Modeling Patterns in ARTframe and RareMat

2018.01.11

https://github.com/LD4P/ArtFrame-RareMat/tree/master/modeling_recommendations

Work in-progress

Resource-to-Relationship mapping
- Defines relationships to relate different bibliographic (and other) resources

Limitation Statement
- Defines limitation statement for Instance and also limitation for copy-in-hand

Bindings
- Defines binding as a resource and inter-related models

Autographs
- Defines how to input data for an autograph (signature) on a resource

Exhibitions
- Defines multiple types of exhibitions alongside their relationships with objects exhibited

Carriers / Bound-withs
- Defines modeling for materials aggregated within a single binding or other carrier that are not necessarily related beyond their aggregation

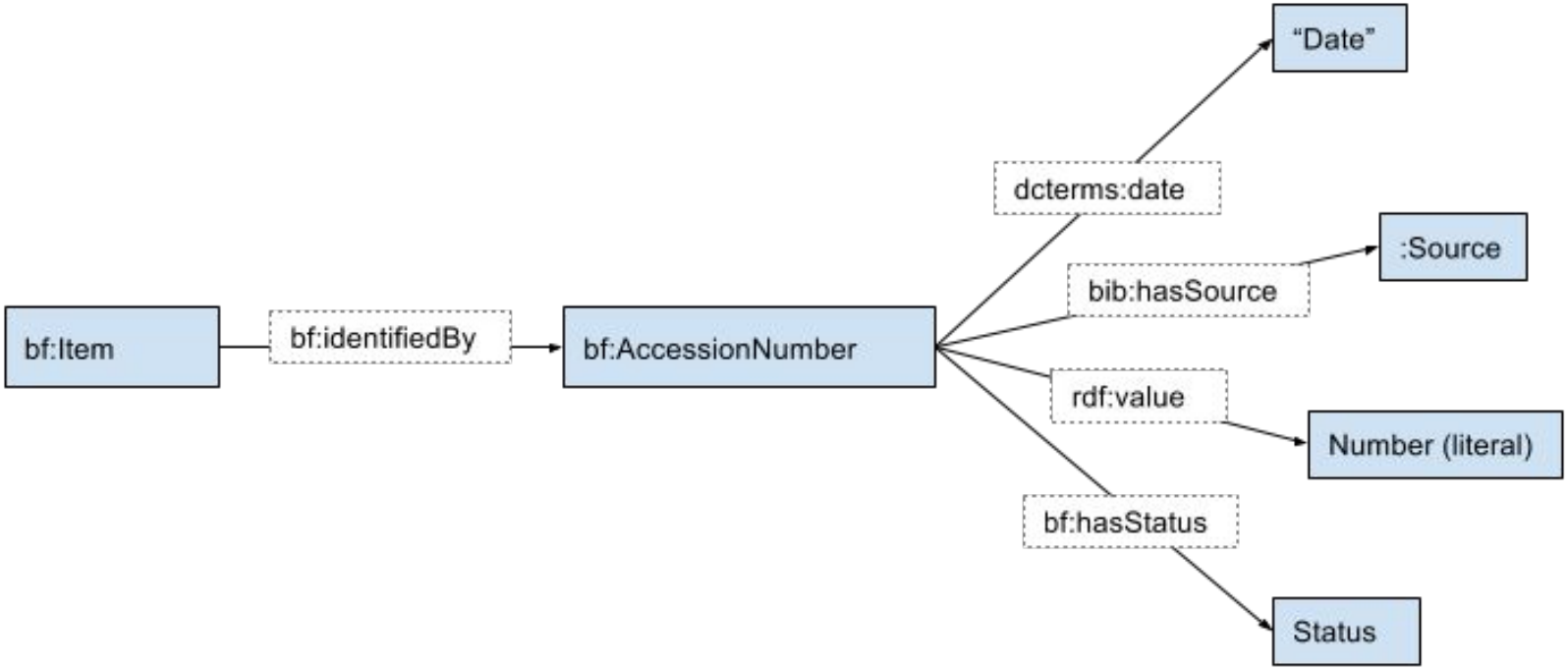
Accession Number

- Subclass of bf:Identifier

- Accepted by LC, not yet implemented in BIBFRAME

https://github.com/LD4P/ArtFrame-RareMat/blob/master/modeling_recommendations/accession_number.md

Accession Number



Awards

ArtFrame use case: Find all artists who received a given award

In BIBFRAME a property bf:awards is available. However, bf:awards is a datatype property and therefore carries the MARC practice forward to record related information in a text string.It does currently not allow for linking out to awards, for example in Wikidata (e.g. Sobey Art Award) (*https://www.wikidata.org/wiki/Q7549952*).
It is recommended to be used with Work or Instance.

https://github.com/LD4P/ArtFrame-RareMat/blob/master/modeling_recommendations/Awards.md

Awards Classes

Use classes

- vivo:Award
- bib:Activity

Define classes

- af:SelectorActivity (subclass of bib:Activity)
- af:AwardGranterActivity (subclass of bib:Activity)

Awards Classes

Define classes:

- af:AwardReceipt
- af:AwardWinner (subclass of af:AwardReceipt)
- af:AwardShortlist (subclass of af:AwardReceipt)
- af:AwardHonoraryMention (subclass of af:AwardReceipt)
- af:AwardNominee (subclass of af:AwardReceipt)
- af:AwardCitation (subclass of af:AwardReceipt)
- af:AwardLonglist (subclass of af:AwardReceipt)

Awards Properties

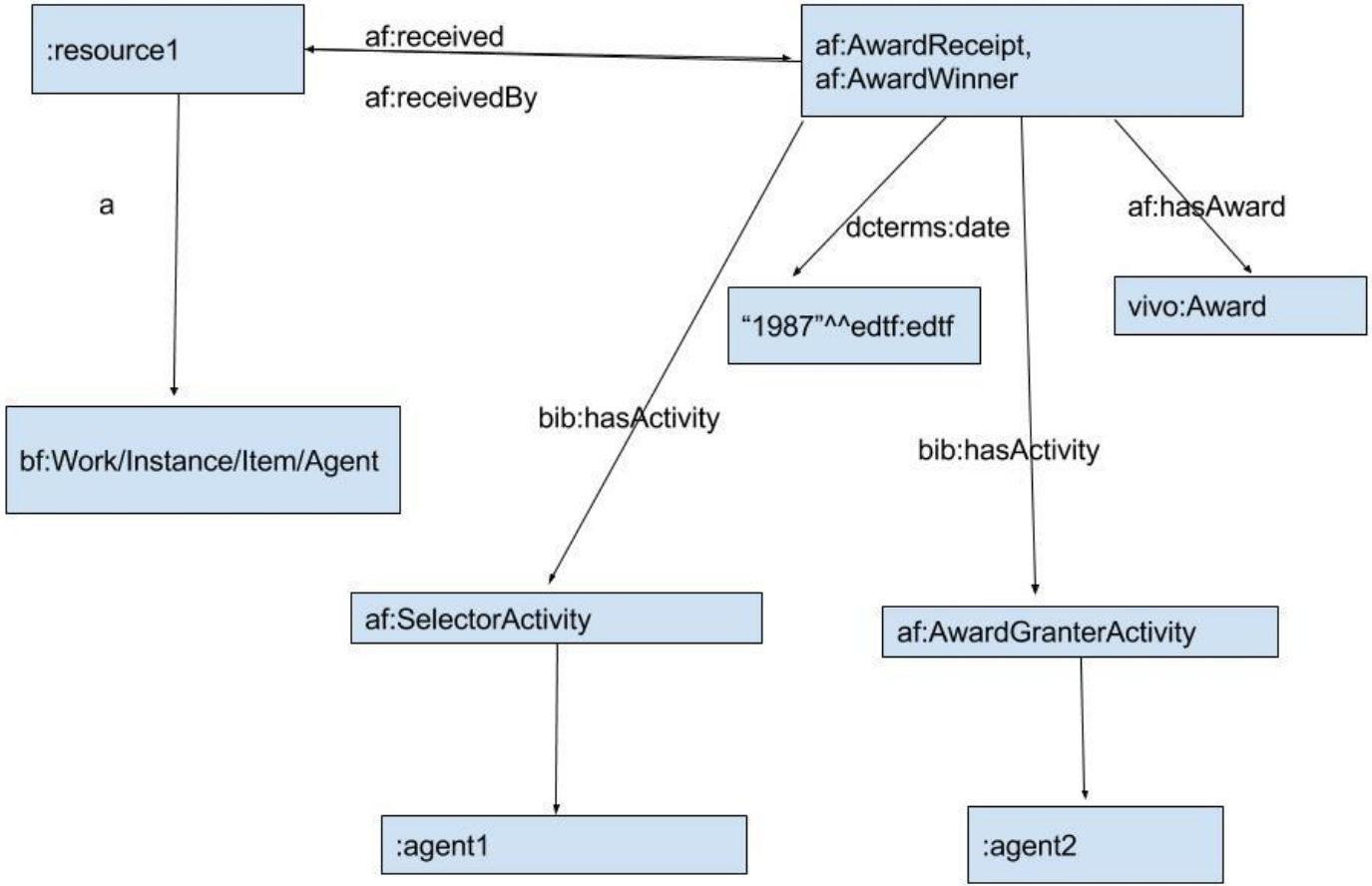
Define properties:

- af:received (object property)
- af:receivedBy (object property)
- af:hasAward (object property)
- af:isAwardOf (object property)

Use properties:

- dcterms:date
- bib:hasAgent (Object property)
- bib:isAgentOf (Object property)
- bib:hasActivity (Object property)
- bib:isActivityOf (Object property)

Awards


:resource1
af:received
af:receivedBy
af:AwardReceipt,
af:AwardWinner
a
dcterms:date
af:hasAward
"1987"^^edtf:edtf
vivo:Award
bf:Work/Instance/Item/Agent
bib:hasActivity
bib:hasActivity
af:SelectorActivity
af:AwardGranterActivity
:agent1
:agent2

Bibliographic Citations

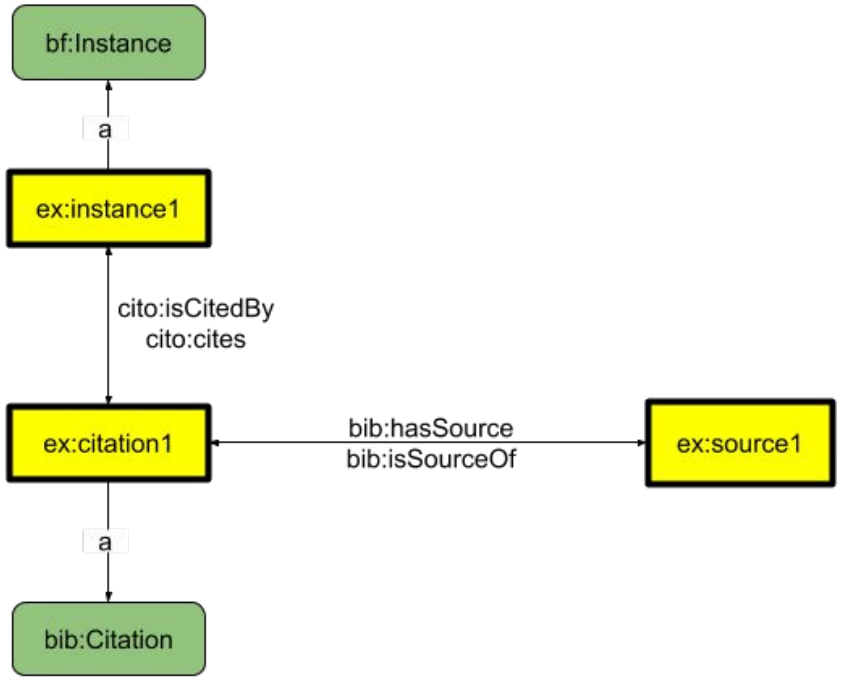
- Uses cito predicates to relate citation to bibliographic resource
- Uses OA model to extend / facilitate annotations of citation
- Mint additional annotation motivations: bib:asserting, bib:assertingSourceDataNotFound, and bib:assertingCitationNotFound (listed in order from broadest to narrowest) to represent negative citations.
- Create class: bib:Citation
- Create location designators: bib:Volume, bib:Page, and bib:Entry

NOTE: as of 2018.01.12, OA model no longer used in this pattern.

