bibliotek-o Notes & Annotations Pattern

NOTE: the following represents the direction taken by the LD4L Labs and LD4P Ontology Group in the development of bibliotek-o and may not be fully formed. This pattern document was used internally to define a direction and is shared with the intention of contextualizing a pattern found within the ontology; terms specified below may not fully align to the ontology as published. Further, discussion of BIBFRAME 2.0 may be out-of-date.

2016 December

This paper reviews the use of notes in BIBFRAME 2.0, including general notes, informal notes, and notes with a noteType expressed or implied. For many of the note properties, the adoption of the Web Annotation Model is recommended. A note in the cataloging context can be interpreted as a cataloger-asserted statement about the resource being cataloged, or an existing statement about the resource whose external source is being asserted. A resource does not itself have a summary, but a cataloger or publisher asserts one. Furthermore, the Web Annotation model is an appropriate framework to support use cases, such as those involving rare materials, in which institution-specific notes are needed. By using this model in all cases, we avoid creating multiple, arbitrary patterns for different types of notes or different types of materials, and avoid closing off options that may become useful in a linked open data environment.

We view this an experiment to be evaluated through application in production.

Pattern Overview

- The majority of informal note properties have been addressed by related recommendations, see <u>Object versus DataType Properties</u>, <u>Content Accessibility</u> and Activities.
- Use Web Annotation Model for: bf:credits, bf:custodialHistory, bf:historyOfWork, bf:natureOfContent, bf:preferredCitation, bf:summary, bf:review, bf:systemRequirements, and bf:tableOfContents.
 - For properties that we prefer to describe as Activities, such as bf:credits or bf:custodialHistory, we understand that a human-readable note may still have a place in aiding the user's understanding, and that legacy data may not be easy to parse into discrete Activities.
- Use existing OA named individuals to describe motivation when possible.
- Mint additional high level motivations, as narrower terms under oa:describing, oa:assessing or oa:linking, as appropriate.

oa:describing

- o bib:summarizing
- bib:listing
- o Id4:specifying

oa:assessing
bib:reviewing
oa:linking
bib:linkingTableOfContents

 Mint additional named individuals for more specific motivations, as narrower terms under bib:summarizing, Id4:specifying, bib:listing or bib:reviewing, as appropriate. As stated above, this is considered to be an experimental approach; therefore no plans have been put in place to maintain these specific terms.

ld4:specifying

bib:specifyingPreferredCitation bib:specifyingCustodialHistory bib:specifyingHistoryOfWork bib:specifyingNatureOfContent bib:specifyingSystemRequirements bib:specifyingContents

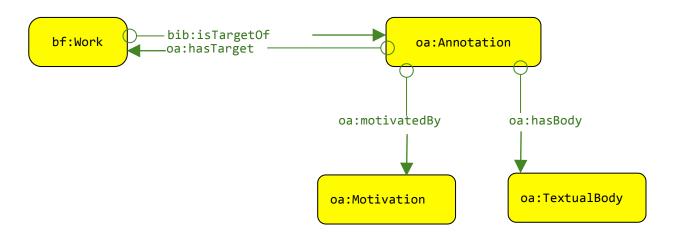
bib:listing bib:listingCredits

• Create a new object property, bib:isTargetOf, inverse of oa:hasTarget, to link from an annotated resource to an oa:Annotation.

Areas for Future Work

- There are many more motivations for notes in resource descriptions than represented by the informal note properties listed below. MARC 21 Bibliographic Data, 5xx, the MODS note types list or content standards such as DCRM(G), area 7 may be sources that can be used to identify additional Named Individuals for oa:Motivation that are frequently needed in day-to-day cataloging workflows.
- The Web Annotations model allows for expression of much more detail than is specified
 in this recommendation. We leave it to each project to determine which properties to
 implement in support of their specific use cases, so that their outcomes can inform future
 recommendations.

