

Visualizing JSTOR: Exploring OAI-ORE for Information Topology Navigation

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http://www.openarchives.org/ore/

http://foresite.cheshire3.org/









Summary

- JSTOR Digital Archive of Scholarly Communication
- ORE Model for JSTOR
- Resource Map Implementation
- Visualization Implementation
- Demo
- Expanding beyond JSTOR
 - Chronicling America
 - Flickr
 - MyExperiment.org
 - Oxford Research Archive
 - WordPress
 - GroupMe







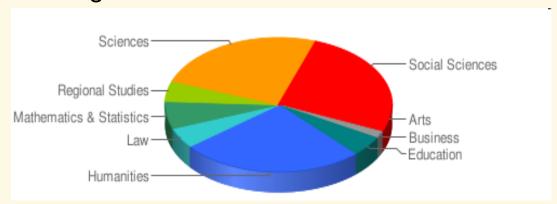


JSTOR Digital Archive

- Provides full text journal articles (pdf, image, text)
- Extensive holdings, with complete coverage:

Journals	1,012
Issues	244,933
Full Articles	2,407,077
All Articles	4,895,388

- Full text and metadata search, browse
- Broad discipline coverage:











JSTOR Digital Archive: Data for Research

- Metadata and full text made available for Foresite Project
- JISC funded experiment with ORE (6 months, 2008, Liverpool/JSTOR/HP)
- Metadata: 8 Gigabytes of Compressed XML
 - One entry per issue
 - Journal, Issue, Article metadata
 - Including parsed references (~25% coverage)
- Web site: http://dfr.jstor.org/
- SRU Interface: http://dfr.jstor.org/sru
- ORE Resource Maps coming soon
- Full dataset available under research license: email atr@jstor.org



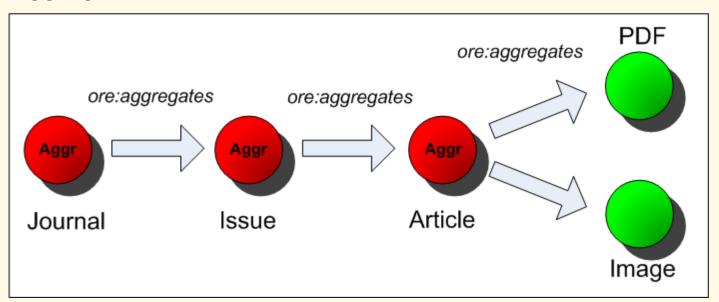






ORE Model for JSTOR

- Aim: Model scholarly communication holdings using ORE
- Nested Aggregations!



■ JSTOR can expose metadata in Resource Maps without releasing publisher's full text. Final PDF and Images behind JSTOR authentication.



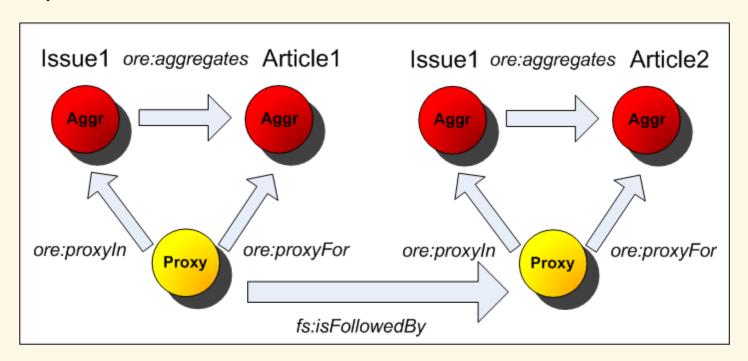






ORE Model for JSTOR

Proxies Important!



Need to have explicit ordering in graph



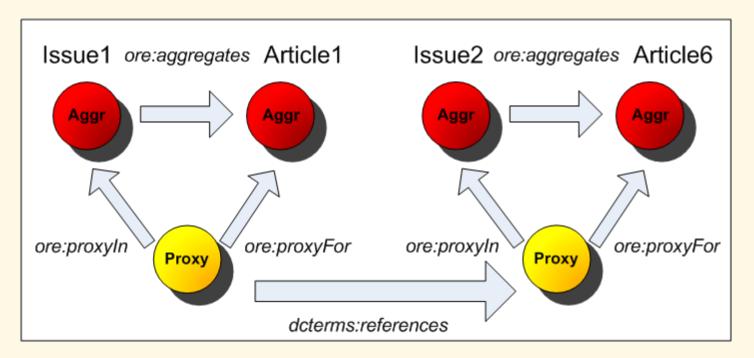






ORE Model for JSTOR

Proxies Important for other reasons too:



Need to model citations!









