



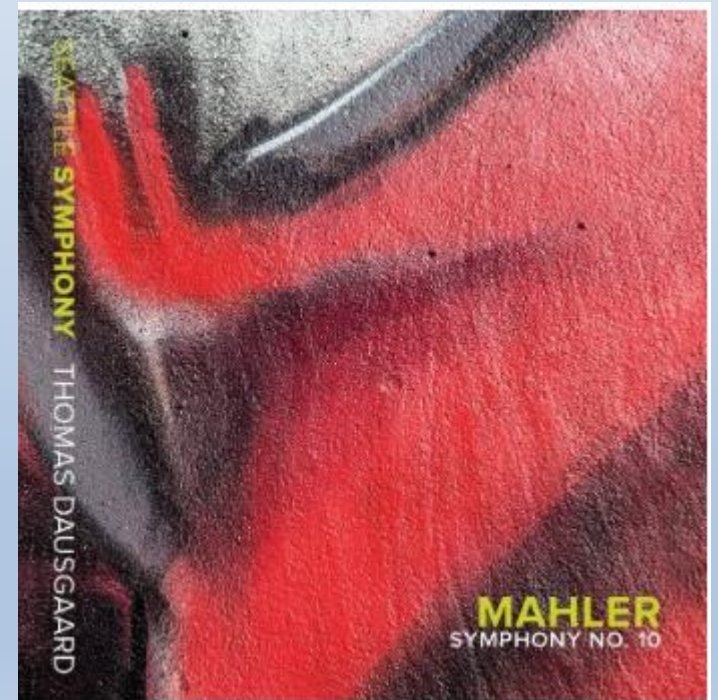
Modeling Music as Linked Data

WORKS, EVENTS, AND WORLDVIEWS IN BIBFRAME.

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Stanford University Libraries
PNC 2016, Getty Institute
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024	7	00855404005119 #2 gtin-14
024	1	855404005119
028	0 2	SSM1011 #b Seattle Symphony Media
033	1 0	20151119 #a 20151121 #a 20151122 #b 4284 #c S4
050	4	M1001 #b .M36 2016
082	0 4	784.2/184 #2 23
090		#b
049		STFA
100	1	Mahler, Gustav , #d 1860-1911, #e composer.
240	1 0	Symphonies, #n no. 10
245	1 0	Symphony no. 10 / #c Mahler.
264	1	Seattle, WA : #b Seattle Symphony Media, #c [2016]
264	4	#c ©2016
300		1 audio disc : #b CD audio, digital ; #c 4 3/4 in.
336		performed music #b prm #2 rdacontent
337		audio #b s #2 rdamedia
338		audio disc #b sd #2 rdacarrier
344		digital #b optical #2 rda
347		audio file #b CD audio #2 rda
500		"Performing version by Deryck Cooke."
500		Title from container.
511	0	Seattle Symphony ; Thomas Dausgaard, conductor.
508		Producer, Dmitriy Lipay.
518		#o Recorded live in concert #d 2015 November 19, 21 and 22 #p S. Mark Taper Foundation Auditorium, Benaroya Hall, Seattle, Washington.
500		Compact disc.
650	0	Symphonies .
650	0	Live sound recordings .
650	7	Live sound recordings. #2 fast #0 (OCoLC)fst01000613
650	7	Symphonies. #2 fast #0 (OCoLC)fst01140873
700	1	Dausgaard, Thomas , #d 1963- #e conductor.
710	2	Seattle Symphony Orchestra , #e instrumentalist.

