



# Topic Maps-Driven Semantic Services for National Library of Korea



*Presenter Sam Oh*



## Presentation Outline

- Research Objectives and Scope
- Understanding FRBR Model
- Converting MARC to FRBR
- Converting FRBR to Topic Maps
- Implementing a TM Prototype Enabling FRBR Model



## Research Objectives and Scope

- Establishing resource description structure based on international standard
- Making resource management smart and systematic
- Towards semantic DL service via user participation

- *The FRBR model is revolutionary. The (computer) catalogue is not seen as a sequence of bibliographic records and a replica of the traditional card catalogue, but rather as a network of connected data, enabling the user to perform seamlessly all the necessary functions.*
- Dr. Maja Žumer. National and University Library, Ljubljana, Slovenia

- FRBR = Functional Requirements for Bibliographic Records
- Developed by cataloging experts working under the auspices of IFLA (International Federation of Library Associations and Institutions)
- FRBR is a conceptual model (not a standard!)
  - FRBR systematically models the bibliographic universe

- Automated systems for creation & processing of bibliographic data
- Growth of large-scale databases (national & international)
- Shared cataloging programs
- Economic pressure to reduce cataloging costs
- Adapting practice to accommodate new formats & a networked environment
- Changing user expectations and needs

- **FRBR study process and report:**
  - Fresh look at what functions bibliographic records perform
  - FRBR systematically models the bibliographic universe
- **Helps us answer important questions:**
  - What information is of the most value to users of the catalog?
  - How can that most valuable information be used more effectively?
- **Promises to inspire next generation catalogs and DL systems.**
  - Illuminates user tasks
  - Clarifies how catalogs and DLs should function

**Primary objectives of the FRBR study:**

- Provide a clearly defined, structured framework for relating bibliographic data to user needs
- Recommend a basic level of functionality for records created by national bibliographic agencies

**Modeling the bibliographic universe:**

- Utilizes an entity-relationship framework:
  - Entities (a class of things)
  - Relationships (associations among entities)
  - Attributes (characteristics of the entities)

## Four User Tasks:

- **Find** entities that match the search criteria
- **Identify** entities (confirm that the user has found what they were looking for)
- **Select** an entity that matches the user's criteria
- **Obtain** access to the entity through purchase, loan, or through electronic remote access

## And, maybe a fifth:

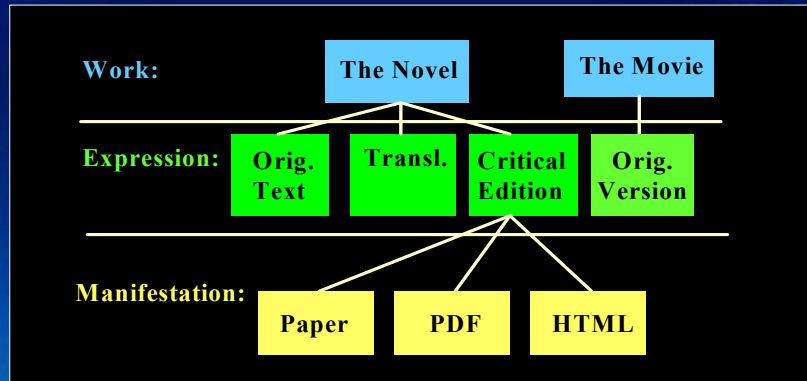
- **Navigate**

- **Group 1**
  - products of intellectual or artistic endeavor that are named of described in bibliographic records
    - work, expression, manifestation, item
- **Group 2**
  - entities responsible for the intellectual or artistic content, the physical production and dissemination, or the custodianship of such products
    - person, corporate body
- **Group 3**
  - entities that serve as the subjects of intellectual or artistic endeavor
    - concept, object, event, place

- Work
  - A distinct intellectual or artistic creation
- Expression
  - The intellectual or artistic realization of a work
- Manifestation
  - The physical embodiment of an expression of a work
- Item
  - A single example of a manifestation

