

從書目框架計畫 (BIBFRAME) 的發展 看書目控制的前景

資訊組織教育訓練
專題演講

徐蕙芬

國家圖書館
2014年8月14日

演講大綱

- 書目框架計畫簡介 (Bibliographic framework initiative)
- 書目框架計畫, Why?
- 認識書目框架模式 (BIBFRAME Model)
- 與書目框架相關的其他計畫
- BIBFRAME 和書目控制的未來
- 我們能做什麼？

書目框架計畫 (Bibliographic Framework Initiative)

- 書目框架計畫是未來書目描述系統的基礎.
- 目的在發展一新系統使書目資料融入資料網路世界 (web of data), 同時符合書目控制所需.

書目框架計畫由來 (Bibliographic Framework Initiative)

- 2011年5月, 由當時美國國會圖書館副館長, Deanna Marcum, 領導發起.
- 鑑於 RDA 的實施在即, 現有的 MARC 資料模式和圖書館系統無法實現 RDA 願景
- 計畫主要任務是分析現今和未來資訊環境, 確認支持讀者資源發現關鍵要素, 做為發展新書目資料架構基礎, 同時計畫發展新系統來取代 MARC 資料系統.
- 不僅為 LC, 也為整個書目控制界

書目框架計畫發展簡歷 (Bibliographic Framework Initiative)

發展過程重要里程碑：

- 2011年5月 – 書目框架計畫宣佈開始
- 2011年10月 – LC 公布整體計畫 (general plan)
- 2012年5月 – 與 Zepheira 公司簽約協助評估計畫細節和建立可行的資料模式
- 2012年11月 – LC 發表高層次資料模式文件
- 2013年1月 – LC 建立書目框架網站及書目框架詞彙初稿
- 2013年8月 – 建立實例範例及資源發現系統設計 (use cases and requirements)

書目框架計畫繼續發展 (Bibliographic Framework Initiative)

- 2014年 – 陸續發表了：
 - 書目框架權威 (BIBFRAME Authorities)
 - 書目框架關係 (BIBFRAME Relationships)
 - 書目框架資料說明 (BIBFRAME Profiles)
 - 視聽資源模式研究 (AV Modeling Study)

書目框架模式 (BIBFRAME)

- 書目框架 (Bibliographic Framework or BIBFRAME) 模式有以下特性：
 - 是一資料模式 (data model)
 - 用來承載書目資料 (carry bibliographic data)
 - 運用連結性資料原則 (linked data principle)
 - 最終目的在取代傳統 MARC 資料系統，使書目資料超越圖書館為廣大網路社群使用

為何要發展 BIBFRAME?

- MARC 問題
- 連結性資料趨勢
- 大環境趨勢

MARC 問題

- 機讀目錄 (MARC – Machine Readable Cataloging) 發展於 1960 年代
- 使用過時的科技和設計觀念
- 與現今資料管理觀念與技術脫節
- 僅限圖書館社羣使用
- 與廣大網路社羣無連結，影響書目資源發現與利用

MARC 問題

Dick Miller (1999), David Flanders (2001), Roy Tennant (2002, 2013) 提出了MARC 的過時, 不適用.

- 複雜, 難學, 難懂的資料模式 (*Needless complexity*)
- 過度依賴標點符號代表語意 (*Over-reliance on punctuation*)
- 具低延展性 (*Low extensibility*)
- 具低層次性, 精密性 (*Low granularity*)
- MARC資料無法與圖書館以外其他社羣分享
- 難以與其他系統互用 (*Non-interoperable*)
- 不為圖書館以外其他系統使用
- 圖書館資源發現無法發生在大眾網路上

MARC 問題

- 以MARC 做為書目資料傳輸工具
 - 圖書館資源, 需有其獨特資源發現系統, 此模式無法持久.
 - MARC 資料是非開放性資料 (not open data), 再利用性低
 - 因MARC的不相容, 無法與其他成長快速的網路元資料 (metadata)的融合互用
- 以致 MARC 書目資料, 孤立於只有圖書館才用

“MARC成為圖書館資源融入其他網路資源的最大障礙...”
 (“...chief impediment to effective integration of library resources with web resources ...”)

“用雙重系統來檢索圖書館資源的模式無法持久”
 (“We cannot long sustain dual systems for handling bibliographic access to library resources.”) (May, 1999, Dick Miller)

連結性資料 (Linked Data)

- 連結性資料是網路“資源描述架構”一應用實例 (RDF - Resource Description Framework).
- RDF – 資料模式用來描述網路資源

Berners-Lee 定義連結性資料具以下特性：

- 用資源識別符 (URI) 做為資料 ID (data identifier)
- 是網路資料, 可被搜索引擎搜尋到
- 資料架構遵循 W3C RDF 資料標準 (RDF*, SPARQL)
- 連結其他相關網路資料

連結性資料趨勢 (Linked data)

- 網路趨勢逐漸從 “文件性網路” (Web of documents) 演進至 “資料網路” (Web of data) *
- 需以連結性資料達成 “資料網路” 目標
- 使用連結性資料使網路資源更易發現, 資料更易重新再利用, 連結, 強化網路使用性

*Tim Berners-Lee 2009 TED talk.

連結性資料趨勢 (Linked Data)

- 圖書館資料必需轉換成連結性資料，使書目資料是網路系統也可瞭解的資料。只有當書目資料使用網路系統可瞭解的資料模式，並有 URI 使其與其他相關網路資源連結，才能成為網路可發現資源 (Discoverable)，從而提高可用性。

在路上搜尋書

Everything is Miscellaneous

www.everythingismiscellaneous.com/ ▾

Jul 27, 2014 - This is one of the most amazing examples I've seen of the complexity of even simple organizational schemes. "Unicode Collation Algorithm ...

Everything Is Miscellaneous - Wikipedia, the free encyclopedia...

en.wikipedia.org/wiki/Everything_Is_Miscellaneous ▾

Everything Is Miscellaneous: The Power of the New Digital Disorder is a book by David Weinberger published in 2007 (ISBN 0805080430). The book's central ...

Amazon.com: Everything Is Miscellaneous: The Power of th...

www.amazon.com/Everything-Is-Miscellaneous-Digital.../B0055X5JS0 ▾

In **Everything Is Miscellaneous**, David Weinberger charts the new principles of digital order that are remaking business, education, politics, science, and culture.

Everything is Miscellaneous - YouTube



www.youtube.com/watch?v=WHeta_YZ0oE ▾

Aug 22, 2012 - Uploaded by GoogleTalksArchive

Google Tech Talks May 10, 2007 ABSTRACT David Weinberger's new book covers the breakdown of the ...

Book Review: Everything is Miscellaneous, by David ...

[idratherbewriting.com/.../everything-is-misce... by-david-weinber...](http://idratherbewriting.com/.../everything-is-miscellaneous-by-david-weinber...) ▾

by Tom Johnson - Apr 15, 2011 - In **Everything is Miscellaneous**, Dave Weinberger argues that classifications that we have imposed on most everything from the alphabet to the ...

Everything Is Miscellaneous - Google Books

books.google.com/.../Business_&_Economics/.../General ▾

★★★★★ Rating: 3 - 19 reviews

圖書館 OPAC

Everything is miscellaneous : the power of the new digital disorder /

Principal Author:	Weinberger, David, 1950-
Title:	Everything is miscellaneous : the power of the new digital disorder / David Weinberger.
Publisher:	New York : Times Books, 2007.
Edition:	1st ed.
Description:	277 p. : ill. ; 25 cm.
Topic/Subjects:	Knowledge management. Information technology--Management. Information technology--Social aspects. Personal information management. Information resources management. Order.
Links:	Table of contents only

Holdings Information

Location:	General Collection Find it in the Library.
Call Number:	<u>HD30.2 .W4516 2007</u>  Text me this call number
Status:	Not Checked Out

哈利波特:神秘的魔法石 - 中學生網站

www.shs.edu.tw/search_view_over.php?work_id=940178 ▾ 转为简体网页

在身世之迷被解開的機緣下, **哈利波特**, 這個自以為平凡無奇的小男孩, 被帶入一個有著各式各樣新奇古怪東西的**魔法**世界。十一歲的他, 已經到達了**魔法**學校的就學 ...

哈利波特:神秘的魔法石 - Yahoo!奇摩電影

<https://tw.movies.yahoo.com/.../id=681> ▾ 转为简体网页 Yahoo! Movies ▾

Mar 17, 2009 - Yahoo!奇摩電影: **哈利波特:神秘的魔法石**(Harry Potter and the Sorcerer's Stone)

博客來-哈利波特(1):神祕的魔法石

www.books.com.tw ▾ 青少年小說, 科幻/奇幻小說 ▾ 转为简体网页

書名:**哈利波特(1):神祕的魔法石**, 原文名稱:Harry Potter and the ... 在世界的另一個角落裡, 有一個**神祕**的國度, 裡面住滿了巫師, 貓頭鷹是他們的信差, 飛天掃帚是 ...

哈利波特与神秘魔法石下载(Harry Potter and the Sorcerer's ...

www.962.net ▾ 游戏下载, 动作冒险 ▾ Translate this page

Jul 14, 2010 - **哈利波特与神秘魔法石**游戏下载**哈利波特**是有J.K.Rowling原创的一款不可思议的流行幻想系列小说, 而哈里波特现象也衍生了一款有ElectronicArts ...

哈利波特和魔法石_J.K.罗琳_小说在线阅读_努努书坊

book.kanunu.org ▾ 玄幻奇幻 ▾ Translate this page

May 29, 2008 - **哈利波特与魔法石**,在魔法学校, 哈利不仅找着了朋友, 学会了空中飞行, 骑着一把型号为光轮2000的飞天扫帚打魁地奇球, 还得到了一件隐形衣。

Language : English | onlineservice | Questionnaire | Network Accreditation | Purchase Request | Help

TAIPEI PUBLIC LIBRARY
WEBPAC

Check My
Forgot Password ?

