PCDM Overview

NE-FUG 2025-05-11

PCDM

Flexible, extensible model that can underlie a wide array of repository and DAMS applications

Primary goal is basic framework for interoperability

Built to satisfy basic and complex use cases

Data Modeling

W3C has produced LDP

Linked Data Platform

Cross-community design has produced PCDM

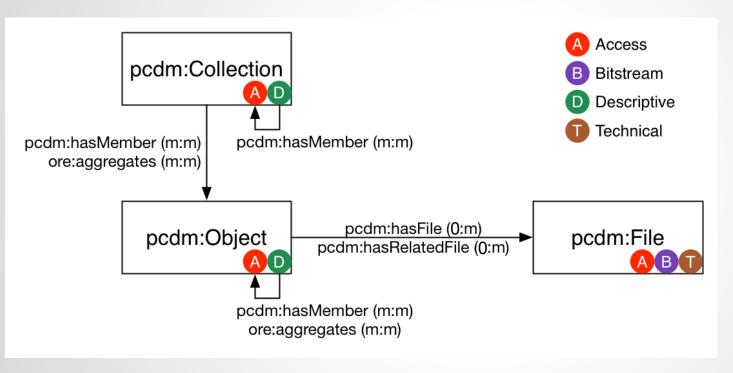
Portland Common Data Model

PCDM combines common ontology with LDP interaction

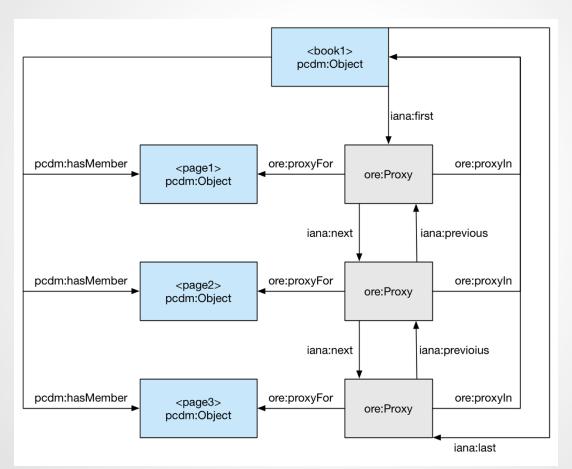
Namespaces

Prefix	URI
acl	http://www.w3.org/ns/auth/acl#
dc	http://purl.org/dc/elements/1.1/
dcterms	http://purl.org/dc/terms/
pcdm	http://pcdm.org/models#
foaf	http://xmlns.com/foaf/0.1/
gen	http://www.w3.org/2006/gen/ont#
iana	http://www.iana.org/assignments/relation/
ldp	http://www.w3.org/ns/ldp#
ore	http://www.openarchives.org/ore/terms/
rdfs	http://www.w3.org/2000/01/rdf-schema#

Portland Common Data Model



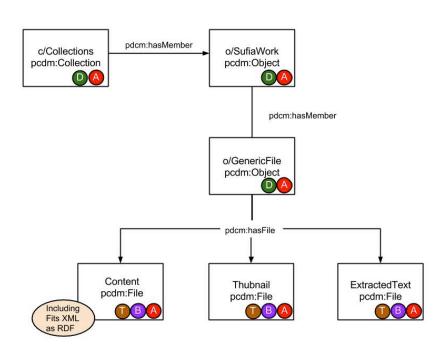
PCDM Ordering Extension



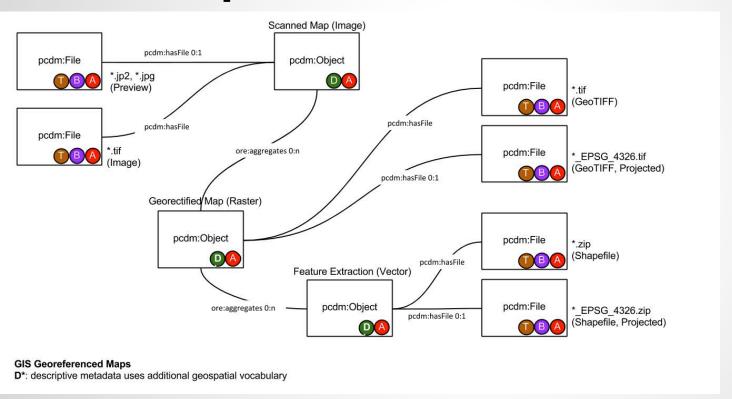
PCDM Examples

- 1. Sufia
- 2. GIS Map
- 3. Postcard
- 4. Disk Image

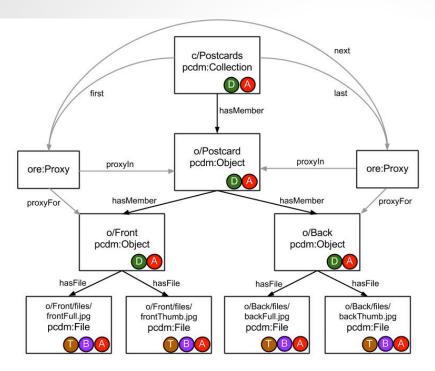
Sufia



GIS Map



Postcard



Disk Image

Archival Disk Image example Collection/Fonds pcdm:Collection Disk/Hard drive JP2 of media pcdm:Object pcdm:File pcdm:hasFile Series pcdm:Collection Kryoflux Image Disk Image ISO/AFF/etc. pcdm:Object pcdm:Object pcdm:File pcdm:hasFile DA Filegroup pcdm:hasFile pcdm:hasMember pcdm:Collection "Directory 1" Kryoflux Image "File 1" 1.txt pcdm:Object pcdm:File pcdm:File pcdm:Object pcdm:hasFile DA DA "File 2" 2.txt pcdm:Object pcdm:File pcdm:hasFile ore:Proxy