Understanding FRBR
(Functional Requirements for Bibliographic Records)

Ksenija Obradovic and Paul Staincliffe

New trends in Cataloguing
CatSIG Seminar
National Library, 31 May 2004
Overview

- FRBR concept
- Applications
What is FRBR? (1)

- A conceptual model of the bibliographic universe, describing entities, their attributes and relationships
What is FRBR (2)

- Independent of cataloguing codes
- Does not replace MARC or AACR
- Not an application or implementation
- Not metadata

- *It’s a conceptual model*
How it all began

- 1987 Tillett’s PhD
- 1990 IFLA seminar
- 1996 Draft
- 1997 IFLA Section on Cataloguing approves FRBR model
- 2002- IFLA working Group
Entity-Relationship Model

- Entities
- Relationships
- Attributes

Entity 1 <-> relationship <-> Entity 2
Group 1 entities

- Products of intellectual or artistic endeavour
Hierarchy of Group 1 entities

- **Work** - a distinctive intellectual or artistic creation
- **Expression** - an intellectual or artistic realisation of work
- **Manifestation** - physical embodiment of the expression of a work
- **Item** - a single copy of a manifestation
Relationships between Group 1 entities

- **Work** is realised through one or more **Expressions**
- each of which is embodied in one or more **Manifestations**
- each of which is exemplified by one or more **Items**
Group 2 entities

- Those responsible for the intellectual & artistic content
- persons
- corporate bodies

Work now going on in the FRANAR Working Group
Group 3 entities

- Entities that serve as subjects of intellectual or artistic endeavour
  - Groups 1 and 2
  - Concept
  - Object
  - Event
  - Place
FRBR applications

- AustLit
- VisualCat (Denmark)
- OCLC’s Fiction Finder
- RLG’s Web union catalog plans
- Variations2 digital music project (Indiana University)
Australian Literature Gateway is a non-profit collaboration between eight Australian universities and the National Library of Australia.

More than 75,000 Australian authors and literary organisations.

FRBR model to organize, index, and display bibliographic elements of potential interest to users.
Goldsworthy, Peter  (a.k.a. Goldsworthy, Peter David)  b. 12 Oct 1951  (362 works by)

Born: 12 Oct 1951 Minlaton, South Australia
Gender: Male

Biography: Peter Goldsworthy was born at Minlaton, South Australia. He grew up in various South Australian towns and in Darwin before studying medicine at the University of Adelaide. Goldsworthy graduated in 1974 and, while beginning his career in medicine, began to see his poems published in *Westerly* and several issues of the *Friendly Street Poetry Reader*. Goldsworthy's poetry and short fiction began to attract attention in the early 1980s and in 1982 he won the Commonwealth Poetry Prize for a first collection with *Readings from Ecclesiastics*. In 1889 he published his first novel, *Maestro*, and has since published five more novels, including a collaboration with Brian Matthews.

Goldsworthy's poetry and fiction often assess the triviality of contemporary life with acerbic wit and humour. His works frequently exhibit a compassion for the disadvantaged that is balanced by his critique of the apathy of those more fortunate.

His novels have been well received and *Maestro* is widely taught in high schools. His works have been translated into many languages. He has published essays in many periodicals and published a selection of these in *Novel Gazing* (1998). Goldsworthy's libretto for operatic version of Ray Lawler's *Summer of the Seventeenth Doll* was first performed in 1996 and has since toured widely.

Awards:
- New South Wales Premier's Literary Awards, Christina Stead Prize for Fiction, 2004; shortlisted for *Three Dog Night*
- Miles Franklin Literary Award, 2004; shortlisted for *Three Dog Night*
- FAW Christina Stead Award, 2003; winner for *Three Dog Night*
- Helpmann Awards for Performing Arts in Australia, Best New Australian Work, 2002; winner for *Batavia*
- ABC / ARA Birgtonville Literary Award, Poetry Australia Library Award, 1998; winner for *Poetry Australia*
- Premio Bancarella Award, 1980: winner for Before the Day Goes
- Patricia Hackett Prize, 1980: joint winner for Songs on the Death of Children
- WA Sesquicentenary Literary Competition, Short Stories by Australian Writers Not Including Western Australians Award, 1979: joint winner for Memoir of a Small Man Marxist

Archives: Search for literary archives for Goldsworthy, Peter

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Show marked

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Last amended: 15 Jun 2008
6. **The Car Keys** SHORT STORY 1993
   Appears in: *Little Deaths* - Goldsworthy, Peter
   Pymble, New South Wales : Angus & Robertson, 1993 (pp. 1-14) [1 other publication included here]

7. **Little Deaths** SELECTED WORK SHORT STORY 1993

8. **Pointing the Bone** SHORT STORY 1993
   Appears in: *Little Deaths* - Goldsworthy, Peter
   Pymble, New South Wales : Angus & Robertson, 1993 (pp. 41-53)

9. **Jesus Wants Me for a Sunbeam** SHORT STORY 1993
   Appears in: *Little Deaths* - Goldsworthy, Peter
   Pymble, New South Wales : Angus & Robertson, 1993 (pp. 89-135) [1 other publication included here]

