

# Digital Preservation and Data Packaging

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## SUMMARY

Can there be a national infrastructure for digital preservation? What can the research domain learn from cultural heritage practice, and what can research technologies bring to archives, galleries, libraries and museums?

## DESCRIPTION

Digital Preservation is a need that research sciences and cultural heritage domains have in common. The increasing volumes of data produced through digitisation programs, the ingestion of born digital material, data as evidence and to be “FAIR” are challenges that individuals and institutions tasked with the preservation of memory face. There is often a misunderstanding of the purpose, role and terminologies to describe archives, repositories and the legal, fiscal and technological commitments for sustainable, decades long commitments.

This BoF will build on several distinct yet related projects [1] [2] [3] addressing Digital Preservation:

- Modularising PARADISEC's catalogue as a model for the data commons (ARDC) using OCFL
- A [demonstrator of the Oxford Common File Layout](#) as a scalable repository/archive
- Emulation-as a service of historic video game heritage on obsolete format and media (ARC with Swinburne, ACMI, AARNet)
- Uplifting researcher's capability in data curation to support long term preservation (University of Melbourne Archives)
- AARNet's pilot of Archivematica digital preservation system as-a-service (AARNet, University of Sydney Libraries)
- RO Crate, a data packaging specification for research (and other data) which can be layered on top of a preservation system
- The work of Australasia Preserves [4], a Digital Preservation community of practice across cultural heritage organisations.

We intend to frame the BoF around these projects as examples and discuss the possibility of a consistent, common approach across domains and emphasise the importance of data packaging as a core preservation and access capability.

This 60 Minute BoF will be facilitated by AARNet as a national provider of research data storage and data movement technologies, with UTS and University of Melbourne as project partners. The BoF will feature a small number of guest speakers representing the broad perspective of digital preservation practice, who will briefly (3-5 min) share with delegates what approaches and infrastructure they employ. The BoF will be interactive, enabling both from the floor interaction, and anonymous, online live questioning.

## REFERENCES

1. Sefton, Peter. DataCrate: Formalising Ways of Packaging Research Data for Re-Use and Dissemination, eResearch Australasia 2017 conference. Available from: <https://conference.ersearch.edu.au/2017/08/datacrate-formalising-ways-of-packaging-research-data-for-re-use-and-dissemination/> accessed 21 June 2019
2. Lynch, Michael., Sefton, Peter., and Sharyn Wise. A Framework for Integrated Research Data Management, with Services for Planning, Provisioning Research Storage and Applications and Describing and Packaging Data, eResearch Australasia 2018 conference. Available from: <https://conference.ersearch.edu.au/2018/08/a-framework-for-integrated-research-data-management-with-services-for-planning-provisioning-research-storage-and-applications-and-describing-and-packaging-research-data/> accessed 21 June 2019
3. Aben, Guido., Mason, Ingrid., and Adam Bell. Adding Archival Pathways to CloudStor, eResearch Australasia 2018 conference. Available from: <https://conference.ersearch.edu.au/2018/08/adding-archival-pathways-to-cloudstor/> accessed 21 June 2019
4. Australasia Preserves: a Digital Preservation Community of Practice. Available from: <https://www.australasiapreserves.org/> accessed 21 June 2019