

AACR2 & MARC 21

臺北醫學大學圖書館

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Why do we need to organize?

- We need to organize because we need to retrieve.
- Retrieval of information is dependent upon its having been organized.
- Organization of information also allow us to keep a usable record of human endeavors for posterity.

What is organization of recorded information?

- Identifying the existence of all types of information-bearing entities as they are made available
- Identifying the works contained within those information-bearing entities or as parts of them
- Systematically pulling together these information-bearing entities into collections in libraries, archives, museums, Internet communication files, and other such depositories.

What is organization of recorded information? –續

- Producing lists of these information-bearing entities prepared according to standard rules for citation.
- Providing name, title, subject, and other useful access to these information-bearing entities
- Providing the means of locating each information-bearing entity or a copy of it.

AACR 2

歷史

- 英美編目規則（Anglo-American Cataloging Rules）是全球最為普遍通行的編目規則。
- 英美編目規則的出現是因應合作編目的需求，所以英美兩國的編目委員會才感到規則統一的必要性。
- 1908年在美國圖書館學會（ALA）和英國圖書館學會（LA）的支持下發展出“Catalog Rules: Author and Title”，但二次大戰爆發後，造成編目規則推廣與合作之困難。

歷史

- 第一版的英美編目規則出版於1967年，主要是根據「巴黎原則（The Paris Principles）」而制定，美國卻因團體名稱的取法和巴黎原則相違，且深怕款目的改變造成大型圖書館卡片的混亂，因此第一版的英美編目規則有「北美本（North American Text）」和「不列顛本（British Text）」兩種版本。
- 1971年國際標準書目著錄（ISBD）出版、圖書館目錄自動化與國際書目控制理念之推展，造成1974年美國開始第一版英美編目規則的修訂。這次修訂結合英、美、加國代表組成Joint Steering Committee for Revision of AACR (JSC)，修正目標為合併北美本與不列顛本，並注意國際合作。1978年修訂出版英美編目規則第二版（AACR 2）。

歷史

- AACR 2出版後因線上編目的發展及國際交換書目記錄的頻繁，經過不少修訂，有1988年及1998年的二次修訂。
- 二次修訂中編目原則沒有改變，只是修正明顯的錯誤、改寫部分文字、更動規則順序、合併已修訂之修文等，但整體愈發朝國際標準化，也成了各國修訂編目規則之藍本。
- 目前，AACR的更新是由Joint Steering Committee for Revision of AACR主導。

歷史

- The rise of the internet and the increasing use and exchange of electronic resources have had a profound impact.
- User needs and expectations are also evolving rapidly

歷史

- International Conference on the Principles and Future Development of AACR (Toronto, 1997)
- Leeds, England (1998.11)
- Brisbane, Australia (1999.10)
- San Diego, USA (2000.03)
- London, England (2000.09)
- Washington, USA (2001,04)
- Ottawa, Canada (2001.10)

歷史

- Amendments 1999
- Amendments 2001
- Amendments 2002
 - AACR2 2002 revision
 - Presents a milestone in the publishing history of the code. It is being issued as an integrating resources, in loose-leaf format for updating.
 - Update to the rules will be released annually
 - This is in recognition of the fact that changes to the rules are occurring more frequently than in the past and are often substantial.

General Introduction

- AACR2 is designed for use in the construction of catalogues and other lists in general libraries of all sizes.
- AACR2 is not specially intended for specialist and archival libraries, but such libraries are recommended to use the rules as the basis of their cataloguing and to augment their provisions as necessary.

General Introduction

- AACR2 covers the description of, and the provision of access points for, all library materials commonly collected at the present time.
- The integrated structure of the text make the general rules usable as a basis for cataloguing uncommonly collected materials of all kinds and library materials yet unknown.

AACR2的故事

- Michael Gorman在1997年舉行的「AACR規則及未來發展」會議中提到，英美編目規則的特點在於根基於ISBD、適用於所有資料類型、以bibliographic item為著錄的依據、以work的角度來給檢索點。該規則的普遍使用讓世界各地的英文書目資料有了統一的內容。

AACR2的故事

- 目前AACR2已有十多種語言的譯本，世界上許多國家也參考AACR來制訂適用於本國資料的編目規則，因此其雖不能稱得上是國際標準，但卻是國際間最具影響力的編目規則。

AACR2的故事

- Fattahi以文獻分析的方法探討AACR和線上環境的關係，文中描述1970年代後期，圖書館界預期AACR2的出版，因此許多學者及編目專家對從卡片目錄轉換成線上目錄、以及如何將以人工編目為基礎的AACR應用到新的線上環境中之相關議題十分感興趣，當時舉行很多的研討會專門探討AACR未來發展的方向，並出版了不少的會議論文集。

AACR2的故事

- Gorman就主張把現有的作法直接自動化是致命的錯誤，在線上環境中應該重新思考記述編目的基礎。然而當1978年AACR2出版之後，許多編目專家就批評AACR2是象牙塔中的產物，1980年代初期的作者，如Malinconico、Ayres、Hagler、Musavi等人大多表達AACR2不能反應線上環境的負面意見，但他們對如何使AACR2更能和線上環境相容也提不出具體的對策。

