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LIST OF RESEARCH DATA MANAGEMENT RESOURCES from NTEG / DATA CHAMPIONS

An Introduction to Important Aspects of
RDM



Digital Research
Alliance of Canada

Alliance de recherche
numérique du Canada



NTEG / DATA CHAMPIONS LIST OF RESEARCH DATA MANAGEMENT (RDM) RESOURCES

This list was created to bring together a variety of RDM resources, created by different organizations (including international organizations), which provide useful introductions to important aspects of RDM. We also encourage you to explore the resources offered by the Digital Research Alliance of Canada on the [RDM Training Resources page](#).

How to Use this List

Each resource link is accompanied by several pieces of information:

- A brief description of the resource
- Target audience: Who the original target audience was, according either to the resource itself or to our understanding of the resource. While we think that all of these resources are potentially of interest to many audiences, some of the terminology or examples in them may be more geared to specific audiences
- Time required: How long it would take a typical user to work through part and/or all of the material in a resource

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What is RDM?

- **Exploring FAIR: findable, accessible, interoperable, and reusable:**

<https://howtofair.dk/>

- Includes a Research Data Management e-Learning course separated by modules, readings, and videos focusing on What is FAIR, Why FAIR, and How to FAIR?
- Target audience: Those who have some knowledge of RDM principles; for those who are entirely new to RDM, they recommend taking the online course first
- Time required: Variable. You can get a quick and accessible overview of the FAIR principles in a few minutes, or spend a couple of hours on the course and readings.

- **Data Management Expert Guide (CESSDA):**

<https://dmeq.CESSDA.eu/Data-Management-Expert-Guide>

- Includes a guide, individual chapters on each phase of the research data life cycle, a quiz to help you decide where to start, and an interactive game
- Target audience: “social science researchers who are in an early stage of practising research data management”
- Time required: Individual chapters could be completed in a couple of hours; likely several hours to go through everything

- **MANTRA RDM Training:**

<https://mantra.ed.ac.uk/>

- Includes eight learning units on many areas of RDM, plus several data handling tutorials for different data analysis software packages. A well-established resource, last updated in January 2022
- Target audience: “post-graduate students, early career researchers, and also information professionals”
- Time required: Individual modules could be completed in approximately 30-60 minutes; likely a few hours will be required to go through everything



- ***Exploring RDM best practices for social sciences and humanities (KU Leuven):***

<https://zenodo.org/record/4596323#.Yrx8LOzMKUm>

- Target audience: humanities and social sciences researchers, students and support staff
- Time required: Likely a couple of hours minimum to go through everything

- ***Basic RDM: Introduction to RDM (McGill)***

<https://www.youtube.com/watch?v=Jm7qIkrL3wM&list=PLfMfJihLOASUBhcRqVRu-floB4jBBko9h&index=1>

- Target Audience: researchers wanting a basic introduction to RDM
- Time required: 3 minutes 37 seconds

- ***Gestion des données de recherche: Introduction à la gestion des données de recherche (McGill)***

<https://www.youtube.com/watch?v=v2CVvmfQUKo&list=PLfMfJihLOASUBhcRqVRu-floB4jBBko9h&index=6>

- Public cible: les chercheurs et chercheuses souhaitant une introduction de base au GDR
- Temps requis: 3 minutes 59 secondes

- ***Carrefour Gestion des données de recherche:***

<https://uquebec.libguides.com/gdr/>

- Ressources créées et compilées par l'Université du Québec, y compris des fiches d'information imprimables, des vidéos et du contenu sur le Web // Resources created and compiled by the University of Quebec, including printable information sheets, videos, and web-based content
- Public cible: Non spécifié // Target audience: Not specified
- Temps requis: Les pages individuelles sont assez concises (moins de cinq minutes de lecture) ; parcourir tout le matériel en profondeur prendrait



probablement quelques heures. // Time required: Individual pages are fairly concise (less than five minutes to read); going through all the material in depth would likely take a couple of hours

Why is it important to consider sound RDM practices in research?

