Cataloging for Makerspaces

Diane Robson, M.S.  
Media Librarian

Kevin Yanowski, M.S.  
Catalog Management Librarian

Catherine Sassen, M.L.S., Ph.D.  
Principal Catalog Librarian

University of North Texas Libraries
Outline

• Introduction
• Literature Review
• Descriptive Cataloging
• Subject Analysis
• Genre Terms
• Summary
Introduction
Why catalog makerspace items?

• Increase visibility of the collection
• Allow virtual browsing of the collection
• Collocate similar resources
• Generate recommendations for users
• Create programming around genres
• Track and analyze usage
• Facilitate collection development
Literature Review
Literature Published on Cataloging for Makerspaces
Bibliographic Chicken
Perfection

Instead of agonizing over “the perfect record”, decide:

1. “What data elements are useful for the kind of library research performed here in this particular institution?”

2. “How much, and which elements of that necessary information can this institution afford to support?”

Cooperative Cataloging

“Cooperative cataloging is not happening ‘once and for all’ in a few select institutions but is becoming more and more of a distributed, ongoing process.”

Genre/Form Term

Indicates what a resource is, not what it is about

Examples:
655 \ 7 Globes. $2 lcgft
655 \ 7 Sewing machines. $2 local
Genre/Form Term vs. Subject Heading

A subject heading indicates what a resource is about.
A genre term indicates what a resource is.

100 1 \ Welty, Eudora, $d 1909-2001, $e author.
245 1 4 The golden apples / $c Eudora Welty.
651 \0 Southern States $x Social life and customs $v Fiction.
655 \7 Short stories. $2 lcgft
Specialized Lists of Genre Terms

• *Art and architecture thesaurus (1970s)*

• *Genre terms: A thesaurus for use in rare book and special collections cataloguing (1983)*
Library of Congress Genre/Form Terms for Library and Archival Materials (LCGFT)

- Cartographic materials
- General materials
- Law materials
- Literature
- Moving images
- Music
- Non-musical sound recordings
- Religious materials
- Art
Locally Created Genre Term Lists

- Artists’ books
- Chemistry and engineering literature
- Foreign films
- Video games
- Tabletop games
- Makerspace items
Descriptive Cataloging
Goal of Cataloging

The goal of every library is to provide access to its collection. This goal is aided through records in the library catalog that enhance finding, identifying, and selecting.
Brief and Minimal Records

• Every item that your library provides to patrons should have a record.
• The length of a record can vary based on user needs and the size of the collection.
• Bibliographic records, of any type, not only provide access for patrons, but also circulation data for collection management.
Cataloging Makerspace Items

- Cataloger's judgment
- Uncertainty
- Do your best
If we want to improve access, we need to provide access. You can create brief records that meet both:

- Your library’s minimal record requirements
- Supports user needs

<table>
<thead>
<tr>
<th>Makerspace Item</th>
<th>245</th>
<th>0</th>
<th>0</th>
<th>Makey Makey : $b standard kit.</th>
</tr>
</thead>
<tbody>
<tr>
<td>650</td>
<td>\</td>
<td>0</td>
<td>0</td>
<td>Makey Makey (Programmable controller) $x Programming.</td>
</tr>
<tr>
<td>655</td>
<td>\</td>
<td>7</td>
<td>0</td>
<td>Microcontrollers. $2 local</td>
</tr>
</tbody>
</table>
Raspberry Pi 3 Model B V: .2
Material type: r (realia)
245 0 0 Raspberry Pi 3 : $b CanaKit
246 3 \ Raspberry Pi 3 Model B V: .2
264 \ 2 [Place of distribution not identified] : $b Element14, $c [2015]
300 \ \ 1 microcontroller : $b various materials ; $c in box 10 x 7 x 3 cm
538 \ \ System requirements: Requires input device (USB keyboard) and output device (TV or monitor).
655 \ 7 Microcontrollers. $2 local
710 2 \ Element14 (Firm), $e distributor.
Material type: r (realia)

245 0 0 Raspberry Pi 3

250 \ \ CanaKit.

250 \ \ Model B V: .2.

264 \ 2 [Place of distribution not identified] : $b Raspberry Pi, $c [2015]

300 \ \ 1 microcontroller : $b various materials ; $c in box 10 x 7 x 3 cm

538 \ \ System requirements: Requires input device (USB keyboard) and output device (TV or monitor).

655 \ 7 Microcontrollers. $2 local

710 2 \ Element14 (Firm), $e distributor.
Core Requirements

Libraries often set core requirements for their records. These core requirements might vary by collection to best represent each collection user needs.