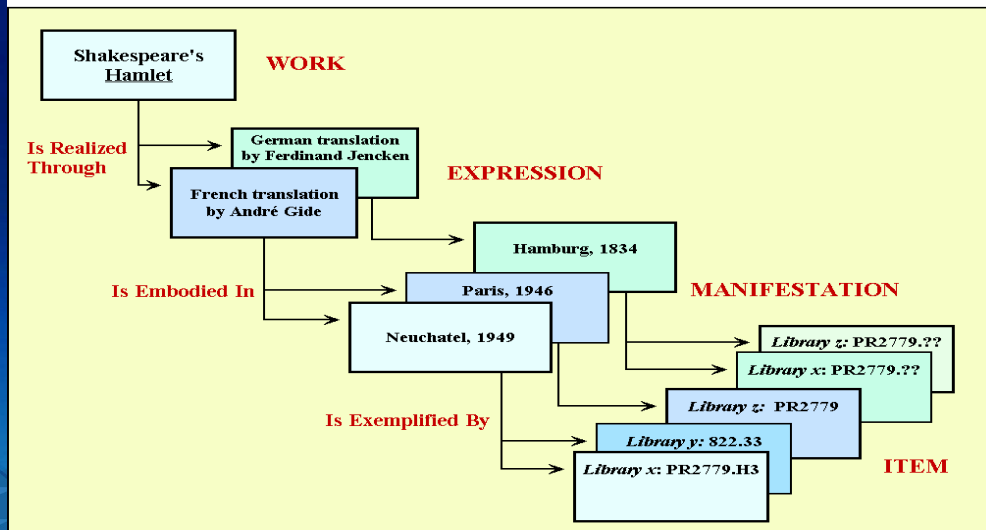


Group 1

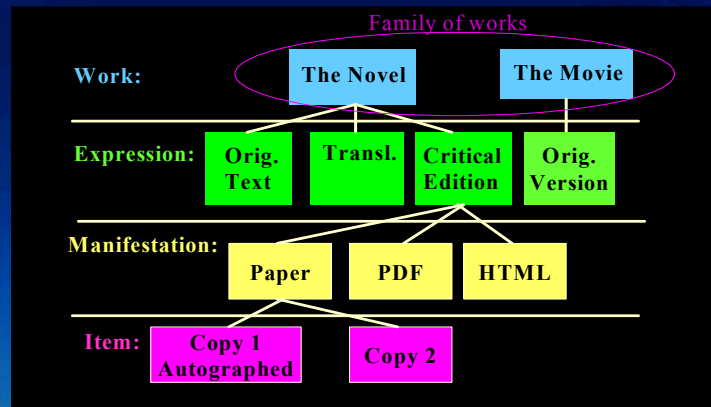


From: Tillett, Barbara "AACR2's Strategic Plan and IFLA Work towards an International Cataloguing Code" (2002)

4-level FRBR Model



## Group 1



From: Tillett, Barbara "AACR2's Strategic Plan and IFLA Work towards an International Cataloguing Code" (2002)

- **Work**
  - Work title, form or genre, date, performance medium, intended audience
- **Expression**
  - Expression title, form of the expression, language of the expression, type of score, scale of a map
- **Manifestation**
  - Manifestation title, publisher, date of publication, form of carrier, dimensions, manifestation identifier (e.g. ISBN), terms of availability
- **Item**
  - Location or call number, barcode, provenance, condition, access restrictions on an item



- Entities responsible for the intellectual or artistic content, the physical production and dissemination, or the custodianship of such products

Group 2 entities:

- Person
- Corporate Body

And perhaps a third ...

- Family

- **Person**
  - Names, dates, titles or other designations
- **Corporate body**
  - Name, number, place, date, other designation

- Entities that serve as the subjects of intellectual or artistic endeavor

#### Group 3 entities:

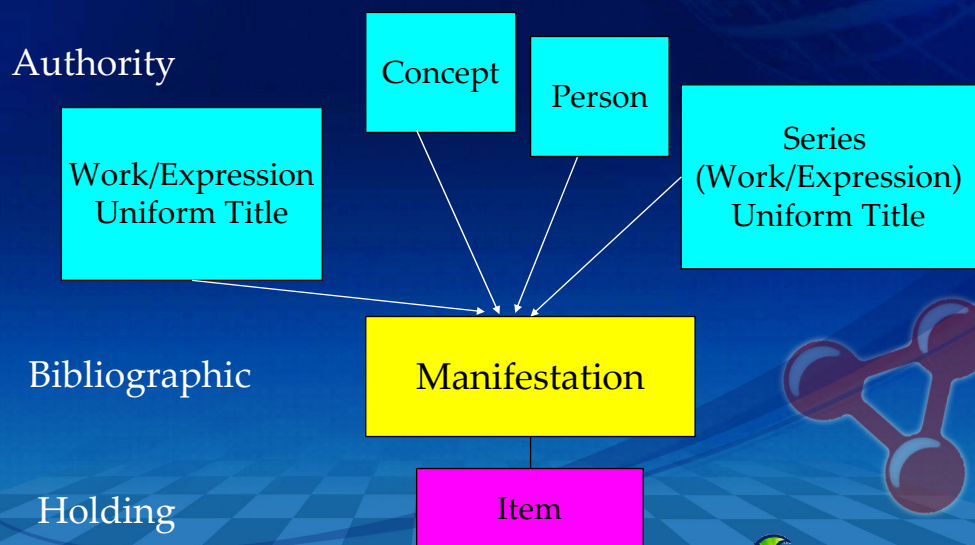
- **Concept:** topical subject heading
- **Object:** name for an object
- **Event:** name for an event
- **Place:** name for a place
- **Plus the Group 1 and 2 Entities:**
  - Works about Works/Expressions/Manifestations/Items
  - Works about Persons and/or Corporate Entities

