

Archaeological Archives

- Existing guidance for archaeologists (UK and EU)
- Getting the detail
- The wider picture





Archaeological Archives (2011) https://doi.org/10.5284/1000078

Section 3.2.6 Digital material

- The digital archive consists entirely of digital data; coded information that is translated by a computer into a readable format.
- Example file types are CAD files, databases, digital aerial photograph interpretations, excavation archives, geophysical and other survey data, GIS files, images, satellite imagery, spreadsheets, text files and 3-D data.
- Transfer and short-term storage media include CD-ROMs, datasticks or flash drives, DVDs, floppy discs, hard discs, and magnetic tape. These are not suitable for the long-term preservation of the digital archive and should be used only to submit digital material for permanent archiving.
- Long-term storage must be on permanent servers that are regularly backed up.





Archaeological Archives (2011) https://doi.org/10.5284/1000078

Summary of Standards

- Storage considerations
- Documentation within lifetime
- Standards: terminology, file-naming, format etc
- Standards: structured, preserved and accessed
- Plans for back-up and deposition in archive
- Virus free
- A digital archive index must be compiled and deposited, in digital form, with the digital archive
- Copies of digital archives should be deposited in a secure digital archiving facility where they can be curated properly, maintained for the future and accessed easily





Archaeological Resources in Cultural Heritage a European Standard (ARCHES) <u>http://archaeologydataservice.ac.uk/arches/</u>

Section 4 Definitions:

"An archaeological archive comprises all records and materials objects recovered during an archaeological project and identified for long term preservation, including artefacts, ecofacts and other environmental remains, waste products, scientific samples and also written and visual documentation in paper, film <u>and digital</u> form."





Archaeological Resources in Cultural Heritage a European Standard (ARCHES) <u>http://archaeologydataservice.ac.uk/arches/</u>

Section 4.5 Standards:

- A digital backup strategy must be in place at the outset of a project and implemented throughout the project lifecycle
- Creation of the digital archive must be fully documented, with information such as software used, operating systems, types of hardware, dates, creators, field descriptions and the meanings of any codes
- <u>The digital archive must be deposited in a Trusted</u> <u>Digital Repository</u>





CIDOC Archaeological Archives Standard

Working Project Archive

All the documentation and physical items gathered during an archaeological project.

Preserved Archive

Elements selected from the working project archive for curation beyond the duration of a project.

A key difference is that the responsibility for the maintenance of location information of archive elements will transfer from the archive creator to the curating institution.

International Committee for Documentation of the International Council of Museums (CIDOC)



Produced by the ICOM/CIDOC Archaeological Sites Working Group

Draft 12



Data Formats

- An important part of protecting your digital data is creating it a suitable format
- Data format or Data Type?







Have a



"Cannot Open a database created with a previous version of your application" ^{© Print} error in Access 2013 and Access 2016

This issue occurs when you try to use Access 2013 or later version of Microsoft Access to open an Access 97 database. To work around this issue, use a pre-Access 2013 version of Access to save the Access 97 database as an .accdb file:

1. Open the Access 97 database in Access 2003.

- On the Tools menu, click Database Utilities, click Convert Database, and then click to Access 2002-2003 file format.
- 3. Enter a name for the database, and then click Save.
- 4. Exit Access 2003.
- 5. Open the database in Access 2013 or later version of Access.
- 6. On the File tab, click Save As, select Access Database (*.accdb), and then click Save As.
- 7. In the Save As dialog box, click Save.

Cause

This issue occurs because recent versions of Access cannot convert Access 97 files.



Current Guid



http://archaeologydataservice.ac.uk

Inds



Current Guid



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Data Formats

Obsolesce and concerns over propriety software – who else is going to need to access it, do they have the software? access licence? etc





1 Hang

Data Formats

Guides to Good Practice

http://guides.archaeologydataservice.ac.uk/g2gpwiki/

- Digital Data (general)
- GIS
- CAD
- Geophysics
- AP & Remote Sensing
- Excavation & Fieldwork
- Virtual Reality







Data Formats

ADS has list of recommended formats for deposition - other repository's also have this. Important to get it right the first time or you might spend ages converting files...

http://archaeologydataservice.ac.uk/advice/FileFormat Table.xhtml

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GUIDELINES FOR DEPOSITORS

Preferred and Accepted File Formats

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Data Formats

Guidance on Standards + Formats in new Guidelines for Best Practice (Historic England)

https://historicengland.org.uk/imagesbooks/publications/digital-image-capture-and-filestorage/

Explains differences between TIF and JPG (for example)



Digital Image Capture and File Storage

Guidelines for Best Practice





Data Formats

Part of a much wider landscape!

Library of Congress Recommended Formats Statement https://www.loc.gov/preservation/resources/rfs/

Digital Preservation Coalition <u>https://www.dpconline.org/knowledge-base/tech-watch-reports</u>



Creating a DMP: Some useful sources



General guidance on data management and the creation of plans :http://www.dcc.ac.uk/resources/datamanagement-plans

DMP ONLINE https://dmponline.dcc.ac.uk/











Metadata Templates

ADS has them for our purposes but they can be used and adapted by others even if not intending to deposit.

Packs will contain a image template example and a database template example



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Metadata Templates

Other repositories have them too! https://canmore.org.uk/content/depositors-information

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Digital Archive material

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There are a number of ways you can depose agate material such as via a LCL need ance or memory stock, or you can transfer materials to us use and/or the shuring sufficiale tornices such as Diription or Van Transfer).

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Standardised Vocabularies



About

Membership & current member organizations

Welcome to the Forum on Information Standards in Heritage (FISH). This site presents the work of the forum and contains links to recommended information resources that support best practice in recording cultural heritage.

We hope the site will give you an overview of the different documentation guidance and indexing tools available and used by our members. Please help us keep the website current and update us on any additional or future resources, initiatives and conferences.



Heritage Data Linked Data Vocabularies for Cultural Heritage

About Heritage Data 👻 Voc

Vocabulary Providers - Resources -

Posts

About Heritage Data

National cultural heritage thesauri and vocabularies have acted as standards for use by both national organizations and local authority Historic Environment Records but until now have lacked the persistent Linked Open Data (LOD) <u>URIS</u> that would allow them to act as vocabulary hubs for the Web of Data. The <u>AHRC</u> funded <u>SENESCHAL</u> project aims to make such vocabularies available online as Semantic Web resources. SENESCHAL will start with major vocabularies as exemplars and project partners will continue to make other vocabularies available. Other organizations are welcome to make use of the data and services which will be open licensed.

RESTful web services will be developed for the project to make the vocabulary resources programmatically accessible and searchable. These will include the provision to 'feed back' new terms (concepts) suggested by users. A series of case studies will explore use of these web services, in collaboration with the project partners.



Digital Preservation Standards

OAIS Model

- ISO standard 14721
- Established by the Consultative Committee for Space Data Systems (CCSDS)

Core Trust Seal

- Merging of DSA and World Data System (WDS)
- Simple guidelines for data producers, repositories & users
- Accreditation Process

NESTOR

 Extended self-assessment process based on the DIN 31644 standard "Criteria for trustworthy digital archives"

ISO 16363 Audit





