

Cataloging for Makerspaces

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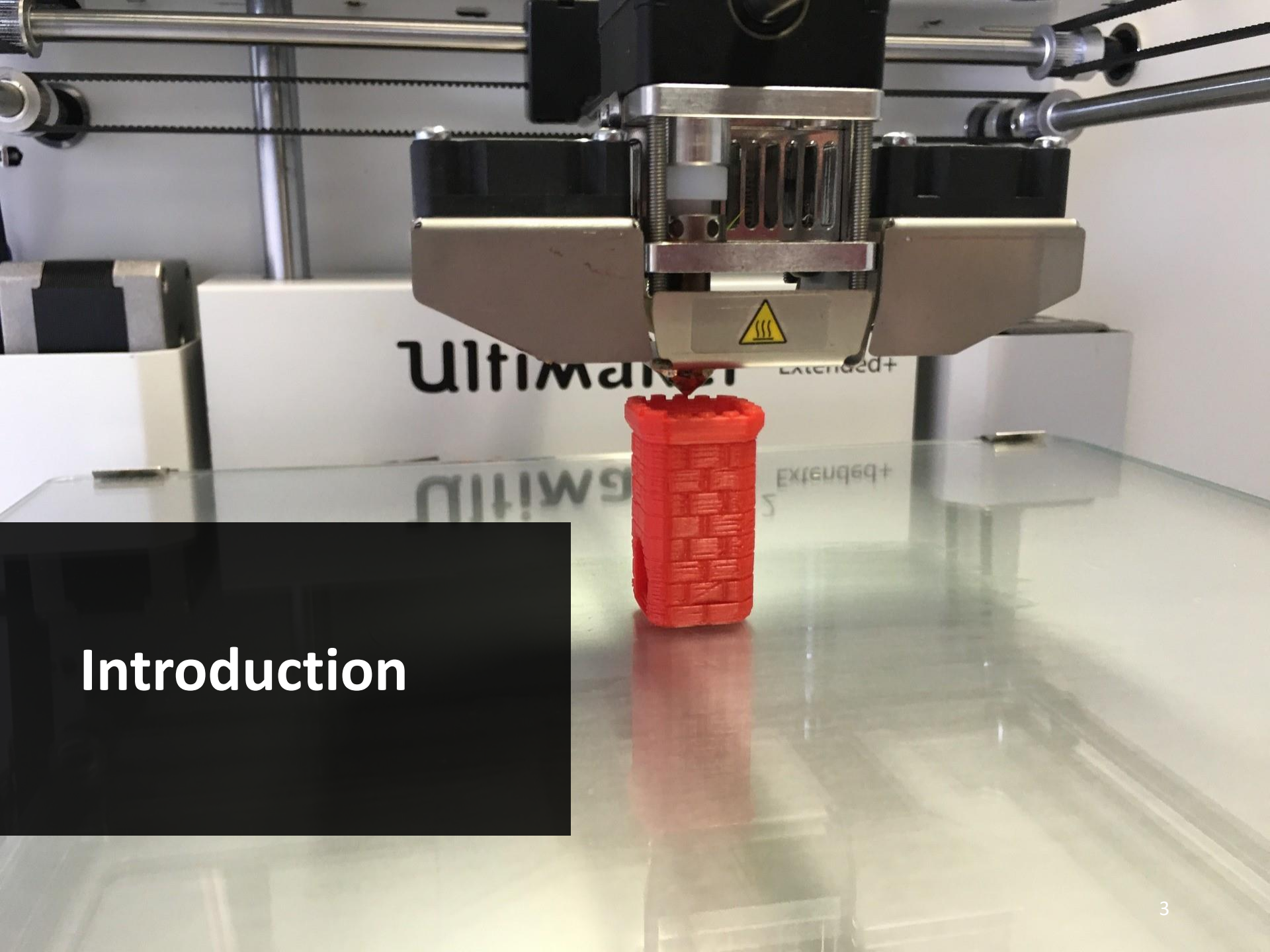
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Outline

