

Expressions and Aggregates in BIBFRAME

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BIBFRAME Workshop in Europe 2024

Linked Library Data Project in the National Library of Finland

- Preparing the adoption of linked data for bibliographic cataloguing for the National Library and in part for the whole Finnish library sector
 - BIBFRAME data model
 - Deep integration with RDA
- 2022-2024
- Main outputs
 - Bibliographic data model
 - Including conversions to and from
 - Agent data model
 - Additions to our Metadata Thesaurus

Adapting BIBFRAME

- Adapting BIBFRAME to our data and cataloguing conventions
 - Adopting official RDA in 2025
 - Extensive use of aggregates
 - Especially with music
 - Extensive use of our Finnish Metadata Thesaurus
 - Some miscellaneous additions
 - E.g. age restrictions
- Latest version of the BFFI data model can be found here
 - <https://schema.finto.fi/bffi/>

Metadata Thesaurus (aka Metadata Registry)

- A controlled vocabulary of values for use in cataloguing
 - Includes many of the RDA value vocabularies (including some national additions)
- Published in the Finto Thesaurus and Ontology Service
 - <https://finto.fi/mts/en/>
 - In Finnish and Swedish, partly in English
- URIs as opposed to strings
- Will be developed further to help with BIBFRAME-based cataloguing

Metatietosanasto

Content language English

Search

A-Z Hierarchy Groups **New**

- Corporate body
- Expression**
- Awards
- Colour content
- Content type**
- cartographic dataset
- cartographic image
- cartographic moving image
- cartographic tactile image
- cartographic tactile three-dimensional form
- cartographic three-dimensional form
- computer dataset
- computer program
- notated movement
- nuottikirjoitus
- performed movement**
- performed music
- sounds
- spoken word
- still image
- tactile image
- tactile notated movement
- tactile notated music
- tactile text

PREFERRED TERM

performed movement

BELONGS TO GROUP

Content type
Expression
RDA-käsitteet (fi)

IN OTHER LANGUAGES

esitetty liike Finnish

URI

<http://urn.fi/URN:NBN:fi:au:mts:m5102>

DOWNLOAD THIS CONCEPT:

RDF/XML TURTLE JSON-LD Created 3/14/24, last modified 3/14/24

EXACTLY MATCHING
CONCEPTS

RDA Vocabularies rdaregistry.info

What do we do when BIBFRAME and RDA differ?

- We mostly adhere to RDA
 - Going with WEMI
 - Splitting some BIBFRAME properties in accordance with RDA
 - e.g. BIBFRAME issuance to "mode of issuance" and "extension plan"
 - Adding some new properties
 - e.g. variant access point
 - Also using existing additions from BFLC
- Some exceptions
 - No nomens
 - Use of AdminMetadata

BIBFRAME and RDA

- Arguably the biggest differences
 - Works and expressions instead of just works
 - Aggregates



From Work to Work and Expression

- BIBFRAME works are essentially expressions
- To add in RDA works we just isolate some of the bf:Work properties and subclasses for bffi:Work and leave some for the bffi:Expression

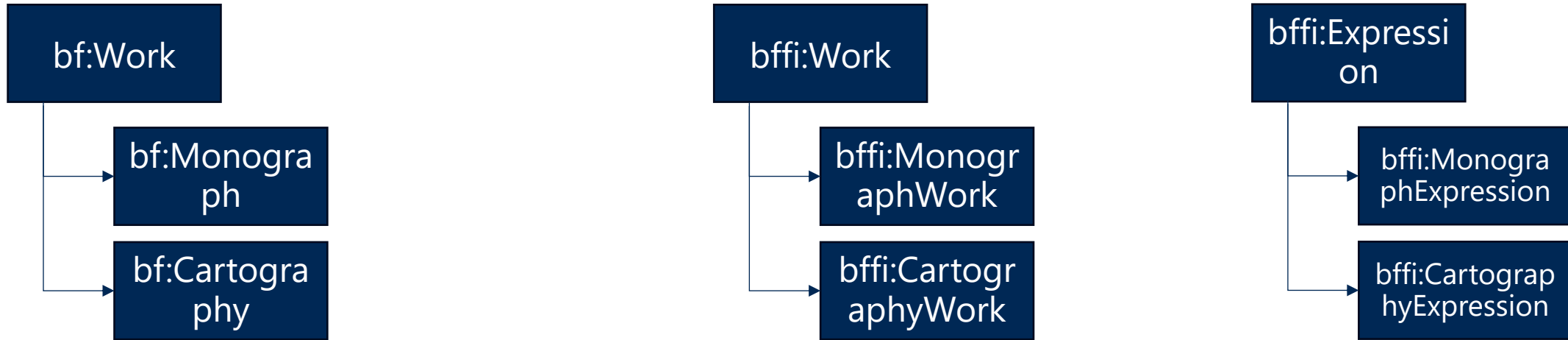
bf:Work -> bffi:Work and bffi:Expression