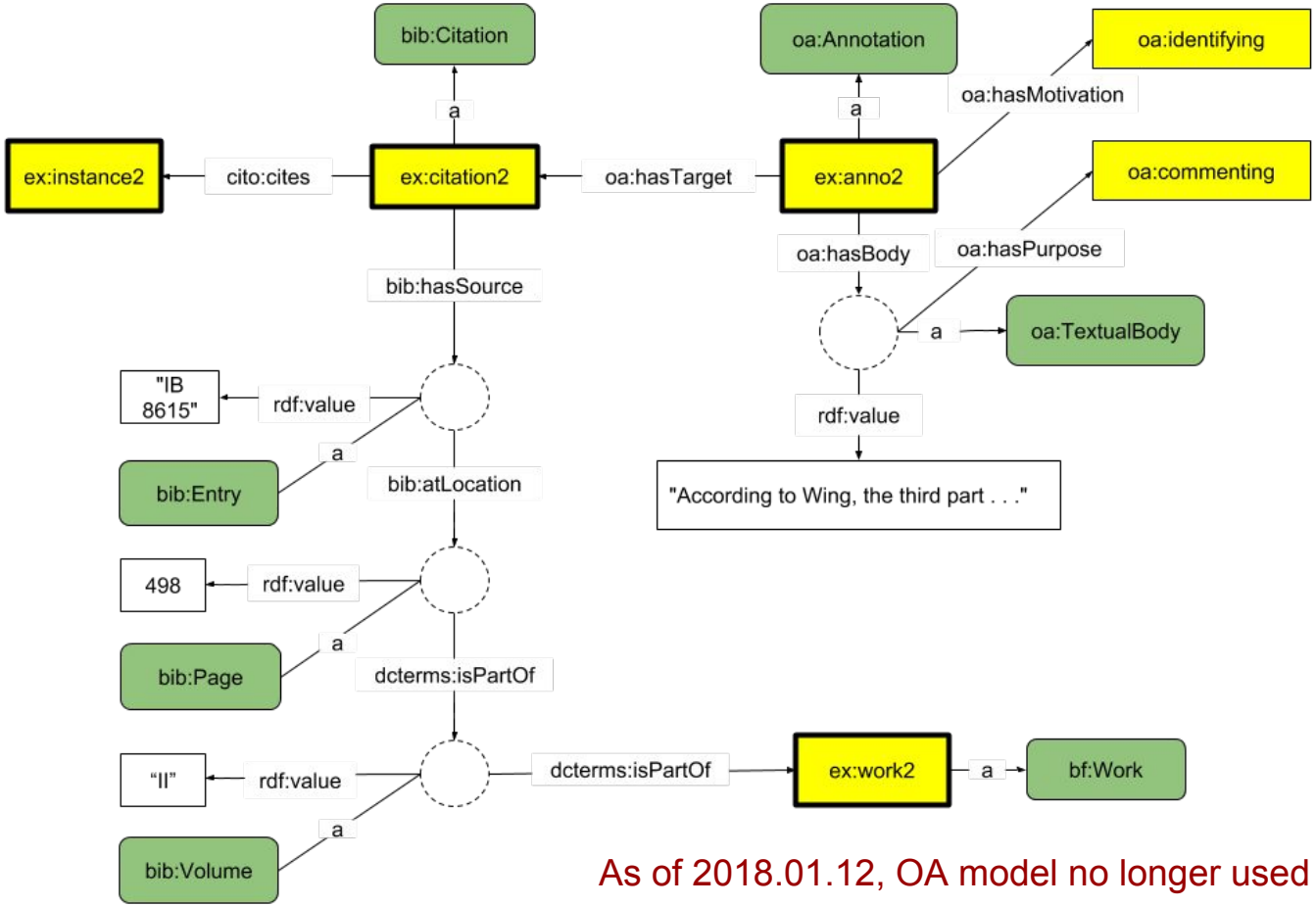
Four Use Cases (represented on subsequent diagrams)

https://github.com/LD4P/ArtFrame-RareMat/blob/master/modeling_recommendations/bibliographic_citations.md

Bibliographic Citations, use case 1: Basic Citation

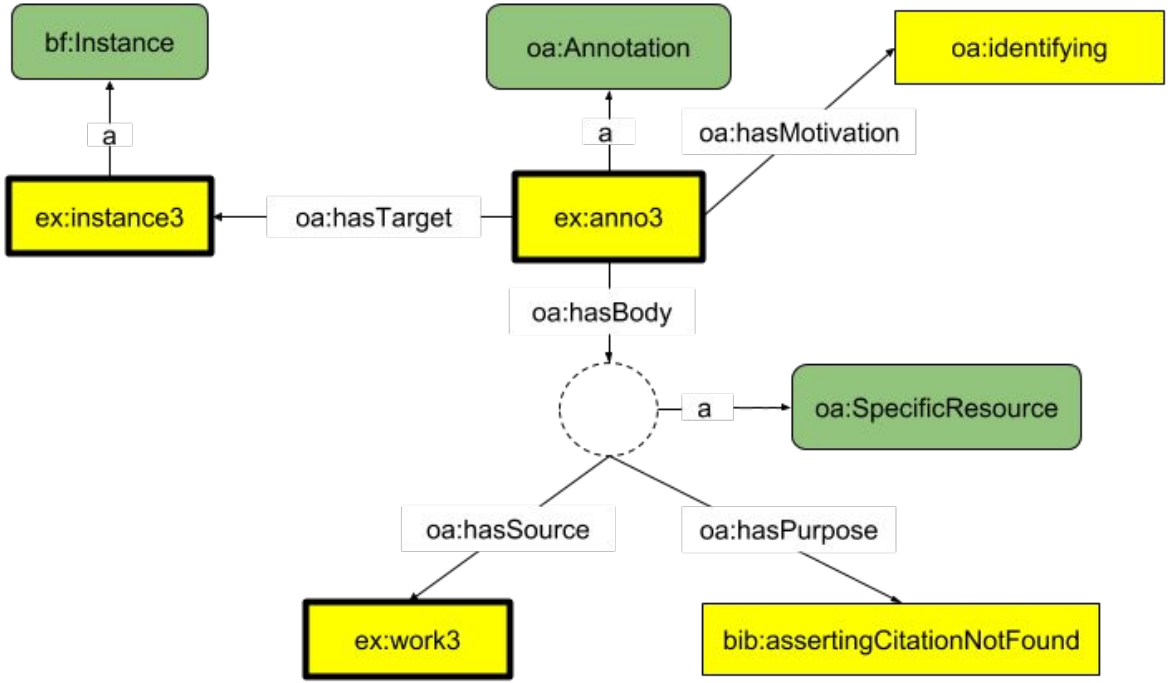


Bibliographic Citations, use case 2: Citation located, cataloger adds commentary on citation



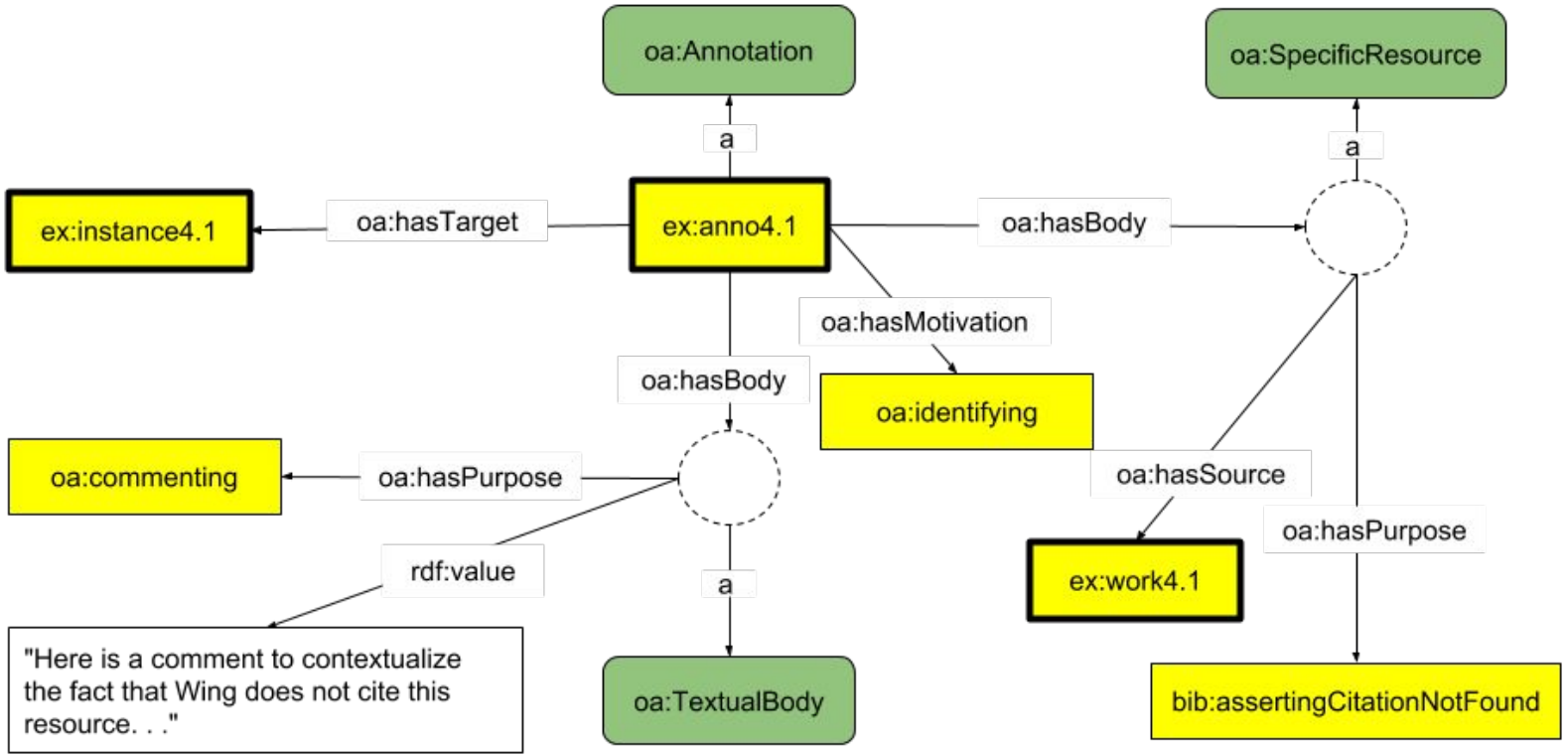
As of 2018.01.12, OA model no longer used in this model.

