2021 Webinar Series
Highlighting RDA Outputs
Hosted by RDA-US
About Research Data Alliance (RDA)

Research Data Alliance (RDA)
Community of over 11,830+ data experts from around the globe (145 countries) who collaborate together in building the social and technical bridges to enable open sharing and re-use of data.

RDA-US
The RDA-US is a recognized Region of the Research Data Alliance represented by 2,500 RDA members who supports the global operations and help strengthen the data science infrastructure community.

Join RDA
www.rd-alliance.org
Recording
Please note, this event is being recorded, and will be available on the RDA website.

Questions and Answers
Please use the Q&A option to ask questions of the presenter.

The Q&A option can be found at the bottom of your Zoom screen.
2021 Webinar Series Highlighting RDA Outputs

Exploring Past, Present, and Future Outcomes of the RDA Libraries for Research Data (L4RD) IG

Hosted by RDA-US

Register Here:
#RDAwebinar
June 28th 13:00 UTC
23 Things: Libraries for Research Data

Mijke Jetten, Dutch Techcentre for Life Sciences (DTL) and Health-RI

Engaging Researchers with Data Management: The Cookbook

Connie Clare Delft University of Technology (TU Delft)

The Top 10 FAIR Data & Software Things’

Chris Erdmann American Geophysical Union (AGU)

An introduction of the L4RD new chairs and a discussion of new group initiatives

Su Nee Goh, Nanyang Technological University
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RD-ALLIANCE.ORG
@rda_us
@resdatall

Thank You For Joining!
RDA’s 23 things adopted: a tool for knowledge and training on RDM for various audiences

Mijke Jetten
mijke.jetten@dtls.nl

On behalf of the 23 Things Task Group of the LCRDM

L4RD webinar, June 28, 2021
Link to presentation: https://doi.org/10.5281/zenodo.5036380

23 Things project & tool: https://www.lcrdm.nl/23things
Adopting the 23 things

What?
23 Things versions for different audiences

Why?
- New topics for Dutch context: FAIR, GDPR, Open Science ...
- We need a common understanding of RDM among diverse practitioners and supporters

How?
Via an RDA adoption grant, by a Dutch LCRDM task group, using community sprints (June ’19 - September ’20)

Deliverables
All deliverables available via: https://www.lcrdm.nl/23things

Adoption process

1. Creating nationwide commitment
2. Adjusting the 23 things
3. Getting the 23 things adopted
4. Dissemination

23 Things project & tool: https://www.lcrdm.nl/23things
Digital sheets for training purposes
https://doi.org/10.5281/zenodo.3773663

Toolkit (beta version)
https://23things.sites.uu.nl

Filter by
Audience (7 options)
Theme (17 options)
Data life cycle phase (6 options)
Challenges

To avoid

Get our sustainability act together….

Maintenance plan

• Expand involved community
• Editorial board
• Regular maintenance
• Ideally: international (RDA) adoption

Training plan

• Ready to use training packages/modules
• Embed in existing RDM courses, like Essentials 4 Data Support

23 Things project & tool: https://www.lcrdm.nl/23things
A simplified user story

Challenge
- Boris is a data steward at the TU Eindhoven
- A PhD candidate asks him how she should cite the code and software that she received from her professor for doing her analysis

23 things tool
- Boris may use the 23 things tool himself to find an answer to improve his **FAIR data stewardship knowledge and skills**
- Boris could also directly suggest the PhD candidate to use the 23 things tool to build **RDM and FAIR awareness**
- The PhD candidate could also hint to her professor how handy the 23 things tool actually is for building **RDM and FAIR awareness**

Challenge
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Boris selects his audience ...
Boris selects his theme ...
Boris gets two possible solutions...
One of the *things* provides info on software citation ...

