



Linked Infrastructure for
Networked Cultural Scholarship

Linked Data Technologies for Canadian Humanities Research Infrastructure

Problem:

- Digital Humanists → complex, diverse, unstructured and semi-structured “cultural heritage” data
- Plenty of data, often uncontextualized, disconnected from related data

Solution:

- The Linked Infrastructure for Networked Cultural Scholarship (LINCS) Project
- National cyberinfrastructure project converting and publishing cultural heritage data as LINKED OPEN DATA

What is Linked Open Data?

- Encode pre-existing structured data with semantic meaning
- Standardized trusted vocabularies (e.g. Library of Congress, Geonames, Wikidata, etc.) and formalized ontologies (e.g. CIDOC-CRM, FRBRoo, etc.)
- Standard protocols (e.g. Resource Description Framework (RDF), HTTP, SPARQL, etc.)
- Ubiquitous on the Web as metadata (e.g. Schema.org, open graph (og), etc.)
- Applications in artificial intelligence, machine learning, etc.
- Examples in the wild include Wikidata, Google knowledge panel, Library of Congress Linked Data Service, Europeana, and many other cultural heritage institutions.

Why linked open data?

- Bring siloed data together, integrate it, share and discover
- Add meaningful connections to otherwise disconnected data
- Leverage that meaning to find shared meaning between datasets





Linked Data Authorities




X3ML Toolkit



Modeling & Conversion
(Microservices)



Storage / Publication



S3 Object Storage



Auth Services

KUBERNETES




openstack.
COMPUTE CANADA CLOUD



GITLAB



More Information

[LINCS Project Website](#)

[LINCS Gitlab Repository](#)

[LINCS Kubernetes Configurations](#)