AACR2的故事

- AACR2 1988r出版之後，一般的評論是它仍以處理卡片目錄為主要考量，沒有善加利用OPAC的可能性，其將所有形式的目錄以一樣的條文來處理，但線上目錄不論在結構、特性及能力方面都與卡片大不相同。Hagler更批評AACR2 1988r只關心資料的輸入，因此提出應該要有規則來規範線上目錄的呈現及形式。

AACR2未來發展方向

- Fattahi認為學者們多主張要修訂新版的編目規則，以反應科技及目錄媒體的發展
- Boll主張新的規則應包括兩部份，其一為編目的規範，其二為電腦設備的最低需要及操作標準
- Gorman在1992年時認為在未來的電子環境中，我們需要一套全新的規則，該規則應把MARC和編目規則整合成一個標準，用以規範線上目錄的內容及編碼，因此提出了HyperMARC的構想

AACR2未來發展方向

- Tillett主張新的規則中應有一個部份介紹建立圖書館目錄的基本原則及概念，並且強調建立書目關係網的重要性
- Brunt主張新的規則應以線上目錄的特性和能力為基礎，並強調其查詢及檢索的功能

AACR2未來發展方向

- 但部份學者認為AACR2將所有形式的目錄以一樣的條文來處理也很不錯，因為世界上仍有許多尚未自動化的圖書館需要這樣的編目規則

AACR2未來發展方向

- 有趣的是，雖然Gorman在1992年時認為AACR2不適用於未來的電子環境，但六年之後他卻發表了另一篇文章討論編目及編目員的未來，當中提到我們現有的編目規則只需稍做修改，即可用來描述電子文件，他認為記述編目的理論是一種通則，因此AACR2沒有理由不能用來編目電子資源。

AACR2未來發展方向

- 由此可以知道，雖然AACR2遭受到很多的批評，但對於如何修訂、或是需要一套全新的規則，在圖書資訊界中尚未有多數的共識，甚至同一位學者（Gorman）的立場也無法明確的定位。

Structure of AACR2

- Part I. Description (描述)
- Part II. Headings, Uniform Titles, and References (檢索點)
 - Main entry
 - Added entries
 - 說明: AACR2不採用 alternative heading entries (i.e. sets of equal entries for each item described)

Part I - Description

1. General rules for description
2. Books, Pamphlets, and Printed Sheets
3. Cartographic Materials
4. Manuscripts (including manuscript collections)
5. Music
6. Sound Recordings
7. Motion Pictures and Videorecordings

Part I - Description

8. Graphic Materials
9. Electronic Resources
10. Three-Dimensional Artefacts and Realia
11. Microforms
12. Continuing Resources
13. Analysis

Part II – Headings, Uniform titles, and References

21. Choice of Access Points

22. Headings for Persons

23. Geographic Names

24. Headings for Corporate Bodies

25. Uniform Titles

26. References

Appendix

- A: Capitalization
- B: Abbreviations
- C: Numerals
- D: Glossary
- E: Initial articles

定義 -- Chief source information

- The source of bibliographic data to be given preference as the source from which a bibliographic description is prepared.

定義 – Continuing resource

- A bibliographic resource that is issued over time with no predetermined conclusion. Continuing resources include serials and ongoing integrating resources.

定義 – Electronic resource

- Material (data and / or programs) encoded for manipulation by a computerized device. This material may require the use of a peripheral directly connected to a computerized device (e.g. CD-ROM drive) or a connection to a computer network (e.g. the Internet)

定義 – Integrating resource

- A bibliographic resource that is added to or changed by means of updates that do not remain discrete and are integrated into the whole. Integrating resources include updating loose-leafs and updating web sites.

定義 – Main entry

- The complete catalogue record of an item, presented in the form by which the entity is to be uniformly identified and cited.

定義 – Serial

- A continuing resource issued in a succession of discrete parts, usually bearing numbering, that has no predetermined conclusion. Examples of serial include journals, magazines, electronic journals, continuing directories, annual reports, newspapers, and monographic series.

定義 – Series

- 1. A group of separated items related to one another by the fact that each item bears, in addition to its own title proper. A collective title applying to the group as a whole. The individual items may or may not be numbered.
- 2. Each of two or more volumes of essays, lectures, articles, or other writing, similar in character and issued in sequence.
- 3. A separately numbered sequence of volumes within a series or serial.

定義 – Title page

- A page at the beginning of an item bearing the title proper and usually, though not necessarily, the statement of responsibility and the data relating to publication. The leaf bearing the title page is commonly called the “title page” although properly called the “title leaf”

定義 – Title proper

- The chief name of an item, including any alternative title but excluding parallel titles and other title information.