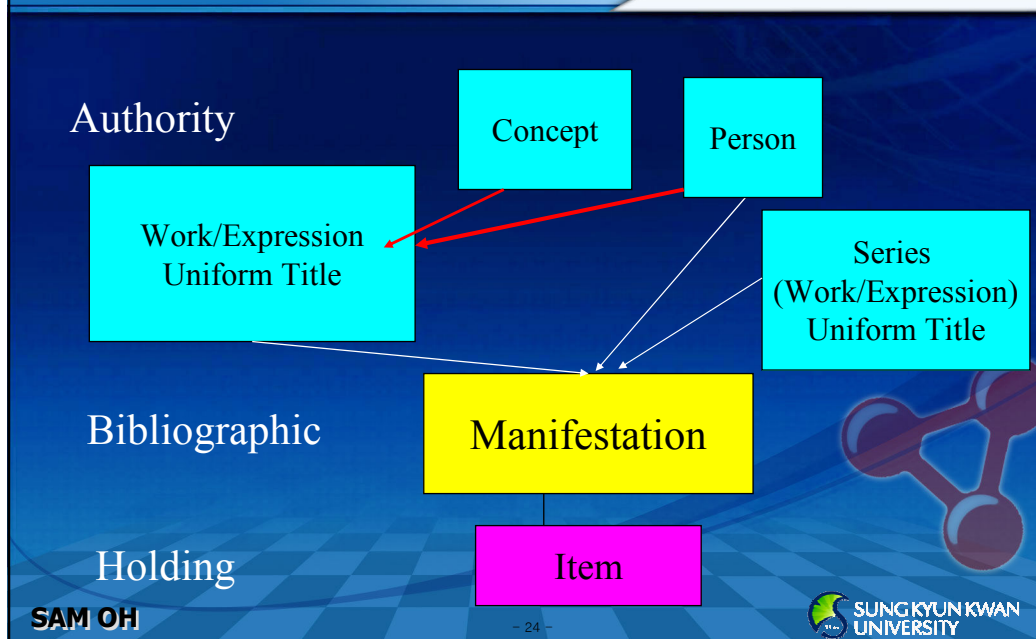
- Attributes of Group 3 entities:
  - **Concept**
    - term
  - **Object**
    - term
  - **Event**
    - term
  - **Place**
    - term

- Link entities to one another
  - Entities of different groups (person and work)
  - Entities of the same group (work and expression)
- Collocation and navigation

- Work ↔ Person
  - Created by
- Expression ↔ Person
  - Translated by
- Manifestation ↔ Corporate body
  - Produced by
- Item ↔ Corporate body
  - Owned by
- Concept ↔ Work
  - Is subject of

- Work to work
  - Successor
  - Supplement
  - Complement
  - Summarization
  - Adaptation
  - Transformation
  - Imitation
  - Whole/part





### ➤ Incorporating the concepts of the FRBR model in systems:

- Superior presentation of search results
  - Esp. in large files – more intuitive clustering
- May help streamline library cataloging
  - Reduces repeated keying of work-related info
- Bibliographic & management intelligence
  - New insights into works (e.g., OCLC's 1000 list)
  - Libraries can operate at workset level (e.g., ILL)

- OCLC Research:
  - Top 1000 titles <http://www.oclc.org/research/top1000>
  - xISBN <http://www.oclc.org/research/researchworks/xisbn/>
  - Fiction Finder <http://fictionfinder.oclc.org/>
  - Curiouser <http://www.oclc.org/research/projects/curiouser>
  
- OCLC production services
  - Open WorldCat <http://www.oclc.org/worldcat/open>
  - FRBR-inspired FirstSearch WorldCat (coming soon)

● Mapping Between FRBR Attributes & MARC21 Elements

Entities	Attributes	MARC21 Elements	MARC21 Description
Work	created by	100/110/111 700/710/711 \$t,\$n,\$p,\$d,\$f,\$k,\$s,\$m,\$r,\$l,\$o,\$h	person/corporate body
	Title of work	130 \$a,\$n,\$p 240/243/245 \$a,\$n,\$p	Uniform title Collective uniform title Title statement
	Date of work	130 \$d 240/243 \$d 245 \$g	Date of treaty signing
	Form of work	130 \$k 240/243/245 \$k	Form subheading
	Medium of performance	130 \$m 240/243 \$m	Medium of performance for music
	Key	130 \$r 240/243 \$r	Key of music
	Coordinates	255 \$c	Statement of coordinates

● Mapping Between FRBR Attributes & MARC21 Elements

Entities	Attributes	MARC21 Elements	MARC21 Description
Expression	Form of expression	leader/06	Type of record
	Language of expression	130 \$l 240/243 \$l 008/35-37	Language of a work language
	Other distinguishing characteristic	130 \$o 240/243 \$o 245 \$s	Arranged statement for music Revision
	Type of score	254 \$a Music 008/20	Musical presentation statement Format of music
	Scale	255 \$a 034 \$b,\$c,\$h	Statement of scale

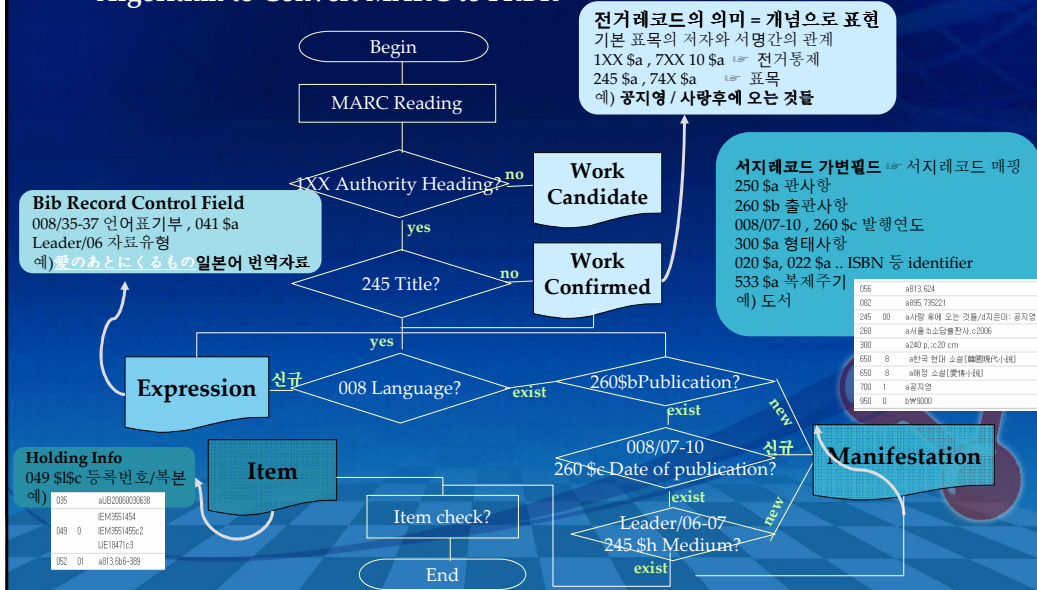
● Mapping Between FRBR Attributes & MARC21 Elements