bf:Work

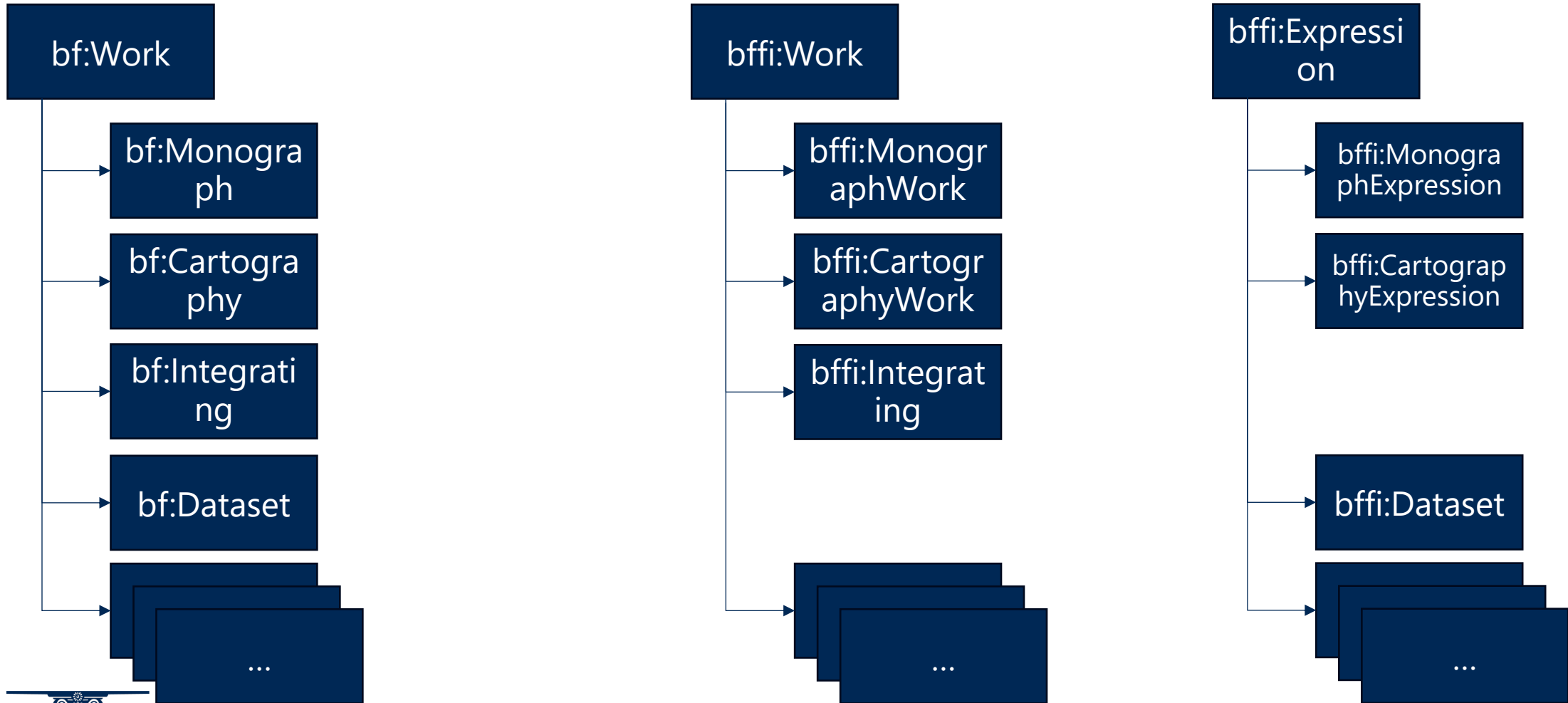
bffi:Work

bffi:Expressi
on

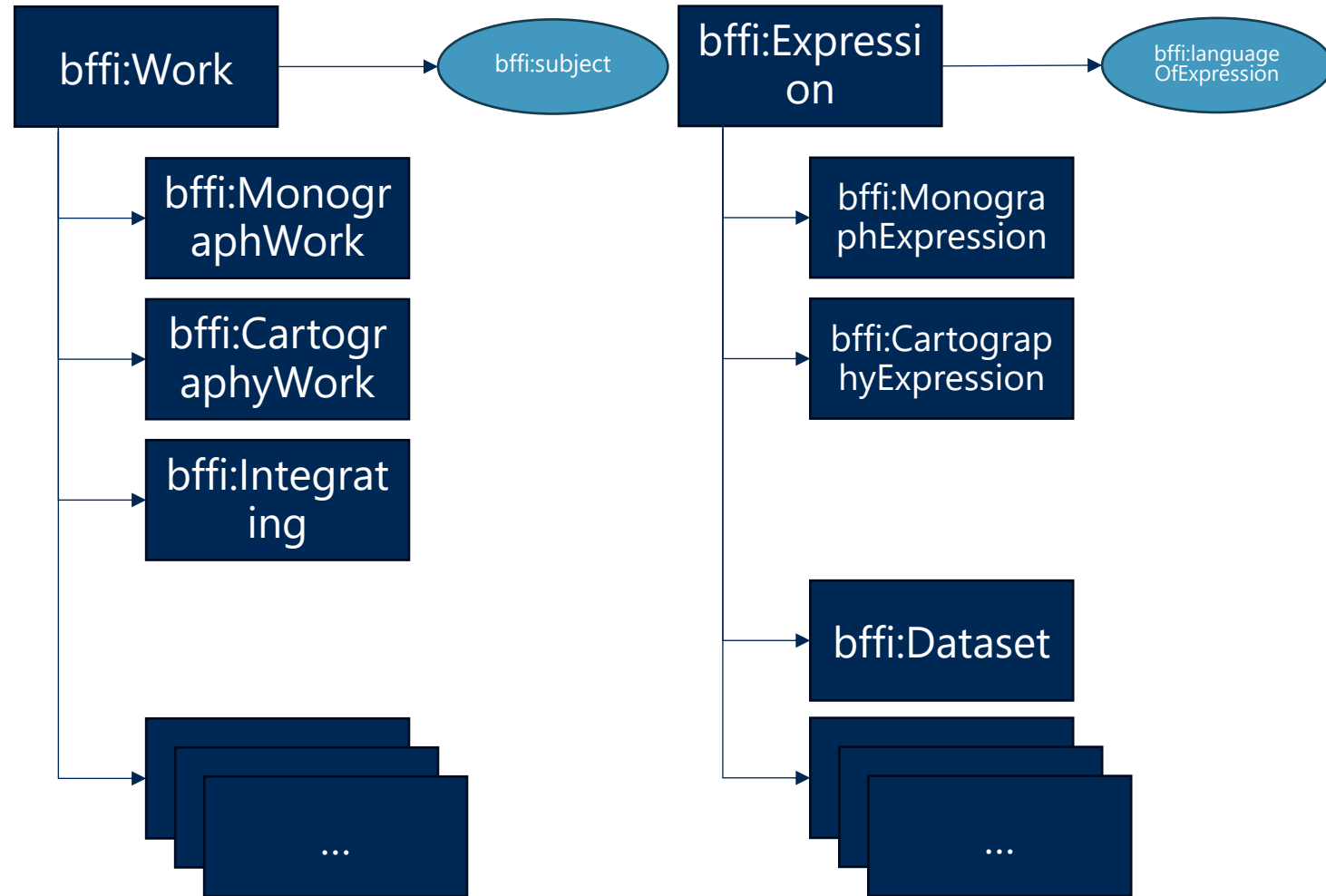
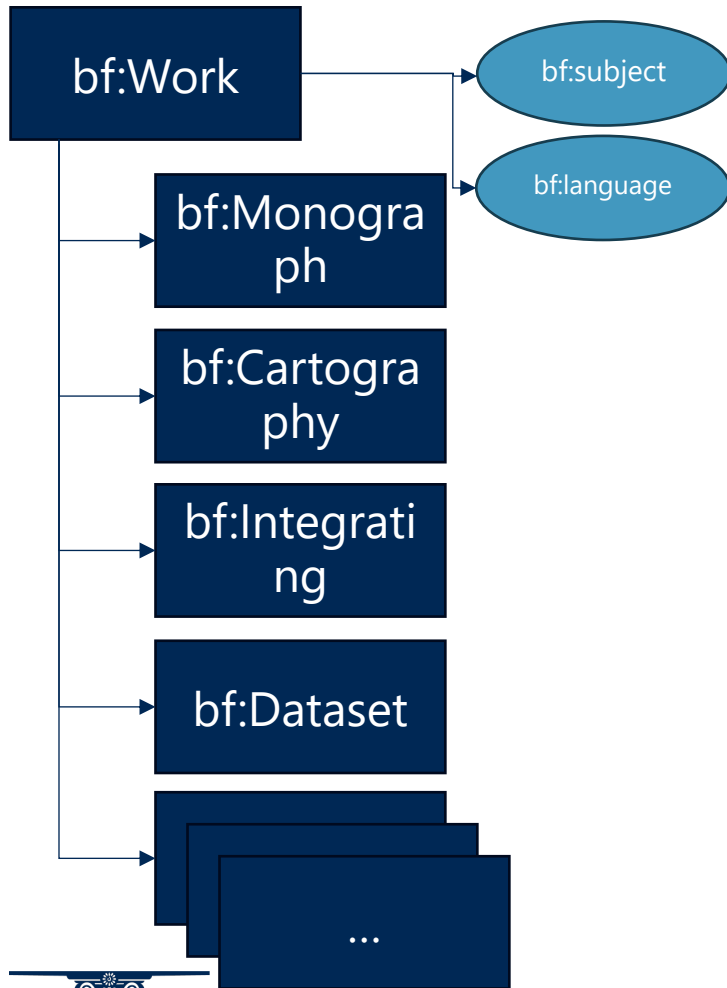
bf:Work -> bffi:Work and bffi:Expression