定義 – Uniform title

- 1. The particular title by which a work is to be identified for cataloguing purposes
- 2. the particular title used to distinguish the heading for a work from the heading for a different work.
- 3. A conventional collective title used to collocate publications of an author, composer, or corporate body containing several works

Chapter 1: General rules of description

- ISBD八大項
 - Title and statement of responsibility area
 - Edition area
 - Material (or type of publication) specific details area
 - Publication, distribution, etc., area
 - Physical description area
 - Series area
 - Note area
 - Standard number and terms of availability area

Chapter 1: General rules of description

- 1.0C. Punctuation
- 1.0D. Levels of detail in the description
 - First level of description
 - Second level of description
 - Third level of description (all)
 - 説明: minimum set of element

Chapter 9: Electronic resources

- 9.0A1.
 - For cataloguing purposes, electronic resources may be treated in one of two ways depending on whether access is direct (local) or remote (networked)
 - Direct access is understood to mean that a physical carrier can be described
 - Remote access is understood to mean that no physical carrier can be handled. (can only be provided by use of an input-output device, either connected to a computer system, or by use of resources stored in a hard disk or other storage device)

Chapter 12: Continuing resources

- 12.0A1.
 - These rules focus on the continuing nature of serials and integrating resources and are applied in conjunction with rules in other chapters of part I.
 - For example, in describing an electronic journal, consult chapter 9 for rules specifically applying to the electronic aspects of the journals and chapter 12 for the continuing aspects.

Chapter 13: Analysis

- Analysis is the process of preparing a bibliographic record that describes a part or parts of an item for which a comprehensive entry might be made.
- This chapter offer various ways of archiving analysis
- Cataloguing agencies have their own **policies** affecting analysis; in particular, a policy predetermining the creation of separate bibliographic records may override any other consideration.

Chapter 13: Analysis

- 13.2. Analytical added entries
- 13.3 Analysis of monographic series and multipart monographs
- 13.4 Note area
- 13.5 “In” analysis
- 13.6 Multilevel description

Part II.

- 20.1 When a standard description for an item has been established according to the rules in Part I, add headings and / or uniform titles to that description to create catalogue entries.
- The only exception is when an entry is made under title proper, in which case the entry may be made under the first words of the description.

Part II.

- The rules in part II deal with the **choice** of access points for main and added entries (chapter 21), with the form of name headings and uniform titles (chapters 22-25: **Form**), and references (chapter 26)
- The rules in part II apply to **works** and not to physical manifestations of those works
- The rules in part II apply to **all library materials**

Chapter 21 : Choice of Access Points

(篇幅有70頁之長)

- 21.0 introductory rules (**main entry**)
- 21.1 general rule (**author**)
- 21.2 changes in titles proper
- 21.3 changes of persons or bodies responsible for a work
- 21.4 works for which a single person or corporate body is responsible

Chapter 21 : Choice of Access Points

- 21.5 works of unknown or uncertain authorship or by unnamed groups
- 21.6 works of shared responsibility
- 21.7 collections of works by different persons or bodies
- 21.8 works of mixed responsibility

Chapter 21 : Choice of Access Points

Works that are modifications of other works

- 21.9 general rules

Modifications of texts

- 21.10 adaptations of texts
- 21.11 illustrated texts
- 21.12 revisions of texts
- 21.13 texts published with commentary
- 21.14 translations

Chapter 21 : Choice of Access Points

- 21.15 texts published with biographical / critical material

Art works

- 21.16 adaptations of art works
- 21.17 reproductions of two or more art works

Musical works

- 21.18 general rules
- 21.19 musical works that include words

Chapter 21 : Choice of Access Points

- 21.20 musical settings for ballets, etc.
- 21.21 added accompaniments, etc.
- 21.22 liturgical music

Sound recordings

- 21.23 sound recordings

Mixed responsibility in new works

- 21.24 collaboration between artist and writer
- 21.25 reports of interviews of exchanges

Chapter 21 : Choice of Access Points

- 21.26 spirit communications
- 21.27 academic disputations

Related works

- 21.28 related works

Added entries

- 21.29 general rule
- 21.30 specific rules

Chapter 21 : Choice of Access Points

Special Rules

Certain legal publications

- 21.31 laws, etc.
- 21.32 administrative regulations, etc.
- 21.33 constitutions, charters, and other fundamental laws
- 21.34 court rules
- 21.35 treaties, intergovernmental agreements, etc.

Chapter 21 : Choice of Access Points

- 21.36 court decisions, cases, etc.

Certain religious publications

- 21.37 sacred scriptures
- 21.38 theological creeds, confessions of faith, etc.
- 21.39 liturgical works

Chapter 25 : Uniform titles

(篇幅有58頁之長)

- Purposes:
 - For bringing together all catalogue entries for a work when various manifestations of it have appeared under various titles
 - For identifying a work when the title by which it is known differs from the title proper of the item being catalogues
 - For differentiating between two or more works published under identical titles proper
 - For organizing the file

Chapter 25 : Uniform titles

- 25.1 use of uniform titles
- 25.2 general rules

Individual titles

- 25.3 works created after 1500
- 25.4 works created before 1500
- 25.5 additions
- 25.6 parts of a work
- 25.7 two works issued together

Chapter 25 : Uniform titles

Collective titles

- 25.8 complete works
- 25.9 selections
- 25.10 works in a single form
- 25.11 translations, etc.
- 25.12 uniform titles for cycles and for stories with many versions

Chapter 25 : Uniform titles

Special rules for certain types of work

- 25.13 manuscripts and manuscript groups
- 25.14 incunabula

Laws, Treaties, etc.