• LC RDA Core
• PCC Core
LC Core RDA Record

- Title proper (2.3.2) / MARC 245
- Parallel title proper (2.3.3) / MARC 245
- Designation of edition (2.5.2) / MARC 250
- Place of publication (2.8.2) / MARC 264
- Publisher’s name (2.8.4) / MARC 264
- Date of publications (2.8.6) / MARC 264
- Identifier for the manifestation (2.15) / MARC 020, 024, 028, etc.
- Note on title (2.17.2) / MARC 500
- Media type (3.2) / MARC 337
- Carrier type (3.3) / MARC 338
- Extent (3.4) / MARC 300
- Dimensions (3.5) / MARC 300
- Restrictions on use (4.5) / MARC 540
- Preferred name for the corporate body (11.2.2) / MARC 11X

- https://www.loc.gov/aba/rda/pdf/core_elements.pdf
<table>
<thead>
<tr>
<th>RDA</th>
<th>MARC</th>
<th>1st</th>
<th>2nd</th>
<th>Field Data</th>
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</thead>
<tbody>
<tr>
<td>2.15</td>
<td>024</td>
<td>8</td>
<td>\</td>
<td>2ABCB-RPI32 $2 FCC ID</td>
</tr>
<tr>
<td>2.3.2</td>
<td>245</td>
<td>0</td>
<td>0</td>
<td>Raspberry Pi 3</td>
</tr>
<tr>
<td>2.5.2</td>
<td>250</td>
<td>\</td>
<td>\</td>
<td>CanaKit</td>
</tr>
<tr>
<td>2.5.2</td>
<td>250</td>
<td>\</td>
<td>\</td>
<td>Model B v: .2</td>
</tr>
<tr>
<td>2.8.2, 2.8.4,</td>
<td>264</td>
<td>\</td>
<td>2</td>
<td>[Place of distribution not identified] : $b Element14, $c [2015]</td>
</tr>
<tr>
<td>2.8.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.4, 3.5</td>
<td>300</td>
<td>\</td>
<td>\</td>
<td>1 microcontroller : $b various materials ; $c in box 10 x 7 x 3 cm</td>
</tr>
<tr>
<td>3.2</td>
<td>336</td>
<td>\</td>
<td>\</td>
<td>three-dimensional form $b tdf $2 rdacontent</td>
</tr>
<tr>
<td>3.3</td>
<td>337</td>
<td>\</td>
<td>\</td>
<td>unmediated $b n $2 rdamedia</td>
</tr>
<tr>
<td>3.4</td>
<td>338</td>
<td>\</td>
<td>\</td>
<td>object $b nr $2 rdacarrier</td>
</tr>
<tr>
<td>4.5</td>
<td>538</td>
<td>\</td>
<td>\</td>
<td>System requirements: requires Pi 3 compatible software to operate (NOOBS 1.8.0 or later). Requires input device (USB keyboard) and output device (TV or monitor).</td>
</tr>
<tr>
<td>2.17.2</td>
<td>500</td>
<td>\</td>
<td>\</td>
<td>Title from device.</td>
</tr>
<tr>
<td>11.2.2</td>
<td>710</td>
<td>2</td>
<td>\</td>
<td>Element14 (Firm), $e distributor.</td>
</tr>
</tbody>
</table>
OCLC Fixed Field

• Visual Materials Workform
  – Type: r (realia)
  – Type of material (TMat): r (realia)
  – Tech: n (not applicable)
Identifiers

024 Other Standard Identifier
1\textsuperscript{st} Indicator
• 0 International Standard Recording Code (ISRC)
• 1 Universal Product Code (UPC)
• 3 International Article Number (EAN)
• 7 Source specified in subfield ǂ2
• 8 Unspecified type of standard number or code

028 Publisher or Distributor Number
1\textsuperscript{st} Indicator
• 5 Other publisher number
What!?

What are all of these numbers and where do I put them?
Australian Regulatory certification

Circuit and ground symbol

South Korea KC Certification

WEEE symbol (recycling)

Electrostatic sensitivity symbol

European Economic Area and Industry Canada certification logo

Federal Communications Symbol
Identifier

024 \ 7  2ABCB-RPI32 $2 FCC ID
Preferred Source of Information

2.2.2.1 Storage medium and any housing that is an integral part of the manifestation.

Title proper (2.3.2) / MARC 245
Parallel title proper (2.3.3) / MARC 245
Designation of edition (2.5.2) / MARC 250
Note on title (2.17.2) / MARC 500

Box

Item
Production, Publication, Distribution, Manufacture

• **RDA 2.7 Production** - statements relating to the inscription, fabrication, construction, etc., of a manifestation in an unpublished form.

• **RDA 2.8 Publication** - statements relating to the publication, release, or issuing of a manifestation.

• **RDA 2.9 Distribution** - statement identifying the place or places of distribution, distributor or distributors, and date or dates of distribution of a resource in a published form.

