Islandora and Linked Open Data

Erin Tripp, discoverygarden inc
erin@discoverygarden.ca
Islandora & Linked Open Data

- Islandora Open Source Software and Community
- Linked Open Data (LOD)
- Islandora Strengths and Weaknesses in LOD
- Future Islandora development impacting LOD
Open Source Software Community

http://islandora.ca/islandora-installations
Linked Open Data – the Basics

• Connecting related data on the web using three main tools
  • HTTP – on the web
  • URI – identifiers
  • RDF - group of specifications for modeling information

http://linkeddata.org/
LOD and Islandora – Custom RDF - Delft

```
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">
  <rdf:Description rdf:about="info:fedora/po:10">
    <isMemberOfCollection xmlns="info:fedora/fedora-system:def/relations-external#" rdf:resource="info:fedora/collection:koloniaal_erfgoed"/>
    <prefName xmlns="http://www.library.tudelft.nl/ns/rdf/bio/" Collège Sainte-Barbe</prefName>
    <locatedIn xmlns="http://www.library.tudelft.nl/ns/rdf/core/" rdf:resource="info:fedora/gn:2988507"/>
  </rdf:Description>
</rdf:RDF>
```
The Repo

Colonial architecture & town planning

Explore European colonial architecture after 1850

The digital repository seeks to combine digital library expertise with the expertise of international scholars specialised in colonial architecture and urbanism. The main objective is to play a central role in the current renaissance.
Villa Isola
Bumi Siliwangi

AAT concept
- villas [country houses, rural houses, ...]
- grand hotels
- universities [buildings]

Person
- Wolff Schoemaker, C.D. [architect]

Location
- Jalan Setyo Budi, Bandung

Construction date
- 1933

References
- en.wikipedia.org
Lorem ipsum dolor
LOD and Islandora – Resource Index

- Indexes RDF as part of the Resource Index.
- Provides unified "graph" of the objects and their relationships.
- It can be queried using RDQL or ITQL.
LOD and Islandora - Weaknesses

• Islandora’s RDF
  • Not easily available to other frameworks

• Accessible only via
  • query to the resource index directly
  • Islandora Rest API
  • Exporting

http://semweb.salzburgresearch.at/apps/rdf-gravity/
LOD and Islandora – What’s Next?

• Delft project goes ‘live’ in September

• Other adopt new functionality – generalize it.

• Tell us – is this a priority?

• Discuss improvements – is a Sparql end point feasible? Recommended?
LOD & Islandora – Future Developments

• New modules are being developed by the community

  • EasyLOD
    • Creates an RDF description corresponding to an existing MODS XML record.

  • Islandora Sync
    • Created Drupal Node for Fedora objects
      • Opportunities for creating RDFa

  • LoC subject authority module
    • Built during Islandora Camp in New York
discoverygarden inc.
sandbox.discoverygarden.ca
erin@discoverygarden.ca