Geo. Predicates Working Group

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Breakout Session for Samvera Connect 2018

Review of the Charter

- *"To develop a core set of recommended RDF predicates sufficient for basic description of geospatial resources in a Samvera repository when combined with default metadata."*

- Member Institutions

  - University of Alberta

  - University of California at Santa Barbara

  - Stanford University

  - Princeton University

Timeline

- Chartered July 20th, 2017 ([Samvera Confluence Page](#))
- Physical meeting during Samvera Connect 2017 (October)
- Remote meeting during Geo4LibCamp 2018 (February)
- Work for deliverables throughout Spring/Summer 2018 (May - October)
- **Still active, but nearing completion**

Review of Activity

- Methodology
  - Determined a methodology for metadata profiles in June 2017
- Management
  - Rescoped deliverables from October 2017 - September 2018
- Artifacts
  - Drafted the Domain Models
  - Identified the Target Attributes
  - Conducted an Environmental Scan
  - Recommending RDF Mappings (Finalizing)
- Deliverables
  - Documentation for the WG (Incomplete)

Methodology

Dublin Core Metadata Initiative

- Me4MAP
  - Used to define a metadata application profile
  - [Original Webinar](#)
  - Adopted for the needs of the WG

Samvera Connect 2017

- Identified use cases for geospatial assets
  - Scanned maps
  - Geological cross-sections
  - Aerial photographs
  - Remote sensing data
  - Raster GIS data sets
  - Vector GIS data sets
  - Mixed GIS data sets

Domain Models

- Domain Models (last revised on 10/01/18)
  - Derived from use cases identified in Samvera Connect 2018
- Google Document for the Working Group
- Google Sheet for the Working Group
- Exhibited during the poster session

Target Metadata Attributes

- Target attributes for encoding as linked data (last revised on 10/01/18)
- [Google Document for the Working Group](#)
- [Google Sheet for the Working Group](#)

Environmental Scan

- Environmental scan of RDF spatial predicates in use on the World Wide Web
- schema.org and GeoJSON-LD were the strongest candidates
- [Google Sheet for the Working Group](#)
- RDF Data Cube spatial extensions (QB4ST)
  - Strong candidate
  - Not in use
  - Under active development
  - http://w3c.github.io/sdw/qb4st/

RDF Predicate Recommendations

- Predicate recommendations for encoding in the RDF
- Under ongoing development
- RDF snippet of some current work:

```
myGazetteer:examplePlace1 a schema:Place ;
  schema:name "Example Place 1"@en ;
  schema:geo  myGazetteer:exampleBoundingBox1 .

testRepository:exampleScannedMap a PCDM:Object, schema:Map ;
  dcterms:spatial    testRepository:examplePlace1 ;
  dcterms:description    "An Example Scanned Map"@en ;
  schema:spatialCoverage    testRepository:examplePlace1 ;
  ebucore:hasMimeType    "image/tiff" .
```

Future Work

- Releasing the existing deliverables as public drafts
  - GitHub Pages or the Samvera Confluence?
  - Jekyll? ReSpec?
- Requesting review from the community

Questions and Comments

Please ask us your questions

Geo. Predicates Working Group

The work undertaken for this working group only possible by its members:

- John Huck (University of Alberta)
- Darren Hardy (Stanford University)
- Tom Brittnacher (UC Santa Barbara)
- Eliot Jordan (Princeton University)
- Kim Durante (Stanford University)

Thank you for your attention