- 25.15 laws, etc
- 25.16 treaties, etc.

Chapter 25 : Uniform titles

Sacred scriptures

- 25.17 general rules
- 25.18 parts of sacred scriptures and additions
 - 25.18A Bible
 - 25.18B Talmud
 - 25.28C Mishnah and Tosefta
 - 25.28D References for the Talmus, Mishnah, and Tosefta

Chapter 25 : Uniform titles

- 25.18E Midrashim
- 25.18F Buddhist scriptures
- 25.18G Vedas
- 25.18H Aranyakas, Brahmanas, Upanishads
- 25.18J Jaina Agama
- 25.18K Avesta
- 25.18L References for Vedas, Aranyakas, Brahmanas, Upanishads, Jaina Agama, and Avesta
- 25.28M Koran

Chapter 25 : Uniform titles

Liturgical works, theological creeds, confessions of faith, etc.

25.19 general rules

25.20 Catholic liturgical works

25.21 Jewish liturgical works

25.22 variant and special texts

25.23 parts of liturgical works

Chapter 25 : Uniform titles

Official papal communications, etc.

- 25.24 official communications of the pope and the roman curia

Music

- 25.25 general rules

Individual titles

- 25.26 general rules
- 25.27 selection of title

Chapter 25 : Uniform titles

- 25.28 isolation of initial title element
- 25.29 formulation of initial title element
- 25.30 additions to initial title elements
consisting of the name (s) of one or more type
(s) of composition
- 25.31 additions to other initial title elements
- 25.32 parts of a work
- 25.33 two works issued together

Chapter 25 : Uniform titles

Collective titles

- 25.34 collective titles

Additions

- 25.35 additions to uniform titles for music

Chapter 26 : References

- See references
- See also references
- Name-title references
- Explanatory refernces

AACR2的修訂

- 目前JSC負責AACR2規則修訂的整個持續過程。
- 由於AACR是國際性編目規則，有美國、英國、加拿大及澳大利亞四國的參與。各國的修訂建議必須先經過JSC所屬國家會員團體討論通過。
- 例如澳大利亞為澳大利亞編目委員會，加拿大是加拿大編目委員會，英國是英國圖書館協會及英國國家圖書館，在美國則為美國圖書館協會之圖書館館藏與技術服務協會（Association for Library Collections & Technical Services，簡稱ALCTS）的編目委員會（Committee on Cataloging）負責。
- 至於來自這四國以外的修訂建議則逕送JSC主席處理。

The Joint Steering Committee (JSC)

- The JSC is responsible for reviewing the need for revisions and consolidations of AACR, preparing the text of any such revisions, and advising the Principals and the AACR Fund Committee on programs and activities appropriate for the receipt of financial support from the AACR Fund. The Joint Steering Committee is the authority for providing updates to the Rules. It comprises six members, one each appointed by the following organizations:
 - The American Library Association
 - The British Library
 - The Canadian Committee on Cataloguing (Association pour l'avancement des sciences et des techniques de la documentation, The Canadian Library Association, Library and Archives Canada)
 - The Chartered Institute of Library and Information Professionals
 - The Australian Committee on Cataloguing (The Australian Library and Information Association, The National Library of Australia)
 - The Library of Congress

AACR2的修訂

- 1999年3月，在溫哥華舉行的北美藝術圖書館協會27次年會（Art Libraries Society of North America 27th Annual Conference, Vancouver, BC）中，Michael Gorman針對AACR的未來談到有關修訂的意見。
- Gorman 並未推薦新版為AACR3，不過他建議未來的AACR不要包含樂譜或聖經等特別的規則，規則內容不必對一般的編目員太詳細、對專門的編目員卻又不夠，對於特殊資料的編目，建議編印手冊以迎合需要。對於非出版品，建議有更合適的處理方式。對於新資訊媒體，尤其是遠距查取的電子資源，建議引介新的及修訂的規則章節。建議要為新資訊媒體、特別是電子媒體的查檢議題作進一步的研究。

AACR2的修訂

- Gorman建議檢視規則的第二部分與權威記錄的概念及主要款目的議題。對於微縮資料編目與規則文字及精神所產生的矛盾，建議尋求解決之道。在規則範例方面，他建議刪去無關的範例，增加為新媒體而設的範例。
- 對於時下流行的metadata，Gorman批評非來自圖書館員的Dublin core，和有權威控制的MARC記錄無法相比。他估計約有90%以上的電子資源是無用、或用處極其有限。他認為編目並不困難，所以館員的問題不是如何編目，而是如何區辨哪些資源該要編目。此外、電子資源如何典藏以為後代子孫使用，也是重要議題。

AACR2的修訂

- 編目政策及支援部（Cataloging Policy and Support Office，簡稱CPSO）是代表美國國會圖書館參與JSC AACR的單位。CPSO主管Tillett指出英美編目規則修訂在未來的工作要點如下：
 - 主要及附加款目：不管AACR未來是否保留主要款目及附加款目，檢索點是達成目錄目標的重要方法之一。
 - 編目指引：AACR將針對規則的目的、難題及原則編訂各種相關指引。
 - 國際標準書目著錄（ISBD）：AACR是否繼續符合ISBD、或擺脫ISBD的規定，都有待進一步評估。

