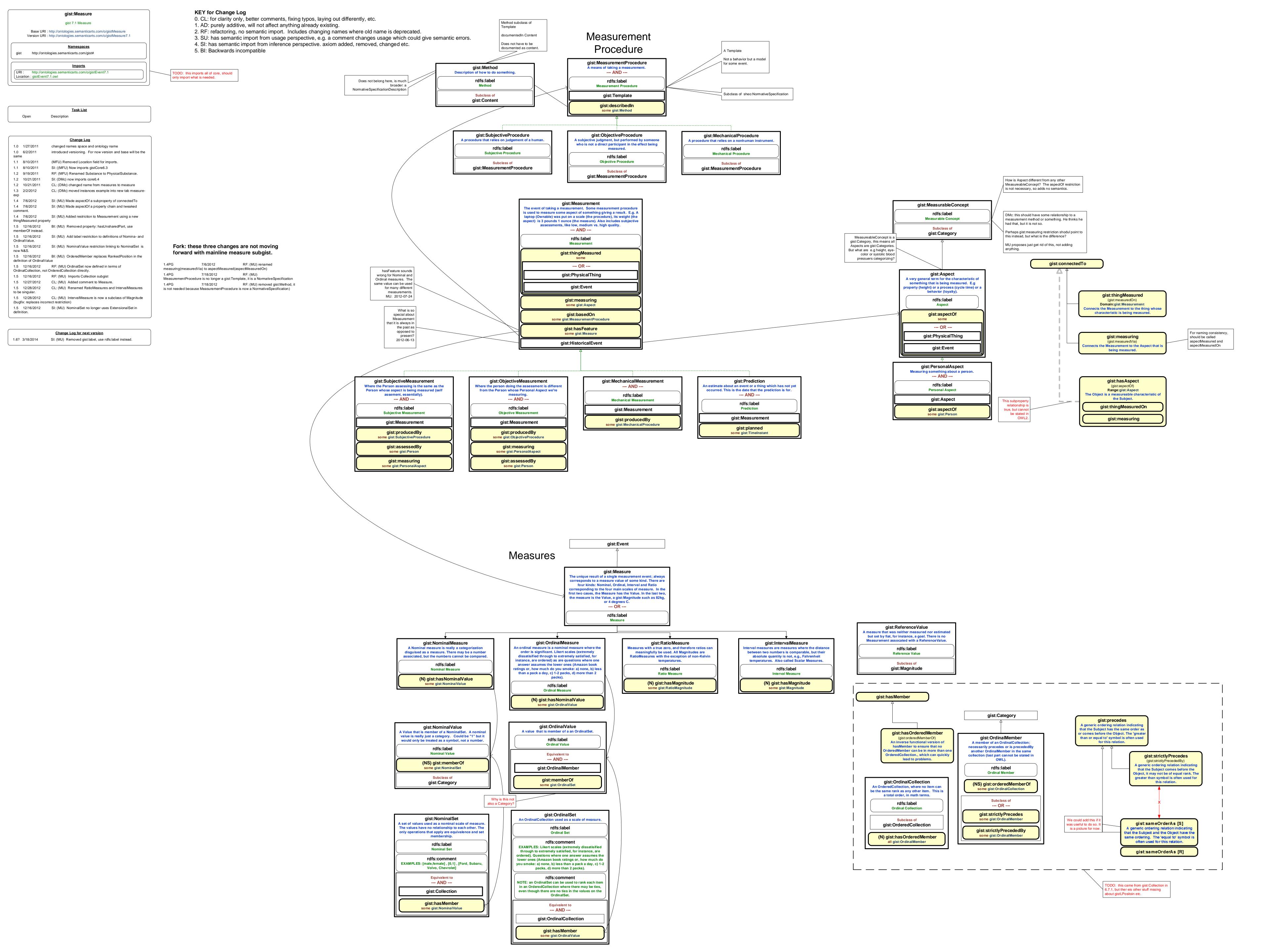
A specific intentional endpoint. Can tell whether its been achieved, as opposed to an intention which may not have an evaluation function

rdfs:label

Goal

Subclass of

gist:Intention



gistCore

gist7.1 Core this is meant to recreate the equivalent of gistCore6.9 by reassembling the pieces`

Base URI: http://ontologies.semanticarts.com/o/gistCore Version URI: http://ontologies.semanticarts.com/o/gistCore7.1

<u>Names paces</u>

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

Imports

URI: http://ontologies.semanticarts.com/o/gistEvent7.1

Location : gistEvent7.1.owl

URI: http://ontologies.semanticarts.com/o/gistOrganization7.1

Location : gistOrganization.8.0.owl

URI: http://ontologies.semanticarts.com/o/gistAgreement7.1 Location:gistAgreement7.1.owl

