

# INTRODUCTION OF MARC

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# WHAT IS MARC ?

- A MARC is a **MA**chine **R**eadable **C**ataloguing.
- It means that a computer can read and interpret the data of a cataloguing record.
- It is a standard used for the exchange of bibliographic information among computerized library systems.



# WHY IS IT NECESSARY ?

The purpose of MARC is to provide a standard format for the global exchange of bibliographic information available in machine readable format in the libraries worldwide.

# HISTORY OF MARC

- MARC has a standing of around 40 years.
- Library of Congress, Washington, DC was the first to produce MARC records in October 1966.
- The British Library, UK in 1969 started with the UKMARC.
- Similar initiatives were taken up by the national Libraries of France, Germany, Canada and Australia and they devised separate MARC formats. According to a survey report conducted by IFLA in 1990, there were 60 countries worldwide using bibliographic formats based on MARC e.g. CANMARC (Canada), AUSMARC(Australia), UKMARC(Great Britain), INTERMARC(France), etc.



# MARC 21

- MARC 21 is the new name of the harmonized CANMARC and USMARC formats.
- The National Library of Canada and Library of Congress worked together to formulate a common harmonized format and reconcile the format differences.

# STANDARDS USED FOR CREATING MARC RECORD

- Cataloguing Code - AACR-II
- Subject Heading - LCSH, MESH, INSPEC, any standard thesaurus
- Classification Scheme - DDC



# FAMILIAR TERMS

1. Fields
2. Subfields
3. Indicators
4. Content Designators

# A FIELD

- The bibliographic data of a catalogued item has been divided logically into fields.
- We have a field for an author, a field for the title, a field for the publication, etc.
  - These fields are further subdivided into subfields which contains the related piece of data of the field.
- There is a need to use the mnemonics for a particular field, since the textual names of the fields are too long to be reproduced in the MARC Record.
- These respective fields are represented by a 3 digit code called “tags” which are unique. No two fields can have the same tag code.
  - A tag is always a 3 digit code, e.g. tag 100 represents a personal name main entry and tag 020 represents ISBN field.



# A SUBFIELD

- A Field is subdivided into subfields.
  - Each type of data within the field is called a subfield and each subfield is preceded by a subfield code.
  - The subfield code is essential as it allows the better identification and not arrangement.
- The order of the subfield is specified by content standards ,e.g. cataloguing rules.
- The subfield codes are one lower-case letter preceded by a delimiter and defined independently of each field. The delimiter as the name indicates, “delimits” one data element from another. The different subfield delimiters that are being used are : @, #, \$ etc. for example the field 300 in the MARC format includes \$a for the extent, \$b for other physical details and \$c for dimension. Here a, b, c are the subfield codes and \$ is the delimiter which is being used.

# INDICATORS

- The indicators are the two spaces which is a number from 0 to 9.
- There are only two indicators in a field and not all the field have indicators.

# CONTENT DESIGNATORS

A content designators is a collective term used refer to the tags, subfields codes and indicators



# FIELD STRUCTURE

- Fixed Fields
- Variable Fields

# FIXED FIELDS

- The Fixed Fields, the length of the fields are restricted
- It is 40 characters contains important information
- The Purpose of the fixed fields is to provide some basic information and codes about the bibliographic description, e.g.
- Date, Country of Publication, illustrations, nature of contents, government publication, Conference publication, etc

# VARIOUS FIXED FIELDS

- 00-05 Date entered on file (YYMMDD)
- 06 Type of date /publication status
  - b = no dates given ; B.C date involved
  - e = detailed date
  - s = single known date/probable date
  - m = multiple dates
  - r = reprint/reissue date (Date 1) and original date (Date20)
  - n = dates unknown
  - q = questionable date
  - t = publication date and copyright date
  - | = no attempt to code

# VARIOUS FIXED FIELDS ...

07-10 Date 1/beginning date of publication.

11-14 Date 2/ending date of publication.