Resource Map Implementation

- Python Foresite Library
 - RDF Native format, and exports Atom, RDFa
 - Object Oriented with [black] magic get/set functions
 - http://foresite-toolkit.googlecode.com/
- Cheshire3 Information Framework
 - Maintains metadata, have to search for references/isReferencedBy
 - Have to search for all issues in journal and process 1000s of records
 - http://www.cheshire3.org/
- Apache/ModPython
 - Content Negotiation, Caching
 - Python VM and code initialized once per server lifetime









Visualization Implementation

- Want to visualize the data in conjunction with the main JSTOR web site
- Firefox + GreaseMonkey
 - Allows manipulation of <u>other people's</u> web sites...
 - Like http://www.jstor.org/
 - Allows cross-site AJAX, normally a security issue
 - From www.jstor.org to foresite.cheshire3.org for Resource Maps
- Dynamic SVG
 - Allows creation and manipulation of images in SVG via javascript
 - Can be linked to javascript mouse events (onclick, hover etc)
 - All via regular Javascript DOM manipulation ...
 - ... so easy to integrate with AJAX to fetch information









Demo

- GreaseMonkey: https://addons.mozilla.org/en-US/firefox/addon/748
- Explorer: http://foresite.cheshire3.org/explorer/foresite-explorer.user.js
- http://www.jstor.org/stable/j100565
- http://chroniclingamerica.loc.gov/lccn/sn85066387/
- http://www.flickr.com/search/?q=franz+josef
- http://www.myexperiment.org/Packs/30
- http://ora.ox.ac.uk/objects/uuid%3A1c8c74e4-2d9c-4b0e-abee-1bfd8a838ebd
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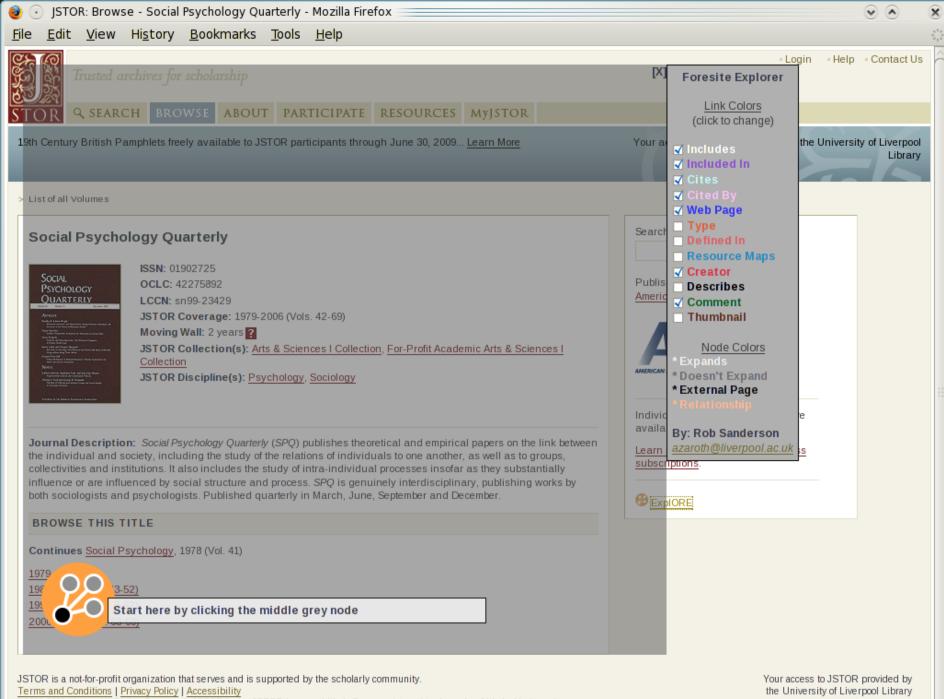
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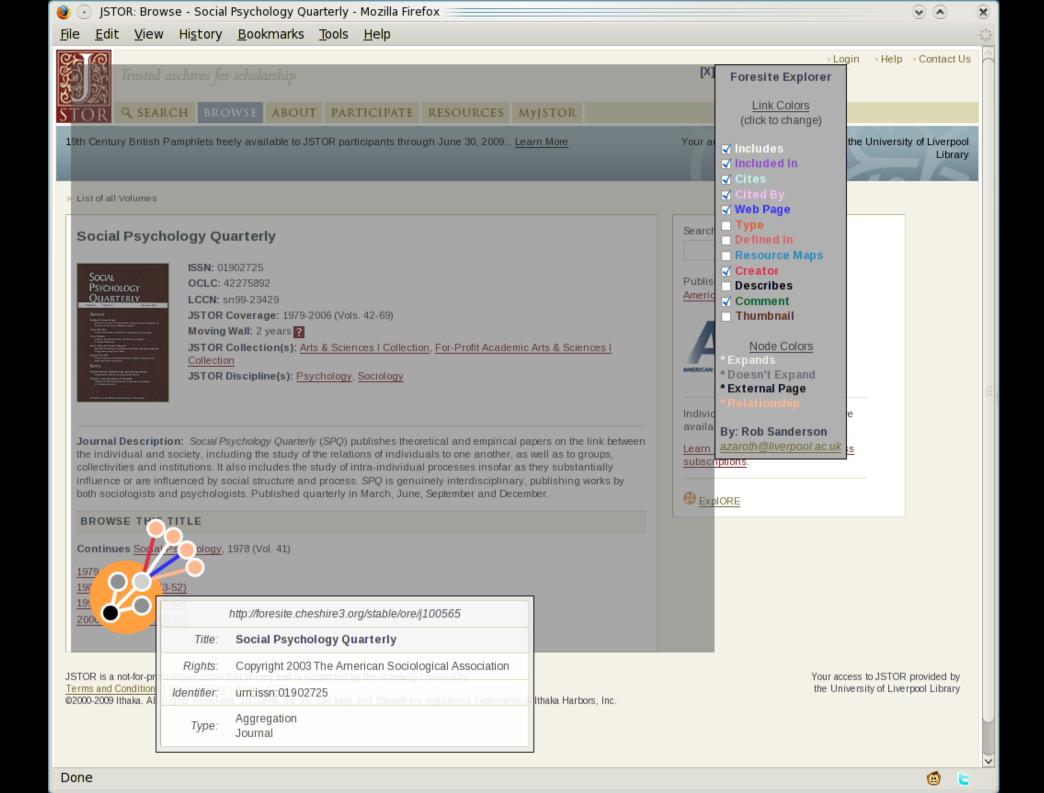