Gustav Mahler's Symphony no. 10



MARC vs Linked Data

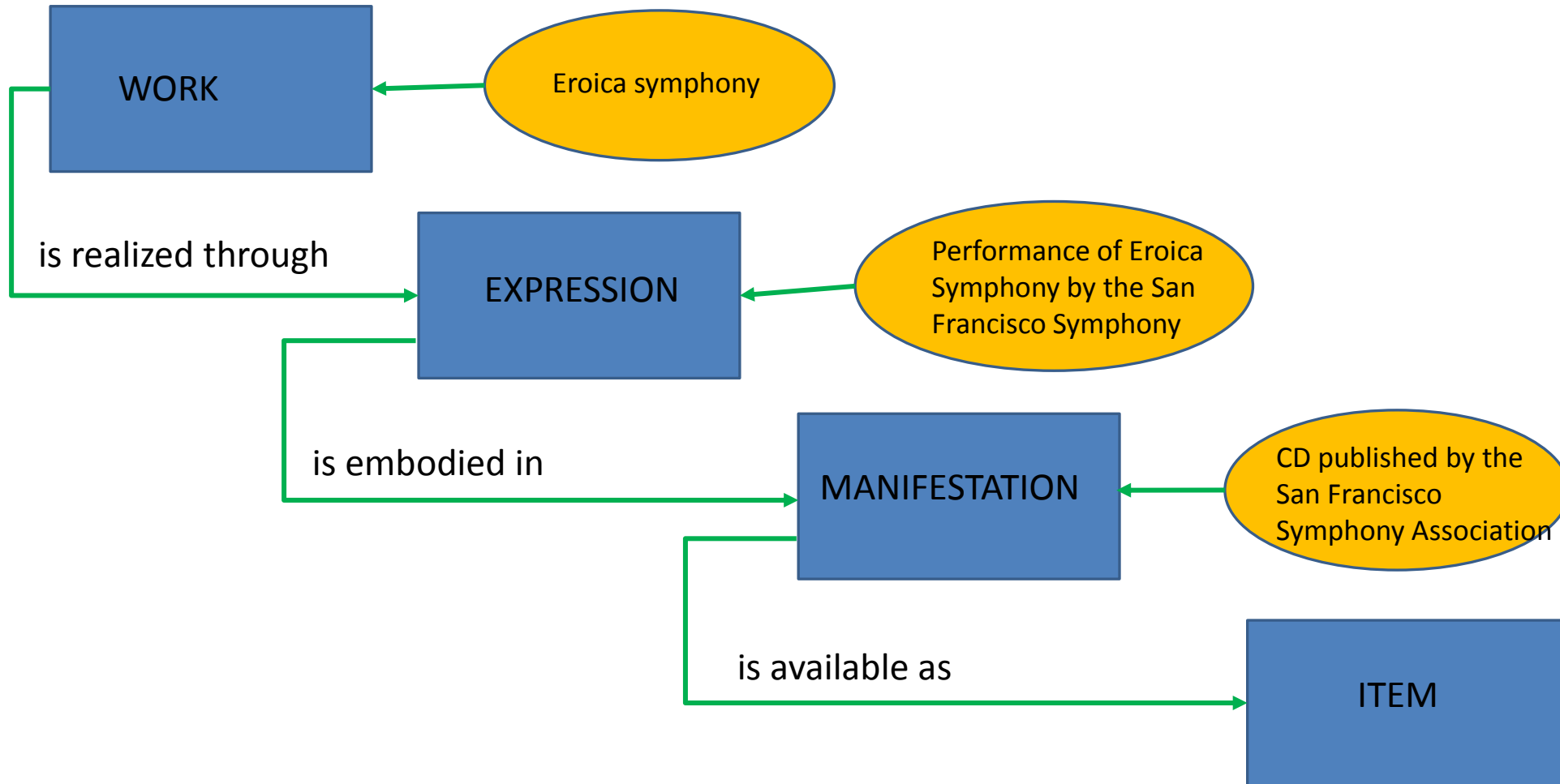
MARC

- ❖ Data elements are linked together by the context of the database record
- ❖ Identifiers are text strings
100 1 Mahler, Gustav, 1860-1911
- ❖ Relationships are expressed in free text notes & require human interpretation
100 1 Mahler, Gustav, 1860-1911.
245 10 Symphony no. 10 / Gustav Mahler.
511 0 Seattle Symphony; Thomas Dausgaard, conductor.

LINKED DATA

- ❖ Data elements are linked together as independent statements and not tied to a record format
- ❖ Identifiers are URIs
<http://viaf.org/viaf/61732497>
- ❖ Relationships are expressed as triples in the form of URIS and are machine-actionable:
[Symphony no. 10] <http://viaf.org/viaf/xxx>
[has conductor] <http://id.loc.gov/vocabulary/relators/cnd>
[Thomas Dausgaard] <http://viaf.org/viaf/153755101>

FRBR model



BIBFRAME 1.0



Why BIBFRAME for performed music?

Just one aspect of bibliographic data

- There are specialized music catalogers, but many catalogers work with a multitude of bibliographic formats and don't have the time to jump back and forth among different ontologies

Based on the FRBR model

- Need to accommodate RDA

Legacy data

- Need to transform 50 years of legacy data

Need to still connect to our ILS's (integrated library systems)