- 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

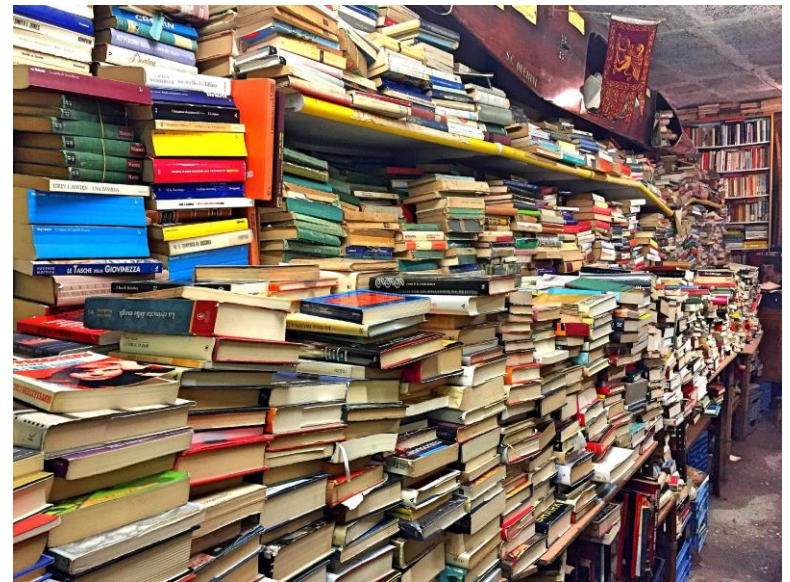


Literature Review

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?”

Bade, D. (2008). The Perfect Bibliographic Record: Platonic Ideal, Rhetorical Strategy or Nonsense? *Cataloging & Classification Quarterly* 46(1): 109-133.

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.”

Turner, A. H. (2010). OCLC WorldCat as a Cooperative Catalog. *Cataloging & Classification Quarterly* 48(2-3): 271-278.

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

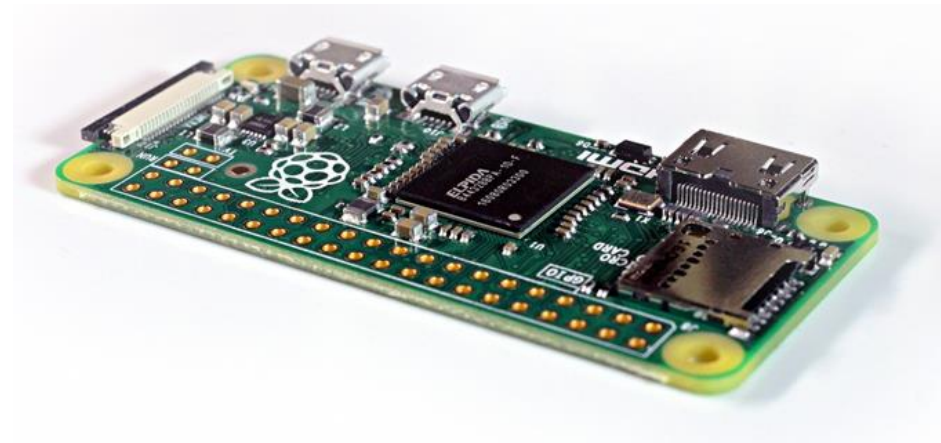
- *Art and architecture thesaurus (1970s)*
- *Genre terms: A thesaurus for use in rare book and special collections cataloguing (1983)*

Library of Congress Genre/Form Terms for Library and Archival Materials (LCGFT)