Bibliographic Citations, use case 3: Negative citation without comment



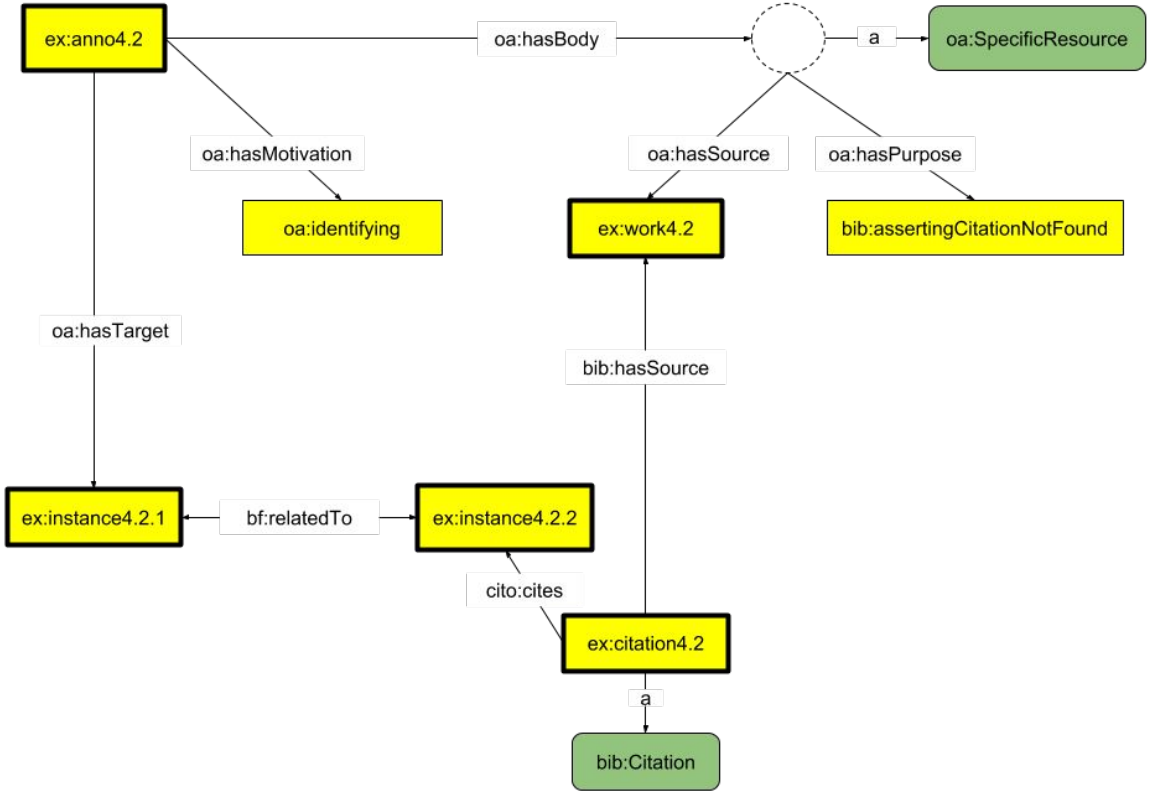
As of 2018.01.12, OA model no longer used in this model.

Bibliographic Citations, use case 4.1: Negative citation with comment



As of 2018.01.12, OA model no longer used in this model.

Bibliographic Citations, use case 4.2: Negative citation plus additional citation



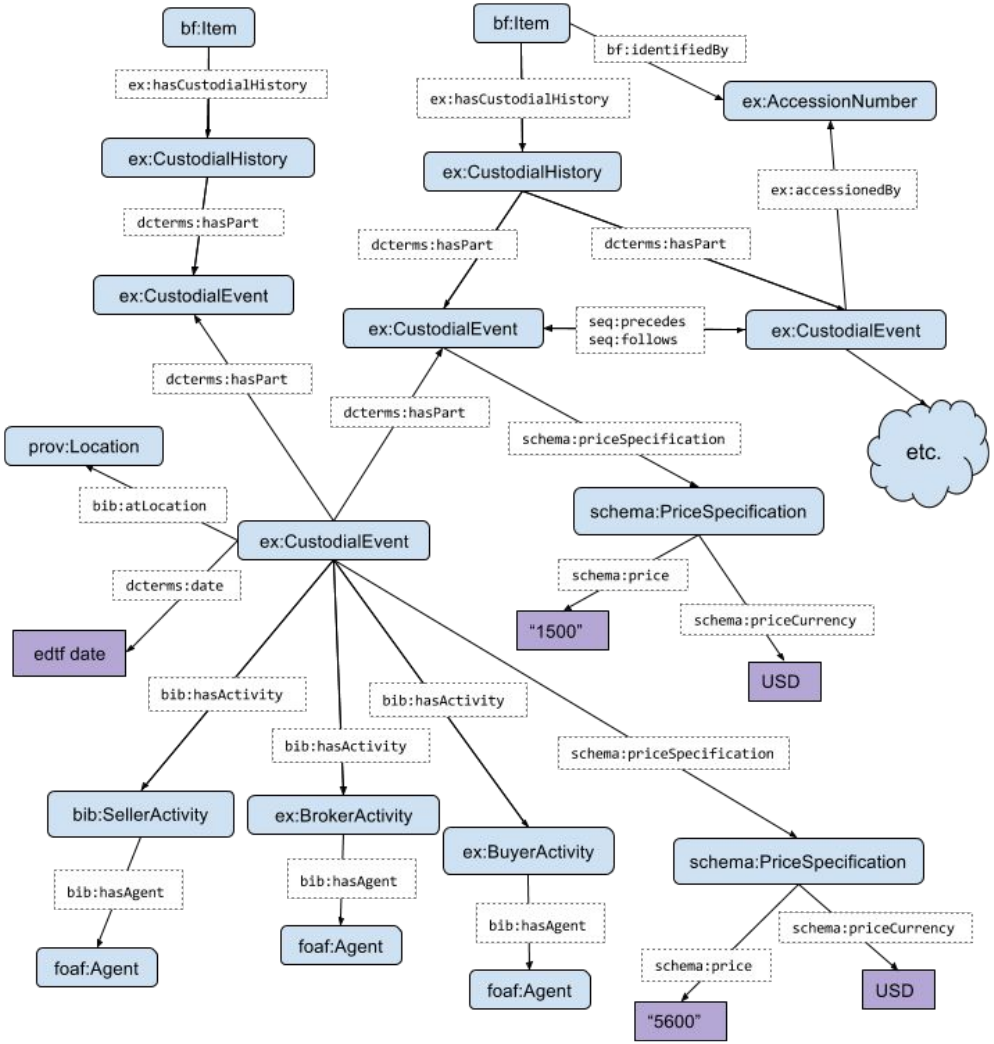
As of 2018.01.12, OA model no longer used in this model.

Custodial History

- Create classes: ex:CustodialHistory and ex:CustodialEvent
- CustodialEvent directly linked to CustodialHistory of an Item
  - Can be aggregate for many items or a single item
- Activities link to CustodialEvent
  - Activities are method of connecting agents to resources alongside roles
- Reuses some existing ontologies (e.g.: schema:priceSpecification)
- Chain of events ordered via seq:follows / seq:precedes

https://github.com/LD4P/ArtFrame-RareMat/blob/master/modeling_recommendations/custodial_history.md

Custodial History



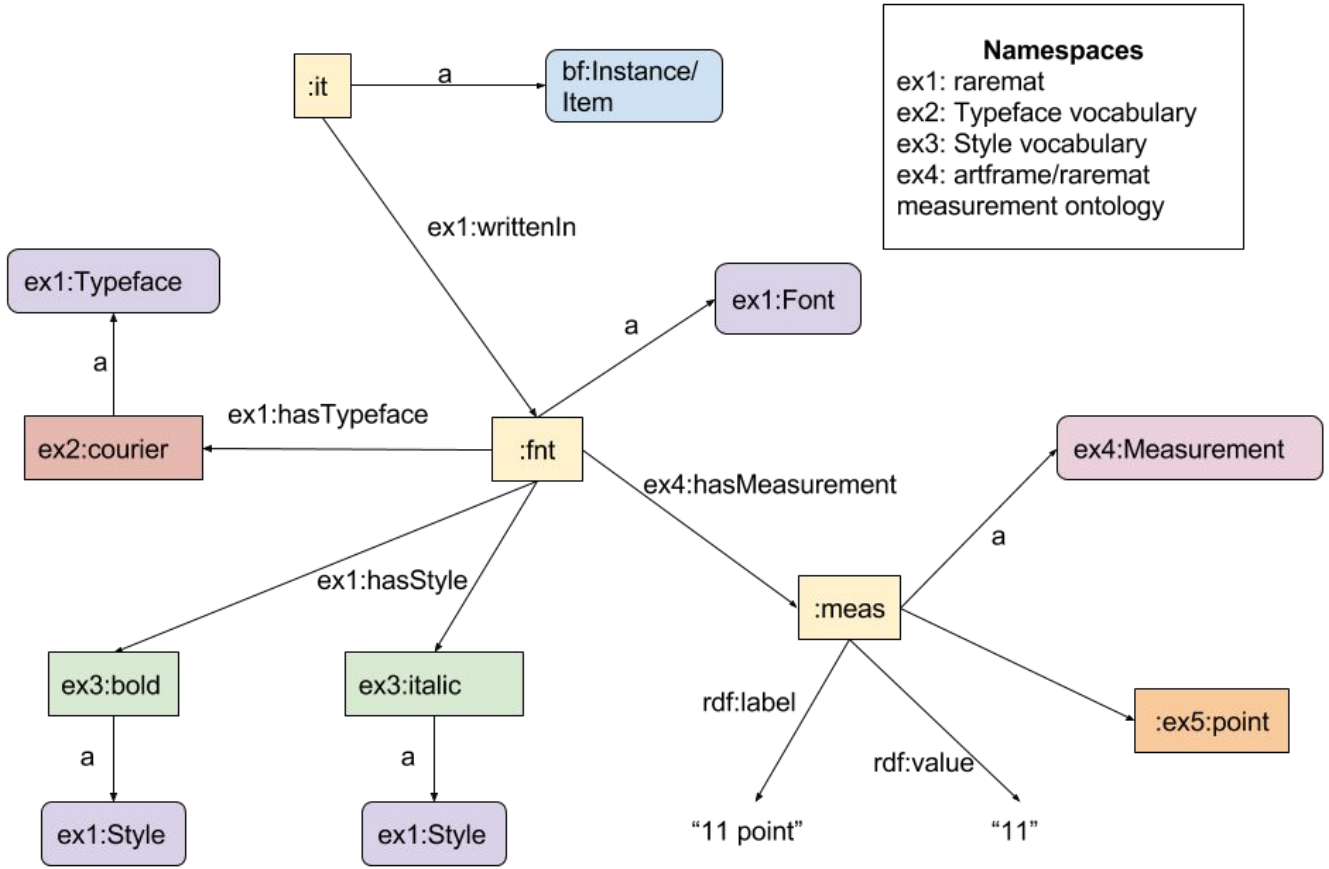
Fonts, Handwriting & Notation

- Define classes: ex:Font, ex:Typeface, ex:FontStyle, and ex:HandwritingType
- Define predicates ex:writtenIn, ex:hasTypeface, ex:hasStyle, and ex:hasHandwritingType
- Eliminate class bf:FontSize and predicate bf:fontSize.
- Define named individuals: typefaces, font styles and handwriting types