Entity	Attribute	MARC21 Elements	MARC21 Description
Manifestation	Title of manifestation	245 \$a,\$n,\$p 242 \$a,\$n,\$p	Title Number of part Name of part
	Statement of responsibility	245 \$c 242 \$c	Statement of responsibility
	Edition/issue designation	250 \$a,\$b	Edition statement Remainder of edition statement
	Numbering	362 \$a	Dates of publication and sequential designation
	Publisher/distributor	260 \$b 533 \$c	Name of publisher, distributor Agency responsible for reproduction
	Date of publication/distribution	260 \$c 533 \$d	Date of publication, distribution Date of reproduction

Mapping Between FRBR Attributes & MARC21 Elements

Entity	Attribute	MARC21 Elements	MARC21 Description
Manifestation	Form of carrier, extent of carrier	300 \$a 533 \$e	Extent Physical description of reproduction
	Dimensions of carrier	300 \$c 533 \$e	Dimensions Physical description of reproduction
	Physical medium, capture mode, playing speed, groove width, kind of cutting, tape configuration, kind of sound, special reproduction characteristics, color, polarity, presentation format, file characteristics	300 \$b	Other physical details
	Reduction ratio	340 \$f 533 \$e(?)	Production rate/ratio Physical description of reproduction
	Manifestation identifier	BK:020,027,074 SE:022,030,074 Other:024,028,074	ISBN,STRN:BK, ISSN, Coden:SE Other standard identifier, publisher number:other, Form of musical composition code:074t

Algorithm to Convert MARC to FRBR





**An Algorithm to Convert MARC21 to FRBR**

1. Read MARC record one by one.
2. Read 1XXtag about author and apply normalization rules. ( 100/110/111 tag \$abcdq extract text )
3. If the author already exists in the DB, extract the title. If not, that becomes a new candidate for a new work.
4. In the 245tag \$a, extract the title and compare it to see whether it matches one of works in the DB.
  - 1) Apply normalization rules to extracted title.
  - 2) If the title in 245tag does not match, extract the text from 740tag \$a or 507tag \$t and compare it with the existing works.
  - 3) When you find a title that matches a work, extract the text in 245tag \$a as an expression of the work and move to the expression routine.
  - 4) Fix the author and title as work, then move to expression module.

**➤ An Algorithm to Convert MARC21 to FRBR...**

6. Check the language, 008tag / 35-37, if that is a new one, register it as a new expression.
  - If 041tag exists, separate the text from \$a and \$bch, the \$bch becomes an expression.
7. Describe expression concept as author, title, language, and type.
8. After you went through work and expression steps, check manifestation items.
  - After you extract a publisher info from 260tag \$b, apply normalization rules, then check whether it matches existing ones.
  - Extract publication date from 008tag / 07-10 and check it matches with others.
  - Treat the value of leader/06-07 as upper classification category, if 245tag \$h exists, separate resource type from it and check whether it matches with others.
9. Registration of a manifestation will be done per record and manifestation. If that is an item of manifestation, it should be excluded.
10. Extract holding information from items and register it.

Connecting FRBR with Cataloging Items

저작	Author: Scott, Walter, Sir, 1771 Work: Heart of Midlothian
표현형 1 Form: text - English	구현형 1 [Edition] - Title: The heart of Midlothian - Statement of responsibility: Sir Walter Scott ; edited with an introduction and notes by Claire Lamont. - Imprint: Oxford University Press, 1999 - Physical Description: xxviii, 583 p. : ill. ; 20 cm. - ISBN: 019283567X
표현형 2 Form: text - Russian	구현형 2 [Edition] - Title: The heart of Mid-Lothian - Statement of responsibility: Sir Walter Scott ; edited with an introduction and notes by Tony Inglis. - Imprint: Penguin Books, 1994 - Physical Description: lvi, 793 p. ; 20 cm. - ISBN: 0140431292
	구현형 1 [Edition] - Title: Edinburgskaia temnitsa - Imprint: 1957 - Physical Description: 630 p. illus. 21 cm.

