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**
  - Kate
  - has employer
  - LC

- **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 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

[Diagram showing the relationship between IRI, Domain, Manifestation, Range, Timespan, and Alternate labels, with a note that 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

<table>
<thead>
<tr>
<th>RDAa: P50029</th>
<th>&quot;has founder&quot;</th>
<th>&quot;Relates a corporate body to a person who founded a body.&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDAa: P50030</td>
<td>&quot;has member&quot;</td>
<td>&quot;Relates a corporate body to a person who is a member of a corporate body.&quot;</td>
</tr>
<tr>
<td>RDAa: P50031</td>
<td>&quot;has place associated with corporate body&quot;</td>
<td>&quot;Relates a corporate body to a significant location associated with a corporate body.&quot;</td>
</tr>
<tr>
<td>RDAa: P50032</td>
<td>&quot;has name of corporate body&quot;</td>
<td>&quot;Relates a corporate body to a word, character, or group of words and/or characters by which a corporate body is known.&quot;</td>
</tr>
</tbody>
</table>

**Domain**
- "has founder"
- "has member"
- "has place associated with corporate body"
- "has name of corporate body"

**Range**
- "Relates a corporate body to a person who founded a body."
- "Relates a corporate body to a person who is a member of a corporate body."
- "Relates a corporate body to a significant location associated with a corporate body."
- "Relates a corporate body to a word, character, or group of words and/or characters by which a corporate body is known."

**Toolkit definition**
- "has founder"
- "has member"
- "has place associated with corporate body"
- "has name of corporate body"
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
    o **Verbalized Label**: is adaptation of work
  ▪ **Element**: adapted as work
    o **Verbalized Label**: is adapted as work

• Former labels are often available
  ▪ **Element**: related place of corporate body
    o **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

<table>
<thead>
<tr>
<th>CURIE</th>
<th>Label</th>
<th>Definition</th>
<th>SubpropertyOf</th>
</tr>
</thead>
<tbody>
<tr>
<td>rdaw:P10053</td>
<td>&quot;has composer&quot;</td>
<td>&quot;Relates a work to an agent responsible for creating a musical work.&quot;</td>
<td>rdaw:P10065 &quot;has creator&quot;</td>
</tr>
</tbody>
</table>

Lexical Alias: [http://rdaregistry.info/Elements/w/composer.en](http://rdaregistry.info/Elements/w/composer.en)

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!