rd-alliance.github.io/metadata-directory/subjects/

Subject Areas

General Research Data

DataCite Metadata Schema ☑ Edit

A set of mandatory metadata that must be registered with the DataCite Metadata Store when minting a DOI persistent identifier for a dataset. The domain-agnostic properties were chosen for their ability to aid in accurate and consistent identification of data for citation and retrieval purposes.

Sponsored by the DataCite consortium, version 3.0 was recently released in 2013.

DCAT - Data Catalog Vocabulary ☑ Edit

By using DCAT to describe datasets in data catalogs, publishers increase discoverability and enable applications easily to consume metadata from multiple catalogs. It further enables decentralized publishing of catalogs and facilitates federated dataset search across sites. Aggregated DCAT metadata can serve as a manifest file to facilitate digital preservation.

Dublin Core ☑ Edit

A basic, domain-agnostic standard which can be easily understood and implemented, and as such is one of the best known and most widely used metadata standards.

Sponsored by the Dublin Core Metadata Initiative, Dublin Core was published as ISO Standard 15836 in February 2009.

OAI-ORE - Open Archives Initiative Object Reuse and Exchange ☑ Edit

The goal of these standards is to expose the rich content in aggregations of Web resources to applications that support authoring, deposit, exchange, visualization, reuse, and preservation. The standards support the changing nature of scholarship and scholarly communication, and the need for cyberinfrastructure to support that scholarship, with the intent to develop standards that generalize across all web-based information including the increasing popular social networks of "Web 2.0".

Observations and Measurements ☑ Edit

This encoding is an essential dependency for the OGC Sensor Observation Service (SOS) Interface Standard. More specifically, this standard defines XML schemas for observations, and for features involved in sampling when making observations. These provide document models for the exchange of information describing observation acts and their results, both within and between different scientific and technical communities.

PROV ☑ Edit

Provenance is information about entities, activities, and people involved in producing a piece of data or thing, which can be used to form assessments about its quality, reliability or trustworthiness. The PROV Family of Documents defines a model, corresponding serializations and other supporting definitions to enable the inter-operable interchange of provenance information in heterogeneous environments such as the Web.

RDF Data Cube Vocabulary ☑ Edit

The standard provides a means to publish multi-dimensional data, such as statistics, on the web in such a way that it can be linked to related data sets and concepts using the W3C RDF (Resource Description Framework) standard. The model underpinning the Data Cube vocabulary is compatible with the cube model that underlies SDMX (Statistical Data and Metadata eXchange), an ISO standard for exchanging and sharing statistical data and metadata among organizations.

Repository-Developed Metadata Schemas ☑ Edit

Some repositories have decided that current standards do not fit their metadata needs, and so have created their own requirements.

Life Sciences

ABCD - Access to Biological Collection Data ☑ Edit

The Access to Biological Collections Data (ABCD) Schema is an evolving comprehensive standard for the access to and exchange of data about specimens and observations (a.k.a. primary biodiversity data). The ABCD Schema attempts to be comprehensive and highly structured, supporting data from a wide variety of databases. It is compatible with several existing data standards. Parallel structures exist so that either (or both) atomised data and free-text can be accommodated.

Sponsored by Biodiversity Information Standards TDWG - the Taxonomic Databases Working Group, the current specification was last modified in 2007.

Darwin Core ☑ Edit