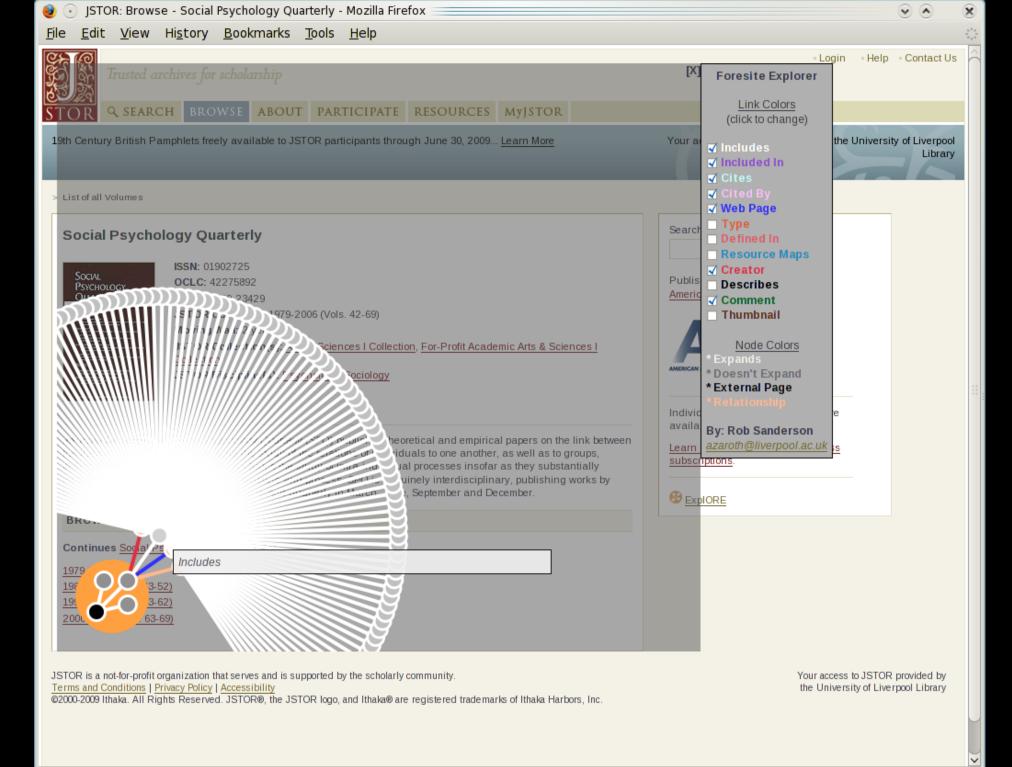


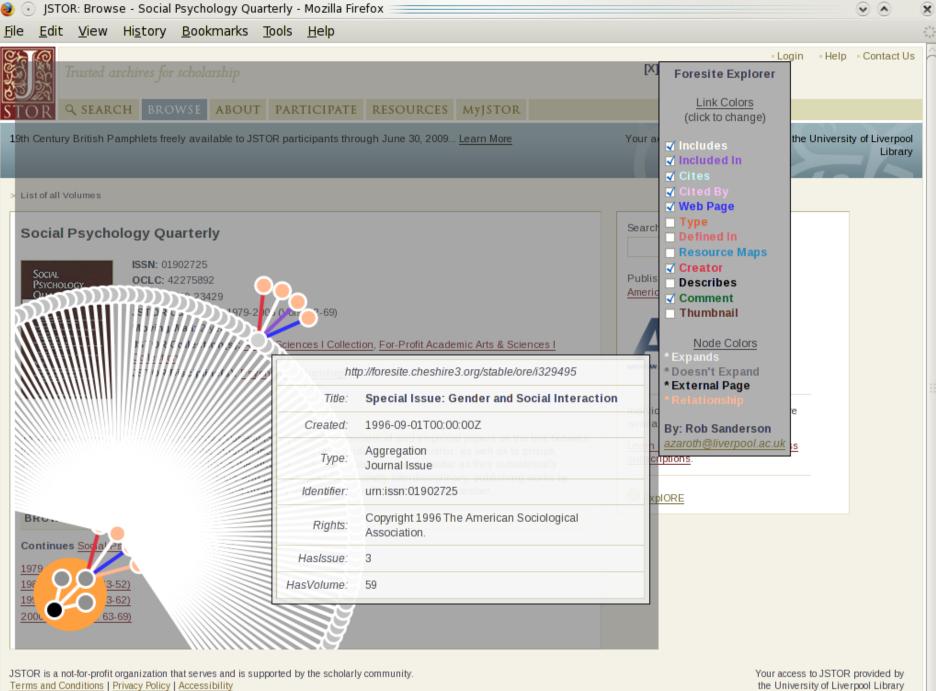