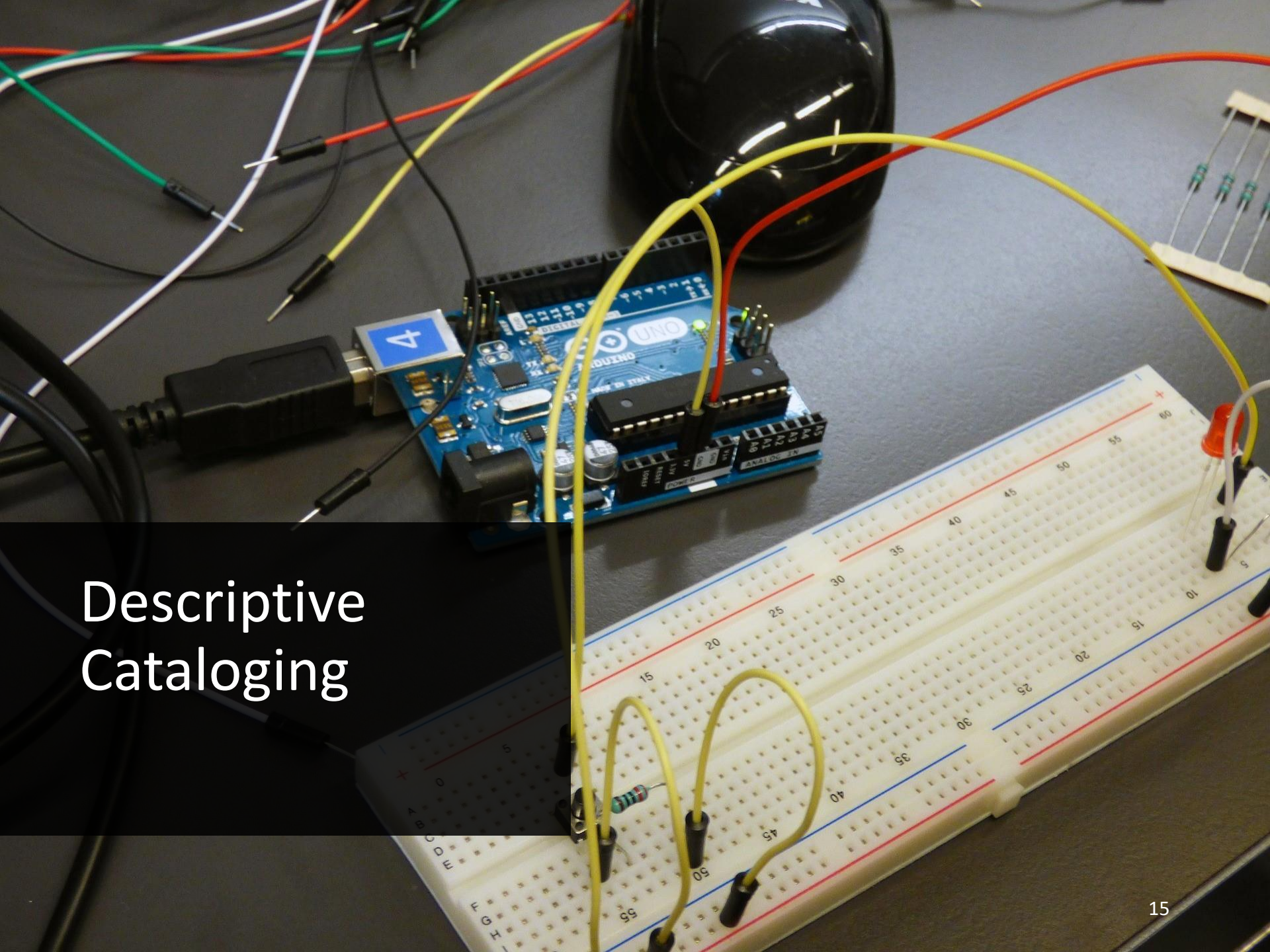
- Cartographic materials
- General materials
- Law materials
- Literature
- Moving images
- Music
- Non-musical sound recordings
- Religious materials
- Art