**FAIR software route**
https://fair-software.eu
Design your own learning path!

Just like Boris, the PhD candidate and her professor
Remarks, suggestions, additions?
Want to add your own things to the tool?
Email to info@lcrdm.nl
Engaging Researchers with Data Management: The Cookbook

Exploring Past, Present, and Future Outcomes of the RDA Libraries for Research Data (L4RD) IG

Connie Clare
Community Manager, 4TU.ResearchData
c.e.clare@tudelft.nl
2021 Webinar Series Highlighting RDA Outputs
28 June 13:00 UTC
Today’s talk… The next 10 minutes!

- The Cookbook
- Project organisation
- Project timeline
- The book sprint
- How to use the Cookbook
- The case studies (three examples)
Open Book Publishers
https://www.openbookpublishers.com/product/1080
DOI:
pdf, html, paper or hardback

- 24 innovative case studies
- Institutions around the world
- Activities for effectively engaging researchers with data management

- For anyone interested in RDM
- Raise awareness of best practices
- Inform and inspire implementation
Project organisation (L4RD)
Engaging researchers with Research Data: What works?

Project lead: Marta Teperek (TU Delft/4TU.ResearchData)

Steering board (10): Lauren Cadwallader, Julien Colomb, Maria Cruz, Mary Donaldson, Lambert Heller, Rosie Higman, Elli Papadopoulou, Vanessa Proudman, James Savage, Marta Teperek

Task leaders (6): Julien Colomb, Maria Cruz, Raman Ganguly, Reme Melero, Marta Teperek, Iza Witkowska

Authors & editors (8): Connie Clare, Maria Cruz, Elli Papadopoulou, James Savage, Marta Teperek, Yan Wang, Iza Witkowska, Joanne Yeomans

Libraries for Research Data IG: https://www.rd-alliance.org/groups/libraries-research-data.html
Project timeline

Nov 2018

Project outline
IDW 2018
RDA 12th Plenary meeting,
Botswana

Dec-Mar 2019

Survey template & data collection
60 funders, 80 institutions
28 mailing lists
216 responses, 50 unique institutions, 88 activities

Apr-Jun 2019

Update: Analysis & case study selection
RDA 13th Plenary meeting,
Philadelphia
GitHub, quantitative data analysis,
categorisation, steering board
selection and interview contributors

July 2019

Publication & promotion
Peer-review, editing, publication and
presentation at RDA 14th
Plenary meeting, Helsinki

Oct 2019

Three-day book sprint
8 authors/editors draft case studies
in Den Haag (Netherlands)
The book sprint

Book Sprint Success: A Team Writing Exercise For The Win.

A collaborative writing exercise in <1 week

- Three-day book sprint
- Den Haag (Netherlands)
- Authors draft assigned case studies
- Set out the goals and objectives
- Come prepared with content
- Schedule blocks, briefs and breaks!
- Have fun!
How to use the Cookbook

- Navigate case studies of interest/relevant
- The Cookbook = recipes with ingredients
- Number of researchers
- Number of PhDs
- Number of RDM support staff
- Target audience (first stage, recognised, established, leading)
- Main driver (top down, bottom up, researcher-led, disciplinary, centrally coordinated)
- Cost (materials, infrastructure, time)
  - Inexpensive to expensive
- Ease of implementation (very easy to difficult)
The Cookbook Chapters


2. Finding triggers for engagement

3. Engagement through training

4. Dedicated events to Gauge Interest and Build Networks

5. Networks of Data Champions

6. Dedicated consultants to offer one-to-one support with data

7. Interviews and Case Studies

8. Engage with Senior Researchers through Archiving
Case study: Finding triggers for engagement
Seeking opportunities for engagement and adapt existing workflows

Taking Advantage of Existing Administrative Systems at the MRC Social and Public Health sciences Unit, University of Glasgow (Mary-Kate Hannah, Data Scientist)

