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)
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.
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Bibliographic Citations, use case 4.1: Negative citation with comment

"Here is a comment to contextualize the fact that Wing does not cite this resource."

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
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
- 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
Handwriting

Namespaces
- ex1: raremat
- ex2: bf: Script vocabulary
- ex3: HandwritingType vocabulary
- ex4: Style vocabulary (could be the same as ex3)

:Handwriting1
- ex1: has HandwritingType
- dcterms: description
  - "French Gothic bookhand in university style (littera parisiensis)"

:it
- bf: notation
- ex1: writtenIn

ex2: latin
- a
- bf: Script

ex1: Handwriting
- a

ex3: french Gothic Bookhand
- a
- ex1: HandwritingType
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
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.
Measurements

- `Work/Instance/Item`
- `resource1`
- `mg1`
- `mg2`
- `Individual measurements`

Relations:
- `hasMeasurementGroup` from `resource1` to `mg1`
- `hasMeasurementGroup` from `mg1` to `mg2`
- `dcterms:description` from `mg1` to `E.g., “with handle”`
- `dcterms:description` from `mg2` to `E.g., “without handle”`
- `Individual 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

2 volumes (88, 176 leaves)

Pagination (Volume 1): 88 leaves; [i-v], 1-112, [i-ii], 113-160, [i-ix]; Foliation (Volume 2): i + 176 leaves; 1-16, [17-176 f. 27-176 blank])

Contemporary pagination and foliation in ink.
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
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

bf:Instance or bf:Item \(\xrightarrow{ex:\text{hasSignatureStatement}}\) signatureStatement1

signatureStatement1 \(\xrightarrow{\text{rdf:value}}\) 1-12^{12} \text{ and A-S}^8

signatureStatement1 \(\xrightarrow{\text{dcterms:description}}\) “Actual gatherings cannot be determined”
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