AACR2的修訂

- 新的及各種資訊型式：AACR應該包括所有新的及各種資訊媒體。
- URL與權威記錄：AACR將評估權威記錄是否包括URL。
- 連續性(seriality)：為了配合資源的連續性，AACR需要有所改變。
- 減少替代性規則(alternative rules)：AACR將評估是否需要減少替代性規則。
- 劃一題名：AACR將評估是否需要使用劃一題名。

AACR2的修訂

- 特殊規則：AACR將評估特殊規則的必要性。
- 以卡片為基礎的用詞（card-based terminology）：AACR將於編目規則刪除卡片目錄的相關辭彙。
- GMD, SMD：AACR將檢視一般資料類型標示（GMD）及特殊資料類型標示（SMD）。
- 縮寫字（abbreviations）：AACR將研究減少使用節縮字樣的必要性。

AACR2的修訂

- 由於AACR特有的歷史背景，對於所有來自各方的修訂建議，JSC將考慮一些要點，包括如下：
 - 規則使用對象、主要為英語系地區的目錄使用者。
 - AACR2有意涵蓋所有圖書館資料。
 - 對AACR2的改變儘可能與相關國際標準取得一致，特別是ISBD及在其他使用AACR2圖書館界所應用的其他標準，並且與國際書目控制原則一致。
 - 評估對現有目錄及檔案所產生的潛在影響。
 - 考慮技術上的發展及未來的能力。

MARC 21

MARC的故事

- 1960年代初期，美加的一些學術圖書館對將書目資料轉成機讀格式這個議題很有興趣，其中 University of Illinois Chicago Library、Florida Atlantic University、Ontario New Universities Library Project 等研究，對1965年開始由LC主導的“機讀編目格式先導計畫”（MARC Pilot Project）有深遠的影響。
- MARC I為該計畫的成果，但從來沒有真正的被使用。

MARC的故事

- 1968年公布的MACRII也稱為LCMARC 或 USMARC，其在1970年時通過ANSI的認可成為國家標準。
- 在同一時期，英國國家書目中心（British National Bibliography，簡稱BNB）參與 MARCI與MARCII的制定之餘，在英國也開始了UK/MARC的先導計畫。

MARC的故事

- 一個1993-1994年間進行的問卷，調查世界各國的國家圖書館所採用的MARC格式，由70多份回覆中發現UNIMARC和USMARC的使用率最高，作者認為以USMARC格式編目的書目資料普遍可及和“歐洲國家圖書館計畫”以UNIMARC格式將歐洲的書目資料燒在光碟上傳佈，是促進這兩種MARC受各國國家圖書館普遍採用的原因之一。

MARC的種類

- Kokabi的研究與上述的調查相當吻合，他分析17種MARC格式之歷史、根源、修訂原因、及技術特性，以期了解MARC國際化的情況。
 - **USMARC**
 - **UKMARC**
 - **UNIMARC**
 - 另外也介紹德國及前蘇聯的另一體系之機讀編目格式（分別是MAB和MEKOF）

MARC的種類

- 之所以會有這麼多種MARC格式，主要是因為各國的語言文字、文化習慣、使用的編目規則、及編目實務不同所造成。然而隨著國際間書目交換活動越來越頻繁，使用不同MARC格式的圖書館需要投注大量的經費和人力去開發及維護多個轉換程式，因此興起了遵循同一國際標準來交換書目資料的念頭，所以產生了UNIMARC。

MARC的種類

- UNIMARC具有由多國代表一起討論、以ISBD為依據、獨立於特定的編目規則、可處理多種語言、通用於各種資料類型、穩定性高且變動不大、可與索摘的交換格式連結、可做為圖書館內部使用的書目格式等優點，因此成為國際間普遍接受用來做書目資料交換的MARC格式。

MARC的種類

- IFLA的UBCIM在1998年做了調查，發現世界上有51個國家圖書館（或具國圖地位的大型學術圖書館），以及17個書目中心有使用UNIMARC，另外有10個國家圖書館雖然目前尚未使用UNIMARC，但宣稱計畫在三年之內採用。

MARC的使用

- 值得注意的是，雖然MARC在各國的國家圖書館及學術圖書館中已被普遍使用，但即使是在MARC有三十多年歷史的美國，仍有許多學校圖書館到1990年代才開始自動化，才以MARC格式來編目。關於這點，從Durand特別為學校圖書館員／媒體專家所寫的MARC概說及Know-how性質的文章即可得知。

MARC的缺點

- 一般對MARC的批評是，雖然其是促進圖書館自動化的功臣，也是國際間圖書館交換書目資料的格式，但它是建立在卡片目錄電腦化的基礎之上，其結構老舊、欄位重複，無法和現今的資料庫技術做很好的結合，且不能完善地表現出書目記錄之間的關係。因此認為其與今日的線上環境有衝突及不相容的地方，已不適用。Gorman甚至主張放棄現有的MARC和編目規則，而將資料的著錄及編碼整合成一個全新的標準。