• **RDA 2.10 Manufacture** - statements relating to the printing, duplicating, casting, etc., of a manifestation in a published form.
Recording Publication Statement

Place of distribution (2.9.2) / MARC 264  [Place of distribution not identified]
Distributor’s name (2.9.4) / MARC 264  Element14
Date of distribution (2.9.6) / MARC 264  [2015]

264 \ 2  [Place of distribution not identified] : $b Element14, $c [2015]

Describing Carriers

Media type (3.2) / MARC 337  
300 \ \ 1 microcontroller (1 GB RAM) : $b various materials ; $c in box 10 x 7 x 3 cm

Carrier type (3.3) / MARC 338
336 \ \ three-dimensional form $b tdf $2 rdacontent

Extent (3.4) / MARC 300
337 \ \ unmediated $b n $2 rdamedia

Dimensions (3.5) / MARC 300
338 \ \ object $b nr $2 rdacarrier
System requirements: requires Pi 3 compatible software to operate (NOOBS 1.8.0 or later). Requires input device (USB keyboard) and output device (TV or monitor).

Element14 (Firm), $e distributor.
Additional Information & Access Points

Subject Headings

650 \ 0 Raspberry Pi (Computer) $x Programming.

Genre Headings

655 \ 7 Microcontrollers. $2 local

Additional Notes

500 \ Friction fit SD card slot.

500 \ 802.11 b/g/n Wireless LAN, Bluetooth 4.1.
LC Core RDA Record

024 \ 7 2ABCB-RPI32 $2 FCC
245 0 0 Raspberry Pi 3
250 \ \ CanaKit
250 \ \ Model B v: .2
264 \ 2 [Place of distribution not identified] : $b Element14, $c [2015]
300 \ \ 1 microcontroller (1GB RAM) : $b various materials ; $c in box 10 x 7 x 3 cm
336 \ \ three-dimensional form $b tdf $2 rdacontent
337 \ \ unmediated $b n $2 rdamedia
338 \ \ object $b nr $2 rdacarrier
538 \ \ System requirements: requires Pi 3 compatible software to operate (NOOBS 1.8.0 or later). Requires input device (USB keyboard) and output device (TV or monitor).
710 \ 2 Element14 (Firm), $e distributor.

LC Core RDA Record with additional fields

024 \ 7 2ABCB-RPI32 $2 FCC
245 0 0 Raspberry Pi 3
250 \ \ CanaKit
250 \ \ Model B v: .2
264 \ 2 [Place of distribution not identified] : $b Element14, $c [2015]
300 \ \ 1 microcontroller (1GB RAM : $b various materials ; $c in box 10 x 7 x 3 cm
336 \ \ three-dimensional form $b tdf $2 rdacontent
337 \ \ unmediated $b n $2 rdamedia
338 \ \ object $b nr $2 rdacarrier
538 \ \ System requirements: requires Pi 3 compatible software to operate (NOOBS 1.8.0 or later). Requires input device (USB keyboard) and output device (TV or monitor).
500 \ \ Friction fit SD card slot.
500 \ \ 802.11 b/g/n Wireless LAN, Bluetooth 4.1.
655 \ 7 Microcontrollers. $2 local
710 \ 2 Element14 (Firm), $e distributor.
Brief Record

245 0 0 Memory Craft 6500P : $b sewing machine
246 3 \ Janome sewing machine
655 \ 7 Sewing machines. $2 local

Core Record

024 8 \ MC6500P $b Janome
245 0 0 Memory Craft 6500P : $b sewing machine
264 \ 2 [United States] : $b Janome, $c [2015]
300 \ 1 sewing machine : $b various materials ; $c 50 x 30 x 22 cm
336 \ three-dimensional $2 rdacontent
337 \ unmediated $2 rdamedia
338 \ object $2 rdacarrier
655 \ 7 Sewing machines. $2 local
710 2 \ Janome Sewing Machine Co., $e manufacturer.
A little more info to help your users

MC6500P $b Janome

Memory Craft 6500P : $b sewing machine

Janome sewing machine

[United States] : $b Janome, $c [2015]

1 sewing machine : $b various materials ; $c 50 x 30 x 22 cm

three-dimensional $2 rdacontent

unmediated $2 rdamedia

object $2 rdacarrier

Machine specifications: top loading full rotary hook bobbin, automatic thread tension control, max stitch: 7mm, 5 pieced feed dog, easy reverse button, bobbin winding, touchscreen stitch selection, number of stitches (135), number of buttonholes (7 one-step buttons), built-in needle threader, needle position (71).

Computer guided sewing machine.

For use in Makerspace only.

Sewing machines. $2 local

Janome Sewing Machine Co., $e manufacturer.