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

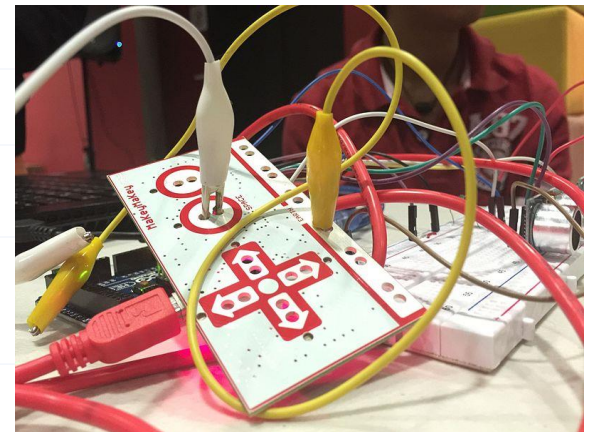


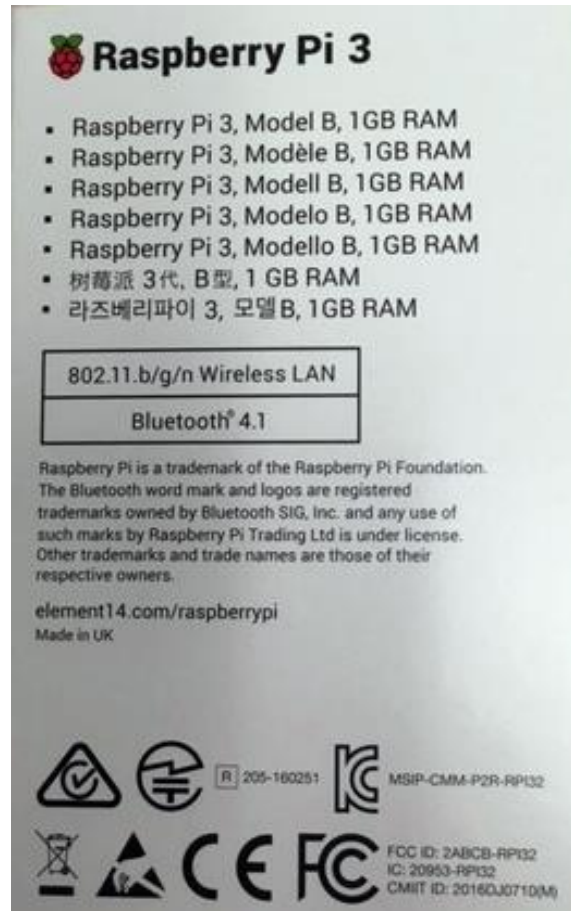
Brief Records

If we want to improve access, we need to provide access. You can create brief records that meet both:

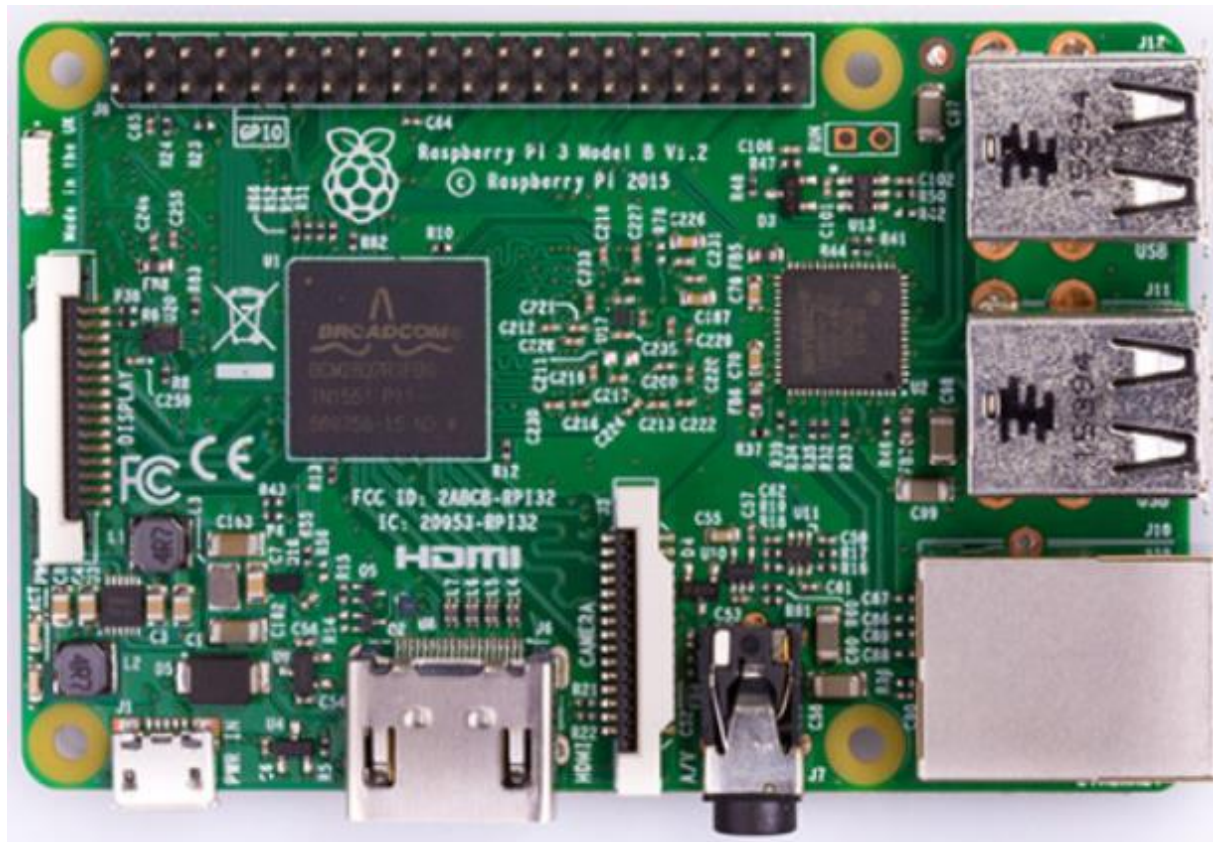
- Your library's minimal record requirements
- Supports user needs