MARC尚無法功成身退

- Kokabi認為MARC有廣大的使用群、有專責的維護機構、有專門的電子論壇、在專業期刊中有專欄、在專業文獻中大量出現，在在都顯示其仍舊蓬勃發展。

MARC尚無法功成身退

- Hopkinson更提出早在1985年就有人認為MARC太老舊、即將被取代，但之後使用MARC的圖書館反而越來越多，這是因為MARC是被需要的，所以它被普遍使用。
- Hopkinson認為MARC雖然不適用於在網際網路WWW上傳輸，但它的角色和處理對象與Dublin Core不同，因此MARC和SGML、Dublin Core等新興的metadata之間不是相互衝突、而是互補的，可以共同為組織整理書目世界的資源而服務。

MARC 21

- 因深刻感受到不同MARC在資料交換轉檔上的麻煩，美國、加拿大及英國從1994年12月開始，就積極推動MARC Harmonisation，這三個英語資料的主要出版國希望處理英文資料的MARC能夠相容，最終並能夠相同。
- 目前CANMARC和USMARC已完全整合，並在1999年改名為MARC21，以迎向二十一世紀。

MARC 21

- MARC 21 由MARBI及MARC Advisory Committee兩個團體負責檢討及修正相關條文，並於每年ALA會議討論MARC的新發展
- MARC 21這個名詞代表凡我們已經進入21世紀，是因應網路時代各種媒介所產生的一種新資料格式

MARC 21

- MARC 21形成不久，大英圖書館也在獲得英國圖書館界的支持後，在2001年8月宣佈全面採用MARC 21

MARC 21結構

- MARC 21的主要結構仍和US MARC一樣，其內容也承襲原US MARC已發展出來的資料類型，分為五大類機讀格式
 - 書目格式(bibliographic format)
 - 權威格式(authority format)
 - 分類格式(classification format)
 - 館藏格式(holding format)
 - 區域共同格式(community information format)

MARC 21 書目格式

- 包含描述，檢索和控制各種書目格式，是一個定義不同書目格式的整合格式
- MARC 21 定義了圖書，連續性出版品，電子資源，地圖，音樂資源，視覺資源和混合性資源
- 這樣的整合型分離式書目格式，其一致性的定義和使用可以充分描述各種不同資源格式的原貌

http://www.loc.gov/marc/

MARC STANDARDS - Microsoft Internet Explorer

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網址(D) <http://www.loc.gov/marc/> 移至 連結

[The Library of Congress](#) >> [Especially for Librarians and Archivists](#) >> [Standards](#)



MARC 21

MARC Formats

- [Bibliographic Authority](#)
- [Holdings](#)
- [Classification](#)
- [Community](#)
- [Translations](#)

MARC LITE

- [Bibliographic](#)

MARC Code Lists

- [Country](#)
- [GACs](#)
- [Languages](#)
- [Organizations](#)
- [Relators](#)
- [Sources](#)

MARC Specs.

- [Record Structure](#)
- [Character Sets](#)
- [Exchange Media](#)

MARC STANDARDS

Library of Congress - Network Development and MARC Standards Office

The MARC formats are standards for the representation and communication of bibliographic and related information in machine-readable form.

[\[MARC en ESPAÑOL\]](#)

[Understanding MARC Bibliographic](#) -- a brief description and tutorial

[Understanding MARC Authority](#) -- a brief description and tutorial

<p>General Information</p> <ul style="list-style-type: none">Introductory MARC InformationNews & AnnouncementsMARC FAQMARC Forum (listserv)Unicode-MARC ForumRecommended Reading	<p>MARC Formats</p> <ul style="list-style-type: none">Formats and Code ListsFormat StatusOrdering InformationNational Level RequirementsMARC MappingsMARC User Notes	<p>MARC in XML</p> <ul style="list-style-type: none">MARXMLMODSMADS <p>MARC and FRBR</p> <ul style="list-style-type: none">FRBR Display Tool
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<p>MARC Development</p> <ul style="list-style-type: none">OverviewMARC ProposalsMARC Discussion PapersMARC Change FormBIC Bibliographic Standards GroupCanadian Committee on MARCMARC Advisory Committee	<p>MARC Records, Systems and Tools</p> <ul style="list-style-type: none">MARC Record ServicesMARC SystemsMARC Specialized Tools
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http://www.loc.gov/marc/umb/

Understanding MARC Bibliographic: Machine-Readable Cataloging - Microsoft Internet Explorer

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**Understanding MARC Bibliographic:
Machine-Readable Cataloging**

Written by Betty Furrie in conjunction with the
Data Base Development Department of The
Follett Software Company

Seventh edition reviewed and edited by the
Network Development and MARC Standards
Office, Library of Congress

Published by the Cataloging Distribution
Service, Library of Congress, in collaboration
with The Follett Software Company

**UNDERSTANDING
MARC
BIBLIOGRAPHIC:
MACHINE-READABLE
CATALOGING**

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What is a MARC Record, and Why is it
Important?

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MARC 21 Reference Materials -- Parts XI to XII

- Part XI: A Sample Record in Various

從網站開始下載: <http://library.tmu.edu.tw/>

網際網路

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自行印講義
共16頁

Company
1391 Corporate Drive
McHenry, IL 60050
1-800-3...