- Researcher applies for grant
- Complete an online form
- Sent to ‘Portfolio Group’ for approval
- Check topic within unit’s remit
- Resources identified (personnel, data storage, DMPonline)
- Automatic email to Mary-Kate
- RDM presentation
- Follow-up: trial master file (grant application, legal, RDM folders)
Case study: Engagement through training

Using low-cost training methods to support researchers

Bring your own data workshop at the University of Cambridge (Annemarie Hildegard Eckes-Shephard, researcher)

- Researcher-led, bottom-up initiative
- RDM & Open Science starts with good project organisation
- Monthly 2 hr informal workshop
- Official calendar event
  - File-naming conventions
  - Writing a README
  - File and folder structure
- Peer-to-peer
- Networking and collaboration
Case study: Interviews and case studies

Increasing the visibility of RDM teams and services

Showcasing peers and their good practice at Vrije Universiteit Amsterdam & Utrecht University (Annemiek van der Kuil & Anneke de Maat, support/advisors)

- Interview researchers & publish stories
- Illustrate the value of RDM best practices (disciplinary, specific tools)
- Highlight lead by example, impact and visibility, raise the profile of ECR to senior researchers
- Peer-driven examples influence others
- ‘Social norms govern the behaviour of society members’
- More researchers know where to seek help!
Thank you for your attention!
Top 10 FAIR Data & Software Things: Past, Present, and Future

Chris Erdmann
Assistant Director, Data Leadership
American Geophysical Union
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Origins

THE CARPENTRIES

TIB | Technische Informationsbibliothek

RDA | Research Data Alliance

Australian Research Data Commons
“FAIR” blog posts from Library Carpentry that provide background on the sprints/activities

Top 10 FAIR Data & Software Things
A two-day worldwide sprint held on 29-30 November 2018 to develop domain-relevant guides on FAIR.
📅 2019-02-01  Chris Erdmann  Natasha Simons

The Carpentries in the Classroom
Reflections on Holding a Carpentries-Inspired Workshop in my Library and Information Science (LIS) Class
📅 2019-01-22  Denice Adkins

Lesson Program Implementation, Governance Group Meeting, and Community Updates
News on Library Carpentry’s Lesson Program Implementation with The Carpentries
📅 2019-01-10  Chris Erdmann

Library HackyHour at Curtin University Library
A space where staff can continue to apply what they’ve learned from Library Carpentry workshops
📅 2018-12-12  Janice Chan

We just passed 2K Twitter followers!
In celebration of reaching 2K Twitter followers, here is a summary of our Twitter Analytics
📅 2018-10-24  Chris Erdmann

Announcing the Top 10 FAIR Data Things Global Sprint
A global sprint to develop 10 FAIR things resources for data in different disciplines
📅 2018-10-11  Chris Erdmann  Natasha Simons

https://librarycarpentry.org/blog/
Findings

- Inclusive/accessible approach invited new members to Carpentries community
- Understanding FAIR in the context of local communities/teams was helpful
- Planning ahead, streamlining instructions, structuring sprint activities is invaluable
- Underestimating the time it takes to edit material following sprints
- Top 10 FAIR still active, GitHub issues/pull requests, further discipline context still needed
- Experience from the sprint has helped similar sprints
GitHub Hosted Site

Top 10 FAIR Data & Software Things

about github repository download/cite license #top10fair

The Top 10 FAIR Data & Software Things are brief guides (standalone, self-paced training materials), called “Things”, that can be used by the research community to understand how they can make their research (data and software) more FAIR (Findable, Accessible, Interoperable and Reusable). Each discipline/topic has its own specific list:

Nanotechnology
Astronomy
Linked Open Data

https://librarycarpentry.org/Top-10-FAIR/
Example: Research Software Things

**Thing 9: State how to cite your software**

You want to get credit for your work. By providing the citation guideline you will help users of your software to cite your work properly. There is no single right way to do it. The Software Sustainability Institute website provides more information and discussion on this topic in a blog post *How to cite and describe software*.

