



# Understanding FRBR (Functional Requirements for Bibliographic Records )

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*New trends in Cataloguing*

CatSIG Seminar

National Library, 31 May 2004

# Overview

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

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

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- Independent of cataloguing codes
  - Does not replace MARC or AACR
  - Not an application or implementation
  - Not metadata
  
  - *It's a conceptual model*
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# How it all began

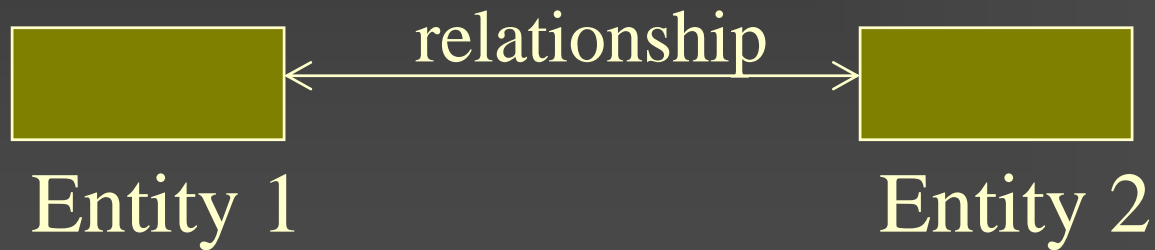
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- 1987 Tillett's PhD
  - 1990 IFLA seminar
  - 1996 Draft
  - 1997 IFLA Section on Cataloguing approves FRBR model
  - 2002- IFLA working Group
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# Entity-Relationship Model

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- Entities
- Relationships
- Attributes



# Group 1 entities

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

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- **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
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# Relationships between Group 1 entities

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- **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**
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# Group 2 entities

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

Work now going on in the FRANAR  
Working Group

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# Group 3 entities

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

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- AustLit
  - VisualCat (Denmark)
  - OCLC's Fiction Finder
  - RLG's Web union catalog plans
  - Variations2 digital music project (Indiana University)
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# AustLit

<http://www.austlit.edu.au/>

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- 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
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## Search Results

You searched for: Name: goldsworthy p

### Results: 1

1. [Goldsworthy, Peter](#) (a.k.a. Goldsworthy, Peter David ) b. 12 Oct 1951 ([362 works by](#))

[Goldsworthy, Peter](#) (a.k.a. Goldsworthy, Peter David ) ([362 works by](#) , [1 work published by](#) )

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



*By permission of the NLA*

**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 Ecclesiastes*. In 1989 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 *Navel 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 / ABA Bicentennial Literary Award, Poetry Australia Literary Award, 1988: **winner** for *Poetry Australia*

- Patricia Hackett Prize, 1980: **joint winner** for *Dark Substances, 1940-1950*
- Premio Bancarelle 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 *Memoirs of a Small 'm' Marxist*

Archives: [Search for literary archives for Goldsworthy, Peter](#)

Show marked

#### Works by

<input type="checkbox"/>	All works <i>by</i>	
<input type="checkbox"/>	Autobiography	1
<input type="checkbox"/>	Biography	11
<input type="checkbox"/>	Column	3
<input type="checkbox"/>	Criticism	13
<input type="checkbox"/>	Essay	1
<input type="checkbox"/>	Extract	6
<input type="checkbox"/>	Historical	1
<input type="checkbox"/>	Humour	8
<input type="checkbox"/>	Music/opera	3
<input type="checkbox"/>	Novel	6
<input type="checkbox"/>	Obituary	3
<input type="checkbox"/>	Periodical issue	1
<input type="checkbox"/>	Poetry	195
<input type="checkbox"/>	Prose	3
<input type="checkbox"/>	Review	65
<input type="checkbox"/>	Satire	1
<input type="checkbox"/>	Selected work	14
<input type="checkbox"/>	Sequence	10
<input type="checkbox"/>	Short story	60
<input type="checkbox"/>	Website	1
<input type="checkbox"/>	As editor	1

#### Works about

<input type="checkbox"/>	All works <i>about</i>	
<input type="checkbox"/>	Autobiography	2
<input type="checkbox"/>	Biography	36
<input type="checkbox"/>	Column	17
<input type="checkbox"/>	Criticism	46
<input type="checkbox"/>	Humour	3
<input type="checkbox"/>	Interview	4
<input type="checkbox"/>	Poetry	2
<input type="checkbox"/>	Prose	2
<input type="checkbox"/>	Review	176
<input type="checkbox"/>	Selected work	2
<input type="checkbox"/>	Website	1

Last amended: 1r 5 Jun 2003

Basic Search

[Go to Advanced Search](#)

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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  
Pymble, New South Wales : Angus & Robertson, 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.89-136) [1 other publication included here]
10.  [Tea 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  
Appears in: [The Sydney Review](#) no.40 March 1992 (p.14)
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):
  - o Death of a HeroAppears in: [Quadrant](#) vol.35 no.11 November 1991 (pp.53-57) [3 other publications included here]
14.  [The Magpie Papers : Part II](#) SHORT STORY 1990  
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 BRN: 101557

*Last amended: tw 29 Jan 2002*

Format as:     
or Email to:  Format as:

## Work Details

**Penguin Australian Summer Stories 4** ANTHOLOGY SHORT STORY EXTRACT [LIBRARY HOLDINGS](#)

### Publication details:

- Ringwood, Victoria : Penguin Books Australia, 2002.  
ISBN: 0143000381  
Extent: 293p.  
Includes: [ **21 indexed works** - [show contents](#). ]

Works About: [Show 3 works about.](#)

First known date: 2002

AustLit BRN: 563936

*Last amended: jh 19 Feb 2002*

Format as: HTML

or Email to:  Format as: Plain Text

Simple Search:  Title  [Guided Search](#)

# OCLC

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

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<http://www.oclc.org/research/projects/frbr/algorithm.htm>

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# OCLC Test

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

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- 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.

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

(Dempsey, Lorcan. 'OCLC and FRBR : directions and research results'. *Revolution or evolution? The impact of FRBR*, 2 Feb. 2004)

Holdings	M'stations	Key
29,043	692	twain, mark\1835 1910/adventures of huckleberry finn
26,088	1,267	carroll, lewis\1832 1898/alices adventures in wonderland
20,843	640	twain, mark\1835 1910/adventures of tom sawyer
19,410	1,341	defoe, daniel\1661 1731/robinson crusoe
18,566	983	cervantes saavedra, miguel de\1547 1616/don quixote
18,492	836	stevenson, robert louis\1850 1894/treasure island
18,123	526	dickens, charles\1812 1870/christmas carol
18,100	278	crane, stephen\1871 1900/red badge of courage
17,761	525	bronte, charlotte\1816 1855/ Jane Eyre
17,499	332	chekhov, anton pavlovich\1860 1904/short stories



# OCLC – Fiction Finder

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- A prototype system
  - Over 2.6 million bibliographic records for fiction clustered according to the OCLC FRBR work set algorithm
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# FictionFinder



[Search](#) [Browse](#) [Categories](#)

## Search

[Search](#) [Clear](#)

Search for:

in:

in:

in:

in:

- All Fields
- Exact Title
- Title
- Author
- Fictitious Characters
- Imaginary Places
- Settings
- Fiction Categories
- Summaries
- Subjects**
- Literary Forms
- Special Forms

# OCLC – xISBN

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- <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)
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# OCLC - xISBN

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- 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.
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# OCLC - Bookmarklets

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

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- 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
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# FRBR impact on cataloguing rules

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- 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)
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# FRBR impact on Bibliographic Structures

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

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