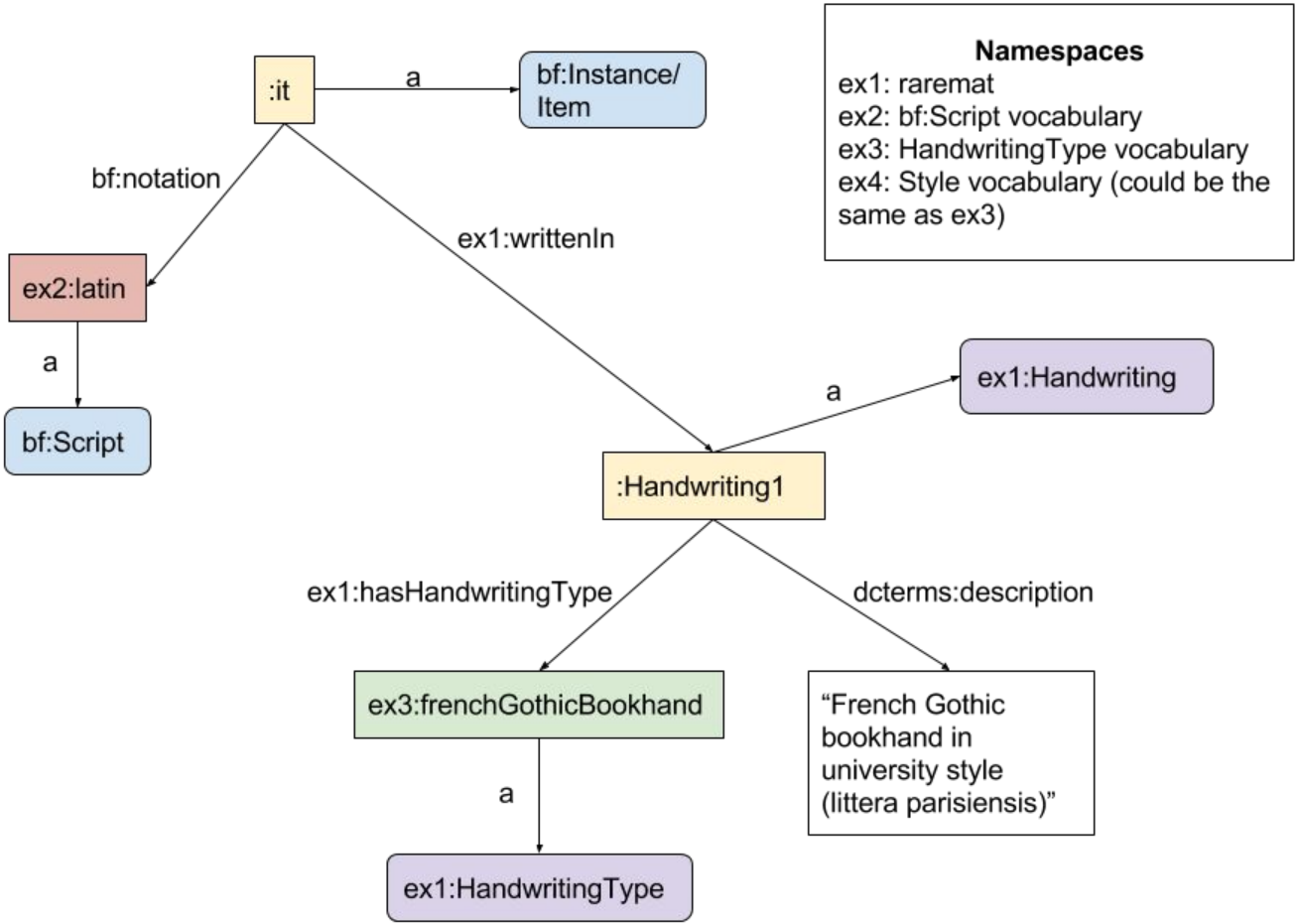
- Remove “typescript” from existing notation-related definitions.
- Change “alphabet” in notation-related definitions to “writing system,” since this encompasses non-alphabetic writing systems (syllabaries and logographies).

https://github.com/LD4P/ArtFrame-RareMat/blob/master/modeling_recommendations/fonts_handwriting_notation.md

Fonts


Namespaces
ex1: raremat
ex2: Typeface vocabulary
ex3: Style vocabulary
ex4: artframe/raremat measurement ontology
:it
a
bf:Instance/ Item
ex1:writtenIn
ex1:Typeface
a
ex1:Font
a
ex2:courier
ex1:hasTypeface
:fnt
ex4:hasMeasurement
ex4:Measurement
a
ex1:hasStyle
:meas
ex3:bold
ex3:italic
rdf:label
rdf:value
:ex5:point
a
a
ex1:Style
ex1:Style
“11 point”
“11”

Handwriting



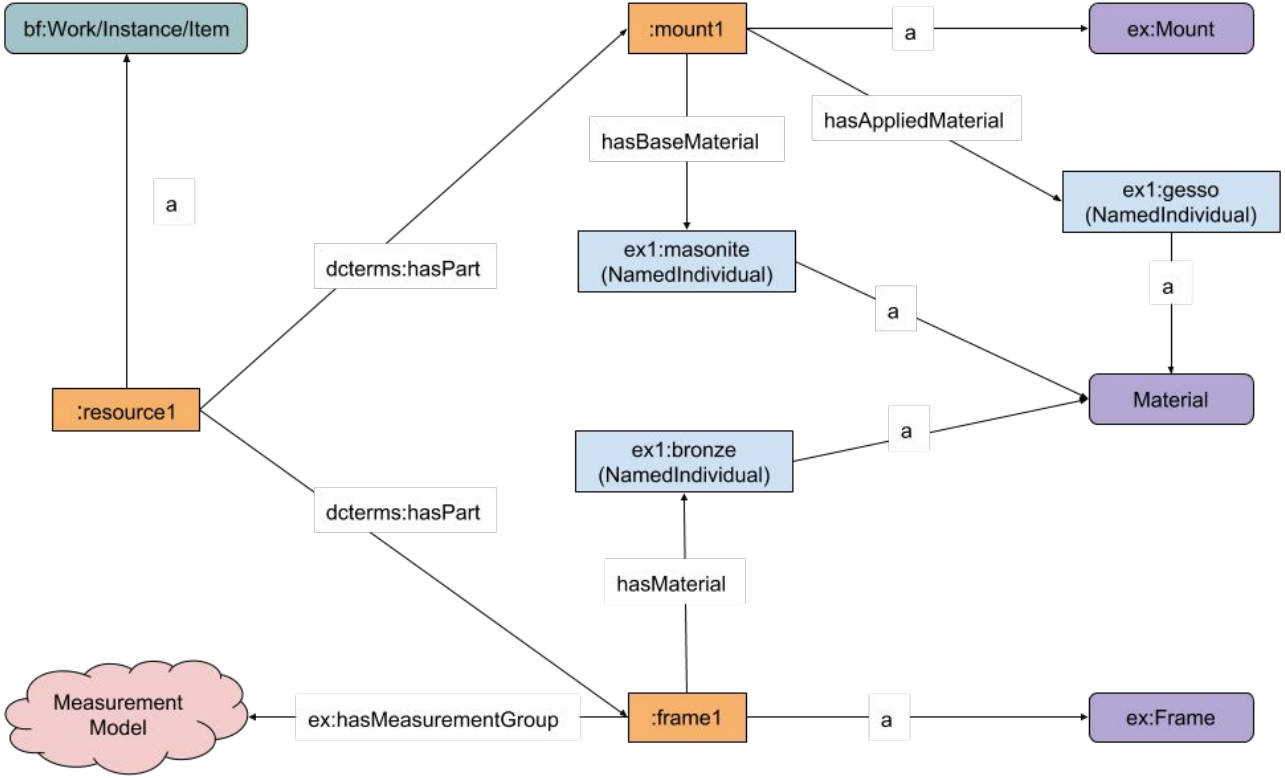
Materials

- Define: ex:Material
- Eliminate bf:BaseMaterial and bf:AppliedMaterial
- Define named individuals for materials

- Create ex:Mount
- Use dcterms:hasPart to link the bibliographic resource to its parts

https://github.com/LD4P/ArtFrame-RareMat/blob/master/modeling_recommendations/materials.md

Materials

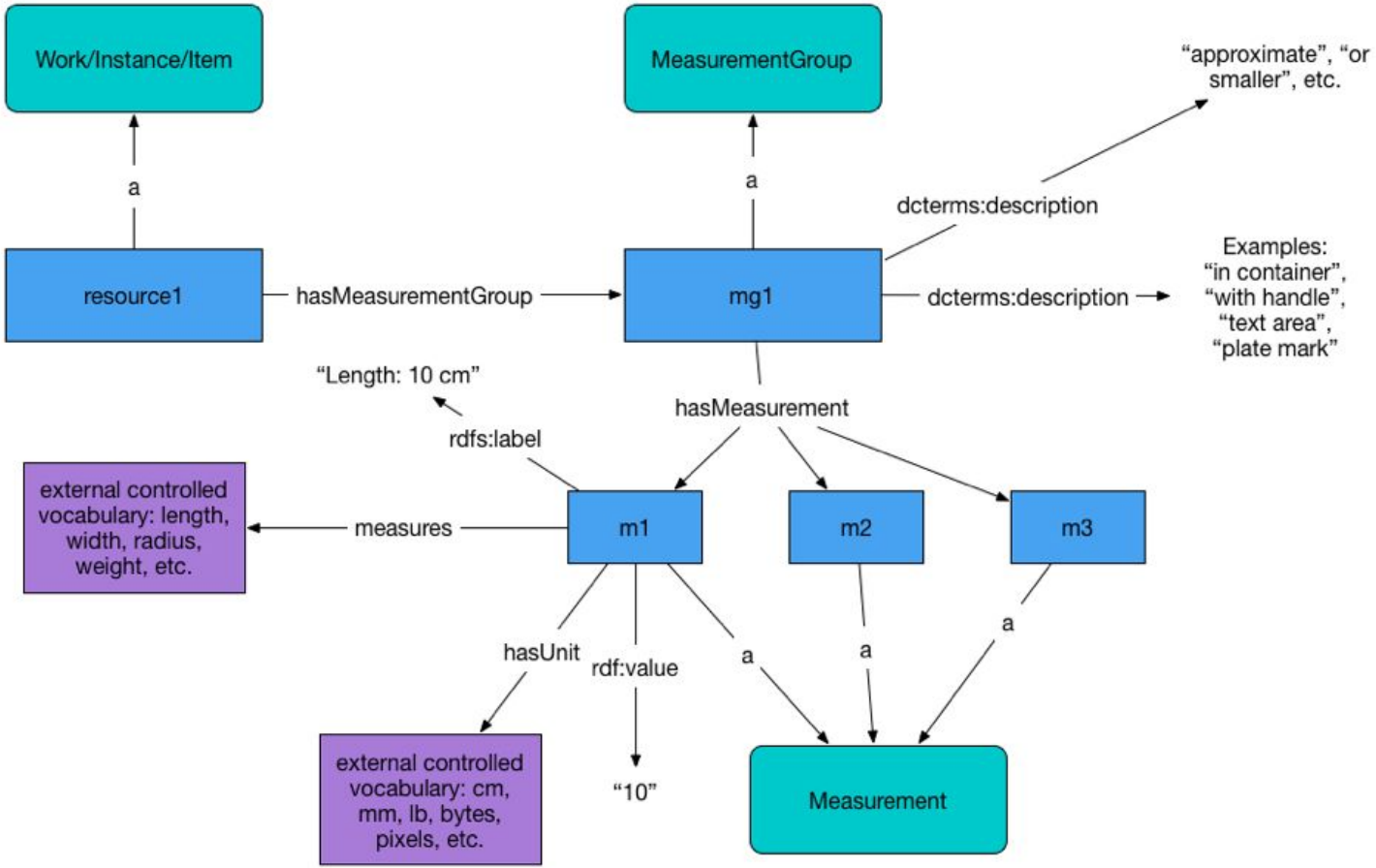

bf:Work/Instance/Item
:mount1
a
ex:Mount
hasBaseMaterial
hasAppliedMaterial
ex1:gesso
(NamedIndividual)
a
dcterms:hasPart
ex1:masonite
(NamedIndividual)
a
:resource1
Material
a
ex1:bronze
(NamedIndividual)
dcterms:hasPart
hasMaterial
Measurement
Model
ex:hasMeasurementGroup
:frame1
a
ex:Frame