**Activity:**

Read “Software citation principles” paper. Read documentation of Citation File Format and create CFF file for your software.
Site Traffic / Search Engine Optimization

Based on some preliminary review:

- Average 9K Views/Month
  *From SEO Review Tools/Website Traffic Checker*

- Top 10 Hit in Google Search

- Displays as Google Snippet
Google Search (900 Results)

Sites:

Top 10 FAIR Data Software Things
C. Erdmann, N Simons, R. Otsuji, S. Labou, R. Johnson... - 2019 - dspace.library.uu.nl
The Top 10 FAIR Data & Software Global Sprint was held online over the course of two-days (29-30 November 2018), where participants from around the world were invited to develop brief guides (stand alone, self paced training materials), called "Things", that can be used by ...

[PDF] uu.nl

Linked Open Data-10 Things to reach the realm of LOD (part of Top 10 FAIR DATA amp; SOFTWARE THINGS)
Linked Open Data (LOD) are inherently interoperable and have the potential to play a key role in implementing the 'in FAIR. They are machine-readable, based on a standard data representation (RDF-Resource Description Format) and are seen as epitomizing the ideals ...

[HTML] codata.org

From FAIR Leading Practices to FAIR Implementation and Back: An Inclusive Approach to FAIR at Leiden University Libraries
K.M. Hetme, P. Verhaar, E. Schultes... - Data Science ..., 2020 - datascience.codata.org
... To create discipline-specific and understandable FAIR data resources aimed at single researchers, the CDS participated as collaborators in the international Library Carpentry Top 10 FAIR Data and Software Things sprint in November 2018 ...

[HTML] codata.org
Impact in the Literature


10 recommendations to make your software FAIR

Erdmann C, Garcia L, Kuzak M et al. 10 recommendations to make your software FAIR [version 1; not peer reviewed]. F1000Research 2019, 8(ISCB Comm J):1541 (poster) (https://doi.org/10.7490/f1000research.1117402.1)
Additional Twitter Mentions (102 Tweets Total)

Organizations/Groups:


For #Top10FAIR (129 Tweets):

eScience Center (NL), Melbourne Open Research Network, DCC, DNA Digest, FAIRsharing
Top 10 FAIR Data & Software Things

By Daniel Bangert

The Top 10 FAIR Data & Software Things are brief guides (stand alone, self paced training materials), called "Things", that can be used by the research community to understand how they can make their research (data and software) more FAIR (Findable, Accessible, Interoperable and Reusable).

Read more 4 comments Log in or register to post comments
3794 reads
Highlighted Outcomes

Library Carpentry: FAIR Data and Software

Under Design

This lesson is currently in its early design stage; please check the design notes to see what we have so far. Contributions are very welcome: we would be particularly grateful for exercises and for commentary on the ones already there.

Prerequisites

Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>00:00</td>
<td>1. Introduction</td>
<td>What does the acronym &quot;FAIR&quot; stand for, and what does it mean? How can library services contribute to FAIR research?</td>
</tr>
<tr>
<td>00:00</td>
<td>2. Findable</td>
<td>What is a persistent identifier or PID? What types of PIDs are there?</td>
</tr>
<tr>
<td>00:00</td>
<td>3. Accessible</td>
<td>Key question</td>
</tr>
</tbody>
</table>

FAIR Bytes

The favourite lunch hour talk about all things FAIR

@GOfAIR Festival 2021

BANK OF CANADA
BANQUE DU CANADA

FORCE11 Scholarly Communication Institute (FSCI)
In Closing - Some Ideas

- At the GO FAIR Festival we talked about the importance of convergence and messaging.

- At AGU Data Leadership, we use a checklist approach to guiding authors (e.g. Jupyter Guidance).

- Top 10 FAIR Data & Software Things seems to have an SEO advantage and takes a checklist type approach.

- Consider leveraging the Top 10 FAIR Data & Software Things for convergence on messaging.
Thank you. Questions? Feedback?

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