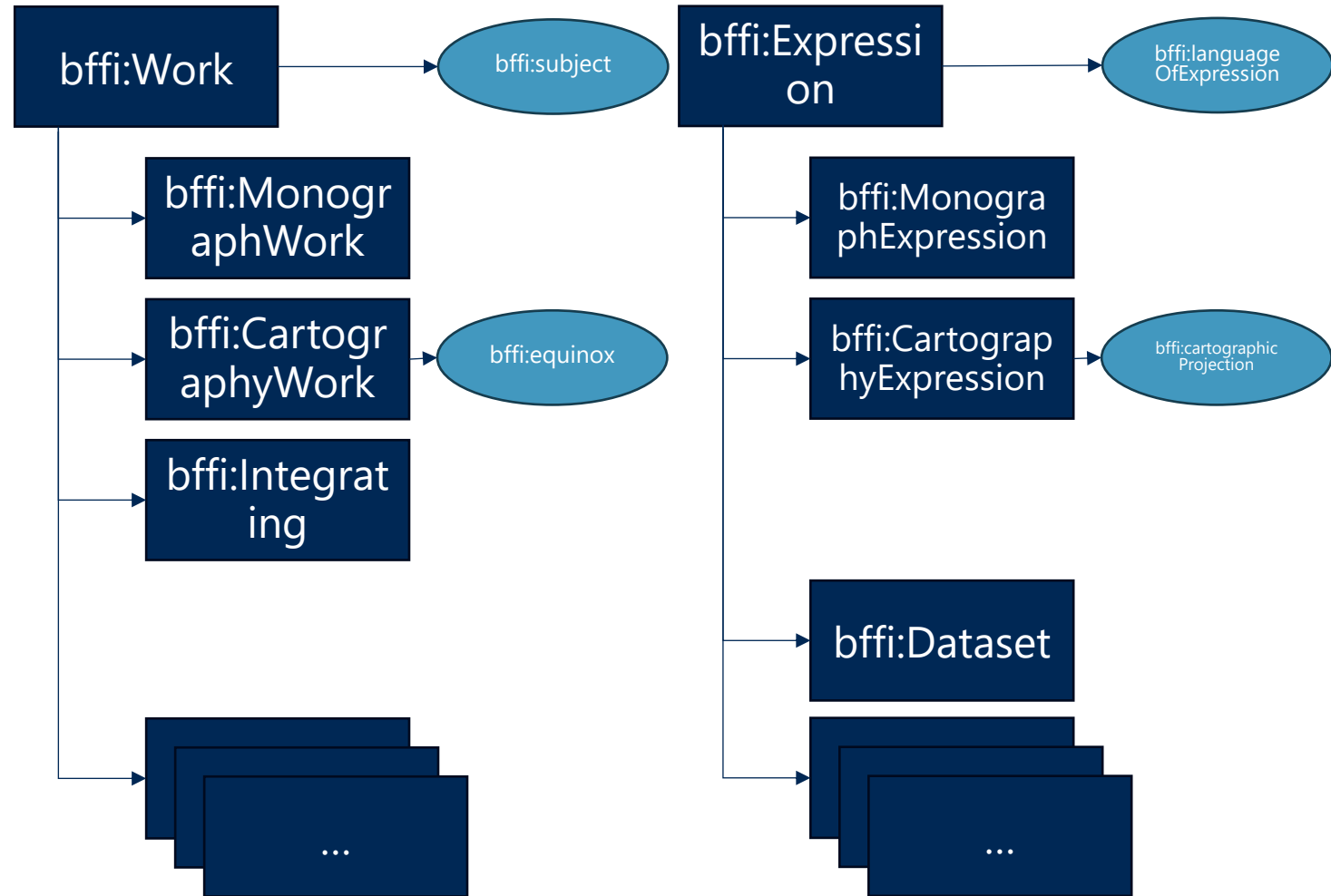
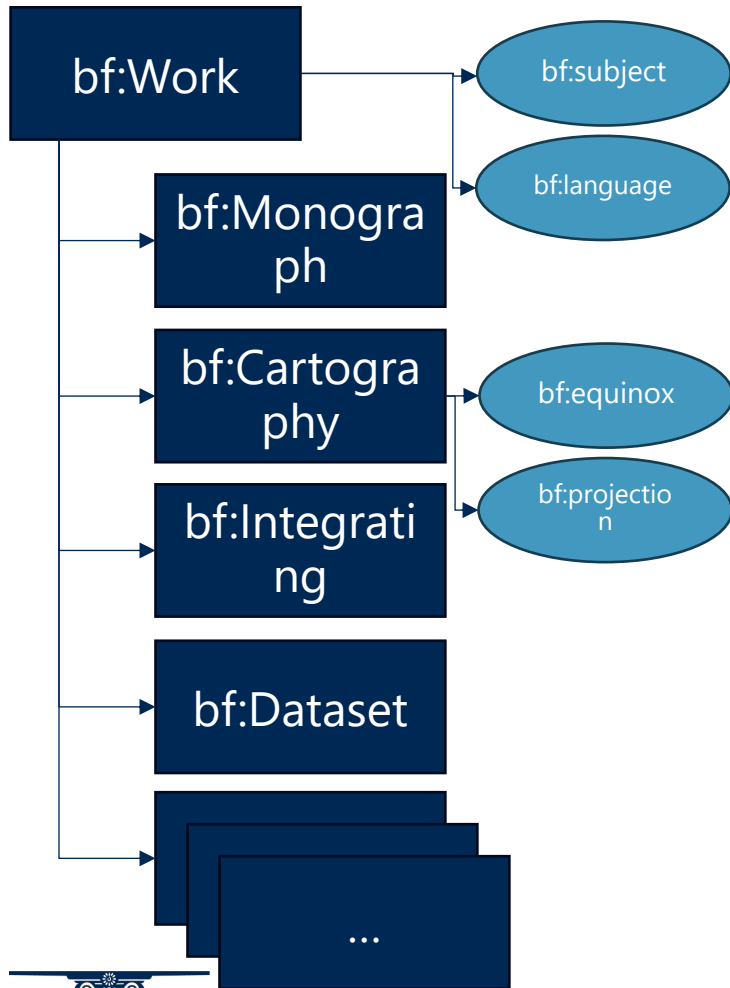
bf:Work -> bffi:Work and bffi:Expression