Online Catalog > Search Result > Book

ID: Please Insert



哈利波特 :神秘的魔法石 /J. K. 羅琳(J. K. Rowling)著；彭倩文譯

Hit: 520 Trackback: 0 Forward: 0

Simple MARC

Language: 中文

著者: 羅琳 ; 彭倩文

Publication: 臺北市: 皇冠文化, 2000 (2009印刷)

edition: 初版

Pages: 316面:圖21公分

叢書名: 皇冠叢書;第3027種;Choice;30

附註: 譯自: Harry Potter and the philosopher's stone

附註: 本館最新館藏為2009

主題: 兒童小說

ISBN: 9573317249 (平裝):

ISBN: 9789573317241 (平裝):

其他題名: 神秘的魔法石

附加題名: Harry Potter and the philosopher's stone

Call number: 873.57 6014

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TCNJ Library: Everything Is Miscellaneous: The Power of the ...

<http://libcat.tcnj.edu:7009/vwebv/holdingsInfo?bibId=635651> In *Everything Is Miscellaneous*, David Weinberger charts the new principles of digital order

that are remaking business, education, politics, science, and culture.



圖書館書目資料融入網路資料願景

博客來-哈利波特(1): 神祕的魔法石

www.books.com.tw > ... > 青少年小說，科幻/奇幻小說 ▶ 转为简体网页

書名：[哈利波特\(1\): 神祕的魔法石](#)，原文名稱：[Harry Potter and the ...](#) 在世界的另一個角落裡，有一個神祕的國度，裡面住滿了巫師，貓頭鷹是他們的信差，飛天掃帚是 ...

台北市立圖書館 - 哈立波特：神秘的魔法石

<http://webcat.tpmi.edu.tw> > ... > 兒童小說 [J. K. 羅琳\(J. K. Rowling\)](#)著；彭倩文譯 書名：[哈利波特](#)：神祕的魔法石，原文名稱：[Harry Potter and the ...](#) 在世界的另一個角落裡，有一個神祕的國度，裡面住滿了巫師，貓頭鷹是他們的信差，飛天掃帚是 ...



大環境趨勢

使用者預期現今資料模式應具下列特性：

- 以資源識別符 (URLs) 來辨識資料
- 資料應具低模糊性 (Reduced ambiguity)
- 資料分散性趨勢 (Decentralization of data)
- 資料應具延展性 (Ability to annotate or otherwise augment data)
- 資料應具彈性 (可用來描述各類資源及未來新類型資源)
(Flexibility – for future cataloging and uses)
- 利用最新科技使發揮最大功能 (Leverage technology while leaving librarians to their areas of expertise)
- 資料應開放隨時為網路使用, 連結 (Web-ready/web-accessible – more openness)

資料來源: Kevin Ford, 2013 presentation (<http://www.slis.wisc.edu/documents/2013-uwisc-webinar-1.pdf>) accessed

書目框架大環境目標

- 書目框架模式需能利用網路科技使書目資料能為各類系統使用 (interoperability)
- 書目框架模式需能為其他社羣使用
- 需接受並推廣“資料開放”(open metadata) 原則

書目框架大環境目標

- 建立合作性環境，使書目資料更易分享
- 提高書目資料網路能見度，使書目資料，書目資源更易發現，提高書目資源使用率

BIBFRAME 模式

- 是資料模式 (data model) – 非內容模式 (content model)
- 願景及發展目標：
 - 適用任何內容標準(如: RDA) 或其他資源描述規範
 - 因採用資源描述架構 (RDF) 資料模式, 可使圖書館書目資料與其他網路資料交流, 互用.
 - 能處理各類書目資源 (圖書式資料; 期刊; 數位資源等) 及未來可能的新資源類型
 - 能整合納入其他資料 (包括: 權威資料, 館藏資料, 分類資料)
 - 儘量充分利用網路功能特點

BIBFRAME 模式

- BIBFRAME紀錄內的權威控制 (個人, 團體或作品名稱)項目, 均以獨特識別符 (URI)連結取代, 減輕書目資料維護工作 (即若名稱改變, 所有與之連結的資料隨之自動改變.)

書目框架模式發展近況 (Initial Phase)

- 書目環境評估完成 (landscape assessment)
- 書目框架連結性資料模式初稿完成
- 發展系統傳譯服務模式及介面 (translation services and interfaces)
- 書目框架詞彙與 MARC 和 RDA 詞彙配對
- 發表書目框架計畫發展藍圖及計畫策略
- 召集早期測試機構協助改善書目框架模式

BIBFRAME 首頁

BIBFRAME



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- » [Frequently asked questions](#)
- » [Webcasts & presentations](#)
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Model & Vocabulary

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- » [BIBFRAME vocabulary](#)
 - » [Model view](#)
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 - » [List view](#)
- » [BIBFRAME specifications](#)

Implementation & Testing

- » [BIBFRAME testbed](#)
- » [Implementation register](#)

Bibliographic Framework Initiative

Initiated by the Library of Congress, BIBFRAME provides a foundation for the future of bibliographic description, both on the web, and in the broader networked world. This site presents general information about the project, including presentations, FAQs, and links to working documents. In addition to being a replacement for MARC, BIBFRAME serves as a general model for expressing and connecting bibliographic data. A major focus of the initiative will be to determine a transition path for the MARC 21 formats while preserving a robust data exchange that has supported resource sharing and cataloging cost savings in recent decades.



General Information

- » [Frequently asked questions](#)
- » [Webcasts and presentations](#)
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- » [Document archive](#)

Implementation & Testing

- » [BIBFRAME testbed](#)
- » [Implementation register](#)
- » [BIBFRAME tools and downloads](#)
- » [Demonstration datasets](#)

Model & Vocabulary

- » [BIBFRAME model](#)
- » [BIBFRAME vocabulary](#)
 - [Vocabulary description \(updated\)](#)
 - [Terminology & conventions](#)
- » [BIBFRAME draft specifications](#)
 - [BIBFRAME Profiles \(new\)](#)
 - [BIBFRAME Authorities \(updated\)](#)
 - [BIBFRAME Relationships \(new\)](#)
- » [Analyses](#)
 - [AV Modeling Study \(new\)](#)
- » [Use cases](#)
- » [MARC mapping \(coming soon\)](#)

What's New

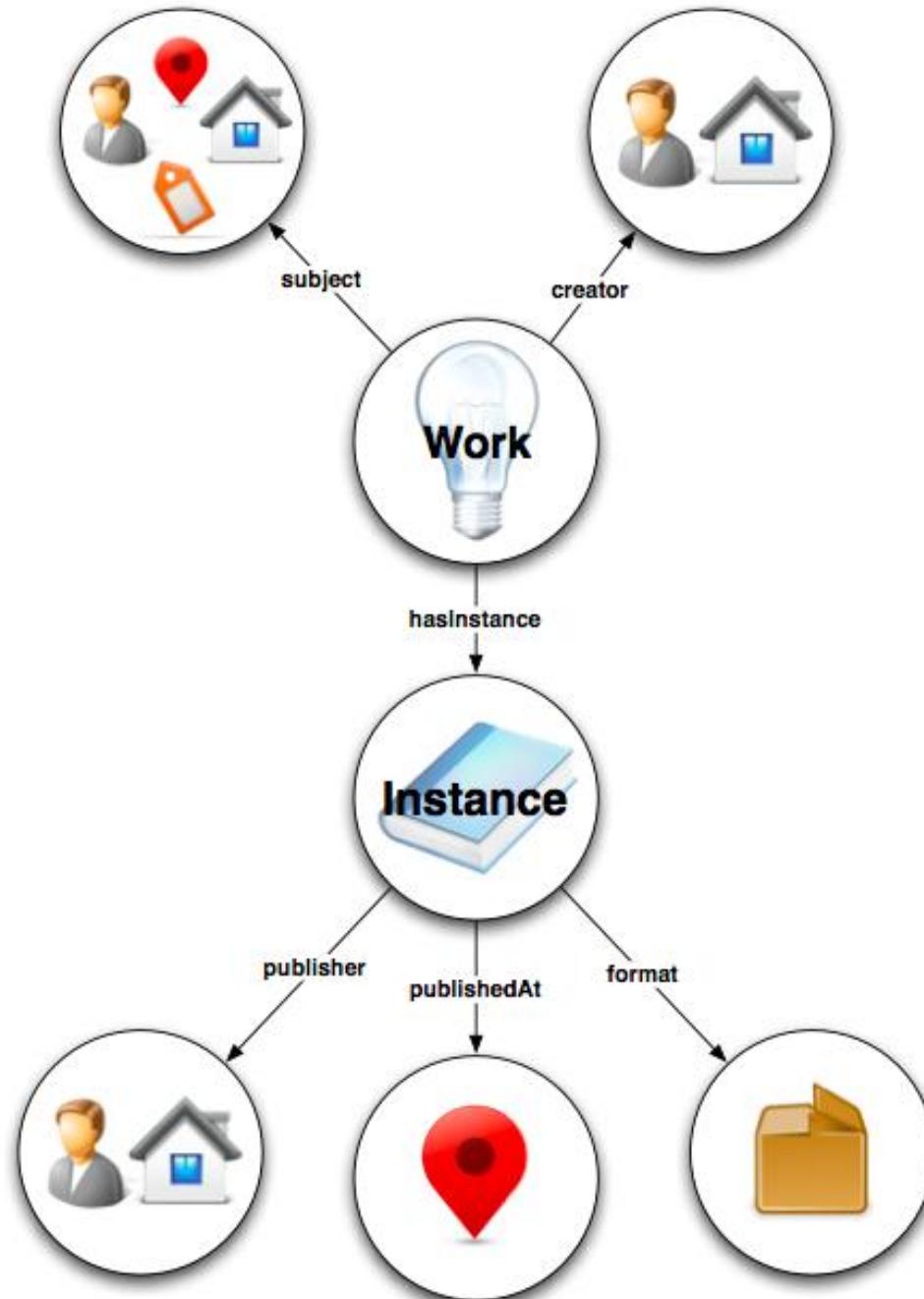
New Model Analysis Available
[BIBFRAME AV Modeling Study: Defining a Flexible Model for Description of Audiovisual Resources](#)