Recommended Model



Side by Side Examples of BIBFRAME 2.0 and bibliotek-o

```
# BIBFRAME2
_:w1 a bf:Work ;
bf:summary _:s1 .
_:s1 a bf:Summary ;
rdfs:label "This film consists of alternating black and white frames.--IMDb" .
_:w2 a bf:Work;
bf:hasInstance :inst1 ;
bf:credits "Strips of film coated with glue and powdered metal were 'electrocuted' at the
HFA's Carpenter Center at a performance given by Tony Conrad April 7, 2008. The film was
then processed before the audience's very eyes, dried (with the help of a Harvard student
and his hair drier), and given to HFA film conservator Liz Coffey to project from the middle
of the theatre using two Eiki slot-load projector with sound." .
_:inst1 a bf:Instance ;
bf:hasItem _:item1 .
_:item1 a bf:Item ;
bf:note _:n1 ;
bf:custodialHistory "Donated to the Harvard Film Archive by Tony Conrad." .
_:n1 a bf:Note;
bf:noteType "condition";
rdf:label "Footage is approximately the height of Tony Conrad. Scratched during
performance. One loop was damaged by sprockets during performance." .
```

bibliotek-o v.2

```
_:w1 a bf:Work ;
 bib:isTargetOf _:s1 .
:s1 a oa:Annotation ;
 oa:hasTarget _:w1 ;
oa:motivatedBy bib:summarizing ;
 oa:hasBody _:b1 ;
dcterms:creator <https://library.harvard.edu/hfa/ld4l> .
_:b1 a oa:SpecificResource;
oa:hasSource <http://www.imdb.com/title/tt0059182/plotsummary>;
oa:hasSelector [
             a oa:TextQuoteSelector ;
            oa:exact "This film consists of alternating black and white frames." ]
_:w2 a bf:Work;
bf:hasInstance :inst1 ;
bib:isTargetOf _:n1 .
_:n1 a oa:Annotation ;
oa:hasTarget _:w2 ;
oa:motivatedBy bib:listingCredits ;
oa:hasBody _:b2 ;
dcterms:creator <https://library.harvard.edu/hfa/ld4l> .
:b2 a oa:TextualBody ;
rdf:value "Strips of film coated with glue and powdered metal were 'electrocuted' at the
HFA's Carpenter Center at a performance given by Tony Conrad April 7, 2008. The film was
then processed before the audience's very eyes, dried (with the help of a Harvard student
and his hair drier), and given to HFA film conservator Liz Coffey to project from the middle
of the theatre using two Eiki slot-load projector with sound." .
_:inst1 a bf:Instance ;
bf:hasItem _:item1 .
:n2 a oa:Annotation ;
oa:hasTarget _:item1 ;
oa:motivatedBy bib:specifyingCustodialHistory;
oa:hasBody _:b3 ;
dcterms:creator <https://library.harvard.edu/hfa/ld4l> .
:b3 a oa:TextualBody ;
rdf:value "Donated to the Harvard Film Archive by Tony Conrad." .
_:n3 a oa:Annotation ;
oa:hasTarget _:item1 ;
oa:motivatedBy oa:describing ;
oa:hasBody _:b4 ;
dcterms:creator <https://library.harvard.edu/hfa/ld4l> .
_:b4 a oa:TextualBody ;
rdf:value "Footage is approximately the height of Tony Conrad. Scratched during
performance. One loop was damaged by sprockets during performance." .
```

Recommended classes and properties

Some recommendations below have been copied from related documents; please follow links for the most up-to-date details.

BIBFRAME 2.0	bibliotek-o
Involved Classes	

bf:Note oa:Annotation **URI:** http://www.w3.org/ns/oa#Annotation Label: Note **URI**: http://id.loc.gov/ontologies/bibframe/Note **Definition:** Information, usually in textual form. Required Predicates: oa:hasTarget, rdf:type Recommended Predicates: oa:hasBody, on attributes of a resource or some aspect of a oa:motivatedBy, dcterms:creator, resource. dcterms:created SubClass Of: http://www.w3.org/2000/01/rdf-Other Predicates: oa:bodyValue. schema#Resource oa:styledBy, dcterms:issued, as:generator Used with: http://id.loc.gov/ontologies/bibframe/note bib:summarizing (Named Individual of bf:Summary oa:Motivation) oa:describing > bib:summarizing **Label:** Summary **URI:** http://id.loc.gov/ontologies/bibframe/Summary **Definition:** Description of the content of a resource, such as an abstract, summary, etc... SubClass Of: http://www.w3.org/2000/01/rdfschema#Resource Used with: http://id.loc.gov/ontologies/bibframe/summary bf:TableOfContents bib:specifyingContents (Named Individual of oa:Motivation) oa:describing > bib:specifying > **Label:** Table of contents bib:specifyingContents URI: http://id.loc.gov/ontologies/bibframe/TableOfCo bib:linkingTableOfContents (Named ntents Individual of oa: Motivation) **Definition:** Table of contents of a resource. oa:linking > bib:linkingTableOfContents SubClass Of: http://www.w3.org/2000/01/rdfschema#Resource Used with: http://id.loc.gov/ontologies/bibframe/tableOfCon tents bib:reviewing (Named Individual of bf:Review oa:Motivation) Label: Review oa:assessing > bib:reviewing URI: http://id.loc.gov/ontologies/bibframe/Review