bf:Work -> bffi:Work and bffi:Expression



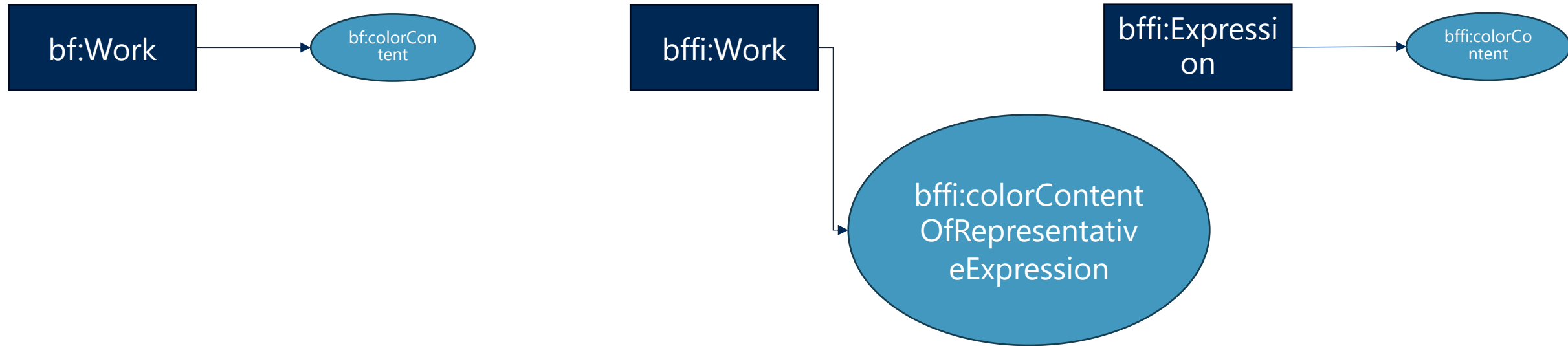
bf:Work -> bffi:Work and bffi:Expression



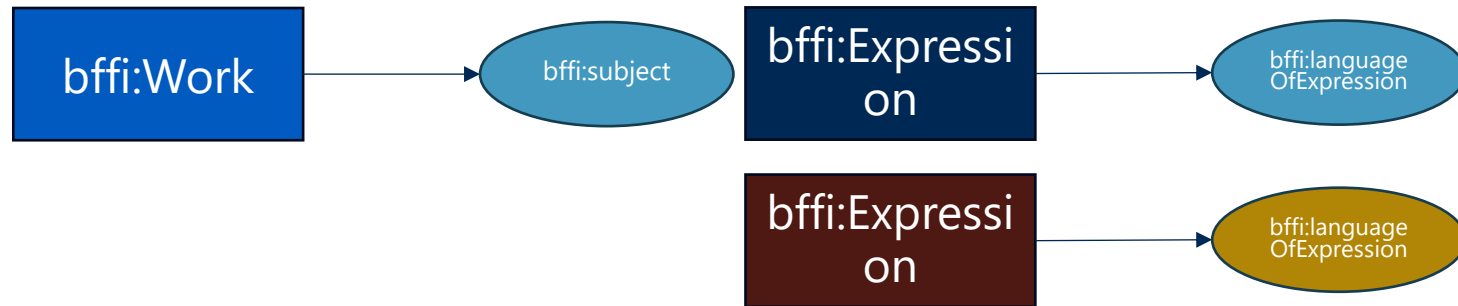
bf:Work -> bffi:Work and bffi:Expression