Measurements

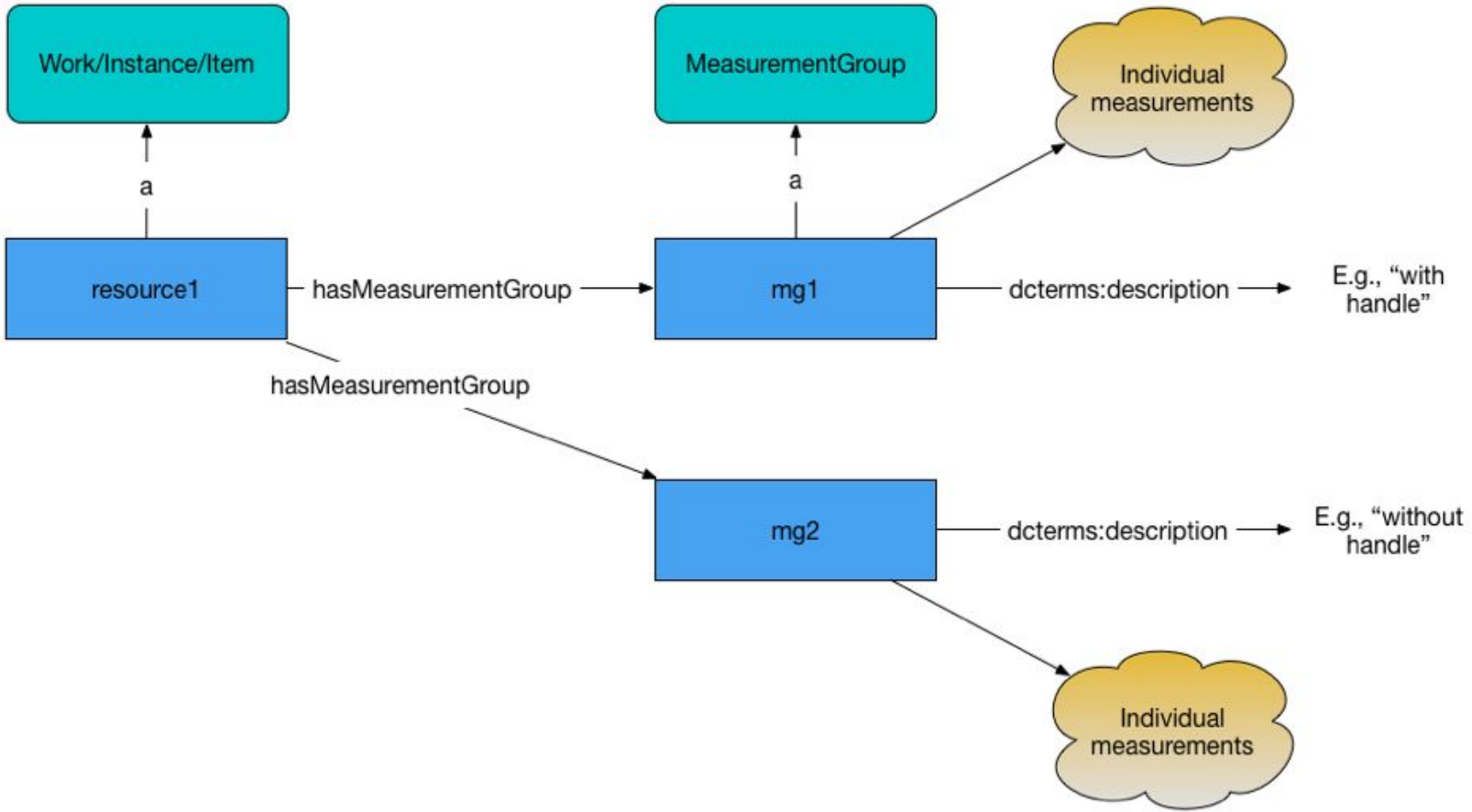
- Measurement groups and Measurements
- Use rdfs:label for human-readable form of the measurement
- Use rdf:value for numeric values
- Use bf:Unit
- Use dcterms:description when describing or specifying the part or arrangement being measured when this cannot be identified as a distinct resource and for qualifiers like “approximately”, “or smaller”, etc.
- Use dcterms:hasPart to express measurements that only apply to a specific part of a resource that can be identified as a distinct resource.

https://github.com/LD4P/ArtFrame-RareMat/blob/master/modeling_recommendations/measurements.md