Definition: Review of a resource

schema#Resource

SubClass Of: http://www.w3.org/2000/01/rdf-

Used with: bf:review	
	oa:Motivation
	IRI: http://www.w3.org/ns/oa#Motivation Sub Class Of: skos:Concept Range Of: oa:motivatedBy, oa:hasPurpose
	oa:TextualBody
	IRI: http://www.w3.org/ns/oa#TextualBody Equivalent Classes: as:Note Required Predicates: rdf:value Recommended Predicates: dc:format, dc:language, rdf:type
Involved Properties	
bf:note	bib:isTargetOf
Label: Note URI: http://id.loc.gov/ontologies/bibframe/note Definition: General textual information relating to a resource, such as Information about a specific copy of a resource or information about	Definition: The relationship between a Target and an Annotation
a particular attribute of a resource. Comment: Used with Unspecified	oa:hasTarget
Range: http://id.loc.gov/ontologies/bibframe/Note	IRI: http://www.w3.org/ns/oa#hasTarget Definition: The relationship between an Annotation and its Target. Domain: oa:Annotation
bf:noteType	
Label: Note type URI: http://id.loc.gov/ontologies/bibframe/noteType Definition: Type of note Used with: http://id.loc.gov/ontologies/bibframe/Note Range: Literal	
	oa:motivatedBy
	IRI: http://www.w3.org/ns/oa#motivatedBy Definition: The relationship between an Annotation and a Motivation that describes the reason for the Annotation's creation. Domain: oa:Annotation

Range: oa:Motivation
oa:hasBody
IRI: http://www.w3.org/ns/oa#hasBody Definition: The object of the relationship is a resource that is a body of the Annotation. Domain: oa:Annotation

See: Content Accessibility discussion paper bf:contentAccessibility Label: Content accessibility note http://id.loc.gov/ontologies/bibframe/contentAcc essibility **Definition:** Information that assists those with a sensory impairment for greater understanding of content, e.g., captions. Comment: Used with Work or Instance Range: Literal bf:credits bib:listingCredits (Named Individual of Informal note property oa:Motivation) Label: Credits note URI: http://id.loc.gov/ontologies/bibframe/credits oa:describing > bib:listing > bib:listingCredits **Definition:** Information in note form of credits **Definition**: The motivation for when the user for persons or organizations who have needs to record information about one or participated in the creation and/or production of multiple agents and their roles in the creation the resource. and/or production of the resource in one **Comment:** Used with Work or Instance. literal instead of parsing it out into discrete Range: Literal classes and properties. See recommendation in Object versus bf:awards DataType Properties document. Informal note property notes from the ontology call on 2/28: Label: Award note URI: Conclusion: postpone for future work, use http://id.loc.gov/ontologies/bibframe/awards bf:awards, request changes to **Definition**: Information on awards associated bf:grantingInstitution from LC with the described resource. Comment: Used with Work or Instance Range: Literal bf:natureOfContent bib:specifyingNatureOfContent (Named Individual of oa:Motivation) Informal note property Label: Content nature **URI:** http://id.loc.gov/ontologies/bibframe/natureOfCo oa:describing > bib:specifying > bib:specifyingNatureOfContent **Definition:** Characterization that epitomizes the primary content of a resource, e.g., field **Definition:** The motivation for when the user

needs to characterize the primary content of

the resource.

recording of birdsong; combined time series

analysis and graph plotting system.