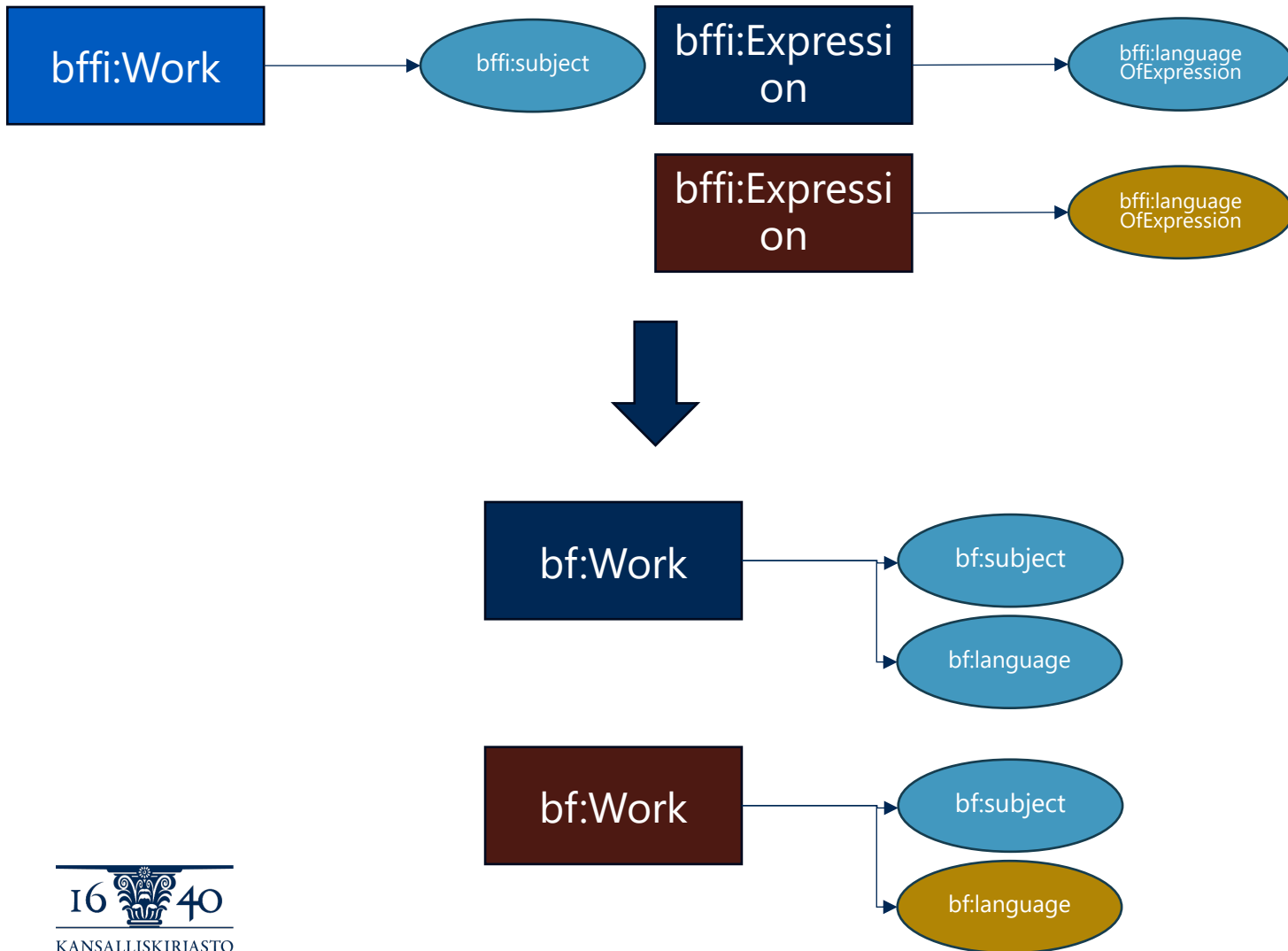
bf:Work -> bffi:Work and bffi:Expression



Do we break interoperability?



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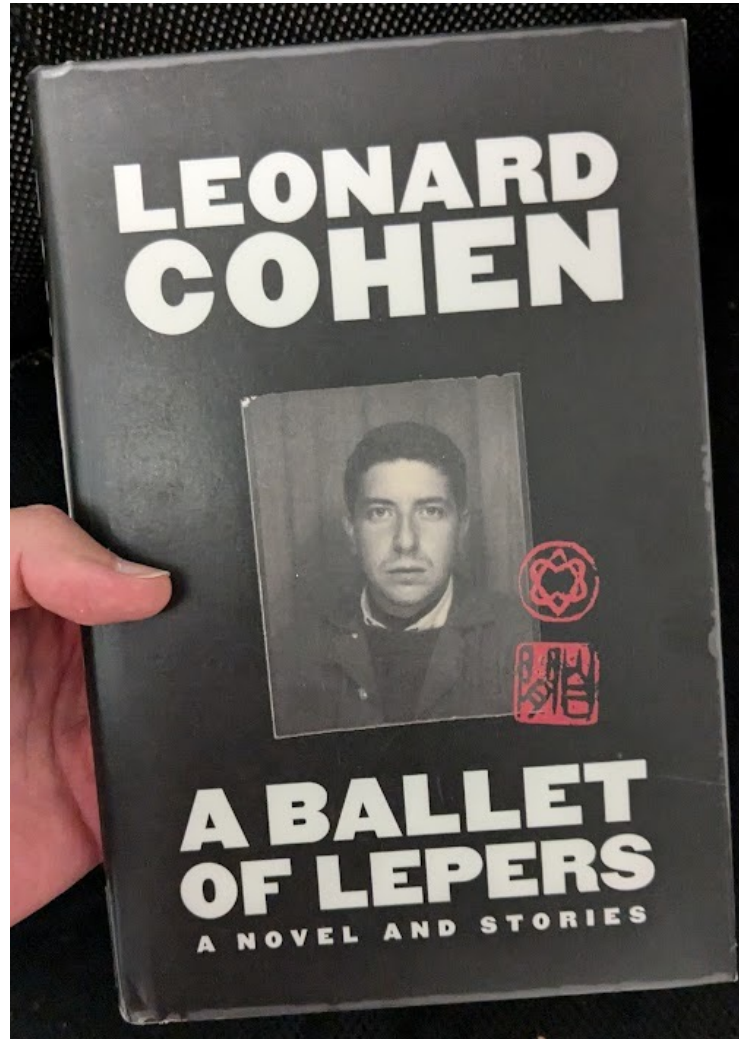