15-17 Place of Publication, production, or execution for example :

ii = India

cau = California (US)

# VARIOUS FIXED FIELDS ...

18-21 Illustration (up to \$ codes) :

# = no publication

a = illustrations

b = maps

c = portraits

d = charts

e = plans

f = plates

g = music

h = facsimiles

i = coats of arms

j = genealogical tables

k = forms

l = samples

m = phonodisc, phonowire, etc

o = photographs

p = illuminations

| = No attempt to code

# VARIOUS FIXED FIELDS ...

22 Target audience :

# = unknown or not specified

a = preschool

b = primary

c = elementary and junior high

d = secondary ( senior high )

e = adult

f = specialized

g = general

j = juvenile

| = No attempt to code



# VARIOUS FIXED FIELDS ...

23 Form of item :

# = none of the following

a = microfilm

b = microfiche

c = microopaque

d = large print

f = braille

r = regular print reproduction

s = electronic

| = No attempt to code

# VARIOUS FIXED FIELDS ...

24-27 Nature of contents ( up to 4) :

# = no specified nature of contents

a = abstracts/summaries

b = bibliographies ( is one of contains one)

c = catalogs

d = dictionaries

e = encyclopedias

f = handbooks

g = legal articles

l = indexes

j = patent document digests

k = discographies

l = legislation

m = theses

n = surveys of literature

o = reviews

p = programmed texts

q = filmographies

r = directories

s = statistics

t = technical reports

v = legal cases and notes

w = law reports and

z = treaties

| = No attempt to code

# VARIOUS FIXED FIELDS ...

- 28 Government publication :
- # = not a government publication
  - i = international intergovernmental
  - f = federal/national
  - a = autonomous or semi-autonomous component
  - s = state, provincial, territorial, dependent, etc
  - m = multistate
  - c = multilocal
  - l = local
  - z = other type of governmental publication
  - o = governmental publication -- level undertermined
  - u = unknown if item is government publication
  - | = No attempt to code

# VARIOUS FIXED FIELDS ...

- 29 Conference publication  
0 = not a conference publication  
1 = conference publication  
| = No attempt to code
- 30 Festschrift  
0 = not a Festschrift  
1 = Festschrift  
| = No attempt to code
- 31 Index  
0 = no index  
1 = index present  
| = No attempt to code
- 32 Undefined ( since 1990 ) ( Earlier records may contain the values 0 or 1)  
# = Undefined  
| = No attempt to code

# VARIOUS FIXED FIELDS ...

- 33 Literary form
- 0 = not fiction ( not further specified )
  - l = fiction (not further specified )
  - c = comic strips
  - d = drammas
  - e = novels
  - h = humor, satires, etc.
  - i = letters
  - j = short stories
  - m = mixed forms
  - p = poetry
  - s = speeches
  - u = unknown
  - | = No attempt

# VARIOUS FIXED FIELDS ...

## 34 Biography

# = no biographical material

a = autobiography

b = individual biography

c = collective biography

d = contains biographical information

## 35-37 Language:

A three- letter code for example: eng, fre,  
spa, rus, ita

# VARIOUS FIXED FIELDS ...

38 Modified record :

- # = not modified
- x = missing characters ( because of character unavailable in MARCcharacter set)
- s = shortened
- d = “dashed-on” information omitted
- r = completely romanized/printed cards in scripts
- o = completely romanized/printed cards romanized
- | = No attempt to code

39 Cataloging source :

- # = National Bibliographic Agency
- c = Cooperative cataloging Program
- d = other sources
- u = unknown
- | = No attempt



# VARIABLE FIELDS

As the name suggests, the fields belonging to the variable fields can be of variable field length



# VARIABLE FIELDS ...

The variable fields can be broadly divided into the following categories: i.e.

- 0xx - Control information number codes
- 1xx - Main Entry
- 2xx - Titles, Editions, Imprint
- 3xx - Physical Description
  
- 4xx - Series statement
- 5xx - Notes
- 6xx - Subject Added Entry
- 7xx - Added entries
- 8xx - Series Added Entry
- 9xx - Locally defined Fields

# VARIABLE FIELDS ...

**0xx -**

010 - LC Control Number

\$a Library of Congress Control Number

020 - International Standard Book No

\$a International Standard Book Number

\$c Terms of availability (often a Price)

\$z Cancelled/ invalid ISBN (R)

040 - Cataloging source

\$a Original cataloging agency

\$c Transcribing agency

\$d Modifying agency

# VARIABLE FIELDS ...

1xx -

100 Main entry- Personal name

indicator-:First : 0 -forename, 1

surname,

3- family name

Second : Undefined

\$a Personal name

\$b Numeration

\$c Titles and other words

\$q Fuller form of name

\$d Dates associated with a name

Example : 100 10 \$a Churchill, Winston, \$c

Sir,

\$d 1874-1965.