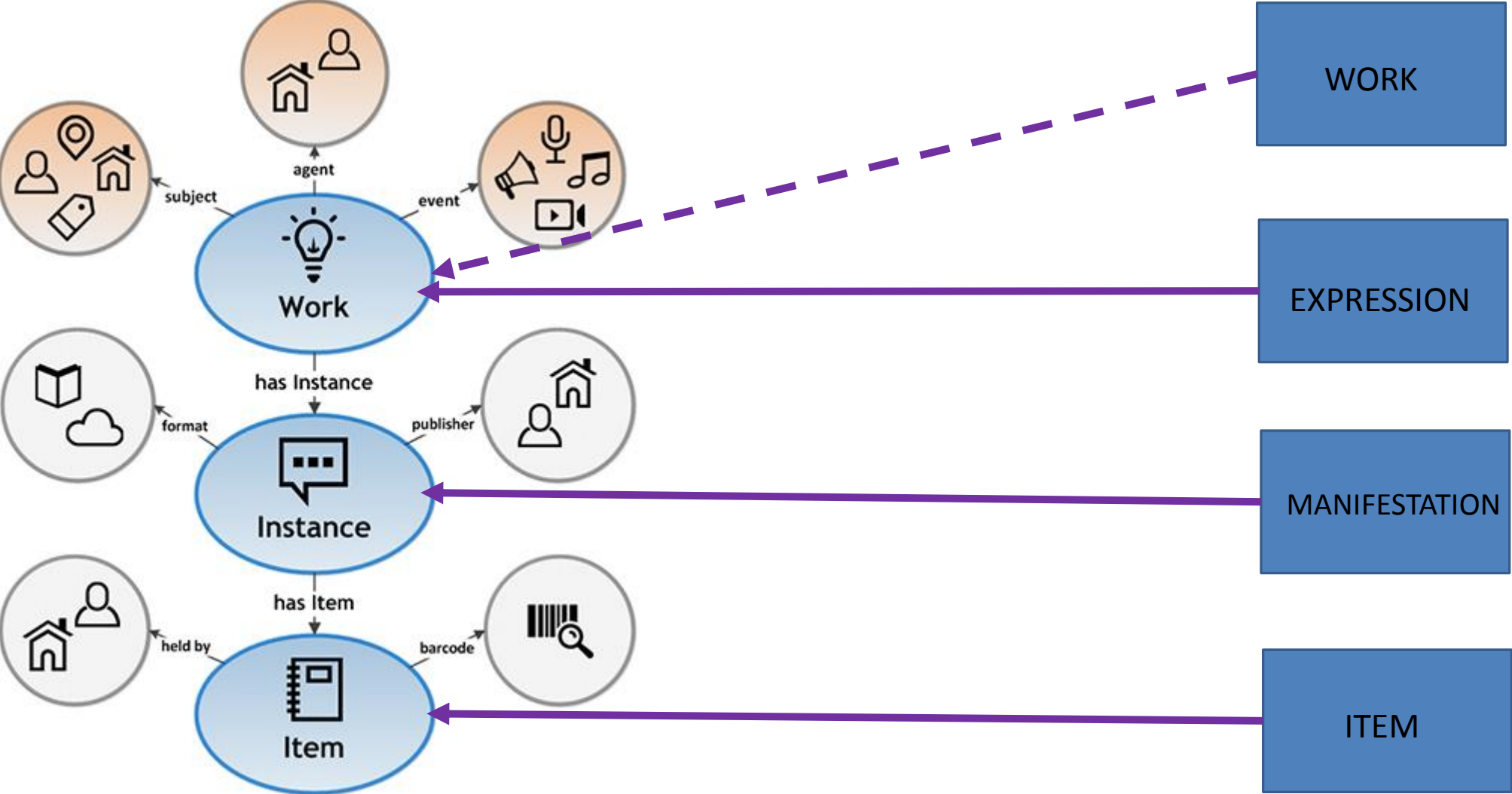
Tradition of collaborative cataloging

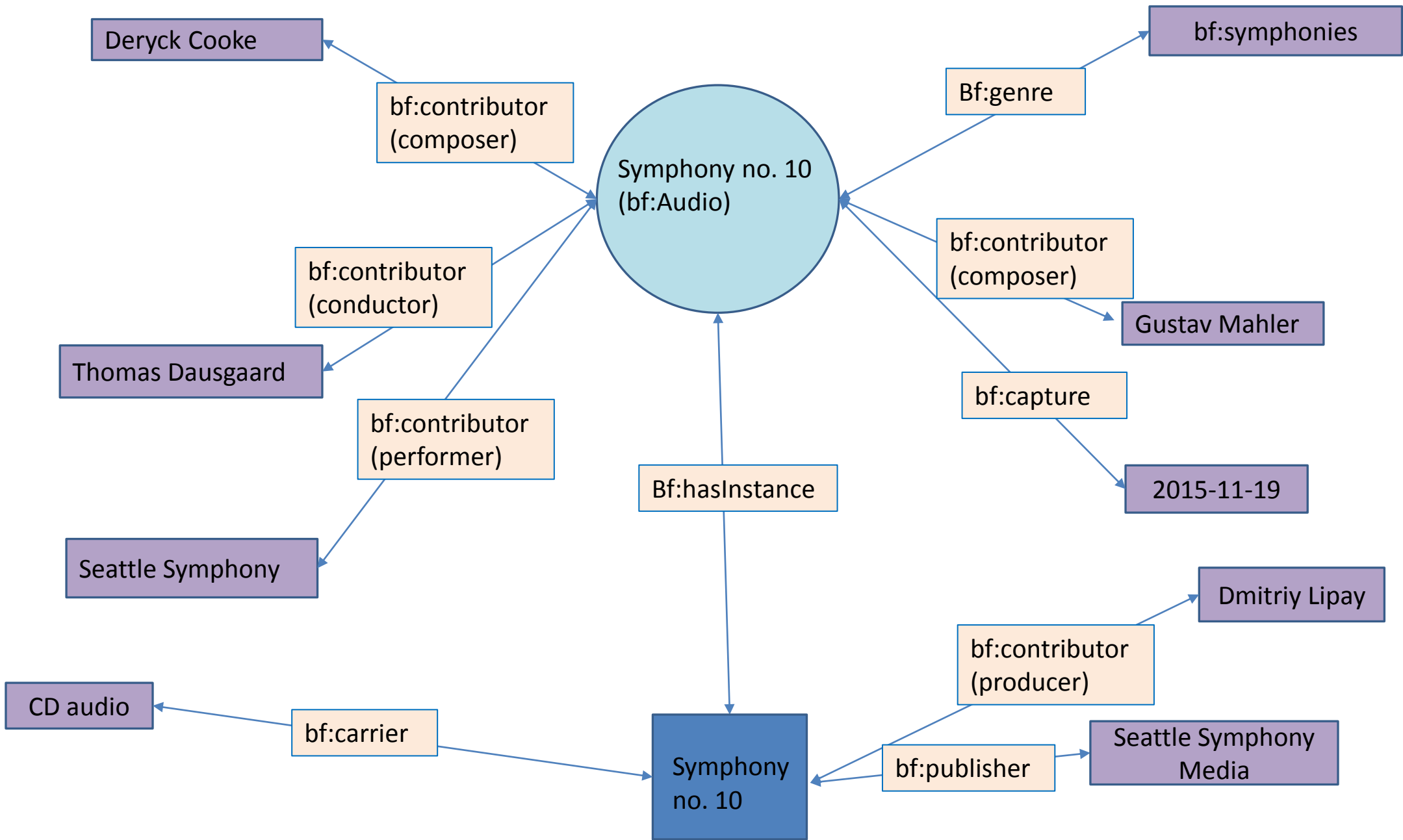
- Need to share at least a core ontology to ease sharing of data among libraries