Aggregates

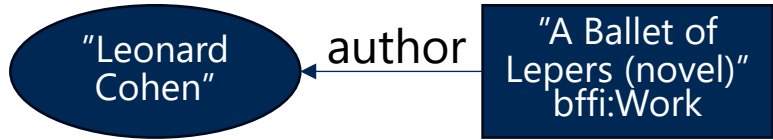
- An aggregate in RDA is a manifestation that embodies multiple expressions, for example
 - A monograph with supporting content such as illustrations or an index
 - A monograph with multiple short stories by different authors
 - A series of publications
- Aggregating work is the plan to arrange several expressions of one or more works and embody them in a single manifestation
- Aggregating expression is the realization of the aggregating work
- Finally, you also have the individual works and expressions that are aggregated

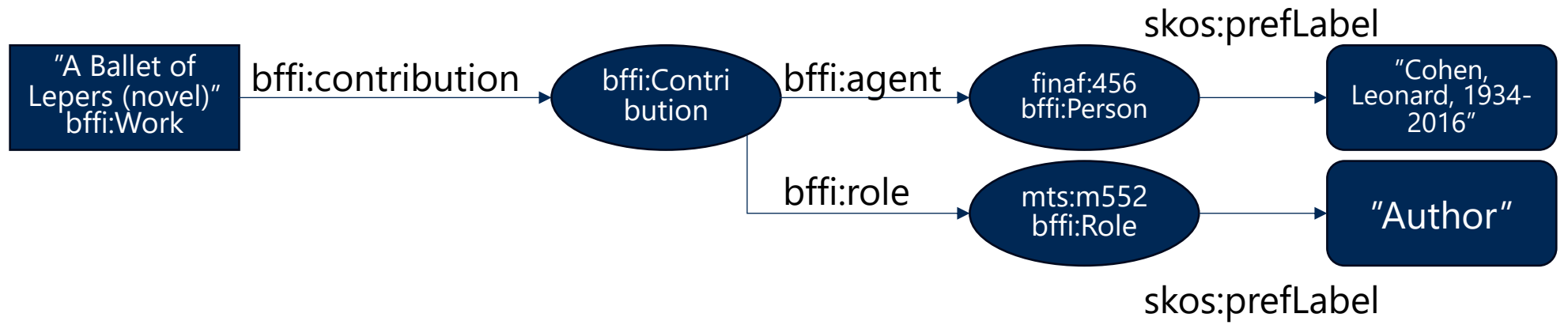
Aggregates in BIBFRAME

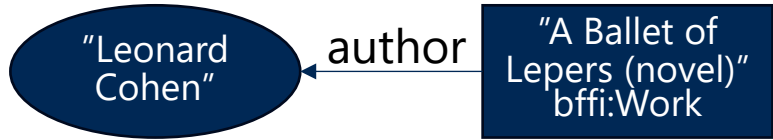
- Quite a straightforward implementation!
 - Two new classes required for the aggregating work and aggregating expression
 - New aggregating relations between the aggregating expression and the individual expressions
 - A new role for a contributor (aggregator agent)