BIBFRAME Editor Now Available
[Learn more »](#)

Latest webcast

BIBFRAME Update Forum at ALA Midwinter Meeting in Philadelphia, PA is now available (26 January 2014).
[View webcast](#)

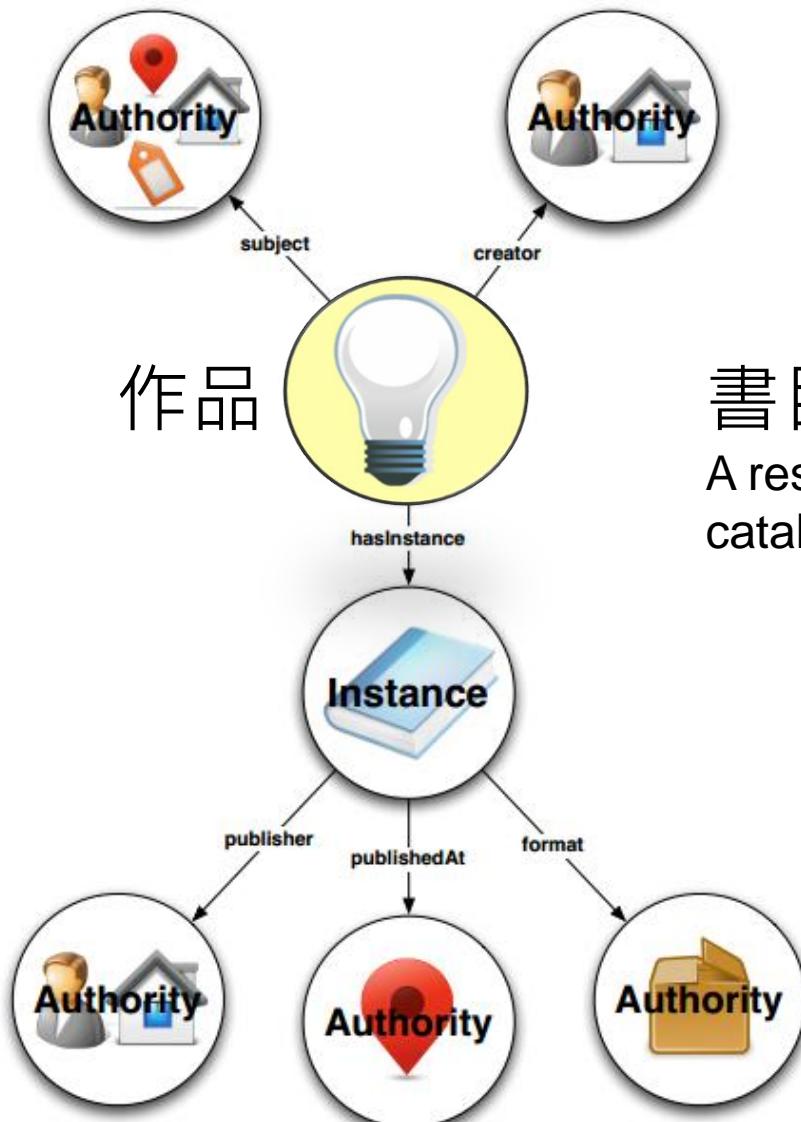
書目框架模式



書目框架模式

- 作品 (Creative Work) – 書目資源創作核心本質
- 實例 (Instance) – 作品的實質具體表現
- 權威 (Authority) – 與作品和實例相關的其他具權威控制性資料 (例: 個人, 地點, 主題, 用來協助讀者連結, 辨認書目資源)
- 標註 (Annotation) – 其他資料可助讀者對書目資源的認知, 了解 (例: 館藏資料, 封面影像, 書評等)

作品 (Creative Work)

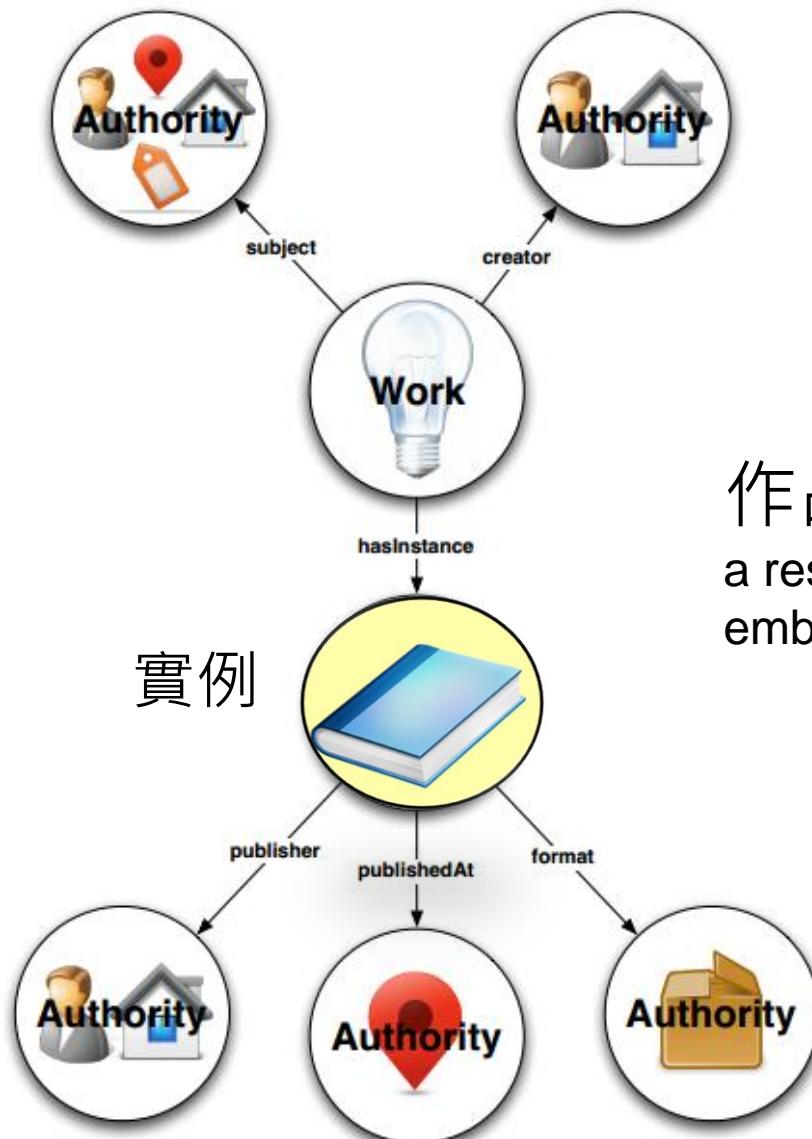


作品

書目資源創作核心本質

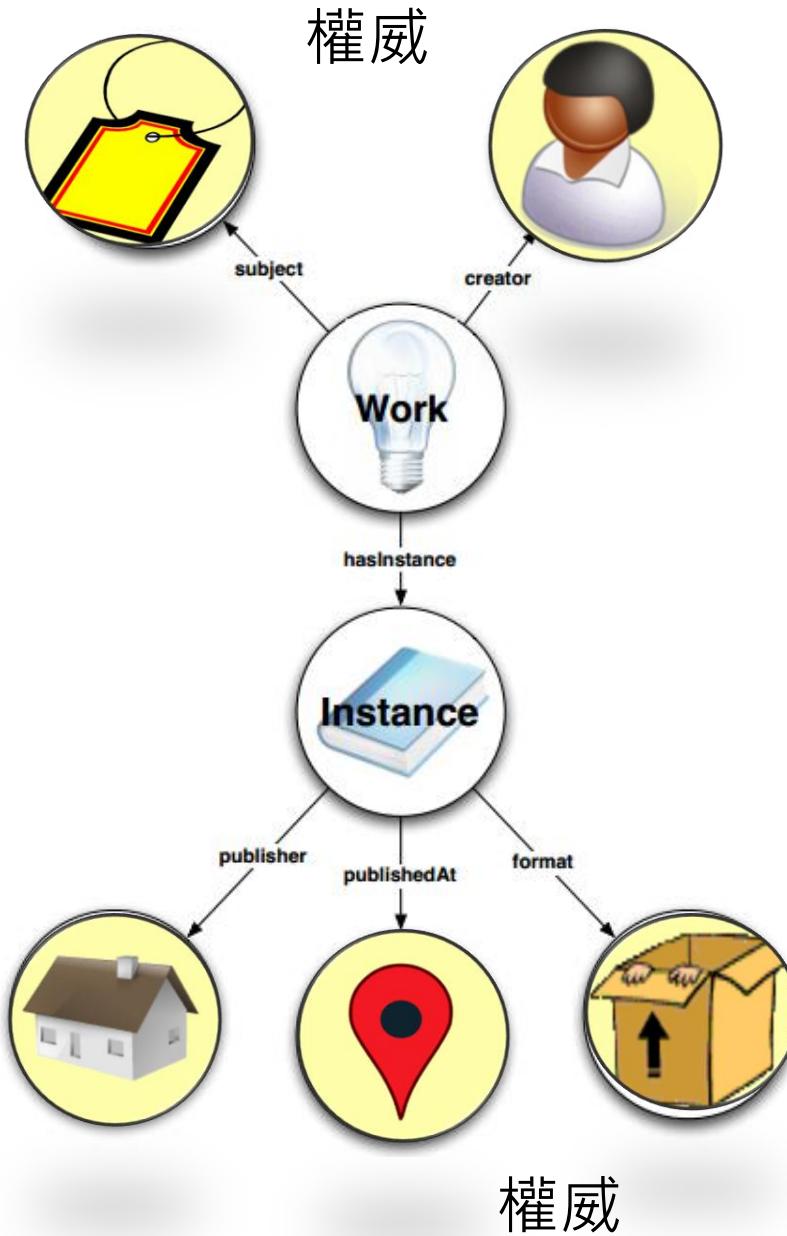
A resource reflecting a conceptual essence of the cataloging resource.