Range: Literal

Comment: Used with Work or Instance

See recommendation in Object versus bf:editionEnumeration dataType Property document Informal note property **Label:** Edition enumeration URI: http://id.loc.gov/ontologies/bibframe/editionEnu meration **Definition:** Enumeration of the edition; usually transcribed. **Domain:** Instance Range: Literal See recommendation in Object versus bf:editionStatement dataType Property document Informal note property Label: Edition statement URI: http://id.loc.gov/ontologies/bibframe/editionStat **Definition:** Information identifying the edition or version of the resource and associated statements of responsibility for the edition; usually transcribed. **Domain:** Instance Range: Literal bf:historyOfWork bib:specifyingHistoryOfWork (Named Individual of oa:Motivation) Informal note property Label: History of the work oa:describing > bib:specifying > URI: bib:specifyingHistoryOfWork http://id.loc.gov/ontologies/bibframe/historyOfW **Definition**: The motivation for when the user needs to record information about the history **Definition:** Information about the history of a of a work. Work. **Domain**: Work Range: Literal bf:preferredCitation bib:specifyingPreferredCitation (Named Individual of oa:Motivation) Informal note property Label: Preferred citation oa:describing > bib:specifying > URI: bib:specifyingPreferredCitation http://id.loc.gov/ontologies/bibframe/preferredCi **Definition:** The motivation for when the user tation wants to specify a preferred citation for a

Definition: Citation to the resource preferred	resource.
by its custodian of the resource.	
rdfs:comment: Used with Work or Instance	
Range: Literal	

bf:provisionActivityStatement	See recommendation in Activities document
Informal note property	
Label: Provider statement URI:	
http://id.loc.gov/ontologies/bibframe/provisionActivityStatement	
Definition: Statement relating to providers of a	
resource; usually transcribed. Domain: Instance Range: Literal	
	See recommendation in Object versus
bf:responsibilityStatement	dataType Property document
Informal note property Label: Creative responsibility statement	
URI:	
http://id.loc.gov/ontologies/bibframe/responsibilityStatement	
Definition: Statement relating to any persons,	
families, or corporate bodies responsible for the creation of, or contributing to the content of a	
resource; usually transcribed.	
Domain: Instance Range: Literal	
Range, Lilerai	
bf:review_	bib:reviewing (Named Individual of oa:Motivation)
bf:review Label: Review content	
bf:review Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review	oa:Motivation)
bf:review Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review Definition: Review of a resource Comment: Used with Work or Instance	
bf:review Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review Definition: Review of a resource	oa:Motivation) oa:assessing > bib:reviewing
bf:review Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review Definition: Review of a resource Comment: Used with Work or Instance	oa:Motivation)
bf:review Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review Definition: Review of a resource Comment: Used with Work or Instance Range: Review bf:seriesEnumeration Informal note property	oa:Motivation) oa:assessing > bib:reviewing See recommendation in Object versus
bf:review Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review Definition: Review of a resource Comment: Used with Work or Instance Range: Review bf:seriesEnumeration Informal note property Label: Series enumeration	oa:Motivation) oa:assessing > bib:reviewing See recommendation in Object versus
bf:review Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review Definition: Review of a resource Comment: Used with Work or Instance Range: Review bf:seriesEnumeration Informal note property	oa:Motivation) oa:assessing > bib:reviewing See recommendation in Object versus
Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review Definition: Review of a resource Comment: Used with Work or Instance Range: Review bf:seriesEnumeration Informal note property Label: Series enumeration URI: http://id.loc.gov/ontologies/bibframe/seriesEnumeration	oa:Motivation) oa:assessing > bib:reviewing See recommendation in Object versus
Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review Definition: Review of a resource Comment: Used with Work or Instance Range: Review bf:seriesEnumeration Informal note property Label: Series enumeration URI: http://id.loc.gov/ontologies/bibframe/seriesEnumeration Definition: Series enumeration of the resource;	oa:Motivation) oa:assessing > bib:reviewing See recommendation in Object versus
Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review Definition: Review of a resource Comment: Used with Work or Instance Range: Review bf:seriesEnumeration Informal note property Label: Series enumeration URI: http://id.loc.gov/ontologies/bibframe/seriesEnumeration Definition: Series enumeration of the resource; usually transcribed. Domain: Instance	oa:Motivation) oa:assessing > bib:reviewing See recommendation in Object versus
Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review Definition: Review of a resource Comment: Used with Work or Instance Range: Review bf:seriesEnumeration Informal note property Label: Series enumeration URI: http://id.loc.gov/ontologies/bibframe/seriesEnumeration Definition: Series enumeration of the resource; usually transcribed.	oa:Motivation) oa:assessing > bib:reviewing See recommendation in Object versus dataType Property document
Label: Review content URI: http://id.loc.gov/ontologies/bibframe/review Definition: Review of a resource Comment: Used with Work or Instance Range: Review bf:seriesEnumeration Informal note property Label: Series enumeration URI: http://id.loc.gov/ontologies/bibframe/seriesEnumeration Definition: Series enumeration of the resource; usually transcribed. Domain: Instance	oa:Motivation) oa:assessing > bib:reviewing See recommendation in Object versus

