

# Relationship Elements

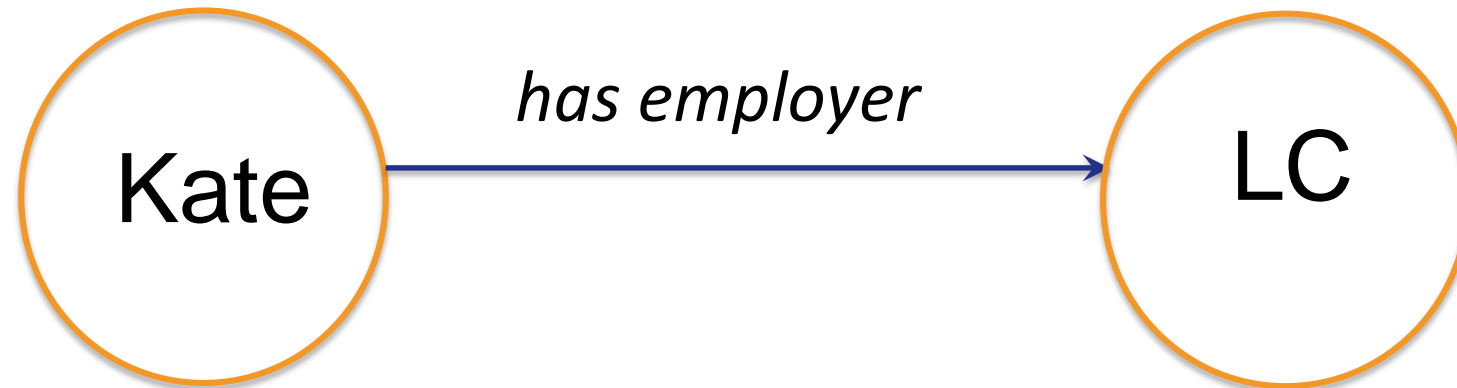
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# Relationships in General

- Connect two things
  - Kate has employer LC
- Are inherently reciprocal
  - LC has employee Kate
- Help identify one thing by defining its relationship to another
  - Kate that has employer LC not Kate that has employer NBC

# Expressing Relationships

- Graph



- RDF triple

- Subject: Kate
- Predicate: *has employer*
- Object: LC

- RDA relationship element

- Kate *employer* LC

# Terminology

*(definitions based on new RDA)*

- **Entity:** an abstract class of a physical or conceptual thing in the universe of human discourse
- **Relationship element:** an element that relates two entities
- **Domain:** entity that that is described by an element
- **Range:** entity that is the value of a relationship element

# Characteristics of Relationship Elements

- Have a domain and a range entity
- Value recorded represents the range entity
- Sometimes multiple recording methods are available to record the value
- Have a corresponding inverse relationship element

# Domain and Range Examples

## Reference

- Related agent of work
  - Domain: Work
  - Range: Agent
- Related work of agent
  - Domain: Agent
  - Range: Work
- Place of birth
  - Domain: Person
  - Range: Place

## In Practice

- Related agent of work
  - Domain: Great expectations
  - Range: Charles Dickens
- Related work of agent
  - Domain: Charles Dickens
  - Range: Great expectations
- Place of birth
  - Domain: Charles Dickens
  - Range: Portsmouth, England

# Determining Domain and Range

- Consult the Element Reference box
- Range entity appears first in **RDA Glossary** definition but ...
- In **Registry** definition, the pattern is “relates a [domain entity] to a [glossary definition]”
  - and the Glossary definition contains range entity
- Use the verbalized labels

# Element Reference Box

- date of publication

Element Reference

IRI

<http://rdaregistry.info/Elements/m/P30011>

Domain

Manifestation

Range

Timespan

Alternate labels

has date of publication



# RDA Glossary Definition

In this definition the range entity is provided...

## director

An agent who is responsible for the general management and supervision of a filmed performance, a radio or television program, etc.

*Inverse:* director of

In this definition the “range” is given as the broader element so you must refer back to the broader element definition to determine the range entity ...

## film director

A director who is responsible for the general management and supervision of a filmed performance.