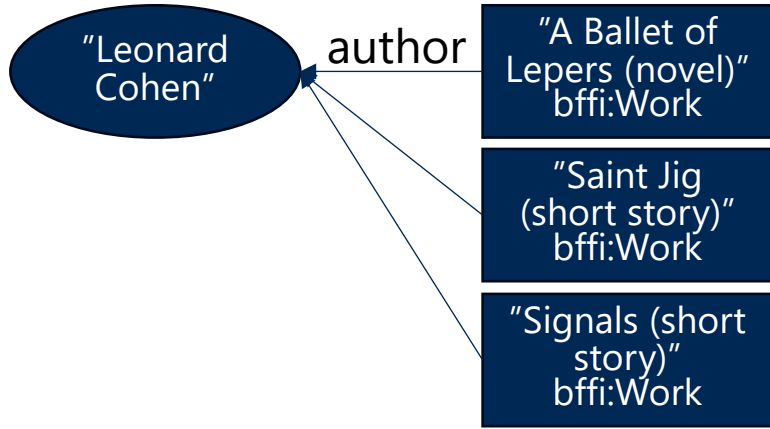


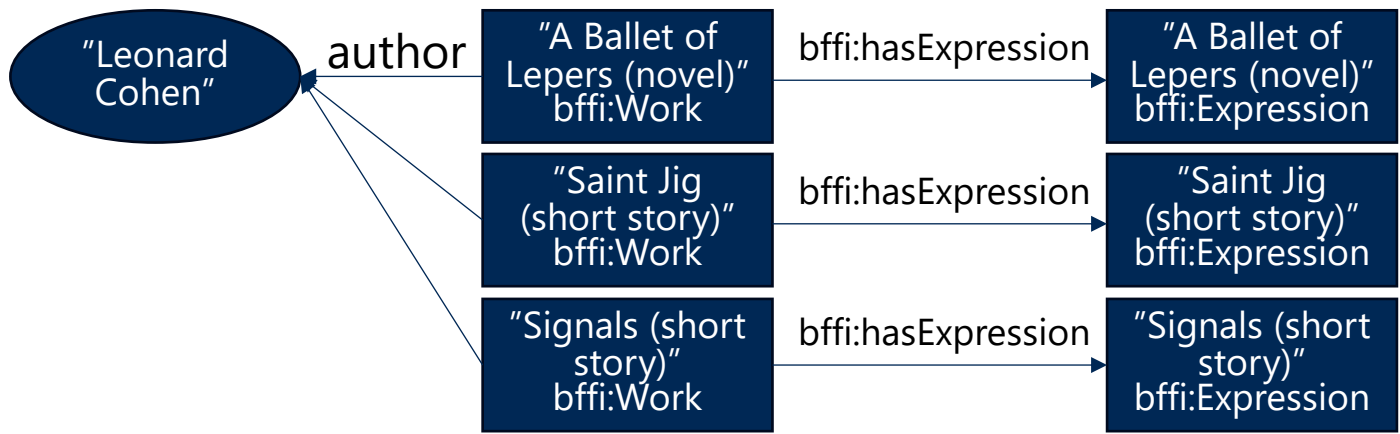
"A Ballet of Lepers,
a novel and
stories"
bffi:Manifestation



