What IS Happening With All This: ORE Applications

- Strategic Indicators
- Creation
- Visualization
- Current Data Providers
- Repository Interfaces
- Tools
Strategic Indicators

- OREChem
  - Microsoft funded project: Cornell, Cambridge, Indiana
  - Compound Objects – Chemical Markup plus documents
  - Knowledge Aggregations – Bundles of information about chemicals

- DataNet
  - Data Preservation and Re-use
  - ORE as glue for interoperability between environments
  - NSF ($$$M, multi-year)

- DRIVER2, Europeana, TEL
  - EU funding
  - European Cultural Heritage exposed via ORE
Strategic Indicators

- Open Annotation Collaboration
  - http://www.openannotation.org/
  - Interoperable annotation via ORE
  - Mellon funded – just started
  - Partners:
    - LANL
    - UIUC
    - U. Queensland
    - Center for History and New Media (GMU)
    - Maryland Institute for Technology in the Humanities
    - JSTOR
ORE Applications

Creation: Microsoft Word

![Image of Microsoft Word interface with a Document Map dialog box open, showing options for adding document elements to the resource map, including tables, figures, media objects, equations, and chemical formulas.]
Creation: Microsoft Word
Creation: Microsoft Word
Creation: LORE

Firefox plugin to create ORE Resource Maps

• Not currently available, but GPL version coming soon

• http://blip.tv/file/2132990/
Visualization: Foresite Explorer

Firefox plugin to visualize ORE Aggregations

- Greasemonkey script (works on all sites)
- Dynamic SVG and AJAX

  (top search result for greasemonkey in google)

- http://foresite.cheshire3.org/explorer/

All of the links available at:
http://www.groupme.org/GroupMe/tag/oai-ore
(also available as ORE, as we'll see)
Data Providers

- Library of Congress: Chronicling America (native)
- JSTOR (wrapped, native version coming soon)
- MyExperiment (native)
- Flickr (wrapped)
- GroupMe (wrapped, native version coming soon)
- Oxford Research Archive (native)
- Word Press (native via plugin)
- Amazon (wrapped)

- You? (coming soon)
Repository Interfaces

- EPrints
- Fedora
- DSpace
- ICE
- Omeka
- Microsoft Zentity
- Cheshire3
- Drupal (coming soon)
Tools and Libraries

- Foresite Libraries
  (python, java)

- Foresite Transformer

- LANL Atom Validator

- OAI4J Library
  (National Library of Sweden)

- RDF Library is 95% of what you need
  (eg jena, rdflib, rap)
Foresite Python Library

- Object Oriented layer over RDF Library
- Easy [black] magic interfaces
- Parses, Serializes all formats

```python
a = Aggregation('uri-a')
a.title = 'My Aggregation'

r = AggregatedResource('uri-ar')
a.add_resource(r)

me = Agent('uri-me')
me._foaf.name = 'Rob Sanderson'
a.add_agent(me, 'creator')

srlz = AtomSerializer()
rem = a.register_serialization(srlz, 'uri-r')
rd = rem.get_serialization()
```
Questions?

• Thanks for Coming!

• URIs to write down:
  • http://www.openarchives.org/ore/ (ORE Specification)
  • http://groupme.org/GroupMe/tag/oai-ore (All the URLs from this presentation in groups)