# VARIABLE FIELDS ...

**2xx**

-

240 Uniform title

indicator 1: Uniform title printed or displayed

0 - not printed or displayed

1 - Printed or displayed

indicator 2: Non-filing characters

0-9 Number of nonfiling character present

\$a Uniform title

\$d Date of Treaty Signing

\$l Language of a work

\$f Date of a work

Example : 240 14 \$a The Pickwick Papers. \$l French

# VARIABLE FIELDS ...

245 Title Statement

indicator 1 : Title added entry

0 - No title added entry

1 - Title added entry

indicator 2 : Non-filing characters

0-9 Number of non-filing characters present,  
including

space

\$a The Title proper

\$b Remainder of title

\$c Remainder of title page

transcription/statement of  
responsibility

Example : 245 10 \$a How to play chess /

\$c Kevin Wicker ; with a foreword by David Pritchard

# Variable Fields ....

## 246 Varying from of Title ( R )

\$a Title

\$b Subtitle

\$f Volume/issue numbers/ date of work

\$n Number of part / section of a work ( R )

\$p Name of Part / section of a work ( R )

## 250 Edition Statement

250 \$a Edition Statement

\$b Reminder of edition Statement

Example : 250 \$a 4th ed. / \$b revised by J G Le  
Mesurier

# Variable Fields ...

## 260 Imprint

\$a Place of Publication ( R )

\$b Name of Publisher ( R )

\$c Date of Publication ( R )

Example : \$a New York : \$b Springer Verlag, \$c 1977.

## 300 Physical Description (R)

\$a Pagination ( R ) \$b Illustration, etc \$c Dimensions

\$e Accompanying material

Example : \$a 11 v. : \$b ill.; \$c 24 cm.

# Variable Fields ...

440 Series Statement / Added Entry Title ( R )

\$a Title of series

\$n Number of part /section of work ( R )

\$p Name of Part /section of a work ( R )

\$v Volume number / sequential designation

\$x ISSN

Example : Okonomische Studien ; \$v no. 22

500 General Note ( R )

\$a General note

Example : Imprint stamped on verso of t.p.



# Variable Fields ...

504 Bibliography, etc note ( R )

\$a Bibliography note

Example : Bibliography : p. 238-239.

Includes bibliographical references.

505 Formatted contents note ( R )

\$a Formatted contents note

Example : \$a pt. 1 . Carbon pt. 2 Nitrogen

546 Language note ( R )

\$a Language note

# Variable Fields ...

## 600 Subject Added Entry- Personal Name ( R )

\$a Personal name

\$b Numeration

\$c Title and other words associated with a name ( R )

\$d Dates associated with a name

\$n Number of part / Section of a work ( R )

\$p Name of part / Section of a work ( R )

\$t Title of Work

\$q Fuller Form of name

\$x General Subdivision ( R )

\$y Chronological subdivision ( R )

\$z Geographical subdivision ( R )

Example : 10 \$a Nixon, Richard M. \$q (Richard Milhouse), \$d 1913- \$x  
Personality

# Variable Fields ...

## 610 Corporate name or jurisdiction name ( R )

\$a Corporate name of jurisdiction name

\$b Subordinate unit ( R )

\$c Location of meeting

\$d Date of meeting or treaty signing ( R )

\$n Number of part /section /meeting ( R )

\$p Name of part /section of work ( R )

\$t Title of work

\$x General subdivision ( R )

\$y Chronological subdivision ( R )

\$z Geographical subdivision ( R )

Example : 610 20 \$a United Nations \$z Africa.

# Variable Fields ...

## 611 Subject Added Entry-Meeting Name ( R )

\$a Meeting name as entry element

\$c Location of the meeting

\$d Date of meeting ( R )

\$e Subordinate unit ( R )

\$n Number of part / section / meeting ( R )

\$p Name of part / section of a work ( R )

\$t Title of a work

\$x General Subdivision ( R )

\$Y Chronological Subdivision ( R )

\$z Geographical Subdivision ( R )

Example : 20 \$a Olympic Games \$n(23rd : \$d 1984 : \$c Los Angeles, California)

# Variable Fields ...

630 Subject Added Entry-Uniform Title ( R )

\$a Uniform Title

\$f Date of a work

\$k Form subheading

\$l Language of work

\$x General Subdivision

\$y Chronological Subdivision

\$z Geographical Subdivision

Example : \$a Dead Sea scrolls.