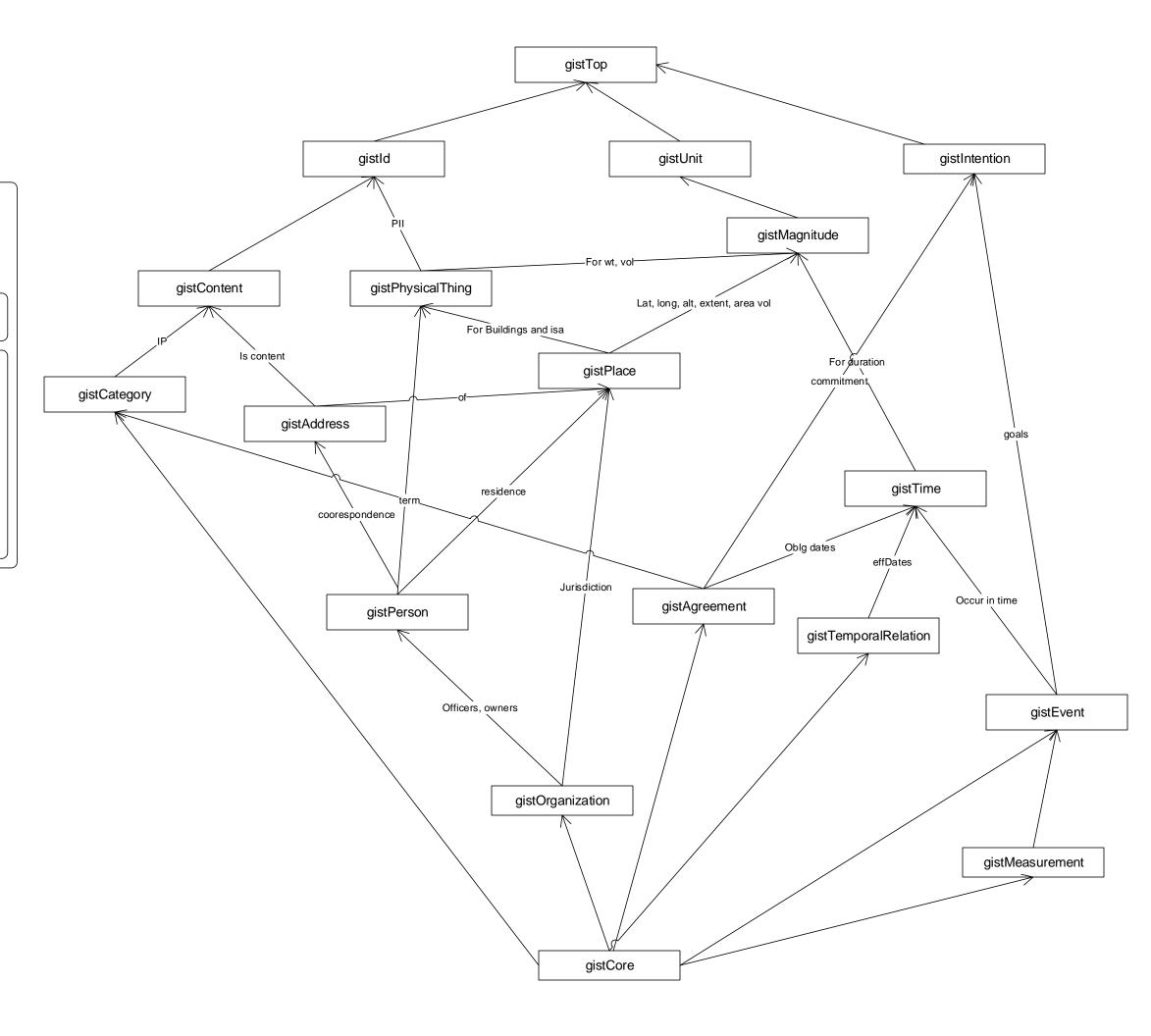
URI: http://ontologies.semanticarts.com/o/gistTemporalRelation7.1

Location : gistTR.8.0.owl

URI: http://ontologies.semanticarts.com/o/gistCategory7.1

Location : gistCategory7.1.owl

URI: http://ontologies.semanticarts.com/o/gistMeasure7.1 Location: gistMeasure7.1.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