Makerspace Item			
245	0	0	Makey Makey : \$b standard kit.
650	\	0	Makey Makey (Programmable controller) \$x Programming.
655	\	7	Microcontrollers. \$2 local





Raspberry Pi 3 CanaKit



Raspberry Pi 3 Model B V: .2

Brief Record

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.



Brief Record

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

LC Core RDA Record

RDA	MARC	1st	2nd	Field Data
2.15	024	8	\	2ABCB-RPI32 \$2 FCC ID
2.3.2	245	0	0	Raspberry Pi 3
2.5.2	250	\	\	CanaKit
2.5.2	250	\	\	Model B v: .2
2.8.2, 2.8.4, 2.8.6	264	\	2	[Place of distribution not identified] : \$b Element14, \$c [2015]
3.4, 3.5	300	\	\	1 microcontroller : \$b various materials ; \$c in box 10 x 7 x 3 cm
3.2	336	\	\	three-dimensional form \$b tdf \$2 rdacontent
3.3	337	\	\	unmediated \$b n \$2 rdamedia
3.4	338	\	\	object \$b nr \$2 rdacarrier
4.5	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).
2.17.2	500	\	\	Title from device.
11.2.2	710	2	\	Element14 (Firm), \$e distributor.

OCLC Fixed Field

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

Identifiers

024 Other Standard Identifier

1st Indicator

- 0 International Standard Recording Code (ISRC)
- 1 Universal Product Code (UPC)
- 3 International Article Number (EAN)
- 7 Source specified in subfield ≠2
- 8 Unspecified type of standard number or code

028 Publisher or Distributor Number

1st 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

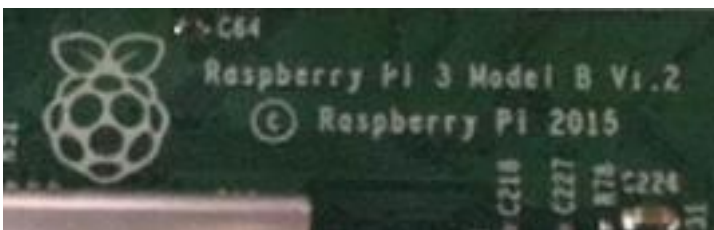
Designation of edition (2.5.2) / MARC 250

Note on title (2.17.2) / MARC 500



245 0 0 Raspberry Pi 3
 250 \ \ CanaKit
 250 \ \ Model B v: .2

Box



245 0 0 Raspberry Pi 3
 246 1 3 \$i Title on box: \$a Raspberry Pi
 3 CanaKit

Item

246 1 3 \$i Title on item: \$a Raspberry Pi
 3 Model B v: .2

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 Requirement (3.20.1.3) /
MARC 538

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).