Brief Record

245 0 0 Hakko wire stripper
246 3 3 \ Wire stripper
655 \ 7 Tools. $2 local

Core Record

028 5 0 CSP-30-1 $b Hakko
245 0 0 Hakko wire stripper
246 3 \ Wire stripper
264 \ 2 [Place of distribution not identified] : $b Hakko, $c [2016]
300 \ \ 1 wire stripper : $b metal, rubber ; $c 7 x 18 x 1 cm
336 \ \ three-dimensional form $b tdf $2 rdacontent
337 \ \ unmediated $b n $2 rdamedia
338 \ \ object $b nr $2 rdacarrier
655 \ 7 Tools. $2 local
710 2 \ Hakko, $e distributor.
A little more info to help your users

028 5 0  CSP-30-1 $b Hakko
245 0 0  Hakko wire stripper
246 3 \  Wire stripper
264 \ 2  [Place of distribution not identified] : $b Hakko, $c [2016]
300 \ \ 1 wire stripper : $b metal, rubber ; $c 7 x 18 x 1 cm
336 \ \ three-dimensional form $b tdf $2 rdacontent
337 \ \ unmediated $b n $2 rdamedia
338 \ \ object $b nr $2 rdacarrier
500 \ \ Specifications: 20-30 gauge maximum cutting capacity.
655 \ 7  Tools. $2 local
710 2 \ Hakko, $e distributor.
Cataloging your makerspace items

Are these records perfect?
   Probably not
Can users find makerspace items?
   Yes
Can we assess usage?
   Yes
Subject Headings

The subject heading indicates the activity.

650 \ 0  Sewing.

655 \ 7  Sewing machines. $2 local
Subject Headings

650 \ 0  Three-dimensional printing.
655 \ 7  3D printers. $2 local
Subject Headings

650 \ 0 Photography.

655 \ 7 Cameras (DSLR) $2 local
Advantages of Using Standardized Subject Headings

• Controlled vocabulary
  – Terms managed through authority records from an external source
  – Include references to broader, narrower and related terms
  – Already familiar to catalog users

• Will increase visibility of all cataloged items, regardless of their physical form
Genre Terms
Why Genre Terms?

• Standardized subject headings alone could confuse users
• Provide context for the item
• Tells users more about the item
Local Genre Terms

• Can tailor the headings to a collection or user group
• Few official applicable terms
• Provides better collocation and discoverability
UNT’s Genre Terms

• Development
  – Started with already present terminology
  – Used LCSH terms
  – Used ILS search term data
  – Used terms common to makerspaces and the associated items
  – Created terms only when necessary
## Example process

<table>
<thead>
<tr>
<th>UNT Terminology</th>
<th>LCSH term</th>
<th>Local Genre Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>GoPro</td>
<td>Camcorders</td>
<td>Video Cameras</td>
</tr>
<tr>
<td>Film Cameras</td>
<td>Cameras</td>
<td>Cameras (SLR)</td>
</tr>
<tr>
<td>Electronic Music Production</td>
<td>Synthesizer (Musical instrument)</td>
<td>Music Production, Electronics</td>
</tr>
<tr>
<td>Arduino</td>
<td>Arduino (Programmable controller)</td>
<td>Microcontrollers</td>
</tr>
<tr>
<td>Raspberry Pi</td>
<td>Raspberry Pi (Computer)</td>
<td>Microcontrollers</td>
</tr>
<tr>
<td>3D Printing</td>
<td>Computer printers</td>
<td>3D printers</td>
</tr>
<tr>
<td>Milling</td>
<td>Milling-machines</td>
<td>CNC Machines</td>
</tr>
</tbody>
</table>
Genre Term List

155 3D scanners
  455 3-D scanners
  455 Three-dimensional scanners
  680 A computer controlled machine that creates accurate digital models of objects in the real world

155 Cameras (DSLR)
  455 Digital single-lens reflex camera
  555 Cameras
  555 Camera lenses
  555 Photography $v$ Equipment and supplies

155 Sewing machines
  555 Electronic textiles
  555 Sewing $v$ Equipment and supplies
  670 sh85120545
Canon EF 85mm f/1.8 USM: lens / Canon.


1 lens: plastic, metal, glass, and black; 16 x 6 cm + 1 instruction sheet

three-dimensional form

unmediated

object

Specifications: 85 mm; aperture maximum: f/1.8; aperture minimum: f/22; angle of view: 28°30'; minimum focus distance: 2.79' (85 cm); maximum reproduction ratio: 1:8; filter thread: 58mm; weight: 14.99 oz (425 g)

Features: image stabilization: no; autofocus: yes; tripod collar: no.

Lens for use with a SLR or DSLR.

Photography.

Camera lenses.

Camera accessories.

Photography equipment and supplies.
Summary

• Efficient and effective catalog searching
• Discoverability
Questions?

Diane Robson, M.S.
Diane.Robson@unt.edu

Kevin Yanowski, M.S.
Kevin.Yanowski@unt.edu

Catherine Sassen, M.L.S., Ph.D.
Catherine.Sassen@unt.edu