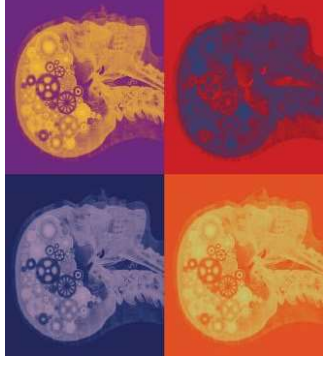


Department of Psychology Research Forum *Open Data*

Open Science #2

08.13.23



Open Data



- The principle of openness allows transparency: others can see your work and ensure reliability of findings
- Data sharing: the practice of making research data freely available for other
- UKRN principles of data sharing – data should be:
 - **Findable** (*easy to locate: weblink in paper etc.*)
 - **Accessible** (*accompanied with clear instructions/labels*)
 - **Interoperable** (*saved such that it is compatible with other tools*)
 - **Reusable** (*suitably described so that further analysis can be undertaken*)



Barriers to Sharing Data

- What if people find mistakes in my work?
 - Sometimes people make mistakes: it is better for your subsequent work (and your discipline as a whole) if these are corrected
- What if people pre-empt/copy my findings?
 - This is very rare but you can embargo the release of data
- What about anonymity?
 - More of an issue with qualitative data
 - Is it as useful when decontextualized
(Chauvette et al., 2019)
- This is (yet another) administrative job – do I really have time?



Benefits to Sharing Data

- Accountability
 - Knowing others can see your data encourages diligence
- Might lead to collaborations
 - Enables others to use your data in an innovative way: this may lead to collaborations and/or more citations
- Many journals and funders now demand it



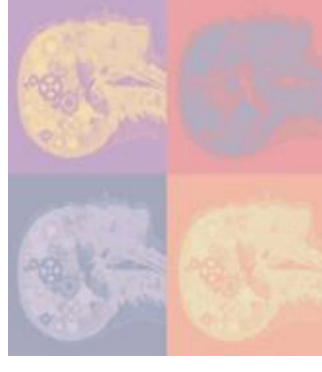
Preparing the Data for Dissemination

- Recommendations for sharing data (Roche et al., 2015)
 - **Clear and detailed description** of data
 - If from a paper, should be clear where this data/analysis fits
 - Make the **data independent/standalone** – i.e., not reliant upon another paper
 - Ensure **missing data/exclusions are highlighted**
 - Provide as much **unprocessed (raw data)** as possible
 - Include **analysis code and processing scripts** where possible
 - Convert **data files to open formats** where possible
 - Ask a colleague/friend to **review the accessibility** of the data submission



Where to Share Data ...

- Need a repository (i.e., somewhere online where the data can be stored)
 - BU offers Bournemouth Online Research Data Repository (BORDaR)



- Another common repository is the Open Science Framework (OSF)

An example from everyone's favourite study on odour-colour binding

OSFHOME

Intentional and incidental odour-colour...

Metadata

Files

Wiki

Analytics

Registrations

Contributors

Add-ons

Settings

My Projects

Search

Support

Donate

Andrew Johnson

0.0B

Make Private

Public

P 0

++

Intentional and incidental odour-colour binding in working memory

Contributors: Andrew Johnson

Date created: 2021-04-25 11:44 AM | Last Updated: 2021-04-25 08:57 PM

Create DOI

Category: Project

Description: Add a brief description to your project

License: Add a license

Has supplemental materials for Intentional and incidental odour-colour binding in working memory on PsyArXiv

Wiki

Summary of Materials

This repository contains materials for the under review study entitled: *Intentional and incidental odour-colour binding in working memory*. Included in this repository are sub-directories containing the data across the three experiments and a draft of the paper.

Citations: To cite this project see the citation tab on the right of the main project page. If published (big if I k...
Read More

Files

Click on a storage provider or drag and drop to upload

Name	Modified
Intentional and incidental odour-colour binding in working memory	
OSF Storage (United States)	

Citation

Components

Experiment 1 Johnson

Experiment 2 Johnson

Experiment 3 Johnson

PrePrint Draft Johnson

Tags

Open Data on the OSF

- Guide to using the OSF
<https://help.osf.io/article/353-welcome-to-projects>

- *If people want more bespoke training on using OSF then this is something we can hopefully provide*

The screenshot shows the 'OSF SUPPORT' page with a search bar and a list of categories including 'Projects Home Page', 'Creating a Project', 'Managing Projects', 'Collaborating on Projects', 'Project Storage', 'Project Files', 'Sharing, Linking, and Forking Projects', 'Wiki', 'Project and Component IDs', and 'Back to OSF Support'. The main content area is titled 'Welcome to Projects OSF Projects' and features a video player for 'Introduction to OSF'. Below the video, there is a 'Video Description' and a list of links for various OSF project management tasks.

OSF SUPPORT

Search

CATEGORIES

- [Projects Home Page](#)
- [Creating a Project](#)
- [Managing Projects](#)
- [Collaborating on Projects](#)
- [Project Storage](#)
- [Project Files](#)
- [Sharing, Linking, and Forking Projects](#)
- [Wiki](#)
- [Project and Component IDs](#)
- [Back to OSF Support](#)

Welcome to Projects OSF Projects

Introduction to OSF

Watch on YouTube

Video Description: Follow our technical instructor, "Sophia," as she learns how her research progresses throughout the research life cycle on the OSF. This video will start with our section on OSF projects.

What are projects?

Projects are a flexible tool for researchers to plan, collaborate, and organize a research study. Because of their flexibility, projects are an excellent place for a team to show their work and refine ideas. Our project help guides are split into "core" sections:

- **Create a Project**
Need a space to collaborate with your peers on your work? In this section, you will find information on creating a project, component, and even examples of OSF projects.
- **Managing Projects**
Once you have created a few projects, visit this section for more information on managing all your projects, organizing your work, or even deleting a project.
- **Collaborating, Contributors**
Projects are a great tool for your research team to work together. Learn more ways to collaborate, set permissions, and access projects already in progress.
- **Wiki**
A wiki is a versatile tool for interacting with your team and others who view your work. Wikis can be used to explain the main points of your project and can contain information like lab notes, contact information, or more in-depth details about your project. Learn more in this section.
- **Sharing, Linking, And Forking**
Time to get the word out about your project? Explore our help guide section if you are looking to share, link, or even make a copy (ie, fork) of a project (yours or someone else's).
- **Project Files**
The file version of your project is an excellent place to hold all of your data, analysis, notes, and research documents.
- **Project Storage**
For questions on storing your files inside of an OSF project, or about storage limits, see our OSF Project storage section.

This article is licensed under the CC BY license.

Key References

- Chauvette, A., Schick-Makaroff, K., & Molzahn, A. E. (2019). Open Data in Qualitative Research. *International Journal of Qualitative Methods*, 18
<https://doi.org/10.1177/1609406918823863>
- Roche, D. G., Kruuk, L. E. B., Lanfear, R., & Binning, S. A. (2015). Public data archiving in ecology and evolution: How well are we doing? *PLoS Biology*, 13(11), Article e1002295.
<https://doi.org/10.1371/journal.pbio.1002295>
- Towse, J. N., Rumsey, S., Owen, N., Langford, P., Jaquiere, M., & Bolibaugh, C. (2020, October 30). Data Sharing: a Primer from UKRN.
<https://doi.org/10.31219/osf.io/wp4zu>