實例 (Instance)



作品的實質具體表現

a resource reflecting an individual, material embodiment of the Work.



權威 (Authority)

與作品和實例相關的其他具權威
控制性資料

a resource reflecting key authority concepts
that have defined relationships reflected in
the Work and Instance.

其他資料可助讀者對書目資源的認知,了解(例:館藏資料,封面影像,書評等)

標註 (Annotation)

館藏機構

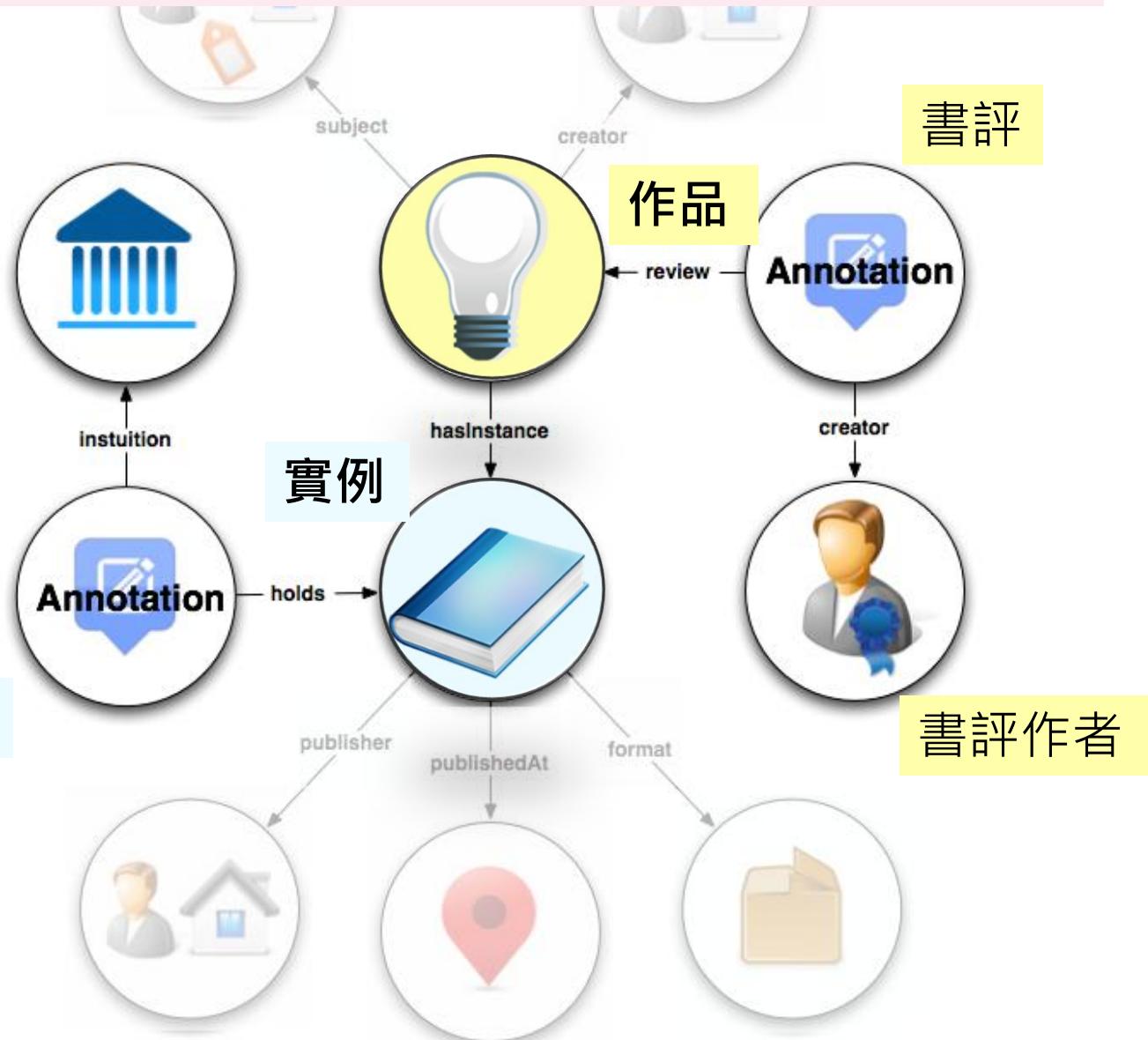
館藏資料

實例

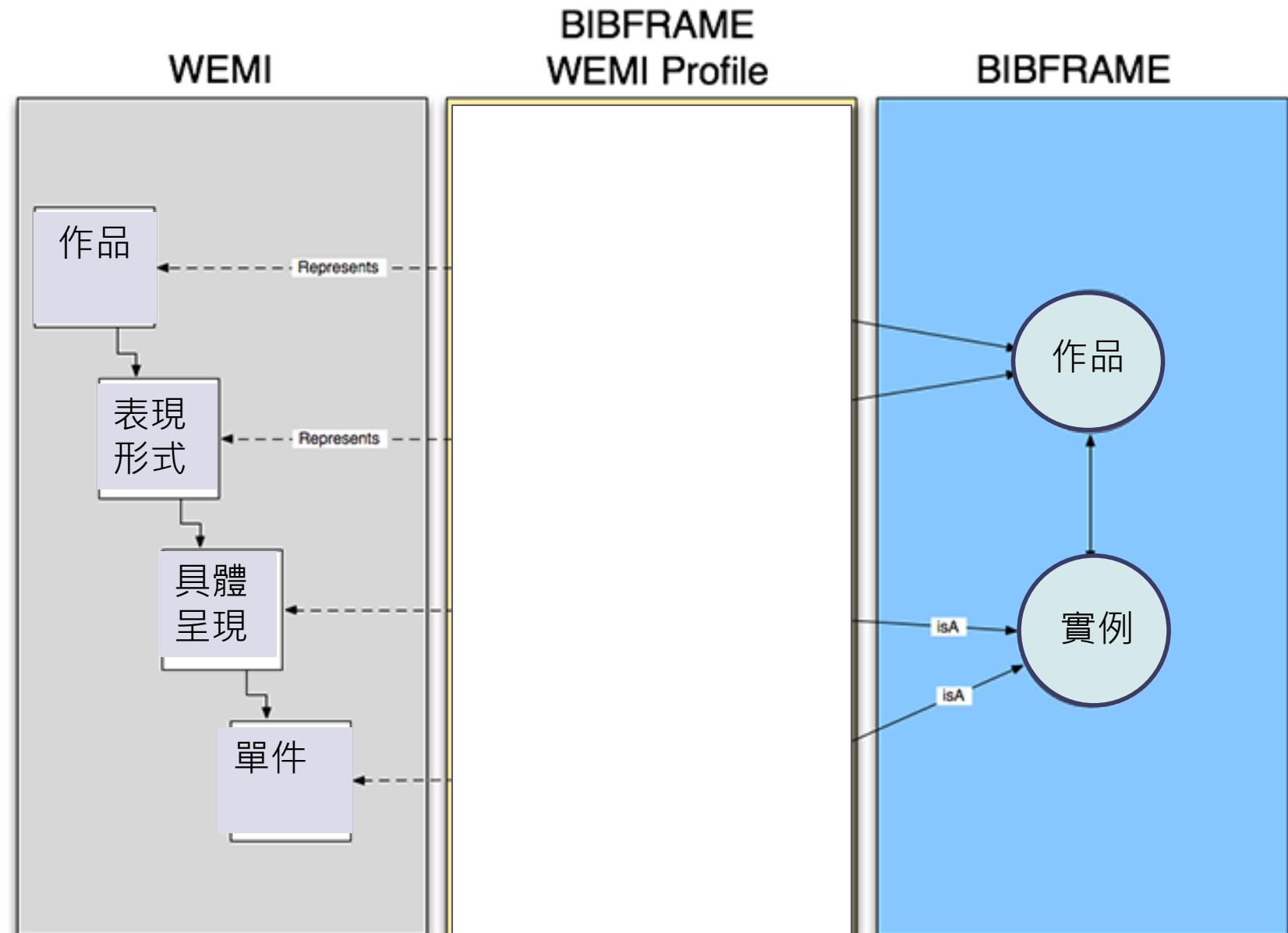
作品

書評

書評作者



RDA, FRBR和書目框架模式



000 01190cam a2200301la 4500
001 447707
005 20140621162453.0
008 990804s1999 sp j 000 1 spa d
019 __ \$a 44402829 \$a 44402832
020 __ \$a 8478884459
035 __ \$a (OCOLOC)ocm41940153
040 __ \$a LPU \$c LPU \$d BRL \$d PL# \$d OCL \$d MVP
041 1_ \$a spa \$h eng
099 __ \$a 863 Rowl
100 1_ \$a Rowling, J. K
240 10 \$a Harry Potter and the philosopher's stone. \$I Spanish
245 10 \$a Harry Potter y la piedra filosofal / \$c J.K. Rowling ; [traducción de Alicia Dellepiane].
260__ \$a Barcelona : \$b Emecé Editores, \$c c1999.
300__ \$a 254 p. .\$b ill. ; \$c 23 cm.
650_0 \$a Wizards \$v Juvenile fiction.