Corporate body (11.2.2) / MARC 71X

710 2 \ 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. 37

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

- 024 8 \ MC6500P \$b Janome
- 245 0 0 Memory Craft 6500P : \$b sewing machine
- 246 3 \ Janome 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
- 500 \ \ 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).
- 520 \ \ Computer guided sewing machine.
- 590 \ \ For use in Makerspace only.
- 655 \ 7 Sewing machines. \$2 local
- 710 2 \ Janome Sewing Machine Co., \$e manufacturer.
- 856 4 \ \$3 Manual \$u <http://www.library.unt.edu/factory-static/manuals/textiles/janome-6500-manual.pdf>

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

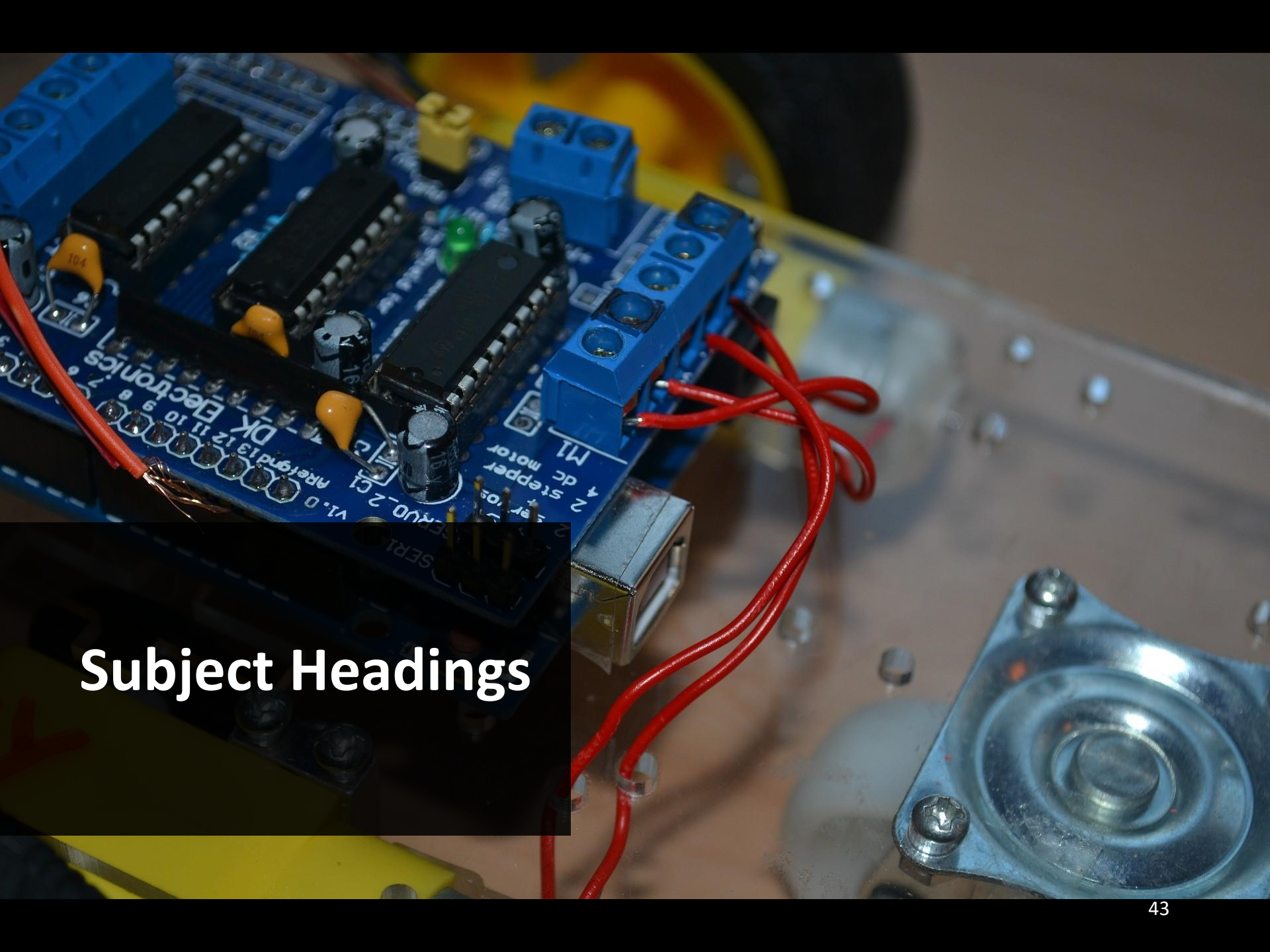
Can users find makerspace items?