		Change Log for next version
7.1	7/1/2014	SI: (AE) [Content] Made uniqueText a sub-property of containedText
7.1	7/1/2014	SU: (DMc/MU) [Top] Removed annotation from gist:name so that it doesn't turn it into a otp and cause confusion.
7.1	7/1/2014	SI: (AE/MU) [ID] Added Agreement to range of governs.
7.1	7/1/2014	RF: (AE) [Intention] Changed prevent, allow and require to prevents, allows, and requires
7.1	7/22/2014	RF: (MFU) [ID,Org] Move governs property from ID to Org
7.1	7/22/2014	CL: (MFU) [Unit] Change comment on ProductUnit
7.1	7/24/2014	SI: (MFU) [Agree] Change restriction on Offer to use hasDIrectPart CatalogItem
7.1	7/24/2014	BI: (MFU) [Agree] Removed property specifiedIn, no longer needed.
7.1	7/24/2014	RF: (MFU) [Content, Intention] moved Specification from Content to Intention
7.1	7/24/2014	AD: (MFU) [Intention] add conformsTo property to link things to their specs.
7.1	7/24/2014	AD: (MFU) [Org] added hasJurisdiction/presidedOverBy back into the ontology
7.1	7/24/2014	CL: (MFU?) [Agree] Fixed typo in DegreeOfCommitment, ContractTerm, CatalogItem, Product Specification
7.1	7/24/2014	CL: (MFU?) [Agree] Fixed typo that created a duplicate misspelled categorizedBy
7.1	7/24/2014	CL: (MFU?) [Agree] Added comment to CatalogItem
7.1	7/24/2014	SU: (DMc?) [Agree] Change property restriction on gist:Account from hasA Balance to hasMagnitude Balance
7.1	7/31/2014	SI: (MFU) [Event] Bugfix, inverse property of hasDirectSubtask changed to directSubtaskOf
7.1	9/4/2014	SI: (AE) [Org] Added IntellectualProperty and PhysicalThing to the range of governs.
7.1	9/4/2014	CL: (AE) [Content] Fixed typo in comment of MimeType
7.1	9/4/2014	CL: (AE) [Content] Fixed typo in comment of basedOn
7.1	9/4/2014	SI: (AE) [Cat] There was a typo in the Filter Class on the allocatedby restriction property on gist:Category
7.1	9/27/2014	CL: (AE) [Unit] Fixed typo in multiplicand and multiplier definition
7.1	9/27/2014	CL: (AE) [PhysThing] Fixed typo in gist:owns comment
7.1	9/27/2014	CL: (AE) [Org] Fixed 3 typos in gist:recognizedBy comment
7.1	9/27/2014	CL: (AE) [Agree] Fixed typo in gist:DegreeOfCommitment comment
7.1	9/27/2014	CL: (AE) [Top, Content] Fixed several typos in gist:IntellectualProperty comment
7.1	9/27/2014	CL: (AE) [Agree] Fixed typo in gist:CatalogItem and in gist:BundledCatalogItem comments
7.1	9/27/2014	CL: (AE) [Top, Mag] Fixed typo in gist:Magnitude comment
7.1	9/29/2014	CL: (AE) [Org] Fixed typos in gist:GovernmentOrganization comment
7.1	9/29/2014	CL: (AE) [PhysThing] Fixed typos in a couple of the gist:PhysicalIdentifiableItem comments
7.1	9/29/2014	CL: (AE) [Person] Fixed typo in gist:LivingThing comment
7.1	9/30/2014	CL: (AE) [Top, PhysThing] Fixed typo in gist:PhysicalSubstance comments
7.1	9/30/2014	CL: (AE) [Event] Fixed typo in gist:ContemporaneousEvent comment
7.1	9/30/2014	CL: (AE) [Measure] Fixed typo in gist:Measure comment
7.1	9/30/2014	CL: (AE) [Agree] Fixed typos in gist:Transaction comment
7.1	9/30/2014	CL: (AE) [Top] Fixed typo in gist:UnitOfMeasure comment
7.1	9/30/2014	CL: (AE) [Unit] Fixed typo in gist:SimpleUnitOfMeasure comment
7.1	9/30/2014	CL: (AE) [Unit] Fixed typos in gist:BaseUnit, gist:ElectricalCurrentUnit and gist:TemperatureUnit comments
7.1	9/30/2014	CL: (AE) [Agree] Fixed typos in gist:triggeredBy comment
7.1	9/30/2014	CL: (AE) [ALL] Removed all of the # in front of references to gist terms in the comments.
7.1	10/30/2014	SI: (AE) [Intention] In the definition of gist:Requirement, removed gist:Conformance from the range of gist:requires