Bibframe 和 RDA

000 01190cam a2200301la 4500
 001 447707
 005 20140621162453.0
 008 990804s1999 sp j 000 1 spa d
 019 __ \$a 44402829 \$a 44402832
 020 __ \$a 8478884459
 035 __ \$a (OCOLOC)ocm41940153
 040 __ \$a LPU \$c LPU \$d BRL \$d PL# \$d OCL \$d MVP
 041 1_ \$a spa \$h eng
 099 __ \$a 863 Rowl
 100 1_ \$a Rowling, J. K
 240 10 \$a Harry Potter and the philosopher's stone. \$I Spanish
 245 10 \$a Harry Potter y la piedra filosofal / \$c J.K. Rowling ; [traducción de Alicia Dellepiane].
 260__ \$a Barcelona : \$b Emecé Editores, \$c c1999.
 300__ \$a 254 p. : \$b ill. ; \$c 23 cm.
 650_0 \$a Wizards \$v Juvenile fiction.

Bibframe 和 RDA

書目框架作品 (Work)
 RDA 作品 (work)

000 01190cam a2200301la 4500
 001 447707
 005 20140621162453.0
 008 990804s1999 sp j 000 1 spa d
 019 __ \$a 44402829 \$a 44402832
 020 __ \$a 8478884459
 035 __ \$a (OCOLOC)ocm41940153
 040 __ \$a LPU \$c LPU \$d BRL \$d PL# \$d OCL \$d MVP
 041 1_ \$a spa \$h eng
 099 __ \$a 863 Rowl
 100 1_ \$a Rowling, J. K
 240 10 \$a Harry Potter and the philosopher's stone. \$I Spanish
 245 10 \$a Harry Potter y la piedra filosofal / \$c J.K. Rowling ; [traducción de Alicia Dellepiane].
 260__ \$a Barcelona : \$b Emecé Editores, \$c c1999.
 300__ \$a 254 p. : \$b ill. ; \$c 23 cm.
 650_0 \$a Wizards \$v Juvenile fiction.

Bibframe 和 RDA

書目框架 作品 (Work)

RDA 表現形式 (Expression)

000 01190cam a2200301la 4500
 001 447707
 005 20140621162453.0
 008 990804s1999 sp j 000 1 spa d
 019 __ \$a 44402829 \$a 44402832
 020 __ \$a 8478884459
 035 __ \$a (OCOLOC)ocm41940153
 040 __ \$a LPU \$c LPU \$d BRL \$d PL# \$d OCL \$d MVP
 041 1_ \$a spa \$h eng
 099 __ \$a 863 Rowl
 100 1_ \$a Rowling, J. K
 240 10 \$a Harry Potter and the philosopher's stone. \$I Spanish
 245 10 \$a Harry Potter y la piedra filosofal / \$c J.K. Rowling ; [traducción de Alicia Dellepiane].
 260__ \$a Barcelona : \$b Emecé Editores, \$c c1999.
 300__ \$a 254 p. : \$b ill. ; \$c 23 cm.
 650_0 \$a Wizards \$v Juvenile fiction.

Bibframe 和 RDA

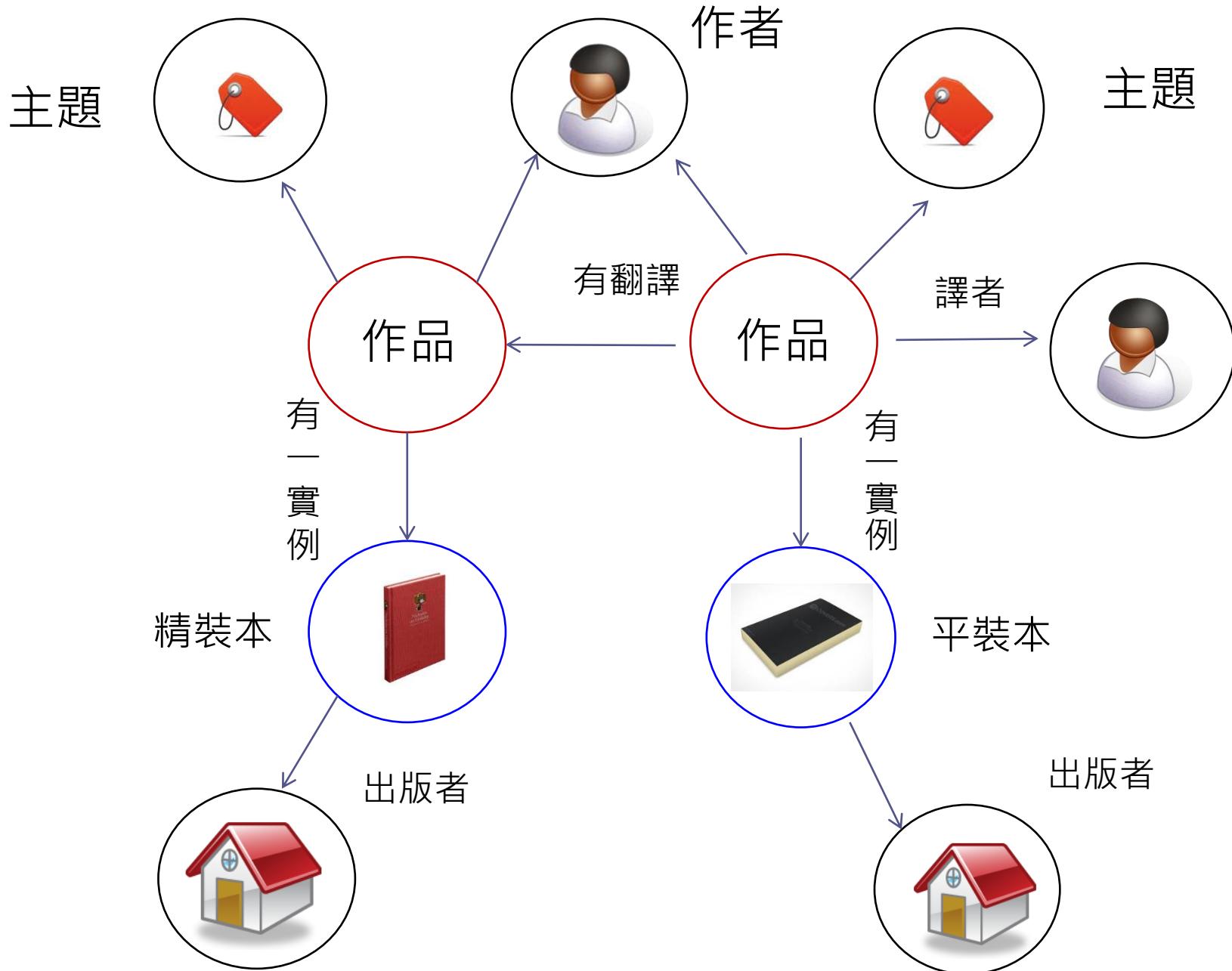
書目框架實例 (Instance)
 RDA 具體呈現 (Manifestation)

000 01190cam a2200301la 4500
 001 447707
 005 20140621162453.0
 008 990804s1999 sp j 000 1 spa d
 019 __ \$a 44402829 \$a 44402832
 020 __ \$a 8478884459
 035 __ \$a (OCOLOC)ocm41940153
 040 __ \$a LPU \$c LPU \$d BRL \$d PL# \$d OCL \$d MVP
 041 1_ \$a spa \$h eng
099 __ \$a 863 Rowl
 100 1_ \$a Rowling, J. K
 240 10 \$a Harry Potter and the philosopher's stone. \$I Spanish
 245 10 \$a Harry Potter y la piedra filosofal / \$c J.K. Rowling ; [traducción de Alicia Dellepiane].
 260__ \$a Barcelona : \$b Emecé Editores, \$c c1999.
 300__ \$a 254 p. : \$b ill. ; \$c 23 cm.
 650_0 \$a Wizards \$v Juvenile fiction.

Bibframe 和 RDA

書目框架館藏資料 (**Holding**)
 RDA單件資料 (**Item**)

<http://id.tcnj.edu/resources/bibs/447707> a bf:**Work**;
bf:title " Harry Potter y la piedra filosofal;" ;
bf:class-ddc <<http://id.tcnj.edu/authorities/classification/863>>;
bf:primaryLanguage <<http://id.tcnj.edu/vocabulary/languages/spa>> ;
bf:authorizedAccessPoint "Rowling, J. K. Harry Potter and the philosopher's stone. Spanish";
bf:translationOf <<http://id.tcnj.edu/resources/bibs/harry-philo>>;
bf:uniformTitle "Harry Potter and the philosopher's stone. Spanish".
<<http://id.tcnj.edu/resources/instances/12010145>> a bf:**Instance**;
bf:dimensions "23 cm." ;
bf:extent "254 p. " ;
bf:hasHolding _:bnode447707 ;
bf:illustrativeContentNote "ill." ;
bf:instanceOf <<http://id.tcnj.edu/resources/bibs/447707>>;
bf:title "Harry Potter y la piedra filosofal" .
<<http://id.tcnj.edu/resources/holdings/447707>> a bf:**Holding** ;
bf:callno-ddc "863" ;
bf:holds <http://id.tcnj.edu/resources/instances/447707> ;
bf:holdBy <<http://id.tcnj.edu/vocabulary/organizations/dlcmrc>>
bf:label "863 Rowl" .