10. **Ten and Macaroons** SHORT STORY 1992
    Appears in: *The Adelaide Review* no. 107 October 1992 (pp. 24-25) [3 other publications included here]

11. **Limbo** SHORT STORY HUMOUR 1992

12. **The Nice Surprise** SHORT STORY 1991
    Appears in: *The Adelaide Review* no. 91 August 1991 (pp. 20-21) [1 other publication included here]

13. **The Death of Daffy Duck** SHORT STORY 1991
    This work is also known under alternative title(s):
    - Death of a Hero
    Appears in: *Quadrant* vol. 35 no. 11 November 1991 (pp. 53-57) [3 other publications included here]

    Appears in: *The Sydney Review* no. 20 January 1990 (p. 10) [1 other publication included here]

15. **Tuxedo Junction** SHORT STORY 1989
    Appears in: *The Sydney Review* February, 1989 (p. 10) [4 other publications included here]

16. **The Booster Shot** SHORT STORY 1989
    Appears in: *The Bulletin* 26 December-2 January (1989-1990) 1989 (pp. 89-91) [3 other publications included here]

17. **If, Then** SHORT STORY 1989
    Appears in: *Meanjin* vol.48 no.1 Autumn 1989 (pp. 93-94)

18. **Oblique Homages** SHORT STORY 1989
Work Details

**Tuxedo Junction**  SHORT STORY

Author: Goldsworthy, Peter (a.k.a. Goldsworthy, Peter David)

General subjects:
- Laundry services
- Husbands
- Wives
- Unhappy marriages

Publications of this work include the following 5:

- **The Adelaide Review** February 1989  PERIODICAL ISSUE (p.18)
- **The Sydney Review** February 1989  NEWSPAPER ISSUE (p.10)
- **Little Deaths**  SELECTED WORK  SHORT STORY
  Author: Goldsworthy, Peter (a.k.a. Goldsworthy, Peter David)
  Pymble, New South Wales: Angus & Robertson, 1993. (pp.67-75)
- **Penguin Australian Summer Stories** 4  ANTHOLOGY  SHORT STORY  EXTRACT
  Ringwood, Victoria: Penguin Books Australia, 2002  (pp 60-68)
- **The Sunday Age** 20 January 2002  NEWSPAPER ISSUE, Section Agenda (p.5)

First known date: 1989
AustLit ERI: 101327

Last amended: by 29 Jan 2002
Work Details

Penguin Australian Summer Stories 4  ANTHOLOGY  SHORT STORY  EXTRACT  LIBRARY HOLDINGS

Publication details:
  ISBN:  0143000381
  Extent:  293p.
  Includes: [ 21 indexed works - show contents ]

Works About:
First known date: 2002
AustLit BRN 563936

Last amended: 19 Feb 2002
OCLC

- Research on mining the data
- FRBR algorithm
- Work-based prototypes
  - Fiction Finder
  - xISBN Bookmarklets
OCLC - Algorithm

http://www.oclc.org/research/projects/frbr/algorithm.htm
OCLC Test

- December 2001
- Tested OCLC algorithm against 1,000 works
- Random sample
Results

- 47 million records = 32 million works
- ~1.5 manifestations/work
- 78% have only a single manifestation - **Elemental** Works
- 16% have only a single expression but multiple manifestations - **Simple** Works
- 6% have multiple expression - **Complex** Works, e.g. translations, revisions
Results, cont.

- 25,000 works > 20 manifestations
- 415,000 works > 4 manifestations
- 30% records and 50% of holdings are in a cluster
Most widely held fiction works


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<td>bronte, charlotte\1816 1855/ Jane Eyre</td>
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<td>chekhov, anton pavlovich\1860 1904/short stories</td>
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A prototype system

Over 2.6 million bibliographic records for fiction clustered according to the OCLC FRBR work set algorithm
OCLC – xISBN

- http://www.oclc.org/research/researchworks/xisbn/default.htm
- An experimental web service
- xISBN server receives a single ISBN and returns a list of all ISBNs for the work cluster (in XML or XHTML)
OCLC - xISBN

- **Empowers ISBN searches:**
  - Quickly check OPAC for all editions/versions during selection/acquisitions/gift book processing
  - ILL requests
  - Find local library’s editions when user finds any edition of item on Amazon, etc.
OCLC - Bookmarklets

- http://www.oclc.org/research/researchworks/bookmarklets/
- Integration of “bookmarklets” technology with xISBN lookup service
OCLC - Bookmarklets

- WorldCat as a source for ISBNs
- FRBR algorithm used to build tables of ISBNs
- FRBR Bookmarklets queries the tables and receives the string of all ISBNs for the work
FRBR impact on cataloguing rules

- JSC for Revision of AACR reviewed a compilation of proposed revisions to incorporate FRBR terminology and concepts.
- LC had prepared a proposal on FRBR terms in the Appendices and Glossary (at the April 2004 meeting).
FRBR impact on Bibliographic Structures

- Bibliographic structures could evolve to better meet user needs
- Simplified authority work
FRBR model can be used to

- Cluster bibliographic records retrieved via a search
- Display search results in more meaningful ways
- Assist users in selecting items