*Inverse:* film director of

# RDA Registry Definition

rdaa:P50029	"has founder"	"Relates a corporate body to a person who founded a body."
rdaa:P50030	"has member"	"Relates a corporate body to a person who is a member of a corporate body."
rdaa:P50031	"has place associated with corporate body"	"Relates a corporate body to a significant location associated with a corporate body."
rdaa:P50032	"has name of corporate body"	"Relates a corporate body to a word, character, or group of words and/or characters by which a corporate body is known."

**Domain** (blue box) points to "corporate body" in the first two definitions.

**Toolkit definition** (green box) points to the entire definition of rdaa:P50031.

**Range given in definition** (orange box) points to "person" in the definition of rdaa:P50030.

# Using the Verbalized Labels

- Available in Element Reference Box
- Available in the RDA Registry
- You might be able to make an understandable sentence!
  - *Work has preferred title of work* Nomen
    - *Work has preferred title of work* Hamlet
  - *Person has date of birth* Timespan
    - *Amy Tan has date of birth* 1952

At least “understandable” to catalogers...

# Alternate Labels

# Elements have Alternate Labels

- Verbalized labels from Registry are available
  - **Element:** adaptation of work
    - **Verbalized Label:** is adaptation of work
  - **Element:** adapted as work
    - **Verbalized Label:** is adapted as work
- Former labels are often available
  - **Element:** related place of corporate body
    - **Former Label:** place associated with corporate body
- Former labels are not automatically added—done if there is a significant change

# WEMI to Agent Entity Relationship Elements Breakout

# What????

- Agent has 4 entity sub-types
  - Person
  - Family
  - Corporate Body
  - Collective Agent
- Relationship elements applicable to each sub-type were defined at Agent level
  - Example: creator of work had range Agent
- Relationship elements applicable to each sub-type now defined for each sub-type
  - Example: creator person of work has range Person

# Why???: Find the Element

- *Last week:* I want to relate **Anne Rice** to **Interview with the Vampire**
  - I know **Anne Rice** is a Person
  - I looked in the Person relationship elements list
  - ... but *author of* was in the Agent list!
- *Now:* I want to relate **Anne Rice** to **Interview with the Vampire**
  - I know **Anne Rice** is a Person
  - I look in the Person relationship elements list
  - ... *author person of* is in the list!



# Why???: Technical Issues

- Difficult to create a script that instantiates the specific Collective Agent, etc. relationships for RIMMF4 input forms
  - Example: Without such a script Person input form does not contain *author of* element
- Need to resolve long-standing issue of translating relationship elements into languages that require male and female terms for Persons
- Supports future application profiles

# Yeah, but, ...

- Number of elements seems overwhelming!
  - *You don't have to use them all*
- Once policy statement becomes five
  - *Yes, but there are technical solutions to help*
- Where does it end???
  - *Hierarchy with agent sub-types is not the same as hierarchy with specific role*





# Relationship Designators Become Relationship Elements

# Designators in the Original TK

- In the original Toolkit, relationship designators seem to be a “refinement” of a relationship element, e.g., composer is a type of creator
- And yet, the relationship element chapters (chapters 19, 20, etc.) do not discuss them
- So what are they?


# “Designators” in the RDA Registry

- Creator is a relationship element
- Composer is a type of creator
- Therefore, composer is a relationship element

CURIE	Label	Definition	SubpropertyOf
 rdaw:P10053	"has composer"	"Relates a work to an agent responsible for creating a musical work." 	rdaw:P10065 "has creator"
Lexical Alias:	<a href="http://rdaregistry.info/Elements/w/composer.en">http://rdaregistry.info/Elements/w/composer.en</a>		
Domain:	rdac:C10001 "work"		

# Former “Designator” Elements in the New TK

- Equal status with any other element
- May be easier to find because not banished to an Appendix
  - Listed on entity page
  - Each has its own page
  - Each is in the Glossary



# Some Attributes Become Relationship Elements

# From Attribute to Relationship Element

- New entities Nomen and Timespan turned several attributes into relationship elements
  - title of work
  - date of birth
- Further development of Place entity turned some attributes into relationship elements
  - place of death
- Many elements renamed to include both entities
  - date associated with person = related timespan of person
  - place associated with corporate body = related place of corporate body



I hope you've found this presentation relatable!