BIBFRAME 作品和權威紀錄

```
<!-- BIBFRAME Work -->
<Report id = "http://bibframe/work/frbr-report">
    <authorizedAccessPoint>IFLA Study Group on the Functional
Requirements for Bibliographic Records.
        Functional requirements for bibliographic records: final report.
    </authorizedAccessPoint>
    <title>Functional requirements for bibliographic records :</title>
    <subtitle>final report</subtitle>
    <creator resource = "http://bibframe/auth/org/ifla" />
</Report>

<!-- BIBFRAME Authority -->
<Organization id="http://bibframe/auth/org/ifla">
    <authorizedAccessPoint>IFLA Study Group on the Functional
Requirements for Bibliographic Records.
    </authorizedAccessPoint>
    <link>http://www.ifla.org/</link>
    <hasAuthority
resource="http://id.loc.gov/authorities/names/nr98013265" />
</Organization>
```

BIBFRAME Profiles (資料著錄說明文件)

- 初稿於2014年5月公佈 (<http://www.loc.gov/bibframe/docs/bibframe-profiles.html>) 供各界評論。
- 用來指示資料著錄方式及資料形式，並提及相關功能要件，資料結構和資料形式
- 目的在使資料著錄和資源描述具一致性，

The screenshot shows the homepage of the BIBFRAME Profiles document. At the top right, there are links for Print, Subscribe, Share/Save, and Give Feedback. The main title is "BIBFRAME Profiles: Introduction and Specification" followed by "Draft — 5 May 2014". Below the title is a summary paragraph about the purpose and content of the document. A section titled "Status of this Document" provides instructions for public review and contact information. The sidebar on the left contains links for Home, Frequently asked questions, Webcasts & presentations, Contact us, Model & Vocabulary, and BIBFRAME specifications.

BIBFRAME Profiles: Introduction and Specification
Draft — 5 May 2014

This document introduces and defines BIBFRAME Profiles, and describes how they are created, maintained and used. It gives an overview of the purpose of BIBFRAME Profiles, describes how they can be used to support unique community's descriptive practices, and provides specific examples of how profiles can be constructed.

Status of this Document

- Draft for public review (5 May 2014)
- Please send general comments about this document to the listserv bibframe@loc.gov or via email to bfcomments@loc.gov.
- To the extent possible under law, the Library of Congress has waived all copyright and related or neighboring rights to this work.

Table of Contents

- Introduction
- Basic Structure
- Validation
- Serialization
- Usage Scenarios

BIBFRAME Editor (資料輸入工具)

BIBFRAME

Using the BIBFRAME Editor

 Print  Subscribe  Share/Save  Give feedback



- » [Home](#)
- » [Frequently asked questions](#)
- » [Webcasts & presentations](#)
- » [Contact us](#)

Model & Vocabulary

- » [BIBFRAME model](#)
- » [BIBFRAME vocabulary](#)
 - » [Model view](#)
 - » [Category view](#)
 - » [List view](#)
- » [BIBFRAME specifications](#)

The BIBFRAME Editor (BFE) is a simple tool that enables input of any BIBFRAME vocabulary element. The BFE will be frequently improved as small features are added and user comments come in. There is a Demo version that you may directly experiment with. In addition, our primary purpose for the tool is the open source Download version of the software that you may take and integrate into your experimental systems, enabling many features that the Demo cannot provide.

Here are some points to remember when "playing" with the online Demo:

- 1) The only templates available to you "out of the box" are holding, instance, work, authority, and "all". The tool, however, includes all the BF vocabulary properties in support of enabling the selection of subsets (templates) of these large templates, creating new ones for specific uses by catalogers (e.g., minimal description for a book, sheet music). In the code source, the base Profiles are available for your manipulation.
- 2) There is NO back end storage at this time in the Demo. A completed description is staged for export and saving but until we have added a datastore to the Demo you cannot save your input. It is expected that if you Download you are planning to use the tool with a datastore, which you will need to configure locally and from which you could retrieve descriptions for editing.
- 3) The left hand column of the input screen lists the templates currently available. These are fully configurable if you download the source code. It is where we plan to add ones from time to time on the Demo.

BIBFRAME Editor

Get the code [here](#). In the meantime, select a Profile below to get started.

BIBFRAME - Kitchen Sink Profiles

[New HeldItem](#)

[New Instance](#)

[New Work](#)

[New Work, Instance,
& HeldItem](#)

BIBFRAME - Simple Monograph

→ [New Holding](#)

→ [New Instance](#)

→ [New Work](#)

[New monograph
\(New Work, Instance,
and Holding\)](#)

BIBFRAME Editor

Get the code [here](#). In the meantime, select a Profile below to get started.

BIBFRAME - Kitchen Sink Profiles

Work - Monograph

[New HeldItem](#)

Authorized access point

Authorized access point

[Set](#)

[New Instance](#)

Title

Title

[Set](#)

[New Work](#)

New Work, Instance,
& HeldItem

Title variation

Title Entity

BIBFRAME - Simple Monograph

Author

Person	Organization	Family	Meeting	Jurisdiction
--------	--------------	--------	---------	--------------

[New Holding](#)

Editor

Person	Organization	Family	Meeting	Jurisdiction
--------	--------------	--------	---------	--------------

[New Instance](#)

[New Work](#)

Translator

Person	Organization	Family	Meeting	Jurisdiction
--------	--------------	--------	---------	--------------

New monograph
(New Work, Instance,
and Holding)

Date of work

Date of work

[Set](#)

Place of creation

Place

Genre, etc.

Category

BIBFRAME Editor

Get the code [here](#). In the meantime, select a Profile below to get started.

BIBFRAME - Kitchen
Sink Profiles

Instance/Manifestation - Monograph

New HeldItem

Instance of Work - Monograph

New Instance

Authorized access point Authorized access point

Set

New Work

New Work, Instance,
& HeldItem

Title Title

Set

BIBFRAME - Simple
Monograph

Transcribed title Transcribed title

Set

New Holding

Abbreviated title Title Entity

New Instance

New Work

Edition statement Edition statement

Set

New monograph
(New Work, Instance,
and Holding)

Edition responsibility Edition responsibility

Set

Media type Media type

unmediated

Work - Monograph

X

Work - Monograph

Lookup

Lookup

Save changes

OR

**Authorized
access point**

Authorized access point

Set

Title

Title

Set

Title variation

Title Entity

BIBFRAME Editor Instance/Manifestation Monograph (Cont'd)

Carrier	<input type="text" value="Carrier"/>	
	<input type="button" value="volume"/> e x	
Dimensions	<input type="text" value="Dimensions"/>	<input type="button" value="Set"/>
Page nos.	<input type="text" value="Page nos."/>	<input type="button" value="Set"/>
Publication	<input type="text" value="Provider Entity"/>	
Provider statement	<input type="text" value="Provider statement"/>	<input type="button" value="Set"/>
Note	<input type="text" value="Note"/>	<input type="button" value="Set"/>
Preferred citation	<input type="text" value="Preferred citation"/>	<input type="button" value="Set"/>
Has other physical format	<input type="text" value="Instance"/>	

Title Entity

X

Title Entity

Variant title type	Variant title type	Set
Title	Title	Set
Subtitle	Subtitle	Set
Part title	Part title	Set
Part title enumeration	Part title enumeration	Set
Form designation	Form designation	Set
Variant title date	Variant title date	Set
Other attribute of title	Other attribute of title	Set

BIBFRME 作品和實例紀錄

The adventures of Tom Sawyer / Mark Twain [i.e. S. L. Clemens] ; illustrated by Konrad Hack.

Creator	Twain, Mark, 1835-1910. Hack, Konrad.
Note(s)	"Notes from the editors": 22 p. inserted.
Subject(s)	Sawyer, Tom (Fictitious character) / Fiction. Mississippi River Valley / Fiction. Runaway children Child witnesses Missouri / Fiction. Boys / Fiction.
LC Call Number	PS1306
Dewey Number	813/.4
Instance(s)	<p>The adventures of Tom Sawyer / Mark Twain [i.e. S. L. Clemens] ; illustrated by Konrad Hack.</p> <hr/> <p>Publisher Franklin Center, Pa. : Franklin Library, 1978.</p> <hr/> <p>Edition A limited ed.</p> <hr/> <p>Physical xvii, 252 p. : ill. ; 22 cm.</p> <p>Description</p>

Karen Coyle test bibframe record

BIBFRME 作品和實例紀錄

Miller, Calvin, 1936- Shade (1)

1. Shade

Creator(s)

Miller, Calvin, 1936- (E0
06)

Note(s)

(E0) Standard print ed. originally published Minneapolis, Minn. Bethany House, 2001.

Subject(s)

Large type books (E0
06)

King of Prussia (Pa.)--Fiction (E0
06)

Christian fiction (E0
06)

Annotation(s)

Instance(s)

Shade

Publisher

Edition Large print ed.

Dimensions 23 cm.

Extent 181 p. (large print) ;

Note(s) (E0) Standard print ed. originally published Minneapolis,
Minn. Bethany House, 2001.

BIBFRME 作品紀錄 RDF 資料形式

```
- <rdf:RDF>
  - <bf:Person rdf:about="http://bibframe.org/resources/sample-bl/007633754person14">
    <bf:hasAuthority rdf:resource="http://id.loc.gov/authorities/names/n79011126"/>
    <bf:label>Miller, Calvin, 1936-</bf:label>
    <bf:authorizedAccessPoint>Miller, Calvin, 1936-</bf:authorizedAccessPoint>
  </bf:Person>
</rdf:RDF>

- <rdf:RDF>
  - <bf:Place rdf:about="http://bibframe.org/resources/sample-bl/007633754place18">
    <bf:label>King of Prussia (Pa.)--Fiction</bf:label>
    <bf:authorizedAccessPoint>King of Prussia (Pa.)--Fiction</bf:authorizedAccessPoint>
    <bf:hasAuthority rdf:nodeID="N095235cc386d49858293721600dfffe0c"/>
  </bf:Place>
</rdf:RDF>
```

MARC to BIBFRAME Comparison Service

This service produces a comparison of a MARCXML record and its BIBFRAME representation. Currently it only accommodates Library of Congress MARC records. Enter the BIBID of a Library of Congress record into the box. The BIBID is carried in the MARC 001 of the Library of Congress record. (It is not the LCCN which is in the MARC 010.)
See also: [Transformation Service](#)

Library of Congress BIBID (MARC 001)

Enter BIBID

Run Comparison

[MARC](#)[BIBFRAME](#)[BIBID](#)

Search

04549cam a2200421 a 4500
 001 14780655
 005 20071005142314.0
 008 070323s2007 nyua b 001 0 eng
 010 \$a 2007012024
 020 \$a9780805080438
 020 \$a0805080430
 035 \$a(OCoLC)ocn122291427
 035 \$a(OCoLC)122291427
 040 \$aDLC\$cDLC\$dBAKER\$dBTCTA\$dC#P\$dYDXCP\$dVP@dFVC\$dbUR\$dDLC
 050 00 \$aHD30.2\$b.W4516 2007
 082 00 \$a303.48/33\$222
 100 1 \$aWeinberger, David,\$d1950-
 245 10 \$aEverything is miscellaneous :\$bthe power of the new digital disorder /\$cDavid Weinberger.
 250 \$a1st ed.
 260 \$aNew York :\$bTimes Books,\$c2007.
 300 \$a277 p. :\$bill. ;\$c25 cm.
 504 \$aIncludes bibliographical references (p. [235]-257) and index.
 505 0 \$aThe new order of order -- Alphabetization and its discontents -- The geography of knowledge -- Lumps and splits -- The laws of the jungle -- Smart leaves -- Social knowing -- What nothing says -- Messiness as a virtue -- The work of knowledge.