Input (marc reading)

<p>리더   00572nam 2200205 k 4500</p> <p>레코드1</p> <table border="1"> <thead> <tr> <th>TAG</th> <th>IND</th> <th>내용</th> </tr> </thead> <tbody> <tr><td>001</td><td></td><td>K3M0199509675</td></tr> <tr><td>005</td><td></td><td>19900615135518</td></tr> <tr><td>008</td><td></td><td>950615s1994 uk 000 f kor</td></tr> <tr><td>040</td><td></td><td>a011001c011001</td></tr> <tr><td>049 0</td><td></td><td>1E[M]257605v1994</td></tr> <tr><td>052 01</td><td></td><td>a813,bb/784 n c1994</td></tr> <tr><td>055</td><td></td><td>a813,623</td></tr> <tr><td>082</td><td></td><td>a895,734219</td></tr> <tr><td>100 1</td><td></td><td>a공자영</td></tr> <tr><td>245 10</td><td></td><td>a무소의 불침침 혼자서 가라:c공자영장편소설/a공자영 지음</td></tr> <tr><td>260</td><td></td><td>a서울:문예출판사,c1994</td></tr> <tr><td>300</td><td></td><td>a304p. :c23cm</td></tr> <tr><td>440 00</td><td></td><td>a문예출판사 소장본.v3</td></tr> </tbody> </table>	TAG	IND	내용	001		K3M0199509675	005		19900615135518	008		950615s1994 uk 000 f kor	040		a011001c011001	049 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  00614ndm 2200205 k 4500</p> <p>레코드4</p> <table border="1"> <thead> <tr> <th>TAG</th> <th>IND</th> <th>내용</th> </tr> </thead> <tbody> <tr><td>001</td><td></td><td>K3M0000090956</td></tr> <tr><td>005</td><td></td><td>20041129125752</td></tr> <tr><td>007</td><td></td><td>ta</td></tr> <tr><td>008</td><td></td><td>041112q19901957o kvd n kor</td></tr> <tr><td>049 1</td><td></td><td>1AV0000639787aNB</td></tr> <tr><td>052 01</td><td></td><td>a673,51897280</td></tr> <tr><td>055</td><td></td><td>a673,5124</td></tr> <tr><td>245 00</td><td></td><td>a무소의 불침침 혼자서 가라 [한글본] / a정영마 저; a공자영 (주) [한글본] 지음</td></tr> <tr><td>260</td><td></td><td>a[발행지불명] a[발행지불명] c(1990-1997)</td></tr> <tr><td>300</td><td></td><td>a약본 100 :c25 cm</td></tr> <tr><td>500 00</td><td></td><td>a상권번호: 3844</td></tr> <tr><td>653</td><td></td><td>a대중음악가요a무소a불a혼자</td></tr> <tr><td>700 1</td><td></td><td>a정영마</td></tr> <tr><td>700 1</td><td></td><td>a공자영</td></tr> <tr><td>950 1</td><td></td><td>a가족불명</td></tr> </tbody> 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## Advantages of Topic Maps in Providing Semantic Services

- Provides excellent collocation capability – Katz's second purpose of cataloging
- TM implementation is relatively easy compared with RDF/OWL so one can expect a better return on investment.
- Excellent candidate in modeling FRBR-based data and provides great interoperability with other semantic data.
- You can easily change your ontology schema without modifying applications, which offers excellent advantage in terms of management cost.
- Provides flexible ways to model ontology.
- Provides flexible ways to convert any structure data, which makes it easy to utilize legacy data.
- Integrating TM with Web2.0 technology is easy and natural.

## Refining MARC-Ontology Using Topic Maps

1. Topic Types
  - Among FRBR entities from group 1,2,3 and MARC metadata elements, select the elements that can create "useful" collocation, assign them as topic types.
  - Map FRBR model entities into MARC metadata elements and establish them as topic types.
2. Association Types
  - Establish association types between topic types.
  - Apply FRBR relationships as TM associations between topics and also establish associations between metadata elements.
3. Occurrence Types
  - Except for MARC metadata elements that were converted as topic types, the remaining MARC elements will be defined as TM occurrence types.
  - Classify occurrence types based on element values of FRBR model and assign them to appropriate topic types.
  - Since MARC records are usually based on manifestation, most MARC metadata elements and other occurrence types are assigned to manifestation.

## Defining Topic Types

### Topic Types

Expand all nodes

- 개별자료
- 구현형
- 국가
- 단체
- 대상
- 매체유형
- 발행일
- 발행처
- 배경체계
- 분류체계
- 사건
- 언어
- 이용대상
- 인물
- 자료유형
- 장르
- 장소
- 저작
- 주제
- 표현형

Topic Types	FRBR Group & MARC Element
Work/Expression Manifestation/Item	FRBR Group 1, MARC Title
Person / Corporate Body	FRBR Group 2, MARC Personal name, Corporate Name
Object / Event / Place	FRBR Group 3
Country / Genre	MARC Subject (KORMARC 650tag)
Type	MARC leader's type of record (Expression Criterion)
Format	MARC Medium (245 \$h, Manifestation Criterion)
Language	MARC Language statement (Expression Criterion)
Classification	MARC KDC classification number
Context	FRBR Model의 개체 속성정보
Publisher, Date	MARC publication
Audience	MARC Target audience / User tagging info
Subject	User subject tagging info

## KORMARC Elements and TM Occurrence Types

KORMARC Elements	Topic Maps Occurrence Types
Title and related fields (1XX/24X/4XX/7XX)	Other words associated with a name, Remainder of title, Parallel title, Original title, series statement, uniform title
Publication (26X)	Edition statement, Place of publication, Frequency, Regularity
Physical description (3XX)	Extent, Other physical details, Dimensions, Accompanying materials, size of unit
Note (5XX), Subject(653)	Contents note, Restrictions on access, Immediate source of acquisition, keyword
Non-book bibliographic Note(5XX)	System details note, Music format, Participant or performer note, Exhibitions note, Date/time and place of an event note, Creation/production credits note, scale note
Control field (0XX)	DDC, KDC, ISBN, Price, Korean National Library call number, identifier number, language note
Other service Note	URL, book review, status of book circulation, abstract, image of title