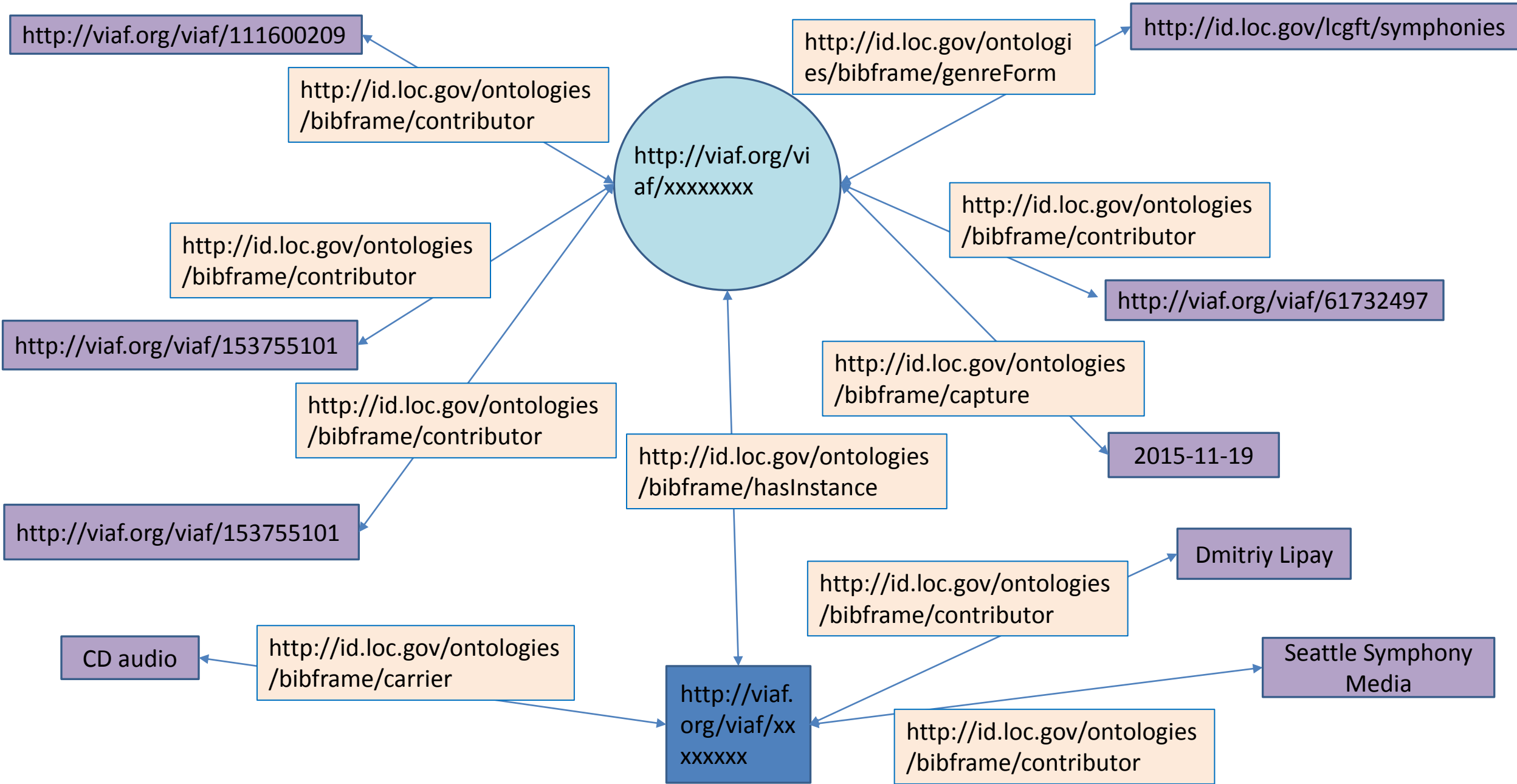
Linked Data for Performed Music (LD4PM)

- ❖ Develop a BIBFRAME-based ontology for performed music
 - ❖ Domain-specific enhancements and/or extensions for use by the library community as a common standard
 - ❖ Establish a model by which these standards can be created, endorsed, and maintained by the community
- ❖ Do this by partnering with domain communities and the PCC (Program for Cooperative Cataloging)