MARC 書目紀錄

[MARC](#)[BIBFRAME](#)[BIBID](#)

Search

```
@prefix bf: <http://bibframe.org/vocab/> .
@prefix madsrdf: <http://www.loc.gov/mads/rdf/v1#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix relators: <http://id.loc.gov/vocabulary/relators/> .
@prefix xml: <http://www.w3.org/XML/1998/namespace> .
@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
```

```
<http://id.loc.gov//resources/bibs/14780655> a bf:Text,
  bf:Work ;
  bf:authorizedAccessPoint "Weinberger, David, 1950- Everything is miscellaneous : the power of the new digital disorder",
  "weinbergerdavid1950everythingismiscellaneouspowerofthenewdigitaldisorderengworktext"@x-bf-hashable ;
  bf:classification [ a bf:Classification ;
    bf:classificationEdition "full" ;
    bf:classificationNumber "303.48/33" ;
    bf:classificationScheme "ddc" ;
    bf:label "303.48/33" ] ;
  bf:classificationLcc <http://id.loc.gov/authorities/classification/HD30> ;
  bf:creator [ a bf:Person ;
    bf:authorizedAccessPoint "Weinberger, David, 1950-" ;
    bf:hasAnnotation [ a bf:Annotation ;
      bf:annotationBody <http://www.loc.gov/catdir/enhancements/fy0801/2007012024-b.html> ;
      bf:label "Contributor biographical information" ] ;
    bf:hasAuthority [ a madsrdf:Authority ;
      madsrdf:isIdentifiedByValue "http://id.loc.gov/authorities/subjects/sh魯藏語-漢語對照詞典" ] ]
```

BIBFRAME 紀錄

初期測試者 (Early Experimenters)

- 大英圖書館 (British Library)
- 德國國家圖書館 (Deutsche Nationalbibliothek)
- 喬治華盛頓大學 (George Washington University)
- 美國家醫學圖書館 (National Library of Medicine)
- OCLC
- 普林斯頓大學 (Princeton University)
- 美國國會圖書館 (LC)

BIBFRAME 實施測試平台 (Implementation Testbed)

- 2014年1月開始, 邀請各機構參與實施測試
- 目的在於鼓勵參與, 從而得知BIBFRAME的優缺點, 即時改善, 使BIBFRAME的發展更完善

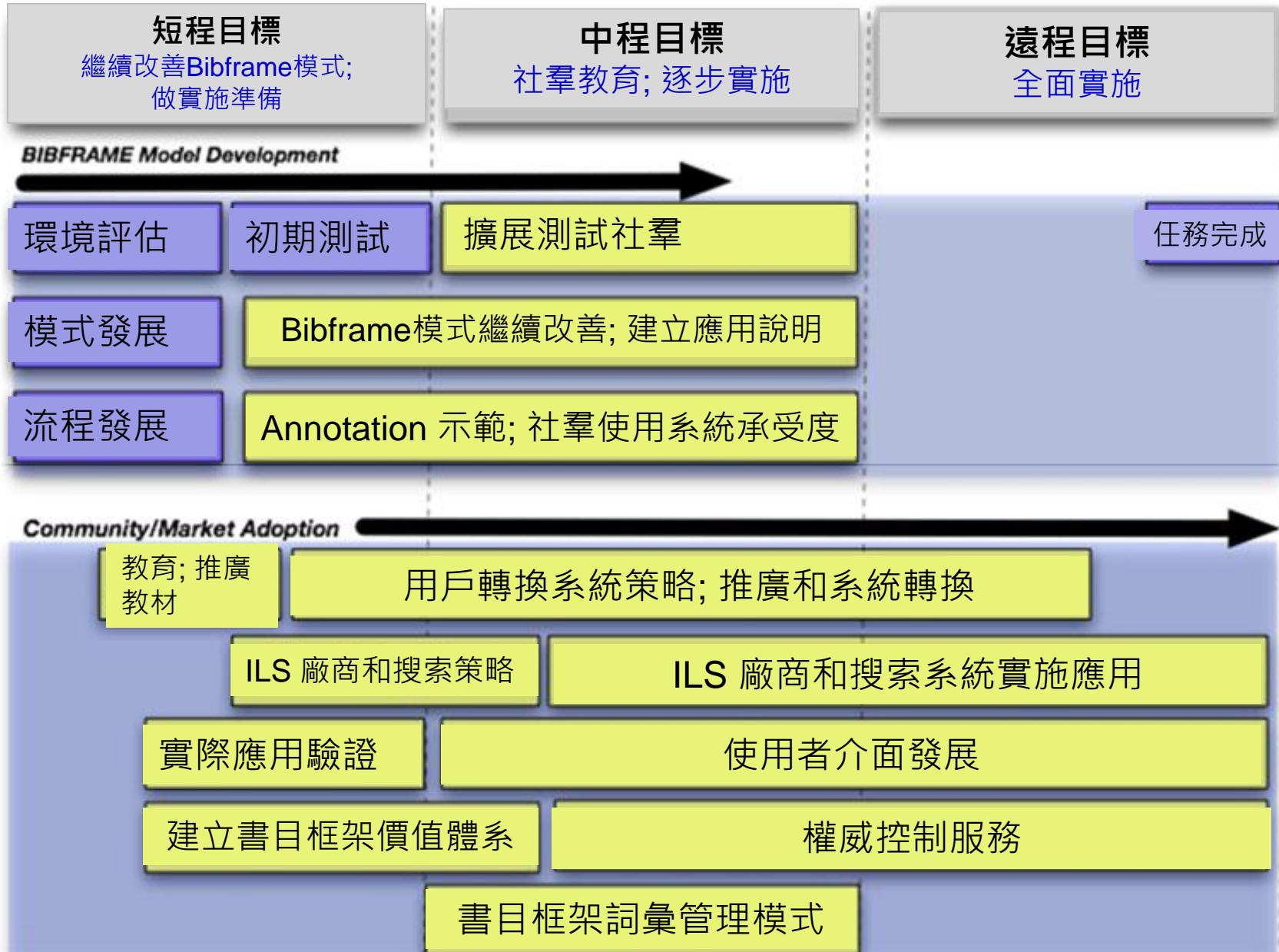
LC 實施 BIBFRAME 初期計畫

- 2015年, LC 將 (實驗性質) 開始用 BEBFRAME 輸入工具著錄編目資料

下階段計畫 (Next phase)

- 擴大**BIBFRAME**測試範圍，期更多機構參與，更多類資料類型加入測試
- 建立詳細說明文件 (documentation)
- 完成 **BIBFRAME** 與 MARC 欄位和 RDA 詞彙配對
- 資料序列化 (serialization)
- 建立更多實例證明模式可行
- 資料著錄說明 (Named profiles/constraints)
- 建立簡易開放性編目介面
- 建立**BIBFRAME** 資訊中心 (information central)

書目框架: 初步藍圖 (2013)



國際書目控制社羣看BIBFRAME

- 英國國家圖書館和德國國家圖書館參與測試
- 其他國家書目控制機構密切注意 BIBFRAME 的發展
- 2014年6月, 美國會圖書館(LC)和合作編目計畫(PCC, Program for Cooperative Cataloging)宣佈支持 BIBFRAME 的發展, 期待此計畫帶領圖書館進入連結性資料環境

加大戴維斯分校 BIBFLOW計畫

- 來自博物館與圖書館服務基金會 (IMLS grant – Institute of Museum and Library Service) 兩年計畫補助金
- 鑑於網路科技進步，圖書館限於其獨特資料系統，無法融入採用現今為大眾使用的網路系統。
- 此計畫目的即為圖書館社群設計未來實施新世代書目資料系統用在新世代自動化系統的藍圖
- 過程包括收集各類元資料 (MARC, MODS, DC 等)，並試驗轉換至 Bibframe 系統，並用在新 OPAC 上，看是否可行。
- 將實驗結果公開發表

LD4L (Linked Data for Libraries) Project

- 參與機構: 康乃爾大學, 哈佛大學, 史坦福大學
- 由Mellon 基金會支持
- 建立一學術資源語意資訊儲存站 (SRIS – Scholarly Resource Semantic Information Store)
- 目的在以連結開放性資料收集屬於三機構之學術資源書目資料供大眾使用. 初始將三機構收集的 MARC 和 MODS 資料轉換至 BIBFRAME 資料模式.
- 三機構將共同發展一資源儲存站, 資源發現工具將是 Blacklight.
- Link: <https://wiki.duraspace.org/display/ld4l>

LibHub 計畫



- Zepheira 發起的計畫, 於2014年6月開始.
- 目標在收集, 轉換圖書館書目紀錄成連結性資料, 並出版在網路上. (需大量圖書館書目資料, 才能再網路上造成影響)
- 最終目的在使圖書館書目資料成為網路上可發現的資料. 即圖書館資源能使讀者從一般網路查得, 連結至圖書館線上目錄, 從而增加圖書館資源的使用.