● Occurrence Types by Topic Types

Topic Type	Occurrence Types
Work	uniform title
Expression	Original title, language note, Frequency, Regularity, Restrictions on access
Manifestation	Contents note, Immediate source of acquisition, Extent, Other physical details, Dimensions, Accompanying materials, size of unit, Edition statement, System details note, Music format, Participant or performer note, Exhibitions note, Date/time and place of an event note, Creation/production credits note, scale note, Other words associated with a name, Remainder of title, Parallel title, DDC, KDC, ISBN, Price,
Item	Korean National Library call number, identifier number
Publisher	Place of publication,
Classification	KDC, DDC
인물	Dates associated with a name?
Subject	keyword

● Defining Association Types

Topic Type	Association Type	Topic Type
Work	Work form	Genre
	Realized Through	Expression
	Created by	Person/ Corporate Body
	Context for	Context
	Work classified	Classification

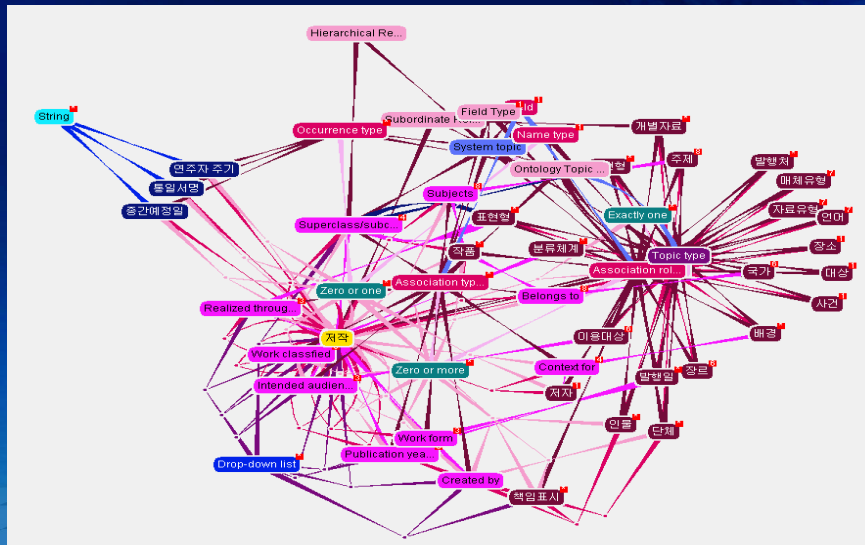
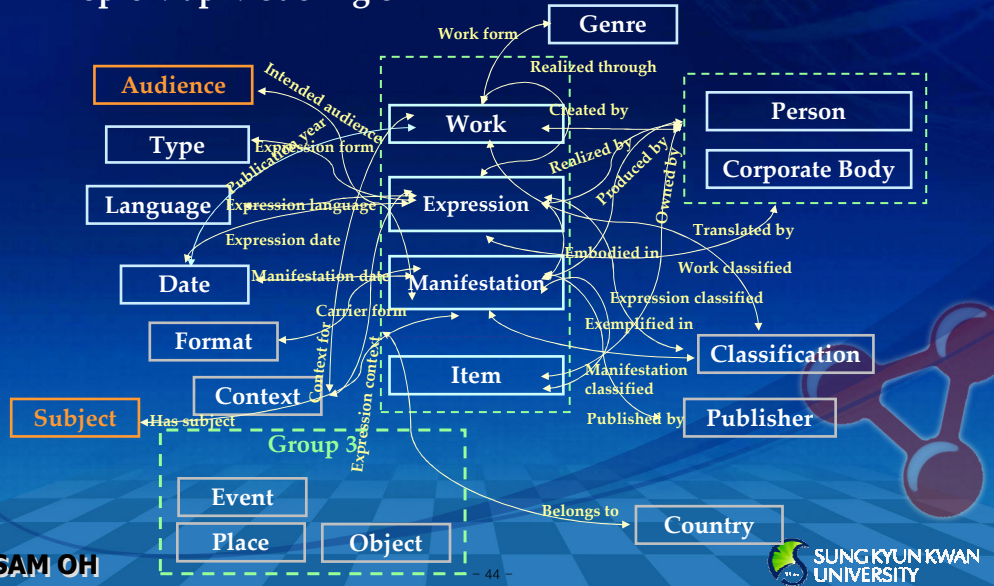
Defining Association Types

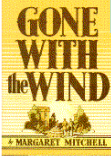
Topic Type	Association Type	Topic Type
Expression	Embodied in	Manifestation
	Realized by	Person/ Corporate Body
	Expression form	Type
	Expression language	Language
	Expression classified	Classification
	Expression context	Context
	Expression date	Publication Date
	Translated by	Person/ Corporate Body

Defining Association Types

Topic Type	Association Type	Topic Type
Manifestation	Exemplified in	Item
	Produced by	Person/ Corporate Body
	Carrier form	Format
	Published by	Publisher
	Manifestation classified	Classification
	Intended audience	Audience
	Manifestation date	Publication Date
Subject	Has subject	Work
Country	Belongs to	Expression Manifestation