- **Data Sharing and Management Snafu in 3 Short Acts [YouTube]:**
<https://www.youtube.com/watch?v=N2zK3sAtr-4>
 - A humorous animated video depicting a request for data sharing that goes horribly wrong
 - Target audience: Not specified, but the video was created by the NYU Health Sciences Library
 - Time required: 4 minutes and 40 seconds
- **The strange claims of Steven Newmaster:**
<https://www.canadaland.com/steven-newmaster-guelph/>
 - A podcast and accompanying article on a University of Guelph researcher who has made questionable claims and has not made his data available to support them
 - Target audience: General public with an interest in current affairs
 - Time required: 40 minutes and 12 seconds for the podcast; 10-15 minutes for the article
- **McMaster University puts ecology professor on leave after investigation into a 'series of concerns':**
<https://www.cbc.ca/news/canada/hamilton/johnathan-pruitt-investigation-mcmaster-paid-leave-1.6252827>
 - A CBC news story from 2021 about a McMaster University researcher whose data have been questioned by scientific journals and former colleagues.
 - Target audience: General public with an interest in current affairs
 - Time required: 10-15 minutes



- For a follow-up to this story, see:
<https://www.science.org/content/article/embattled-spider-biologist-resigns-university-post>

Continue to build skills using gamification

- **Research Data Management Adventure:**

<https://rdm-games.gitlab.io/rdm-adventure/>

- Based on the “Choose Your Own Adventure” children’s books, where each choice leads to a different story. Users can play as a qualitative researcher or an experimental researcher. Background on the creation of the game is available [here](#).
- Target audience: “Postgraduate researchers”
- Time required: Approximately one hour.

- **Data Horror Escape Room:**

<https://sites.google.com/vu.nl/datahorror/home>

- Based on the popular “escape room” experience, where players must solve a series of challenges in order to finish the game (and “escape the room”). Players solve challenges related to FAIR, personal data, data archiving and transfer, metadata, persistent identifiers, and metadata. Background on the creation of the game is available [here](#).
- Target audience: Researchers, research support staff, students
- Time required: Approximately one hour.

Learn more about Data Management Plans (DMPs)

- **DMP Assistant:**

<https://assistant.portagenetwork.ca/>

- A Canadian, online, bilingual data management planning tool. Takes the researcher through a series of questions with tips and hints to help answer them.
- Target Audience: Researchers wanting to create a data management plan



- Time required: will vary depending on the amount of detail written

- **DMP Assistant Video Tutorial Series:**
https://www.youtube.com/playlist?list=PL2jE_DQZemnWs5Qb3mBrbYXAaylF5mTUv
 - A series of 3 videos introducing DMPs and the DMP Assistant.
 - Target Audience: Researchers wanting to understand what a DMP is, what the DMP Assistant is and How to use the DMP Assistant.
 - Time required: each video is around 5 minutes long.

- **Tutoriels vidéo pour l'Assistant PGD:**
https://www.youtube.com/playlist?list=PL2jE_DQZemnUeUkBD3WFFtJpVsM-QOusy
 - Une série de 3 vidéos présentant les PGD et l'Assistant PGD.
 - Public cible: Les chercheurs et chercheuses souhaitant comprendre ce qu'est un PDG, ce qu'est l'Assistant PGD et comment utiliser l'Assistant PGD.
 - Temps requis: Chaque vidéo a une durée d'environ 5 minutes

- **DMP Writing: Introduction to research data management plan (DMP) (McGill):**
https://www.youtube.com/watch?v=p_JzQxxC4ts&list=PLfMfJihLOASUBhcRqVRu-floB4jBBko9h&index=2
 - Target Audience: researchers wanting a basic introduction to RDM
 - Time Required: 2 minutes 32 seconds



- **Rédaction du PGD: Introduction au plan de gestion des données de recherche (PGD) (McGill)**

<https://www.youtube.com/watch?v=A07PmC62Z7U&list=PLfMfJihLOASUBhcRqVRu-floB4jBBko9h&index=7>

- Public cible: les chercheurs et chercheuses souhaitant une introduction de base au GDR
- Temps requis: 2 minutes 42 secondes

- **MANTRA DMP Training:**

<https://mantra.ed.ac.uk/datamanagementplanning/>

- A well-established resource, last updated in January 2022
- Target audience: “post-graduate students, early career researchers, and also information professionals”
- Time required: approximately 30-60 minutes

- **Data Management Planning:**

<https://data.research.cornell.edu/content/data-management-planning>

- This guide is designed to give an overview of the major areas to be considered when preparing a DMP
- Target Audience: researchers at all levels
- Time Required: 15 minutes to read through it.

- **DMP Tool:**

<https://dmptool.org/>

- A tool to help the researcher create DMPs that meet requirements of the funders. Note that this tool was developed in the United States so it will reference American funding agencies.
- Target audience: Any researcher wanting to create a DMP.
- Time required: will vary depending on the amount of detail written



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