LibHub 計畫過程



- 第一階段計畫
 - 收集參與圖書館 MARC 書目紀錄樣本
 - 鑑定樣本紀錄其在網路能見度基線
 - 將樣本紀錄轉換成 Zepheira's BIBFRAME 的資料模式
 - 將轉換後的Bibframe 書目資料出版在網路上
 - 與參與圖書館保持連繫並討論進度

LibHub 計畫過程



- 第一階段計畫 (Cont'd)

- 觀察轉換後的Bibframe 書目資料的經由網路搜尋結果的能見度
- 適當調整連結和出版策略
- 與各參與贊助機構合作根據實驗結果決定未來計畫方針，並使此實驗計畫進入正式工作流程

可能的未來經營模式：

若計畫成功，未來 Zepheira 可能酌量收服務費

書目框架的發展與 書目控制的未來

圖書館讀者服務

- 讀者服務應以讀者的方便為前提 (serve convenience of users)
- 圖書館編目最終目的：資源發現與使用 (discovery and use)
- 圖書館應致力於任何可增加圖書資源發現與使用的途徑
- 如何將書目資料在網路上出版並與其他相關資源連結是當前書目控制最重要的議題
- 圖書館應積極參與網路資源描述與傳播社群, 時時考慮並, 滿足讀者需求

對書目控制的心態

- 編目人員非僅止於建立高質量書目紀錄而已
- 書目紀錄的建立也應顧及讀者的方便,以讀者需求為前提
- 書目控制人員亦需致力書目資源的發現, 以增加書目資源使用率

重新思考書目控制

- 書目控制需要改變，包括：
 - 編目方式
 - 編目工具
 - 編目流程
 - 編目文化
- 但書目控制的改變應不包括
 - 書目描述的品質和精確性

重新思考書目控制

- 網路是多數使用者查詢資訊的第一選擇，應思考圖書館資源不出現在網路資源檢索結果內的影響
- 對圖書資源的利用，圖書館是否將逐漸邊緣化或失去相關性？(marginalized, lose relevance)
- 繼續固守傳統書目控制流程和價值觀是否明智？
- 如何做才能在參與網路社群之餘仍能保持我們的傳統價值和原則

重新思考書目控制

- 突破侷限狹隘傳統編目心態
 - ISBD 公共目錄顯示
 - ISBD 標點符號
- 需超越以書目紀錄為主的環境，進入書目資料的連結性資料世界，使資料易分散，組合，再利用 (record based → data based)
- 脫離尋求資料系統必需完美，不能容忍暇疵的心態
- 需顧及圖書館以外的其他可能的資料使用者的需求

外界對 BIBFRAME 的不確定感 (uncertainty)

- BIBFRAME 沒有完全採用 FRBR 架構
 - “表現形式”層次併入“作品”層次
 - 無法預測未來影響
- 無法預知傳統 MARC 書目資料是否能完全為 BIBFRAME 資料架構接受，且各MARC 資料元素是否均有對等的 BIBFRAME 元素可轉換而無資料漏失
- BIBFRAME 與權威控制
- BIBFRAME 如何與 RDA 一起使用
- Can we survive?

書目控制界應有的共識

- 書目控制界需建立共識，同意承認當前圖書館書目資料不為大眾所用的事實，MARC 資料結構問題
- 但在發展新資料模式時，前題是如何用科技使書目資料能達其最大使用價值，而非需全面性顧及傳統舊資料
- 預期書目資料系統的發展，轉換，將是混亂，困難，挫折重重，前景不明的冗長過程。無法預測每一步的發展的成敗
- 避免坐視靜觀其變 - 認為美國會圖書館或 Zepheira 或 OCLC 會將發展好的BIBFRAME模式送上門來供各界使用

書目控制界應有的共識

- BIBFRAME 的發展屬於革命性的改變 – 需要時間, 不斷的演進, 改善
- 需要各界參與和支持
- 只有參與進化過程, 貢獻意見, 協助發展, 才能建立各方能接受的書目資料系統, 共享成果

我們能做什麼？

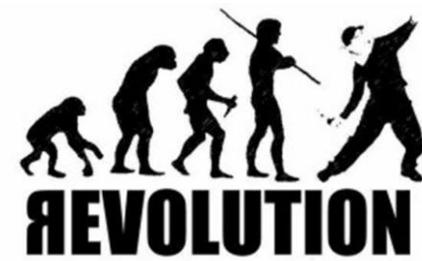
- 先了解書目控制需要解決的問題
 - MARC 的問題
 - 書目資料需要能在網路上被發現 (Discoverable)
 - 認識新資料模式發展的必要
 - 應用 RDF 架構, 使書目資料成連結性資料
 - 致力傳統資料能轉換至下一代資料模式
- 新的資料模式將持續漸進性改善以實現編目規範願景
- 重新思考現今網路環境和讀者需要, 持續改善編目規範以滿足讀者需求

我們能做什麼？

- 認識並瞭解書目框架計畫及模式, 包括:
 - 其目的
 - 發展過程
 - 測試細節及進展
- 接受 (Accept)
 - 其優點及 : 其發展過程中不盡如人意處 Its good and its bad
 - 有耐心的樂觀其成
- 若有可能, 參與測試 (Participate)
- 盡可能支持並協助推廣 (Support/Advocate)
 - 我們沒有選擇, 後無退路



謝謝！



這是革命性的改變，真真實實的在眼前發生

這也是進化的過程，會是一條長遠的路

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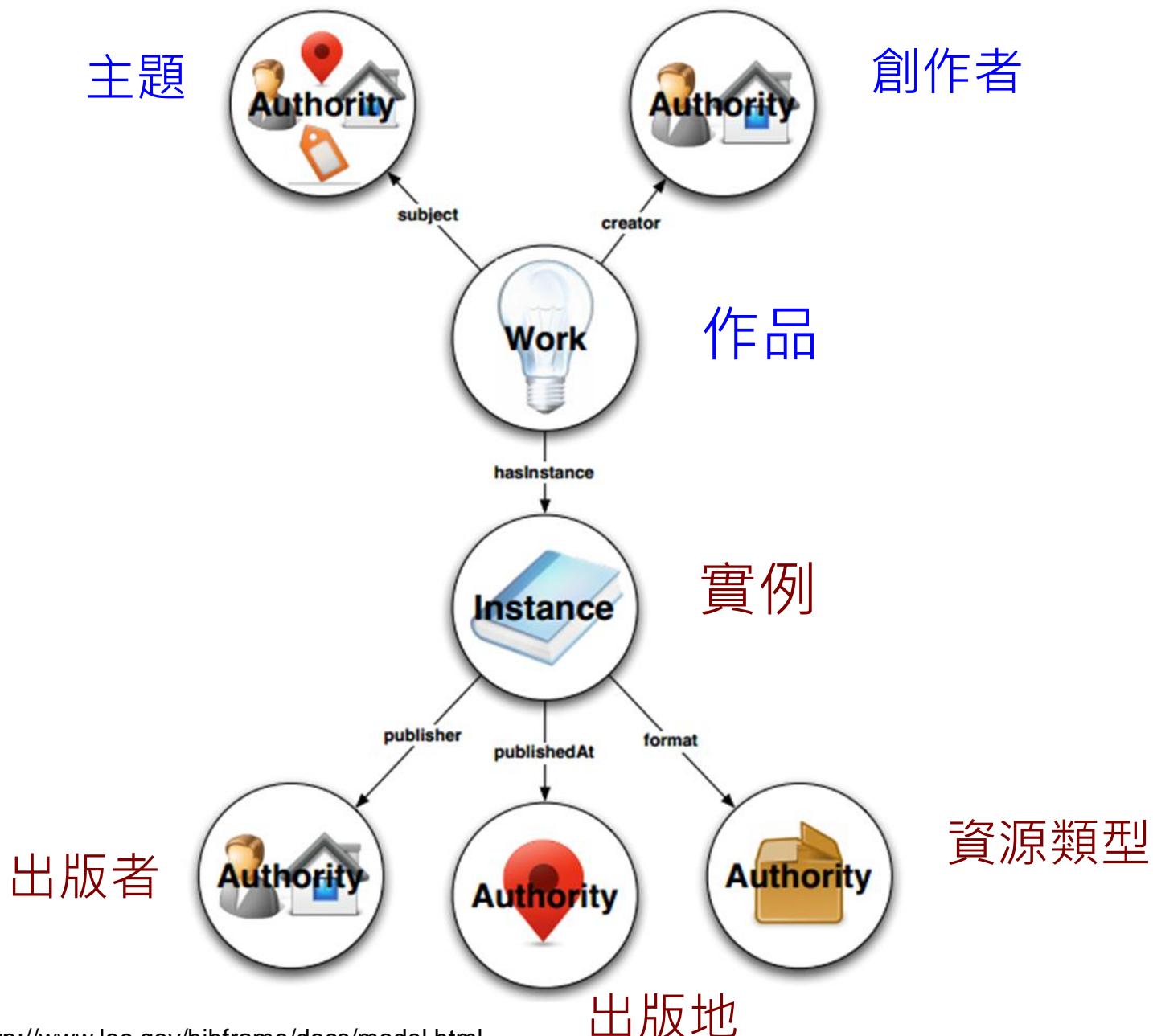
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BIBFRAME 2014年發表的文件

- BIBFRAME Authorities
- BIBFRAME Relationships
- BIBFRAME Profiles
- AV Modeling Study