Service
Customer Service Section
Washington, DC 20541-4912
1-800-2...

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Understanding MARC Bibliographic was a copyrighted work originally published by the Follett Software Co. in 1988. Other previous editions are the following: second edition, 1989; third edition, 1990; fourth edition, 1994; fifth edition, 1998; sixth edition, 2000.

MARC 21 Content Designators: A Review

List of Translations
for *Understanding MARC Bibliographic*

Typography Notes & Credits for Web Edition

Go to:

[MARC Home Page](#)
[Library of Congress Home Page](#)



Library of Congress
Library of Congress Help Desk (06/12/2003)

MARC 21 機讀格式

The example below, a sample data entry screen, is tagged.

Sample Local System Record

If a librarian uploaded this record into a library automation system the data entry screen might look like this. The descriptors in the left-hand column are not stored in a MARC record. They are part of the software program's screen display. Most systems are designed so that records can be edited to add additional fields containing local information.

```
Leader          01041cam 2200265 a 4500
Control No.    001 ###89048230
Control No. ID 003 DLC
DITL          005 19911106082810.9
Fixed Data    008 891101s1990 maua j 001 0 eng
LCCN          010 ## $a ###89048230
ISBN          020 ## $a 0316107514 :
              $c $12.95
ISBN          020 ## $a 0316107506 (pbk.) :
              $c $5.95 ($6.95 Can.)
Cat. Source   040 ## $a DLC
              $c DLC
              $d DLC
LC Call No.   050 00 $a GV943.25
              $b .B74 1990
Dewey No.     082 00 $a 796.334/2
              $2 20
ME:Pers Name  100 1# $a Brenner, Richard J.,
              $d 1941-
Title         245 10 $a Make the team.
              $p Soccer :
              $b a heads up guide to super soccer! /
              $c Richard J. Brenner.
Variant Title 246 30 $a Heads up guide to super soccer
Edition       250 ## $a 1st ed.
Publication   260 ## $a Boston :
              $b Little, Brown,
```

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MARC 21 機讀格式

Understanding MARC Bibliographic: Parts 11 to 12 - Microsoft Internet Explorer

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http://www.loc.gov/marc/umb/uml1to12.html

The example below, a sample data entry screen, is tagged.

Sample Local System Record

If a librarian uploaded this record into a library automation system the data entry screen might look like this. The descriptors in the left-hand column are not stored in a MARC record. They are part of the software program's screen display. Most systems are designed so that records can be edited to add additional fields containing local information.

Leader	01041cam 2200265 a 4500
Control No.	001 ##89048230
Control No. ID	003 DLC
DTLT	005 19911106082810.9
Fixed Data	008 891101s1990 maua j 001 0 eng
LCCN	010 ## \$a ##89048230
ISBN	020 ## \$a 0316107514 : \$c \$12.95
ISBN	020 ## \$a 0316107506 (pbk.) : \$c \$5.95 (\$6.95 Can.)
Cat. Source	040 ## \$a DLC \$c DLC \$d DLC
LC Call No.	050 00 \$a GV943.25 \$b .B74 1990
Dewey No.	082 00 \$a 796.334/2 \$2 20
ME:Pers Name	100 1# \$a Brenner, Richard J., \$d 1941-
Title	245 10 \$a Make the team. \$p Soccer : \$b a heads up guide to super soccer! / \$c Richard J. Brenner.
Variant Title	246 30 \$a Heads up guide to super soccer
Edition	250 ## \$a 1st ed.
Publication	260 ## \$a Boston : \$b Little, Brown,

Tags →

完成 開始 Understanding MARC... Microsoft PowerPoint... 網際網路 上午 10:04

MARC 21在WebPAC上的呈現

Understanding MARC Bibliographic: Parts 11 to 12 - Microsoft Internet Explorer

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網址(D) <http://www.loc.gov/marc/umb/um11to12.html> 移至 連結

Sample of a brief record display as seen by a patron:

TITLE : Make the team. Soccer : a heads up guide to super soccer! /
Richard J. Brenner.
AUTHOR : Brenner, Richard J.
PUBLISHED : Little, Brown, c1990.
MATERIAL : 127 p.
Copies
Available : GV943.25 .B74 1990

Sample of a full record display as seen by a patron:

TITLE : Make the team. Soccer : a heads up guide to super soccer! /
Richard J. Brenner.
ADDED
TITLE : Heads up guide to super soccer
AUTHOR : Brenner, Richard J., 1941-
PUBLISHED : 1st ed. Boston : Little, Brown, c1990.
MATERIAL : 127 p. : ill. ; 19 cm.
NOTE : "A Sports illustrated for kids book."
NOTE : Instructions for improving soccer skills. Discusses dribbling,
heading, playmaking, defense, conditioning, mental attitude, how
to handle problems with coaches, parents, and other players, and
the history of soccer.
SUBJECT : Soccer--Juvenile literature.
Soccer.
Copies
Available : GV943.25 .B74 1990

Sample of a catalog card:

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TMUL WebPAC

Taipei Medical University - Microsoft Internet Explorer

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網址(D) http://elis.tmu.edu.tw:2082/search/tbreast+cancer/tbreast+cancer/1%2C23%2C31%2CB/frameset&FF=tbreast+cancer+its+impact+on+the+patient+family+and+community+proceedir

TITLE breast cancer System Sorted Search

Record: [Prev](#) [Next](#)

Conference [San Francisco Cancer Symposium, 1975.](#)

Title **Breast cancer : its impact on the patient, family, and community : proceedings of the 11th annual San Francisco Cancer Symposium, San Francisco, Calif., November 14-15, 1975 / editor, Jerome M. Vaeth.**

Publication info. Basel ; New York : S. Karger, 1976.