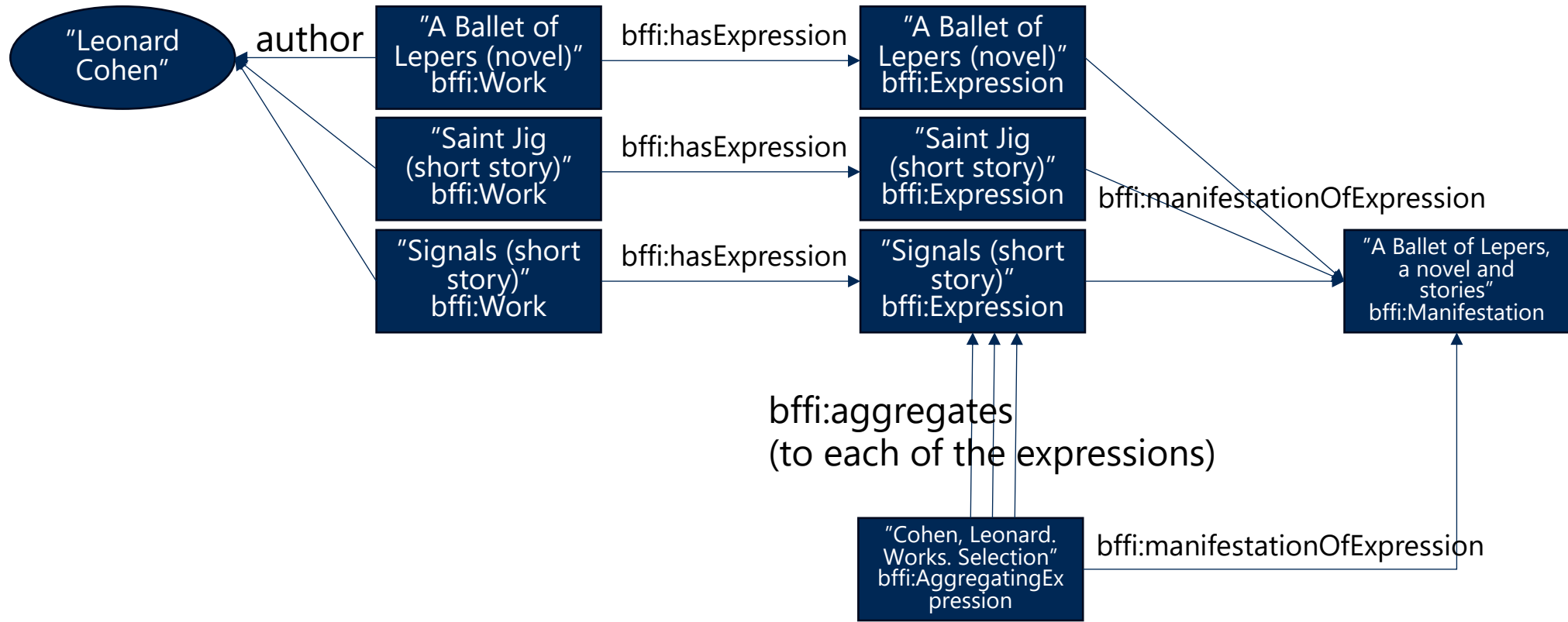


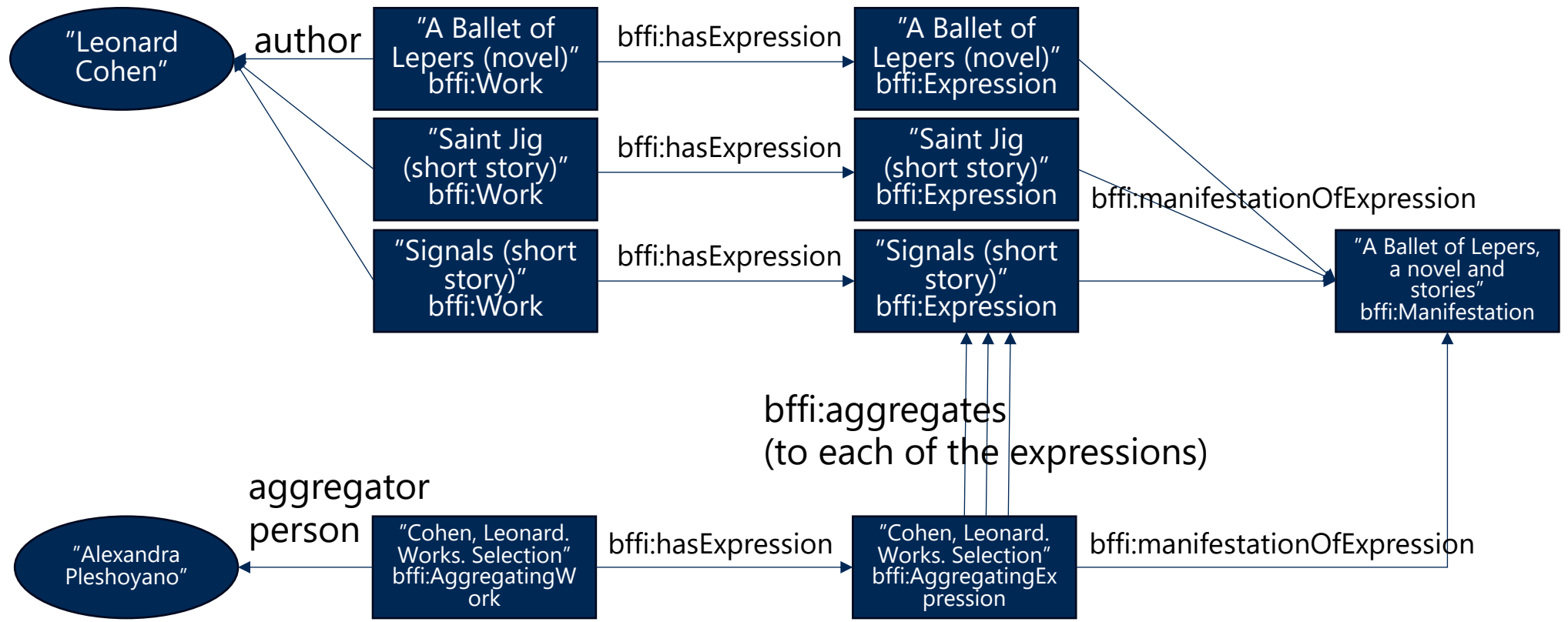










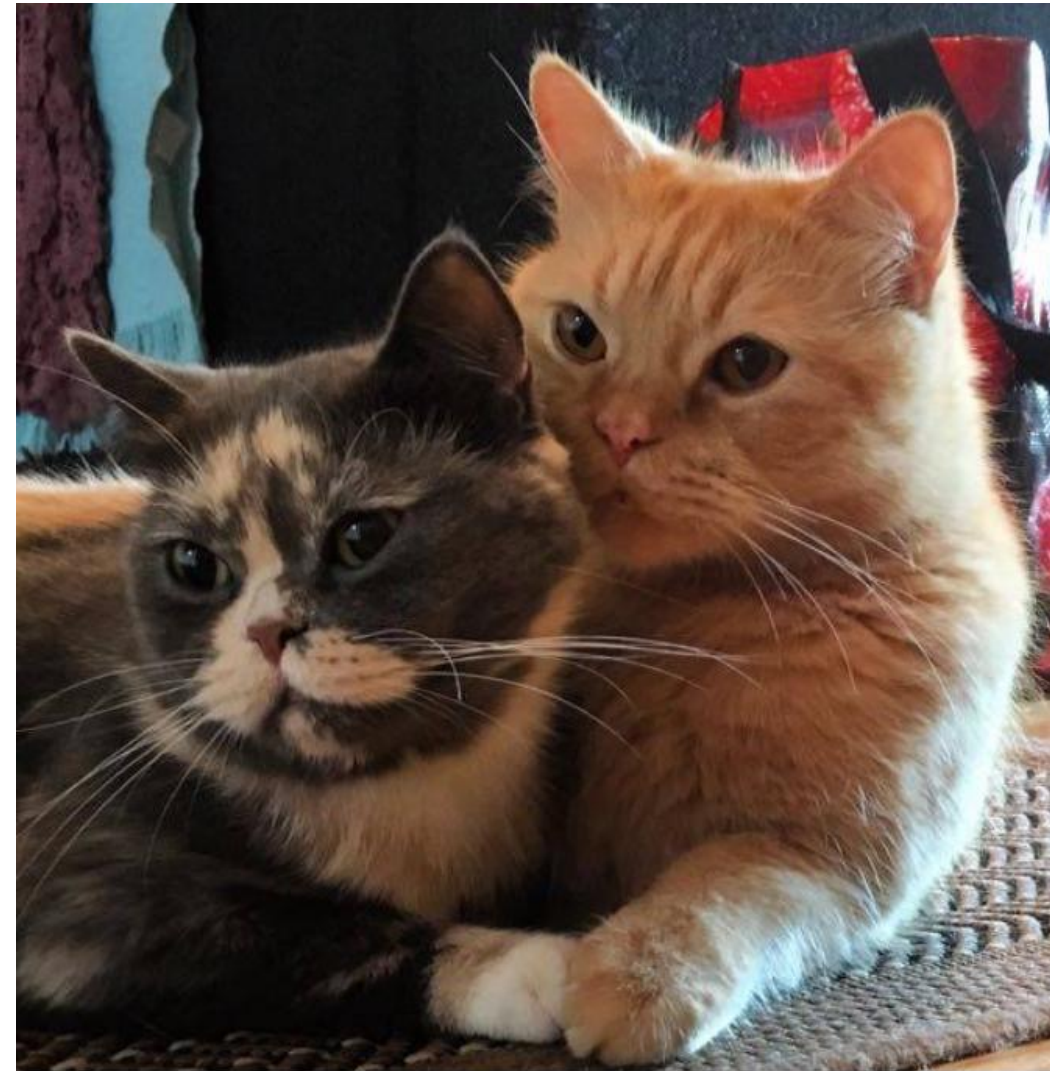


Could this be done without the separation of works and expressions?

- Yes.

To summarize

- Implementing RDA structures need not be too complex in BIBFRAME
- Compatibility back to "regular" BIBFRAME is easy to do
- Conversions from "regular" BIBFRAME to a more fine-grained one are more demanding





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