The FRBR ontology

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FRBR Group 1 ontology

- Work
  - Expression
    - Manifestation
    - Item
      - Mutually disjoint

1 and only 1

At least 1

1 and only 1
Bibliographic complexity: Bladerunner (from Europeana Data Model)

The complete picture under EDM?
Bibliographic complexity: Pippi Longstocking (from Ron Murray/Barbara Tillett)
Ontology constraints ensure coherency of complex FRBR relationships

It keeps us together, like our shells

We are the WEMI stack; We are ttl graphs
Intended users of FRBR ontology

- **End-users!**
  - Find, Identify, Select, Obtain user tasks
  - Navigation through complex bibliographic relationships between multiple information resources
    - Complexity (mostly) concealed

- **Catalogue managers**
  - Reduces duplication of data within “the record”

- **Researchers**
  - Bibliography, Cultural history, Transmission of knowledge, etc.
RDA as a FRBR application

- RDA has its own local FRBR classes
  - Not yet related to FRBR element set
  - No OWL constraints declared
- RDA properties constrained by RDA/FRBR domain/range
- Unconstrained properties with no domain/range will be published as super-properties
- Development of AP(s) a goal of the “London” meeting in 2007
  - But RDA element set not yet “published”
  - And AP RDF representation ...
Unconstrained properties

Relationship between isbd:Resource and frbr:WEMI?
Discussion paper tabled at IFLA 2013
"Edinburgh : Scotsman Books, 2013"

"Edinburgh"  "Scotsman Books"  "2013"
Application profile?

- No published RDF representation of DC AP!
- How does an AP assure better quality than OWL in an un-bounded universe?
- Is there any real difference between AP and OWL?
  - AP encodes “rules” outside of element set
  - OWL encodes within element set
  - Same requirements/rules for processing algorithms? (Isomorphic?)
Thank you!

The Bog of RDA

That’s all, folks!
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