Yes

Can we assess usage?

Yes





Subject Headings

Subject Headings

The subject heading indicates the activity.

650 \ 0 Sewing.

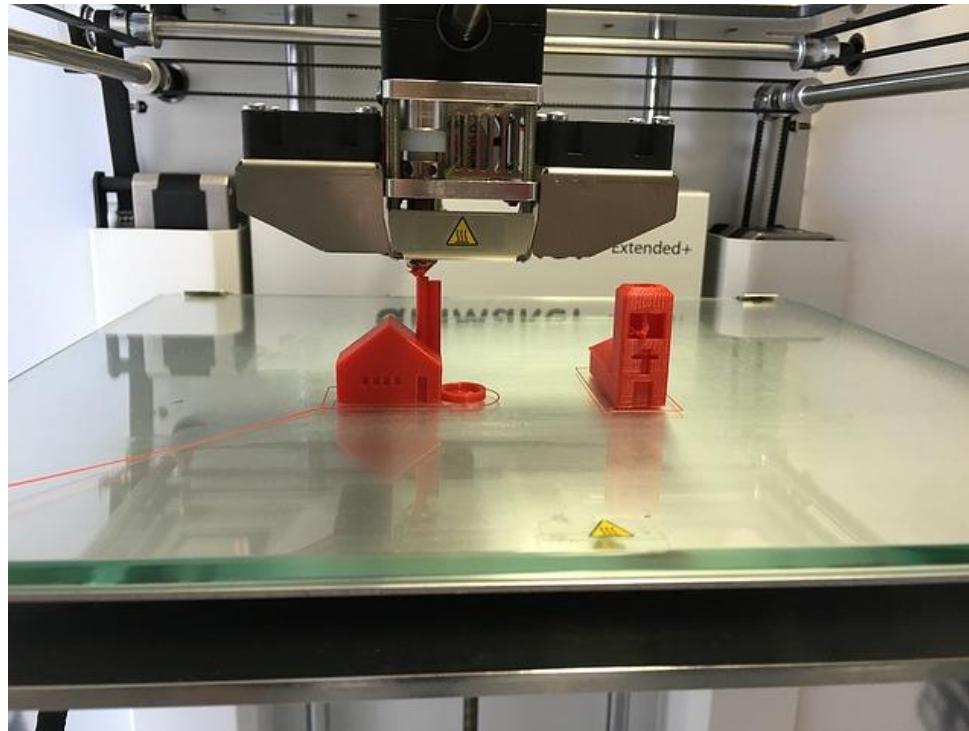
655 \ 7 Sewing machines. \$2 local



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

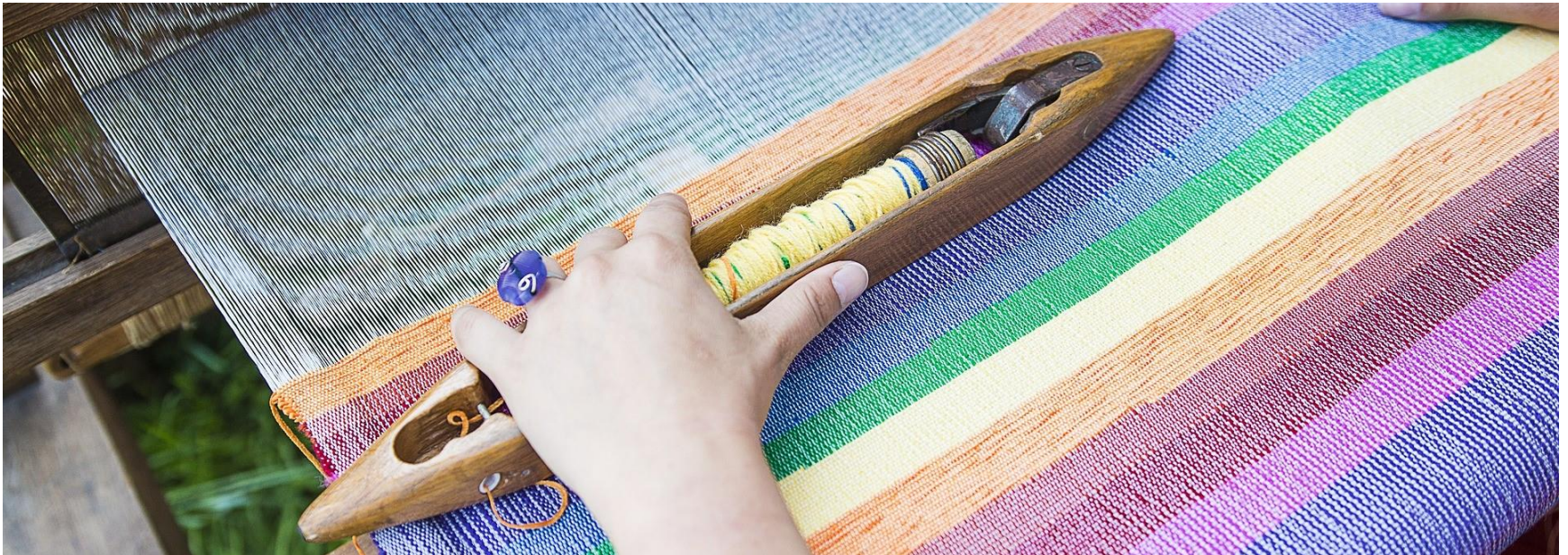
- Controlled vocabulary
 - Terms managed through authority records from an external source
 - Include references to broader, narrower and related terms
 - Already familiar to catalog users
- Will increase visibility of all cataloged items, regardless of their physical form

A photograph of a cluttered workbench, likely for electronics assembly. The desk is covered with various tools and components. In the foreground, there are several orange soldering irons, some with their tips resting on yellow heat-resistant mats. A black soldering fan is prominently placed in the center-right. To the left, there are several pairs of pliers and wire cutters. In the background, there are cardboard boxes, a stack of white papers, and a power strip with multiple black cables plugged into it. The overall scene suggests a busy, well-used workspace for electronic projects.

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

UNT Terminology	LCSH term	Local Genre Term
GoPro	Camcorders	Video Cameras