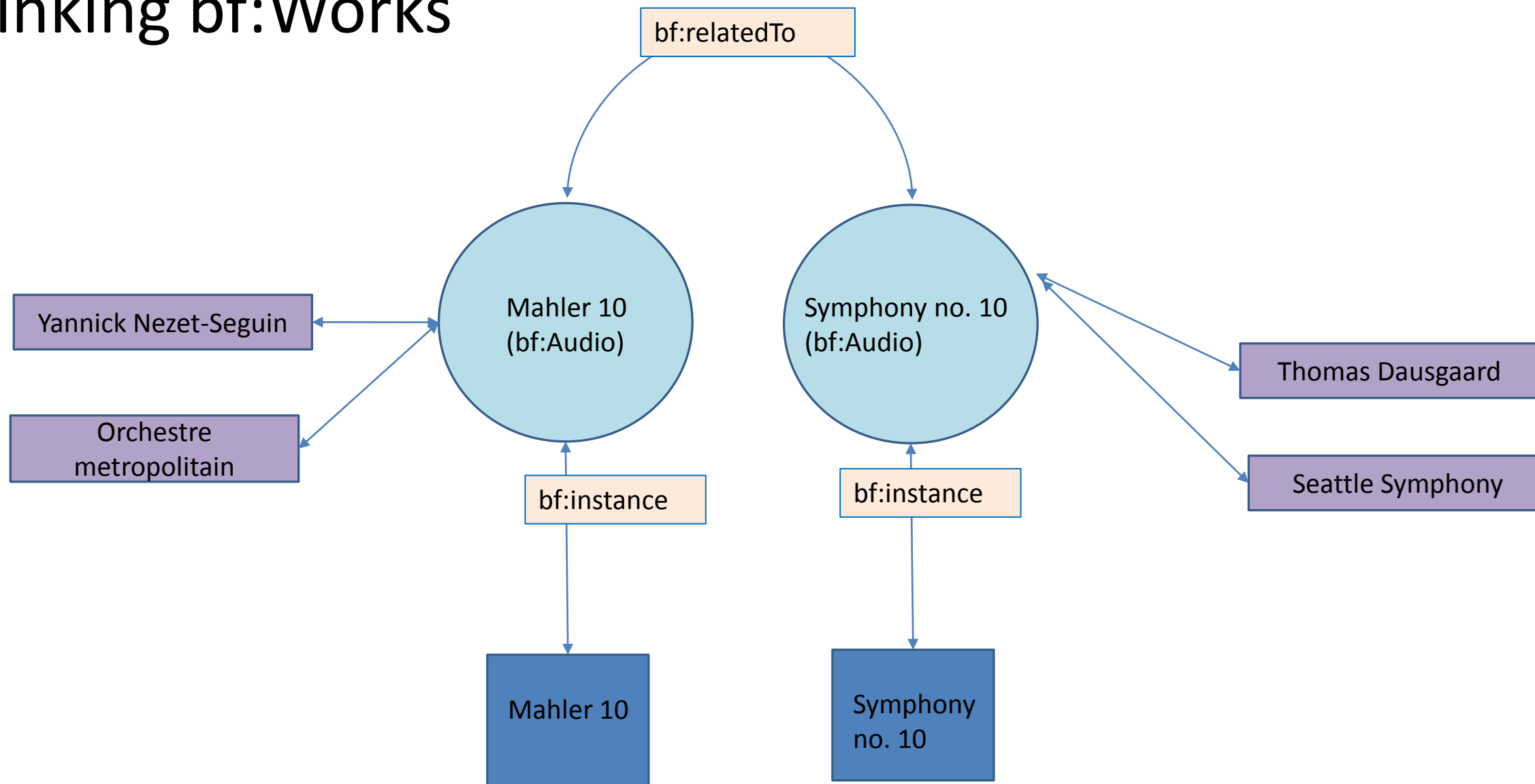
BIBFRAME 2.0 model



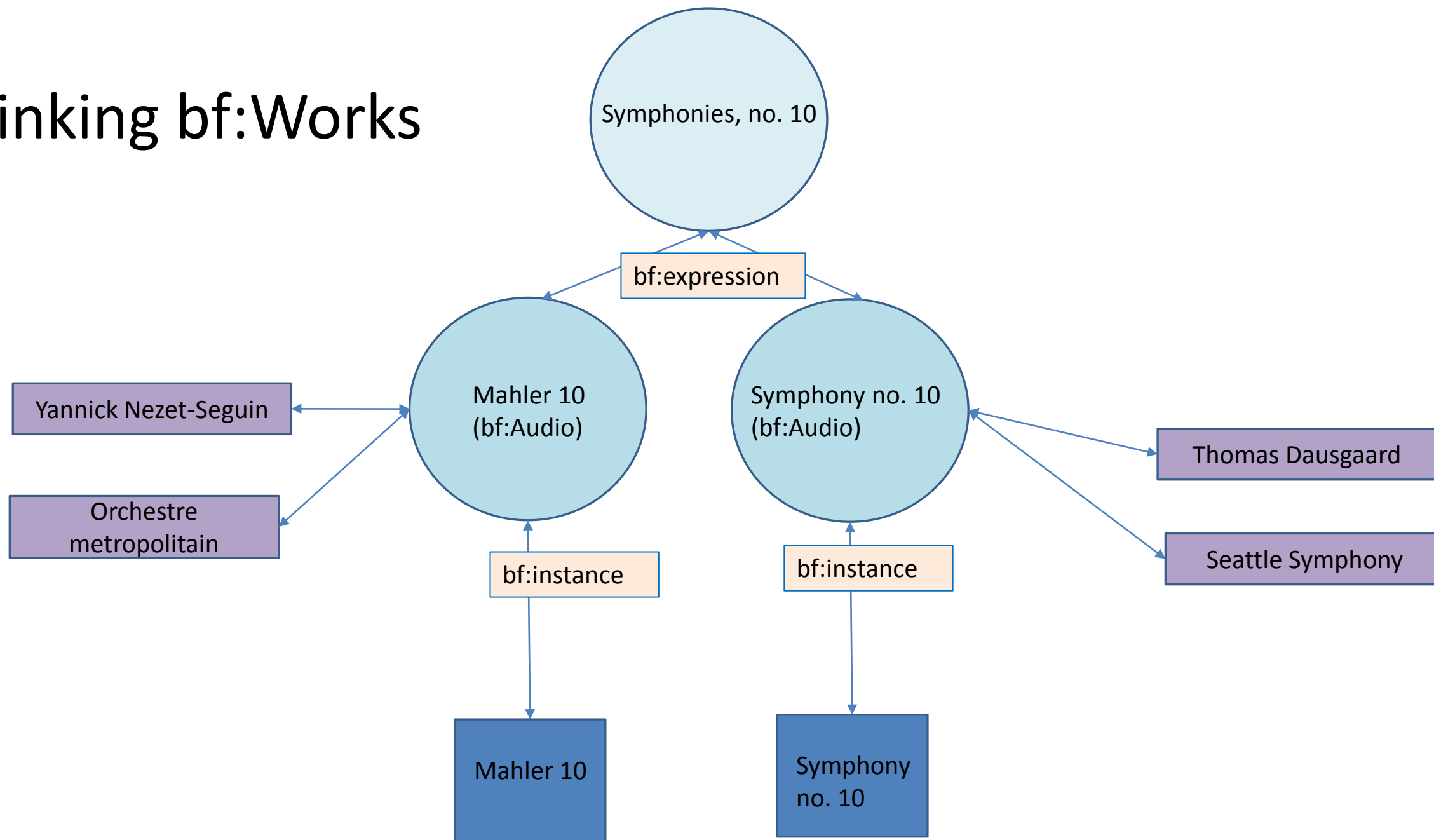




Linking bf:Works



Linking bf:Works

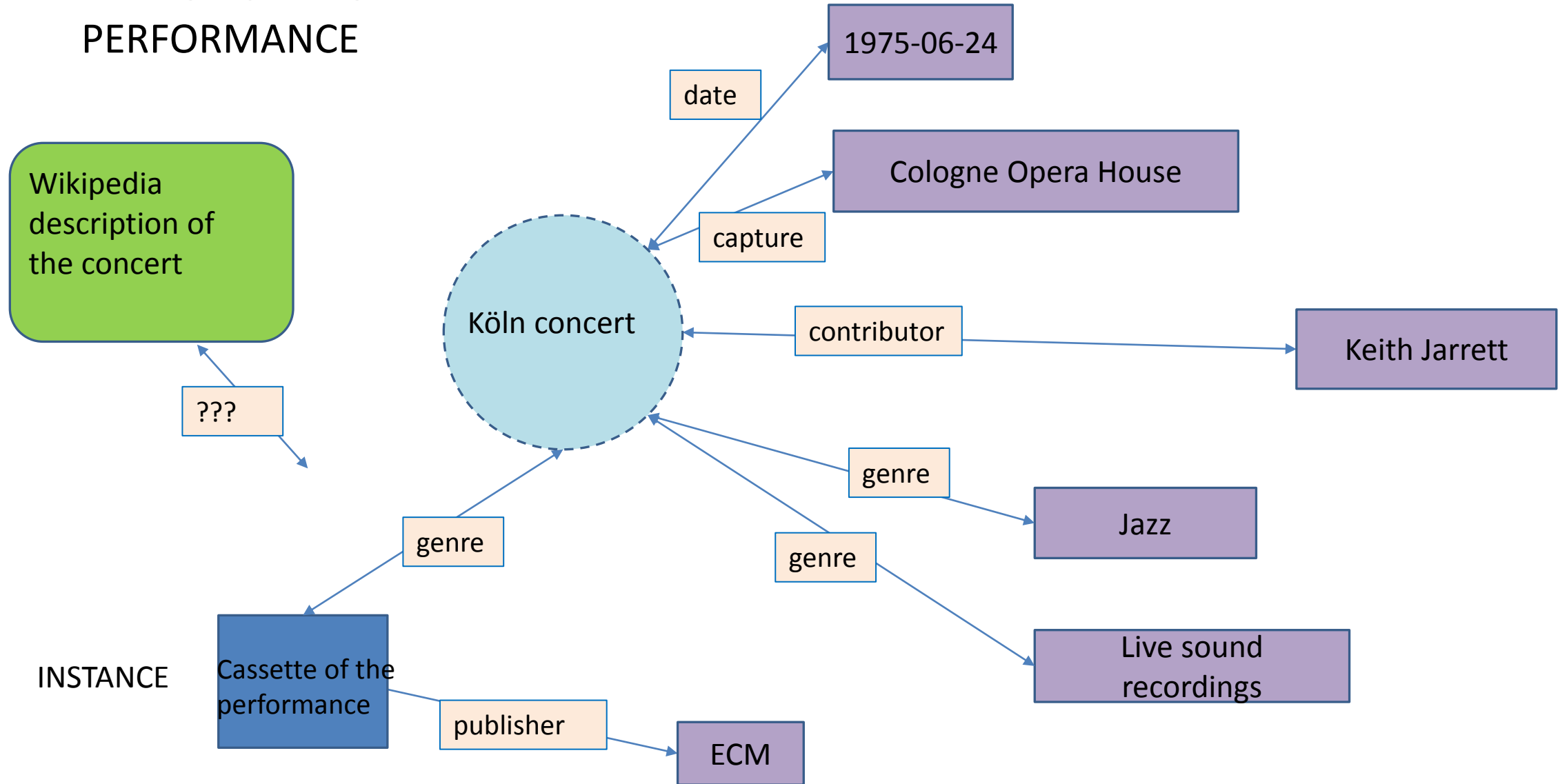


Keith Jarrett—Köln concert

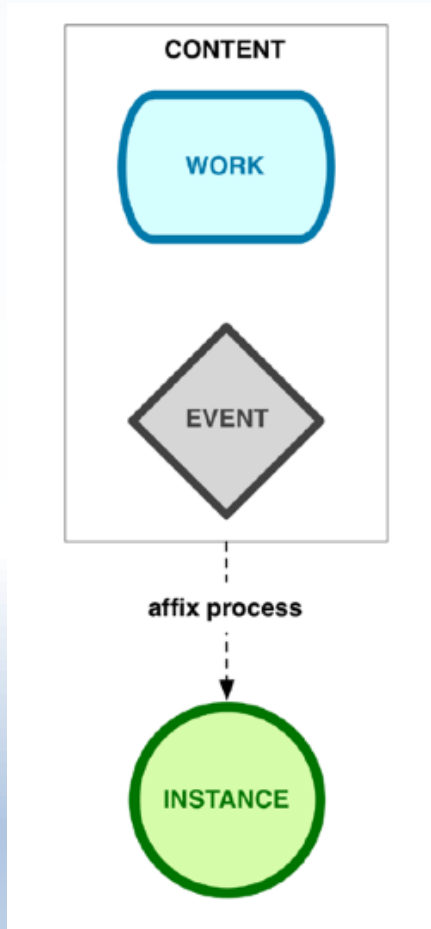


100	1		Jarrett, Keith.
245	1	4	The Köln concert #h [sound recording] / #c Keith Jarrett.
260			München : #b ECM, #c p1975.
300			1 sound cassette (68 min.) : #b analog, Dolby processed.
306			006733
511	0		Piano music in jazz idiom, performed by the composer.
518			"Recorded live at the Opera in Köln, Germany, January 24, 1975."
500			Durations on insert.
650	0		Piano music (Jazz)
650	7		Piano music (Jazz) #2 fast #0 (OCoLC)fst01063433