Informal note property

Label: Series statement

URI:

 $\underline{\text{http://id.loc.gov/ontologies/bibframe/seriesState}}$

ment

Definition: Statement of the series the

resource is in; usually transcribed; includes the

ISSN if applicable. **Domain:** Instance **Range:** Literal

See recommendation in Object versus bf:subseriesEnumeration dataType Property document Informal note property Label: Series statement URI: http://id.loc.gov/ontologies/bibframe/seriesState ment **Definition:** Statement of the series the resource is in; usually transcribed; includes the ISSN if applicable. Domain: Instance Range: Literal See recommendation in Object versus bf:subseriesStatement dataType Property document Informal note property Label: Subseries statement URI: http://id.loc.gov/ontologies/bibframe/subseriesS tatement **Definition:** Statement of the subseries the resource is in; usually transcribed; includes the ISSN if applicable. **Domain:** Instance Range: Literal bf:summary bib:summarizing (Named Individual of oa:Motivation) Informal note property Label: Summary content oa:describing > bib:summarizing **URI:** http://id.loc.gov/ontologies/bibframe/summary **Definition:** The motivation for when the user **Definition:** Summary or abstract of the needs to add a summary or abstract to the resource described. resource being described. Domain: Work or Instance Range: Literal bf:systemRequirements bib:specifyingSystemRequirements (Named Individual of oa:Motivation) Informal note property Label: Equipment or system requirements oa:describing > bib:specifying > URI: bib:specifyingSystemRequirements http://id.loc.gov/ontologies/bibframe/systemReq **Definition:** The motivation for when the user needs to record any equipment or system uirements requirements beyond what is normal and **Definition:** Equipment or system requirements obvious for the type of carrier or type of file. beyond what is normal and obvious for the type

of carrier or type of file, such as make and model of equipment or hardware, operating system, amount of memory, programming language, other necessary software, any plugins or peripherals required to play, view, or run the resource, etc.

Domain: Instance Range: Literal

bf:tableOfContents

Informal note property

Label: Table of contents content

URI:

 $\underline{http:/\!/id.loc.gov/ontologies/bibframe/tableOfCon}$

tents

Definition: Table of contents of the described

resource.

Domain: Work or Instance **Range:** bf:TableOfContents

bf:custodialHistory

Informal note property Label: Custodial history

URI:

http://id.loc.gov/ontologies/bibframe/custodialHi

story

Definition: Information about the provenance, such as origin, ownership and custodial history

(chain of custody), of a resource.

Comment: Used with Work, Instance or Item

Range: Literal

bib:specifyingContents (Named Individual of oa:Motivation)

oa:describing > bib:specifying >
bib:specifyingContents

bib:linkingTableOfContents (Named Individual of oa:Motivation)

oa:linking > bib:linkingTableOfContents

bib:specifyingCustodialHistory (Named Individual of oa:Motivation)

oa:describing > bib:specifying > bib:specifyingCustodialHistory

Definition: The motivation for when the user needs to record information about the history of the resource being described in one literal.

BF2 Approach to Notes

For an in-depth explanation on use of notes in BIBFRAME 2.0 see the <u>BIBFRAME 2.0</u> <u>Specifications</u>, <u>Notes</u>.

Notes can be expressed in five different ways in BF 2.0: Informal notes, a plain note with no type expressed; a note with type implied (a bf:note used in conjunction with another property which provides context); as a note with a noteType expressed as a literal and as a note with a type expressed by an external class. BIBFRAME 2.0 does not internally define any note types.

LD4L-O v.1 Approach to Notes

LD4L-O v.1 defines broad range of note properties, all of them subproperties of ld4l:note, with a range of literal, as well as other datatype properties that cover textual information similar to BF2 notes, such as ld4l:accessibilityFeature. It does not define any classes for notes.

LD4L-O v.1 also includes classes and properties from the Web Annotation Model. It also includes an inverse for oa:hasTarget, ld4l:hasAnnotation.