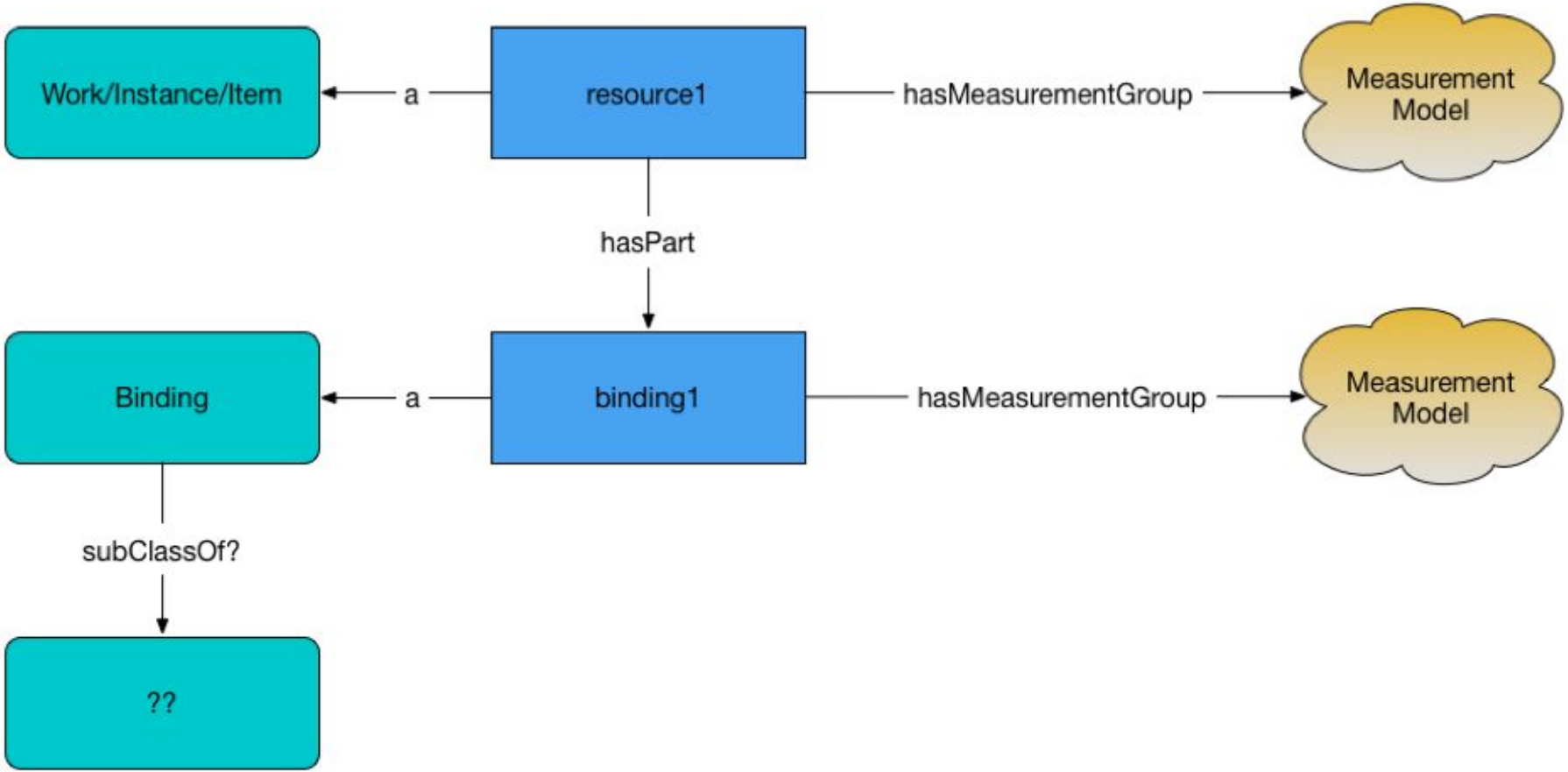
Measurements



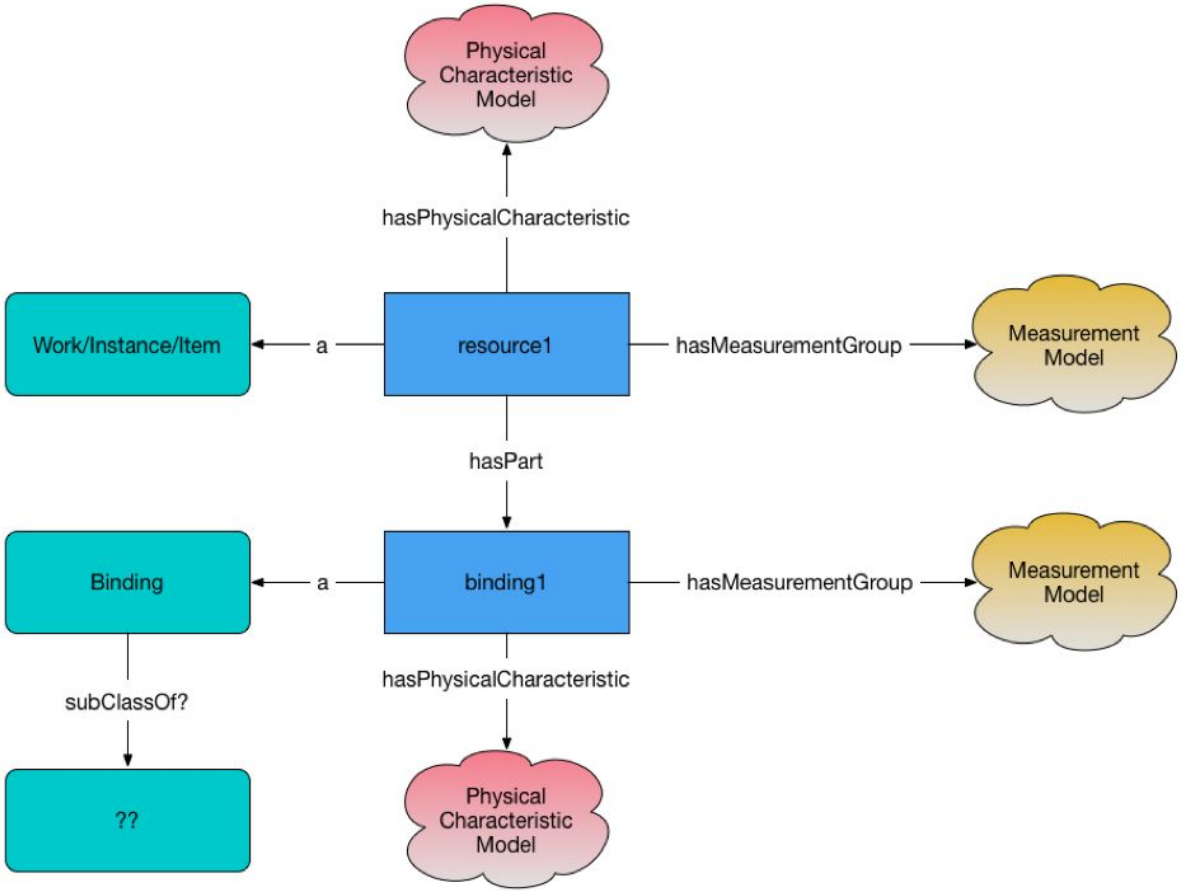
Measurements



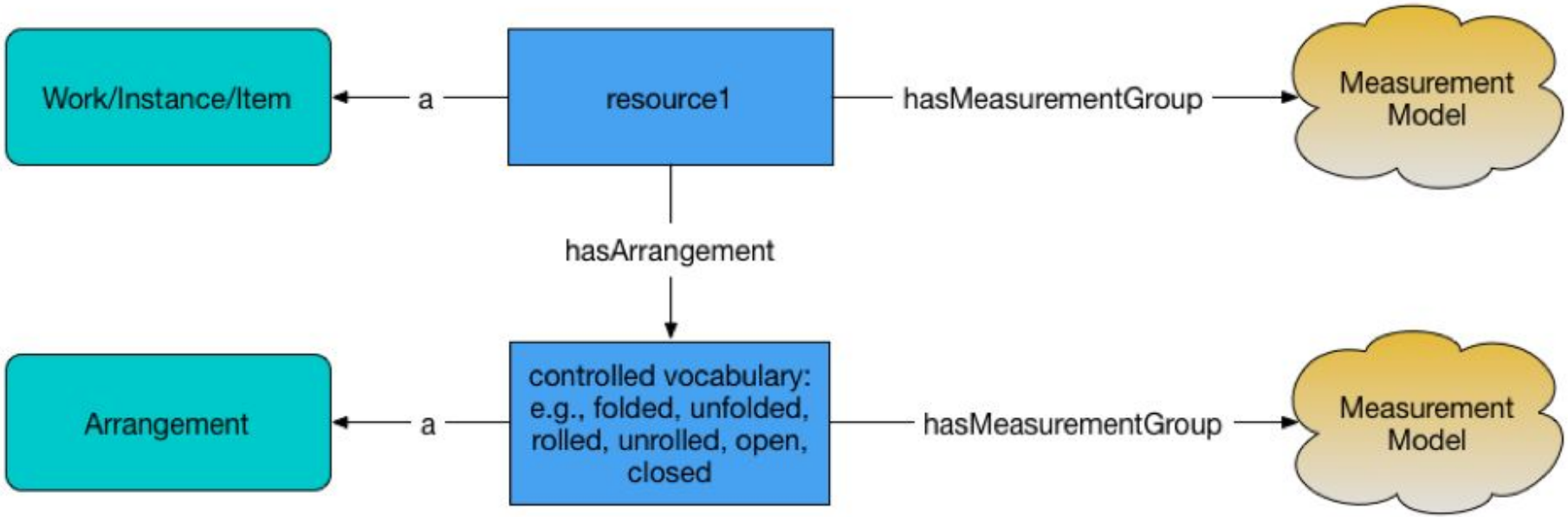
Measurements



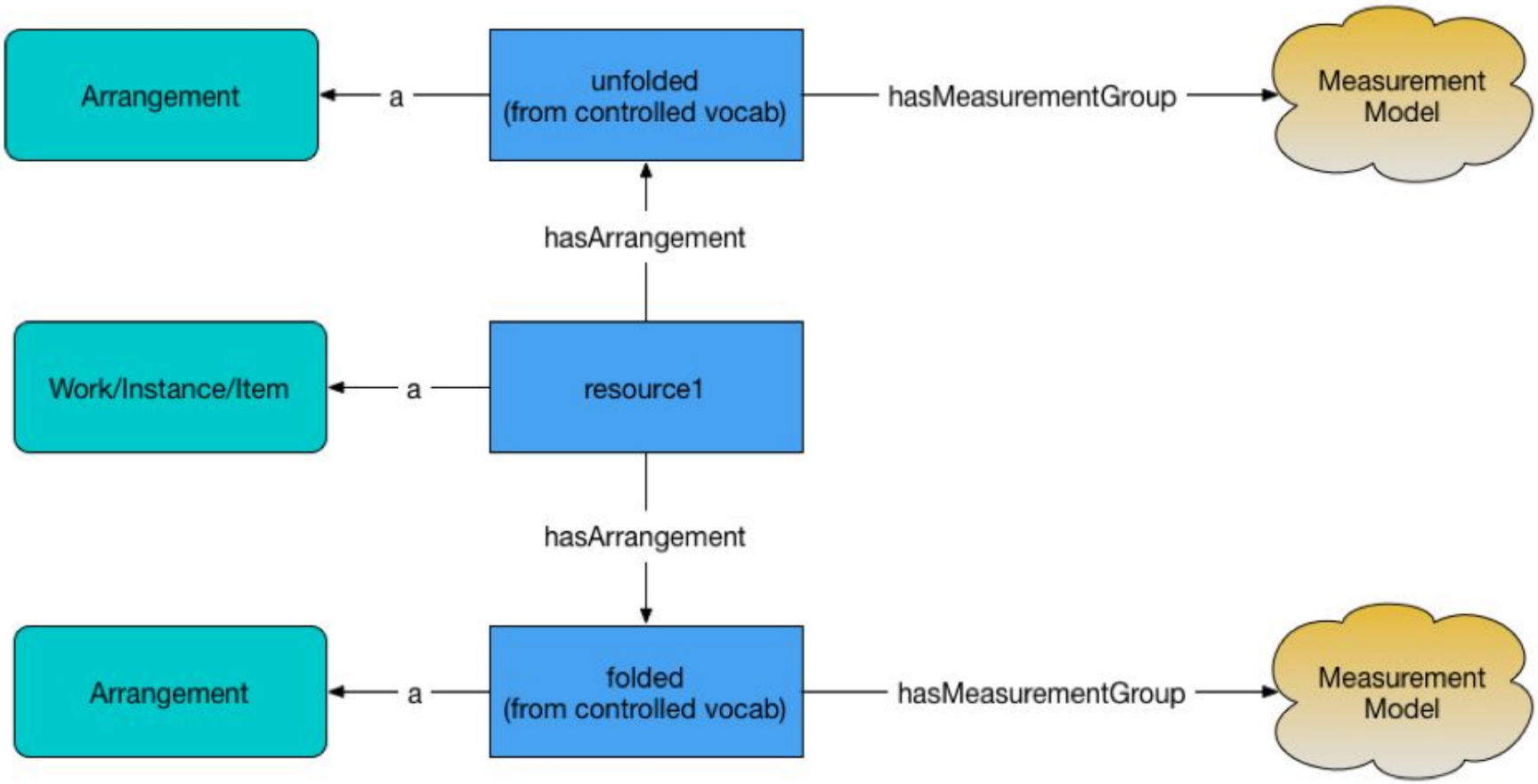
Measurements



Measurements



Measurements



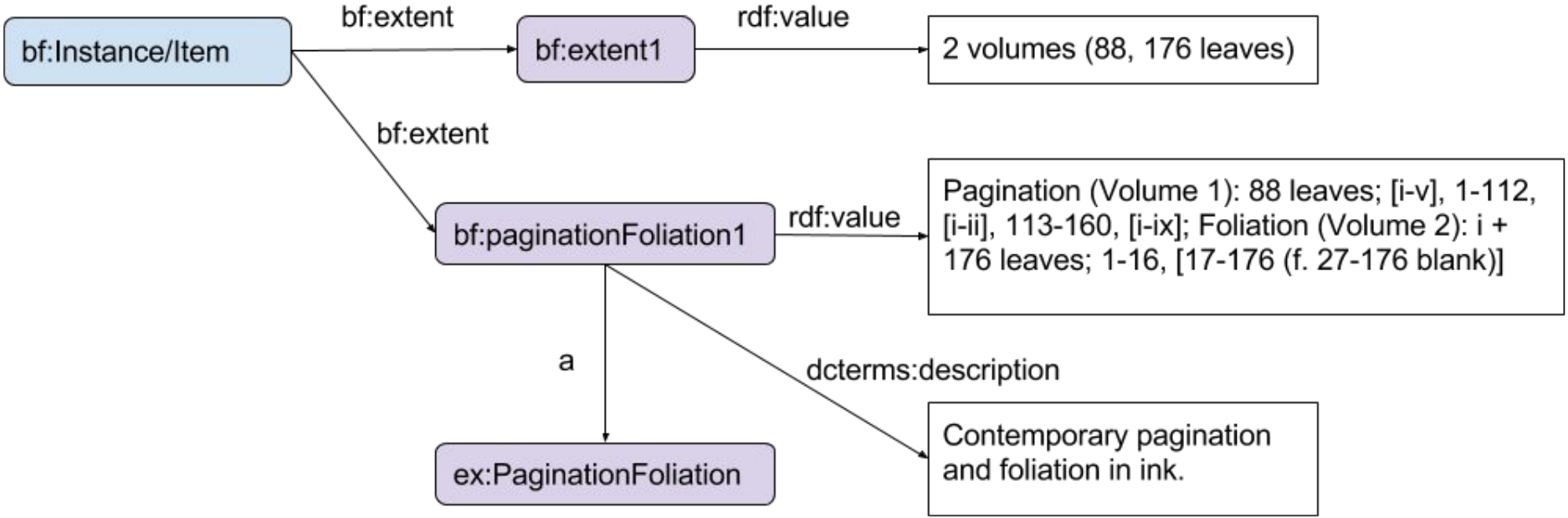
Pagination & Foliation

- ex:PaginationFoliation as subclass of bf:Extent
- Can occur on Instance or Item
- Uses rdf:value for pagination / foliation statement
- Uses dcterms:description for notes about the statement

- Note: similar profiling as ex:SignatureStatement

https://github.com/LD4P/ArtFrame-RareMat/blob/master/modeling_recommendations/pagination_foliation.md

Pagination & Foliation



Physical Condition

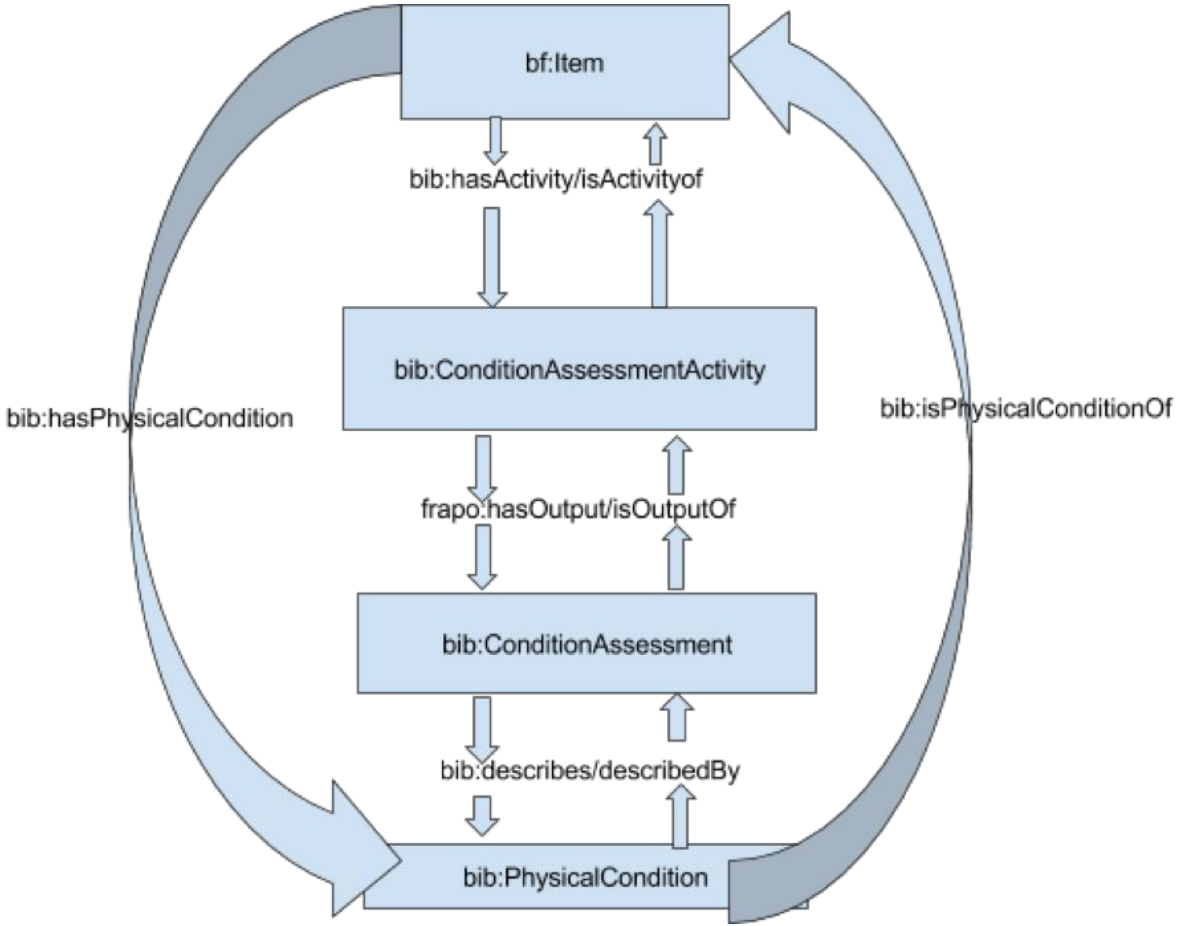
- Use bib:ConservatorActivity
- Recommend use of seq:follows and seq:precedes predicates and drop vivo:rank.
- Recommend use of frapo:hasOutput and frapo:isOutputOf
- Remove "documenting" from the definition of bib:ConservatorActivity

One condition assessment can describe one or more physical conditions as an overall assessment of the resource. However, each physical condition can describe only one aspect of the overall condition, resulting in potentially more than one physical condition statement. Each of these conditions can be acted on by one or more conservator activities.