IMPROVISED CONCERT PERFORMANCE



Event in LC A-V modeling study

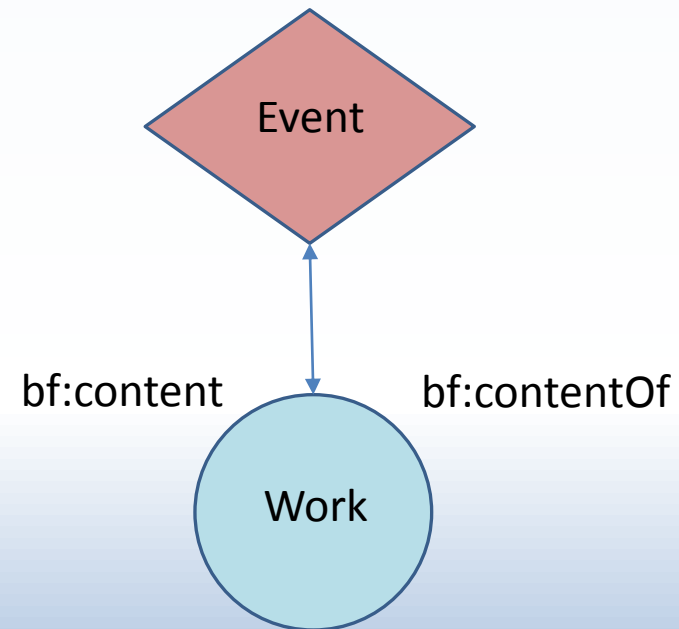


Event in BIBFRAME 2.0

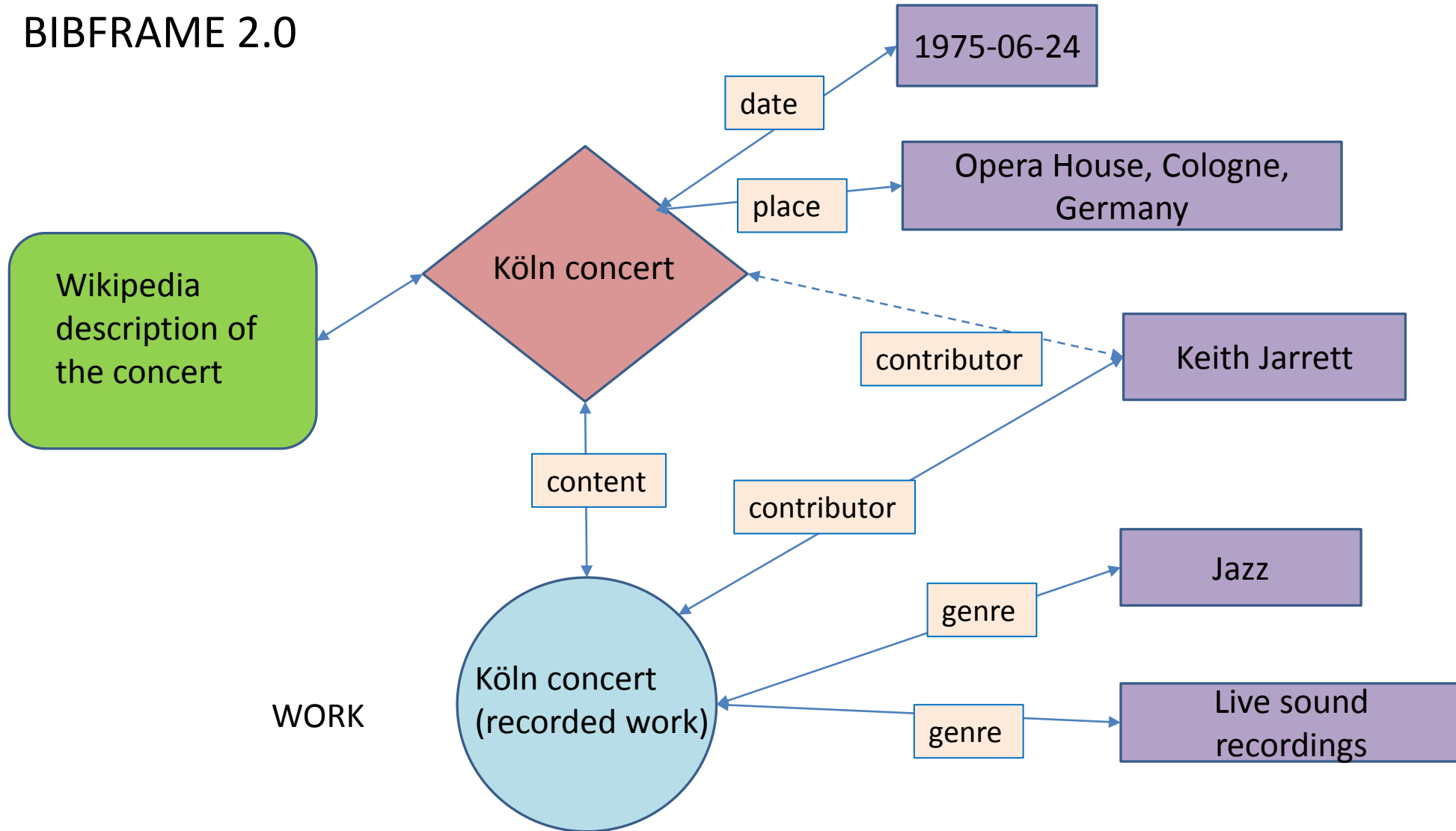