Film Cameras	Cameras	Cameras (SLR)
Electronic Music Production	Synthesizer (Musical instrument)	Music Production, Electronics
Arduino	Arduino (Programmable controller)	Microcontrollers
Raspberry Pi	Raspberry Pi (Computer)	Microcontrollers
3D Printing	Computer printers	3D printers
Milling	Milling-machines	CNC Machines

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



LDR 02731nrm a2200517Ki 4500
008 160607s2002\\nnyunnn\\neng\d
028 5 0 2519A003 \$b Canon
245 0 0 Canon EF 85mm f/1.8 USM : \$b lens / \$c Canon.
246 3 0 Canon lens
264 \ 2 Lake Success, NY : \$b Canon, \$c 2002.
300 \ \ 1 lens : \$b plastic, metal, glass, and black ; \$c 16 x 6 cm + \$e 1 instruction sheet
336 \ \ three-dimensional form \$b tdf \$2 rdacontent
337 \ \ unmediated \$b n \$2 rdamedia
338 \ \ object \$b nr \$2 rdacarrier
500 \ \ 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)
500 \ \ Features: image stabilization: no; autofocus: yes; tripod collar: no.
520 \ \ Lens for use with a SLR or DSLR.
650 \ 0 Photography.
655 \ 7 Camera lenses. \$2 local
655 \ 7 Camera accessories. \$2 local
655 \ 7 Photography \$v Equipment and supplies. \$2 local

Summary

- Efficient and effective catalog searching
- Discoverability



Questions?

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