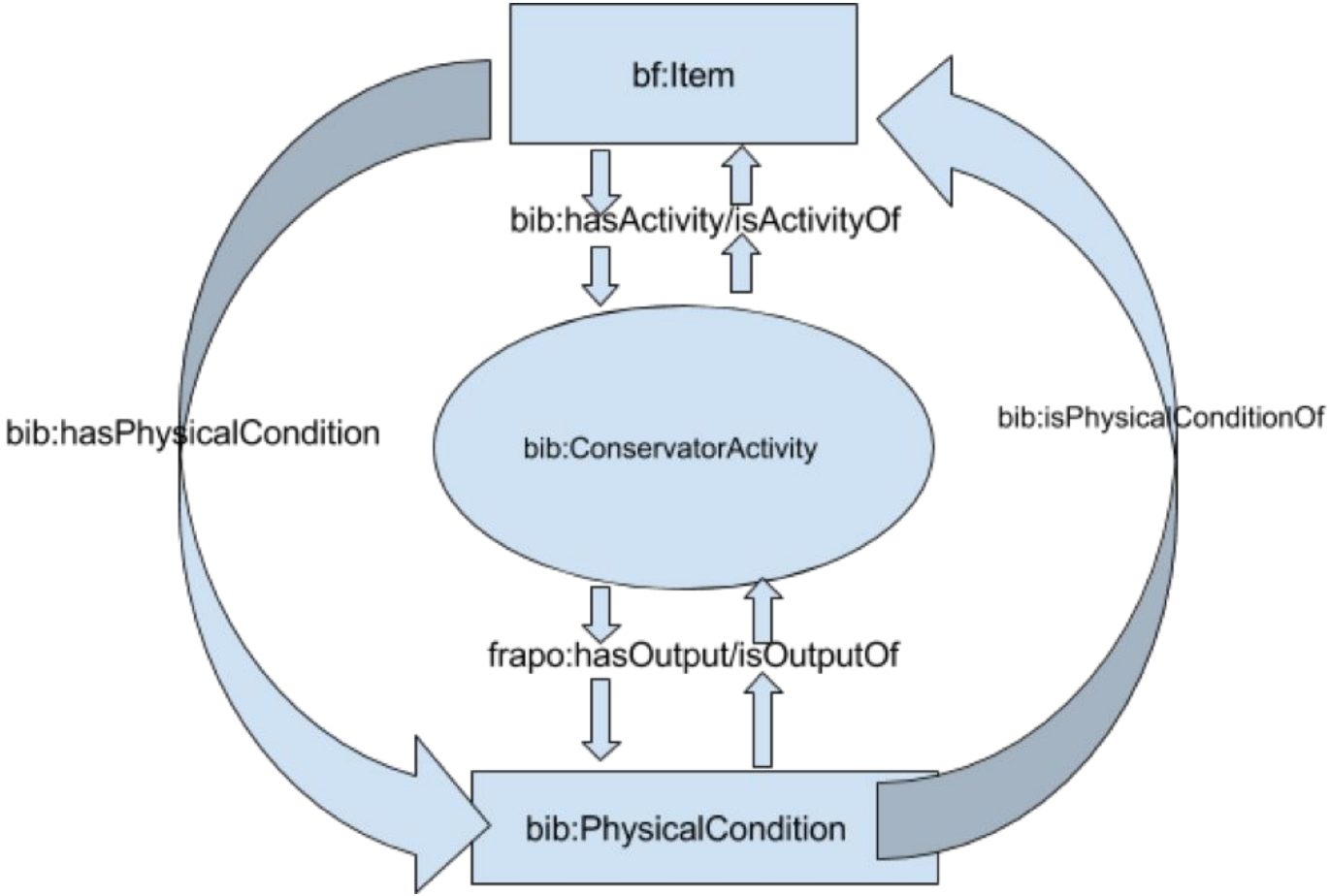
New classes and properties should be included in bibliotek-o and not in a domain-extension ontology since at least three domain extensions identified use cases.

https://github.com/LD4P/ArtFrame-RareMat/blob/master/modeling_recommendations/physical_condition.md