LC MODELING STUDY

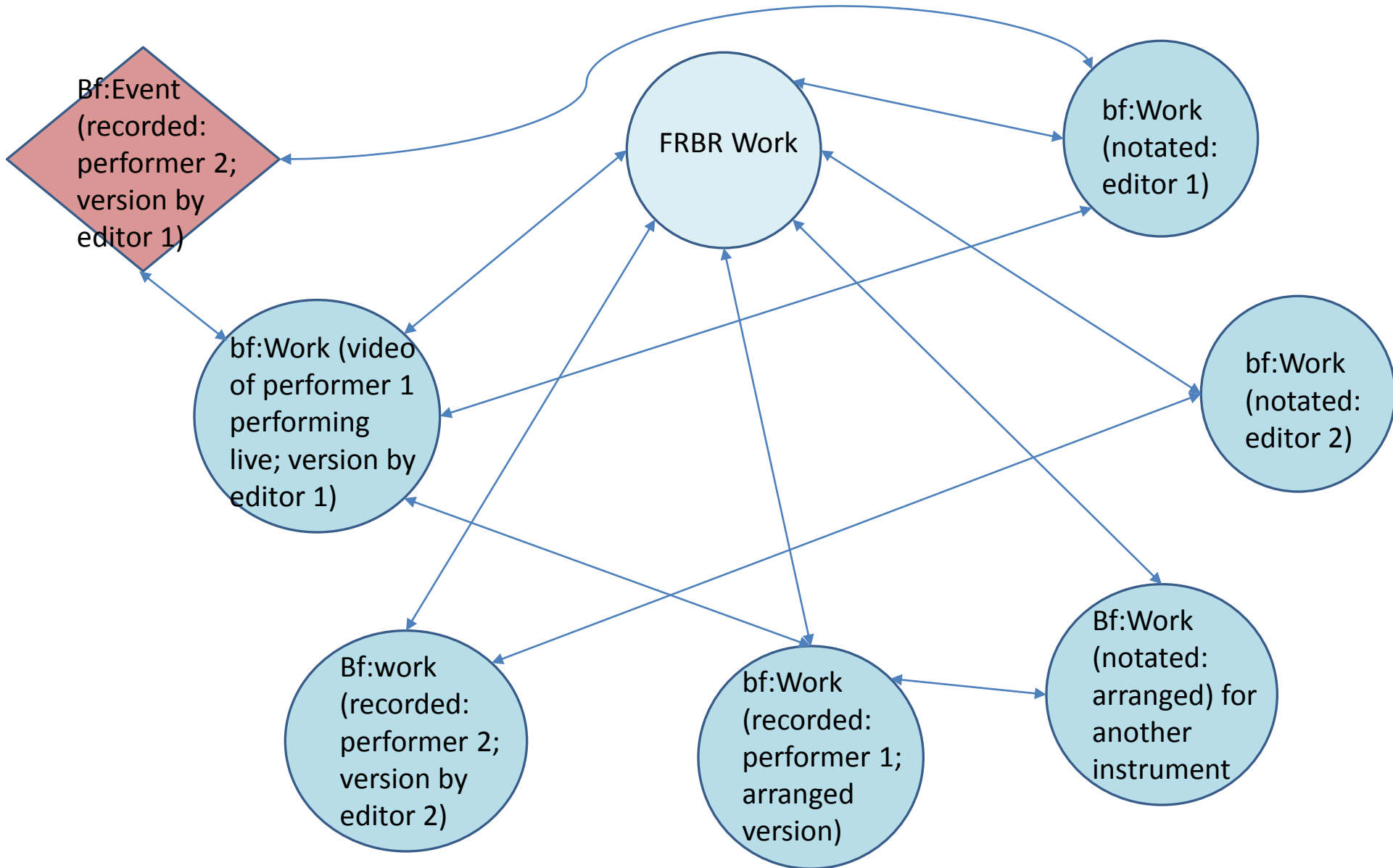


BIBFRAME 2.0



EVENT AS WORK IN BIBFRAME 2.0





Thank you!

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