Location	Call No.	Barcode	Status
Main Library	WPS70 BS2Si 1976	E0074929	報廢審核中

Description 214 p. : ill. ; 25 cm.

Series (lc) [Frontiers of radiation therapy and oncology ; v. 11](#)

Bibliography Includes bibliographies.

Subject [Breast -- Cancer](#)
[Breast -- Cancer -- Psychological aspects](#)
[Breast -- Cancer -- Social aspects](#)
[Breast Neoplasms](#)
[Socioeconomic Factors](#)
[Mama](#)

Added author [Vaeth, Jerome M., 1925-](#)

ISBN 3805523408 : 88.00F (

Record: [Prev](#) [Next](#)

重新檢索 Start Over 預約標記 Reserve 儲存標記 Save Records MARC格式 MARC Display 瀏覽清單 Return to List Another Search

開始 Microsoft PowerPoint... 北醫圖書館-館藏查... Taipei Medical Univer... 網際網路 上午 10:13

MARC 21機讀格式

Taipei Medical University - Microsoft Internet Explorer

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網址(D) <http://elis.tmu.edu.tw:2082/search/tbreast+cancer/tbreast+cancer/1%2C23%2C31%2CB/marc&FF=tbreast+cancer+its+impact+on+the+patient+family+and+community+proceedings+> 移至 連結

```
LEADER 00000nam0 2200349 450
001 00021641
003 OCoLC
005 20020709095655.0
008 770421s1976 sz a b 100 0 eng
010 77353544
015 Sw***
020 3805523408 :|c88.00F (
040 DLC|cDLC|dNLM|dUBA|dOCL|dOCLCQ
050 00 RC280.B8|bS26 1975
060 00 W3|bFR935 v.11 1975
060 10 WP 870|bS196 1975b
060 14 QZ 269|bF7 v.11 1975
082 00 616 .9/94/49
111 San Francisco Cancer Symposium,|d1975.
245 10 Breast cancer :|bits impact on the patient, family, and
community : proceedings of the 11th annual San Francisco
Cancer Symposium, San Francisco, Calif., November 14-15,
1975 /|ceditor, Jerome M. Vaeth.
260 Basel ;|aNNew York :|bS. Karger,|c1976.
300 214 p. :|bill. ;|c25 cm.
490 1 Frontiers of radiation therapy and oncology ;|vv. 11
504 Includes bibliographies.
650 Breast|xCancer
650 Breast|xCancer|xPsychological aspects
650 Breast|xCancer|xSocial aspects
650 Breast Neoplasms
650 Socioeconomic Factors
650 7 Mama
686 WP870|bB828i
700 Vaeth, Jerome M.,|d1925-
```

Location	Call No.	Barcode	Status
Main Library	WP870 B828i 1976	E0074929	報廢審核中

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C MARC機讀格式

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http://elis.tmu.edu.tw:2082/search/t(21304b){214c6f}/M08{21304b}17{214c6f}/1%2C15%2C16%2CB/marc&FF=M08{21304b}17{214c6f}04{213448}16{213a60}08{214734}17

臺北醫學大學圖書館 ELIS 書目查詢系統
Taipei Medical University Library Electronic Library Information System

回圖書館首頁 使用手冊 常見問題

重新檢索 Start Over 一般格式顯示 Regular Display 瀏覽清單 Return to List Limit/Sort Search Another Search (Search History)

```
LEADER 00000nam0 2200241 450
001 tmuc0167730
010 0 |b精裝
100 20041122d2004 k y0chiy09 e
101 0 chi
102 tw
105 ak z 000yy
200 1 乳癌化學治療相關嚴重毒性反應預測性評分表之建立 |dA Model
to Forecast Chemotherapy Related Severe Toxicities in
Breast Cancer Patients. |f吳淑英著 |g陳繼明,陳香吟教授指導
210 臺北市|c同著者|d2004[民93]
215 0 129面|c部分圖|d30公分
300 指導教授:陳繼明博士, 陳香吟
328 碩士論文 -- 臺北醫學大學藥學研究所
510 A Model to Forecast Chemotherapy Related Severe Toxicities
in Breast Cancer Patients.
681 |pT|a418|b2634
700 1 吳|b淑英
702 1 陳|b香吟
702 1 陳|b繼明
801 0 tw|bTMU|c20060522|gCCR|m4
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Location	Call No.	Barcode	Status
3F Ref Desk	T 418 2634	C0167730	限館內閱覽

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Q& A?

tzchiu@tmu.edu.tw