Topic Map Modeling of FRBR





**Gone with the wind.**  
**Mitchell, Margaret, 1900-1949**

293 editions in 27 languages, held by 11291 libraries

**Summary:** A monumental classic considered by many to be not only the

**Genres:** Historical fiction | War stories | Love stories | Epic fiction

**Characters:** O'Hara, Scarlett (Fictitious character)

**Settings:** 1861 - 1865 | United States | Georgia | 1800 - 1899 | Estado Georgia —Atlanta [+]  
| [More]

**Subjects:** American Civil War, 1861-1865 | Women | Plantation life | Young women | Civil war | English | Russian language

**Audience:**  Kids  General  Special

LDR 00630cam au200217 a 4500

001 0001133101▲

005 20060709122518▲

008 04011219541936hyu 000 1 eng d▲

010 ▼z 3627334 ▲

020 ▼a0029053902 ▲

040 ▼aIPP▼dIPP▼dOCL▼dWSU▼dIFA▲

050 ▼aPS3525.I972▼bG6 1964▲

052 ▼aF▼bMil ▲

082 00 ▼a813/.52▼220▲

090 ▼aA823.52▼bM694go▲

100 1 ▼aMitchell, Margaret,▼d1900-1949,▲

245 10 ▼aGone with the wind /▼cMargaret Mitchell,▲

260 ▼aNew York : Holt Rinehart Winston,▼c1936, c1936,▲

300 ▼a833 p. :▼c22 cm.▲

651 0 ▼aUnited States▼xHistory▼yCivil War, 1861-1865▼xFiction,▲

Work

Item

**Expressions** **Manifestations**

Editions		Genres		Characters		Settings		Subjects	
Title / Author	OCLC #	Date	Narrow by Languages	Format	Aud.	Narrow by Format			
1. Gone with the wind / by Margaret Mitchell	00290058	1936	English (99) Chinese (35) Russian (26) Polish (16)	Book	General	Book (283)	Audio (8)	Large print (2)	
2. Gone with the wind	07909619	1936	German (14) Korean (12)	Book	General				
3. Gone with the wind / by Margaret Mitchell	35240399	1964	Spanish (12)	Book	General				
4. Gone with the wind / by Margaret Mitchell	01279858	1973	Vietnamese (12) Italian (11)	Book	General				
5. Gone with the wind / Margaret Mitchell	28491920	1936	French (10)	Book	General				
6. Gone with the wind / Margaret Mitchell	26412027	1992	English	Large print	General				
7. Gone with the wind / Margaret Mitchell ; with a new preface by Pat Conroy and an introduction by James A. Michener	33947306	1996	English	Book	General				
8. Gone with the wind / Margaret Mitchell	02931402	1936	English	Book	General				
9. Gone with the wind. Illustrated by Ben Stahl	00878256	1961	English	Book	General				
10. Gone with the wind Margaret Mitchell	45950921	2001	English	Book	General				

• Main Screen





Display of Literary Works

국립중앙도서관 THE NATIONAL LIBRARY OF KOREA

문학작품 | 저자 | 장르별 | 시대별

검색 | 태그보기

문학작품의 개수: 20

장르: 가나다라마바사아자차카타파하

관람항목보기

Work list & expression, manifestation count

Arranged by Genre

Display of Authors

국립중앙도서관 THE NATIONAL LIBRARY OF KOREA

문학작품 | 저자 | 장르별 | 시대별

검색 | 태그보기

장르별 저자보기

저자 및 저작 리스트 (15)

관람항목보기

manifestation list by authors

Detailed Display of Literary Works

주제: "(문학)토지1부1"의 상세

태그 카테고리

- ["문학]토지1부1"의 저자
  - 박종민
  - ["문학]토지1부1"의 출판사
    - 나남
    - ["문학]토지1부1"의 출판년도
      - 2002
      - ["문학]토지1부1"의 미제유형
        - [도서]
  - ["문학]토지1부1"의 책크기: [13cm]
    - ["책크기"(00)가 "13cm"인 다른 도록]
      - 90 방송작가作品集
      - 94 한국방송작가상 수상작품집
      - 99한국방송작가상 수상작품집
      - 84후쿠시마시립도서관의 주본의 본
  - ["문학]토지1부1"의 국공청구기호: [812.698111]
    - ["국공청구기호"(00)가 "812.698111"인 다른 도록]
      - 90 방송작가作品集
      - (91 방송작가)作品集
  - ["문학]토지1부1"의 페이지: [429p]
    - ["페이지"(00)가 "429p"인 다른 도록]
      - 90 방송작가作品集
      - 大韓民國圖書出版年表
      - 국회의정당계
      - 한국 근대사의 개조판
      - 현대불교학개론
  - ["문학]토지1부1"의 가격: [6000]
    - ["가격"(00)가 "6000"인 다른 도록]
      - 90 방송작가作品集
      - (91 방송작가)作品集
      - 92 화북사망 사람 사람들
      - (朱重榮 재2회국립5)농재안 역어
      - (廉凡鎭先生廉甲記志)서울 국악극그룹 代表劇曲集
  - ["문학]토지1부1"의 발행지: [서울]
    - ["발행지"(00)가 "서울"인 다른 도록]
      - 90 방송작가作品集
      - (91 방송작가)作品集

