

A Linked Data Prototype for The Union Catalog of Digital Archives Taiwan

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Abstract

Linked data paradigm has provided the potential for any data to link or to be linked with structural information, internally and externally. To improve on current cultural service of the Union Catalog of Digital Archives Taiwan (catalog.digitalarchives.tw), a linked data prototype is developed and benefited by extending the Art & Architecture Thesaurus (AAT) for a machine-understandable catalog service.

However, knowledge engineering is time and labor consuming, especially for an archive that is non-western based in culture and multidisciplinary in natural. This makes data semantics of the UCdaT are extremely challenged for mapping to international standards and vocabularies.

At this stage, the triple store is an experimental addition to the existing Union Catalog of Digital Archives Taiwan architecture, and provides semantic links to target collections for relative suggestions. This will guide us in creating a future technical architecture that is scalable to the whole archive level, compliant with learning by doing guidelines, and preserves the data even that is difficult to be understood fully at present, but at least to be linked by others that may provide third-party's understandings for their own reuse.

The Digital Archives Thesaurus

| Concept Number | URI |
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The dat beta Ontology



The dat LOD Prototype Platform

Publishing Chinese Artifacts as Linked Data Using the Digital Archives Thesaurus (dat) and the dat Ontology
Running at http://dat.digitalarchives.tw/

Home | Article | Artifact | Dataset | Revision

This is a database published with DCR Server. It can be accessed using

1. your plain old web browser
2. Semantic Web browsers
3. SPARQL clients

Data publishing and reading here are mainly through:

1. Digital Archives Thesaurus (dat)
2. The dat beta Ontology
3. R4R Ontology

SPARQL Endpoint
SPARQL clients can query the database at this SPARQL endpoint:
<http://dat.digitalarchives.tw/sparql>

The database can also be explored using this AJAX-based SPARQL Explorer.

Powered by DCR Server

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