# Variable Fields ...

## 650 Subject Added Entry-Topical Heading ( R )

\$a Topical Term

\$x General Subdivision ( R )

\$y Chronological Subdivision ( R )

\$z Geographical Subdivision ( R )

Example : #0 \$a Architecture, Modern \$y 19th Century.

## 651 Subject Added Entry-Geographic Name ( R )

\$a Geographical Name

\$x General Subdivision ( R )

\$y Chronological Subdivision ( R )

\$z Geographical Subdivision ( R )

Example: \$a United States \$x Boundaries \$z Canada

# Variable Fields ...

653 Uncontrolled Indexed Terms ( R )

\$a Uncontrolled term

700 Added Entry-Personal Name ( R )

\$a Personal Name

\$b Title and other words associated with a name ( R )

\$c Dates associated with a name

\$n Number of part / section of a work ( R )

\$p Name of Part /section of work ( R )

\$q Fuller form of name

\$t Title of a work

Example : 10 \$a Verez Peraza, Elena, \$d 1919-

# Variable Fields ...

710 Added Entry - Corporate Name ( R )

\$a Corporate name or jurisdiction name

\$b Subordinate unit ( R )

\$c Location of meeting

\$d Date of meeting of treaty signing ( R )

\$n Number of part /section /meeting ( R )

\$p Name of part / section of work ( R )

\$t Title of a work



# Variable Fields ...

711 Added Entry-Meeting name ( R )

\$a Meeting name or jurisdiction name

\$b Location of the Meeting

\$d Date of meeting

\$e Subordinate unit ( R )

\$n Number of part /section /meeting ( R )

\$p Name of part / section of work ( R )

\$t Title of a work

# Variable Fields ...

730 Added Entry-Uniform Title ( R )

\$a Uniform Title

\$f Date of work

\$k Form subheading ( R )

\$l Language of a work

\$n Number of part /section /meeting ( R )

\$p Name of part / section of work ( R )

# Variable Fields ...

## 740 Added Entry-variant Title ( R )

\$a Uncontrolled related / analytical title

\$n Number of part /section /meeting ( R )

\$p Name of part / section of work ( R )

## 850 Holding Library ( R )

\$a Library Code

\$b Volumes held

\$n Local Call Number

\$p Local Accession Number

# Variable Fields ...

## 856 Electronic Location and Access ( R )

### Indicators :

#### 1. Access Method

# No information provided

0 Email

1 FTP

2 Remote Login ( Telnet )

3 Dial - up

4 HTTP

7 Method specified in subfield \$20

# RELATIONSHIP

- # No information provided
- 0 Resource
- 1 Version of resource
- 2 Related resource
- 8 No display constant generated

# Subfields Codes

\$a Host name ( R )

\$b Access number ( R )

\$c Compression information ( R )

\$d Path ( R )

\$f Electronic name ( R )

\$h Processor of request ( NR )

\$i Instruction ( R )

\$j Bits per second ( NR )

\$k Password ( NR )

## Subfields Codes ....

- \$l Logon ( NR )
- \$m Contact for access assistance ( R )
- \$n Name of location of host ( NR )
- \$o Port ( NR )
- \$p Portion of the address that identifies the process or service in the host
- \$q Electronic format type ( NR )
- \$r Settings ( NR )
- \$s File size ( R )
- \$t Terminal emulation ( R )
- \$u Uniform resource identifier ( R )
- \$v Hours access method available ( R )
- \$w Record control number ( R )
- \$x Nonpublic note ( R )

## Subfields Codes ....

\$y Link text ( R )

\$z Public note ( R )

\$2 Access method ( NR )

\$3 Materials Specified ( NR )

\$6 Linkage ( NR )

\$8 Field link and sequene number ( R )



# Subfields Codes ....

## Examples :

856 0# \$u mailto : sangs@delnet.ren,nic.in \$i eajp subscription

856 1# \$u ftp://path.net/pub/urn2urc.ps

856 2# \$u telnet://pucc.princeton.edu

\$n Princeton University, Princeton, N. J.

856 4# \$a http://loc.gov/catalog/search..htm



# Thanks