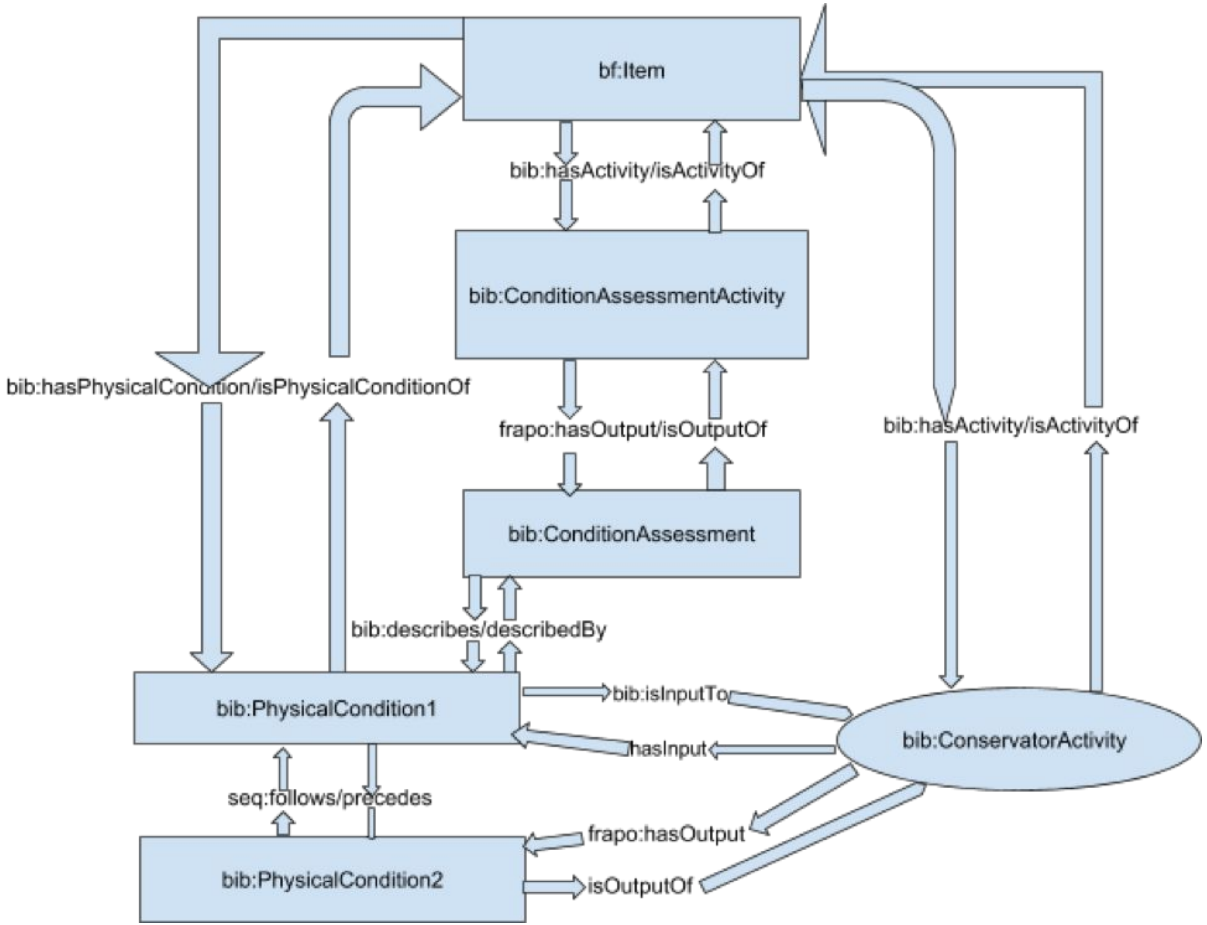
Physical Condition



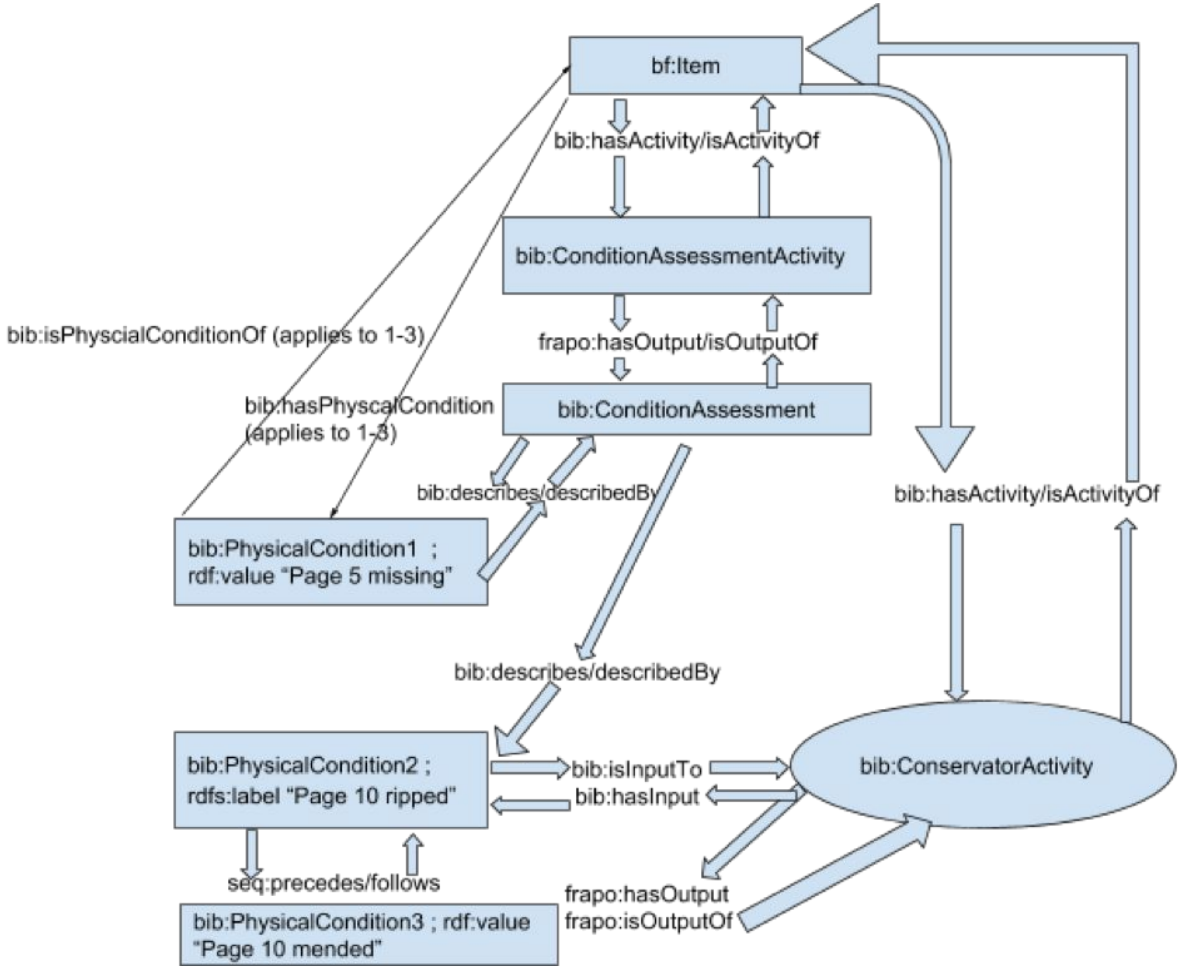
Physical Condition



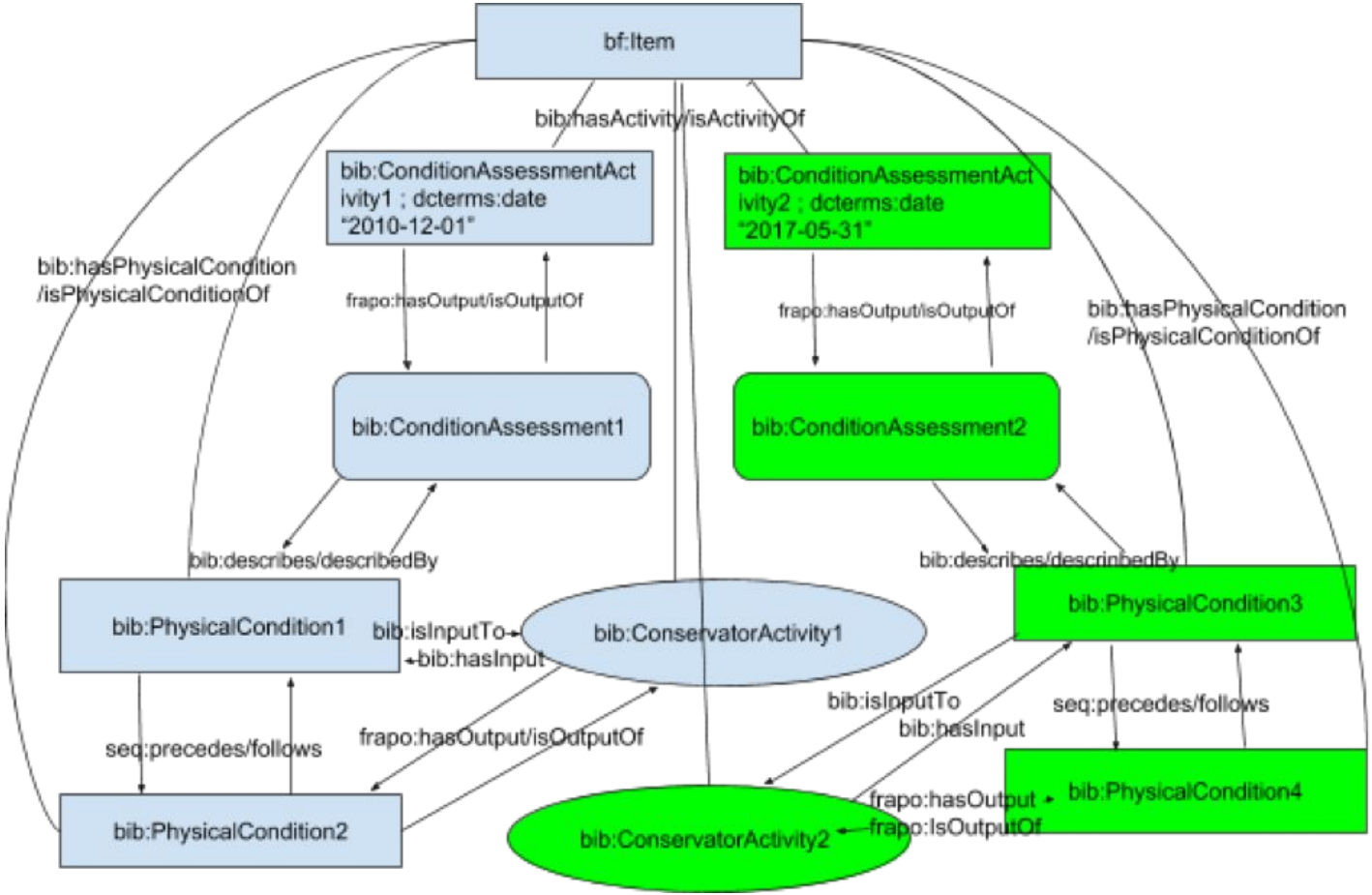
Physical Condition



Physical Condition



Physical Condition



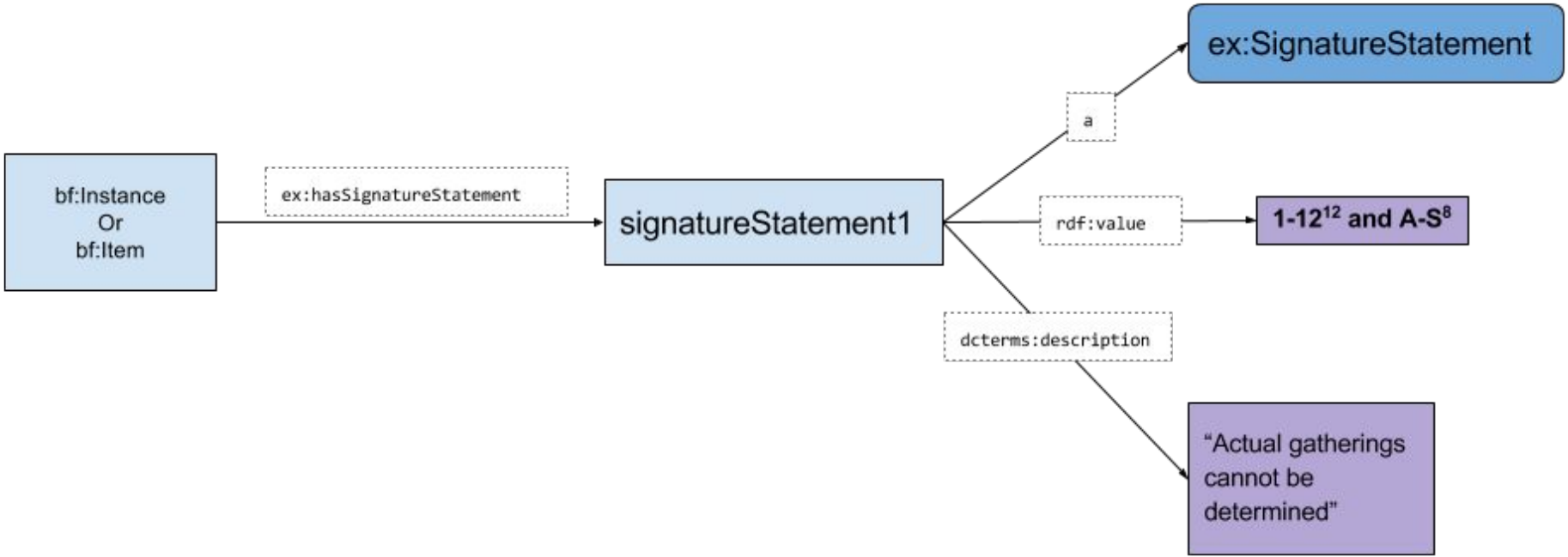
Signature Statements

- Create object property: ex:hasSignatureStatement
- Create class: ex:SignatureStatement
- Use rdf:value for signature statement data
- Use dcterms:description for any notes about the statement

- Note: similar profiling as ex:PaginationFoliation

https://github.com/LD4P/ArtFrame-RareMat/blob/master/modeling_recommendations/signature_statements.md

Signature Statement



Titles in Art

Based on bibliotek-o title model
Title subclasses directly under bf:Title NOT bf:VariantTitle

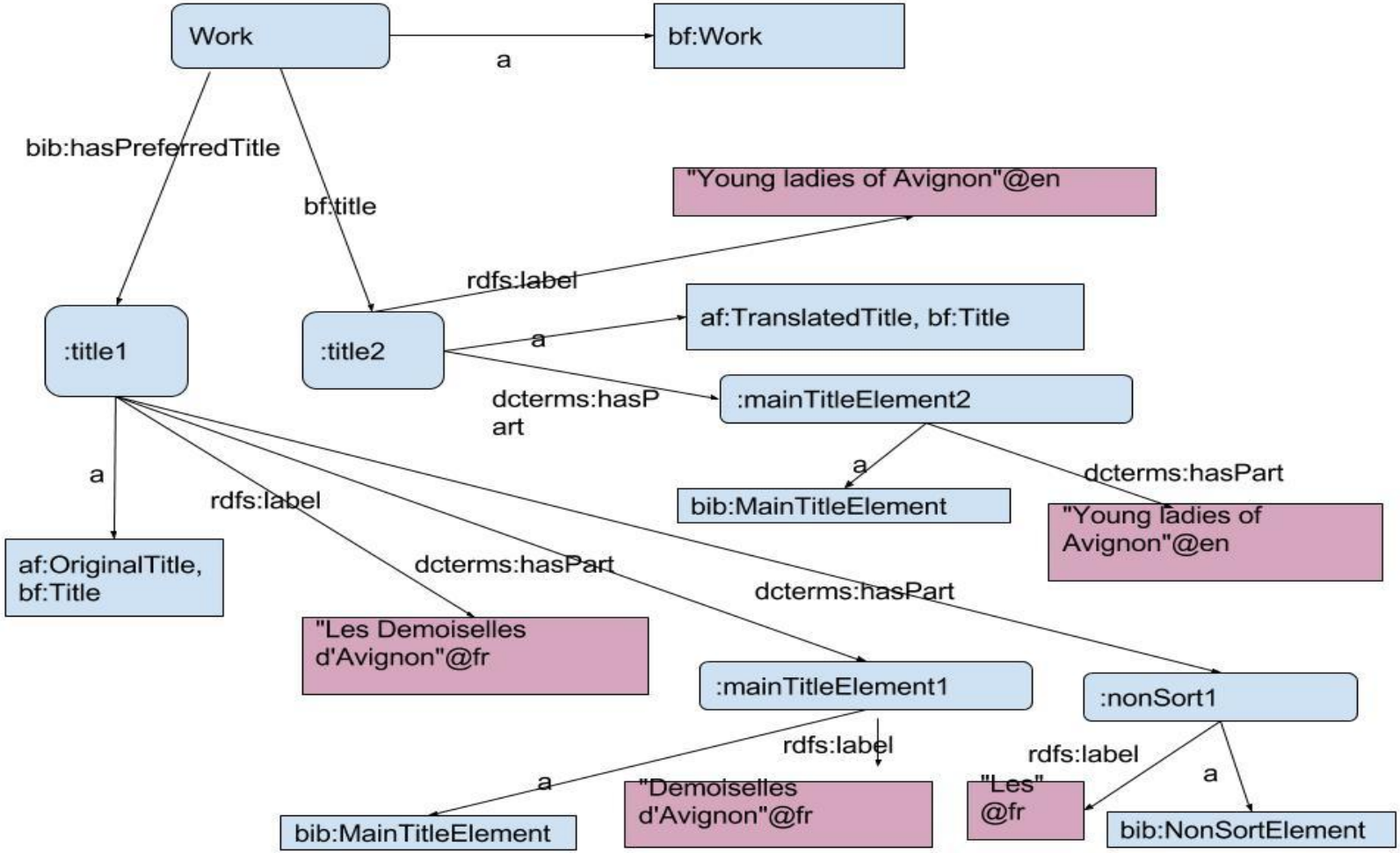
- af:RepositoryTitle
- af:CreatorsTitle
- af:DescriptiveTitle
- af:TranslatedTitle
- af:OriginalTitle
- af:ExhibitionTitle
- af:FormerTitle

https://github.com/LD4P/ArtFrame-RareMat/blob/master/modeling_recommendations/titles_art.md

Titles in Art

Not used: bib:hasOrigin except for bib:supplied and bib:transcribed

Use: bib:hasSource


Work
a
bf:Work
bib:hasPreferredTitle
bf:title
"Young ladies of Avignon"@en
rdfs:label
:title1
:title2
a
af:TranslatedTitle, bf:Title
dcterms:hasP
art
:mainTitleElement2
a
dcterms:hasPart
bib:MainTitleElement
"Young ladies of
Avignon"@en
a
rdfs:label
dcterms:hasPart
dcterms:hasPart
af:OriginalTitle,
bf:Title
"Les Demoiselles
d'Avignon"@fr
:mainTitleElement1
:nonSort1
rdfs:label
rdfs:label
a
a
"Demoiselles
d'Avignon"@fr
"Les"
@fr
bib:MainTitleElement
bib:NonSortElement