관련 항목 보기

Work-centered vizigator

다른 저작 보기

- (1) 90 방송작가作品集 / 한국방송작가협회 편
- (2) 94 한국방송작가상 수상작품집 / 한국방송작가협회 편
- (3) 94 한국방송작가상 수상작품집 / 한국방송작가협회 편
- (4) 99 한국방송작가상 수상작품집 / 한국방송작가협회 편
- (5) (廉凡鎭先生廉甲記志)京義線 / 李仁春

다른 연록 보기

- (1) A. J. Cremin
- (2) A. J. Cremin
- (3) Davidson, Alice Joyce
- (4) EBS 교육방송 제작
- (5) F. 유은
- (6) Ghim, Kabill
- (7) KBS 미디어
- (8) KBS 미디어 [제작]
- (9) (韓國圖書出版年表)국립중앙도서관 조사 홍보부서
- (10) (靑綠靑靑同人會 編) 3

다른 발행처 보기

- (1) 도서출판 문예당
- (2) (중)문학과학사
- (3) (중)문학과학사
- (4) (중)문학당
- (5) (중)아리조텍북포비아 [제작]
- (6) (중)아리조텍

국립중앙도서관  
THE NATIONAL LIBRARY OF KOREA

문학작품    저자    장르별    시대별

시대별

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문학작품의 장르 (69)

장르 분류 (69)

- 장편 소설 (장편소설)
- 단편 소설 (단편소설)
- 국외의정당계
- 국공청구기호
- 글쓰는 법

Genre (topic type)

---

문학작품

- (1) 국민속으로 / 표현형 (1) / 구현형 (1) / 강론식
  - ["문학]문학 인위자료]
  - 국민속으로 / [도서] / [2003] / [홍문세상]
- (2) 국공의정당계 / 표현형 (1) / 구현형 (1) / 강론식
  - ["문학]문학 인위자료]
  - 국공의정당계 / [도서] / [2002] / [발행처불명]
- (3) 아름다운 국회 아름다운 사람들 / 표현형 (1) / 구현형 (1) / 강론식
  - ["문학]문학 인위자료]
  - 아름다운 국회 아름다운 사람들 / [도서] / [2009] / [홍문세상]
- (4) 죽음처럼 그러나 다르게 / 표현형 (1) / 구현형 (1) / 강론식
  - ["문학]문학 인위자료]
  - 죽음처럼 그러나 다르게 / [도서] / [2003] / [홍문세상]
- (5) 방기나는 정치 아름다운 국회 / 표현형 (1) / 구현형 (1) / 강론식
  - ["문학]문학 인위자료]
  - 방기나는 정치 아름다운 국회 / [도서] / [2003] / [홍문사]

Genre-related work, manifestation list

관련 항목 보기

소설 분야 작품

- (2004) 들머리/문학소설
- (2004)미호적문학상 수상작품집
- (2006) '99가' 선정(한) 오늘의 소설
- (2006) 울머의 문학소설
- (Fest) 피라미드 경기

현대시 분야 작품

- (84)후쿠시마시립도서관의 주본의 본
- (10)민간 출판사아간 사
- (1만행) 당시'부리들의 하늘
- (A Leap Burns Lew
- (大韓民國圖書出版年表)阿麗나미 미디어

희곡 분야 작품

- (1) '90 방송작가作品集
- (2) 99 한국방송작가상 수상작품집
- (3) 94 한국방송작가상 수상작품집
- (4) 99 한국방송작가상 수상작품집
- (5) (靑綠靑靑同人會 編)
- (6) (88희곡)홍대 불리는 청소리
- (7) (89희곡)주물과 황금의 舞臺
- (8) (90희곡)청구기호의 사람들
- (9) (91 방송작가)作品集
- (10) (92희곡)재민안
- (11) (92 희곡)사람 사람들
- (12) (1994년도)한국 시나리오 경연
- (13) (1995년도)한국 시나리오 경연
- (14) (1996년도)한국 시나리오 경연
- (1997년도)한국 시나리오 경연
- (具)개 희곡 시나리오 靑島 美派伊
- (靑島 靑島 靑島)시 문자리 아르바이트
- (18) (靑島 靑島 靑島) 10주년
- (19) (靑島 靑島 靑島)디테라 뽕
- (20) (靑島 靑島 靑島)방송소리

Literature subject work list

다른 저작 보기

- (1) A. J. Cremin
- (2) A. J. Cremin
- (3) Davidson, Alice Joyce
- (4) EBS 교육방송 제작
- (5) F. 유은
- (6) Ghim, Kabill
- (7) KBS 미디어
- (8) KBS 미디어 [제작]
- (9) (韓國圖書出版年表)국립중앙도서관 조사 홍보부서
- (10) (靑綠靑靑同人會 編) 3

다른 발행처 보기

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- (3) (중)문학과학사
- (4) (중)문학당
- (5) (중)아리조텍북포비아 [제작]
- (6) (중)아리조텍
- (7) (중)아리조텍
- (8) (중)문학과학사
- (9) (중)문학당
- (10) 1995

## ➤ Future Research Project Agenda

- National Library of Korea
  - Designing Semantic Digital Library Architecture
- National Archives of Korea
  - Designing Semantic Archiving Retrieval System
- National Assembly Library
  - Designing Smart and Interoperable Metadata System

# Q & A

## *Discussion*