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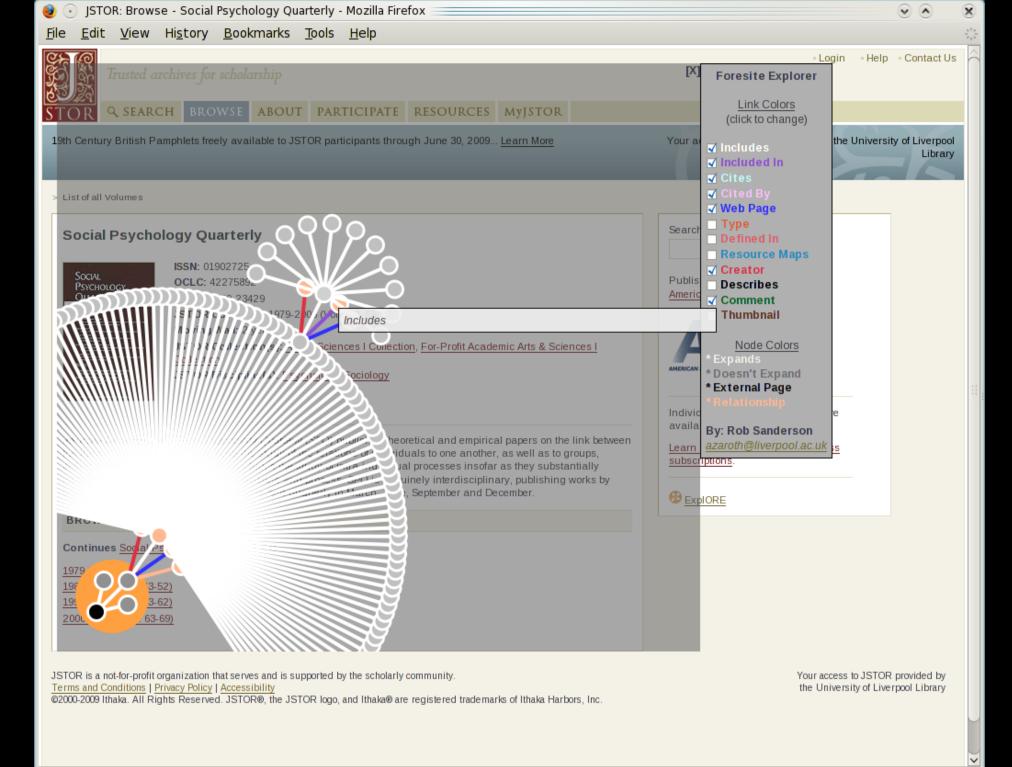


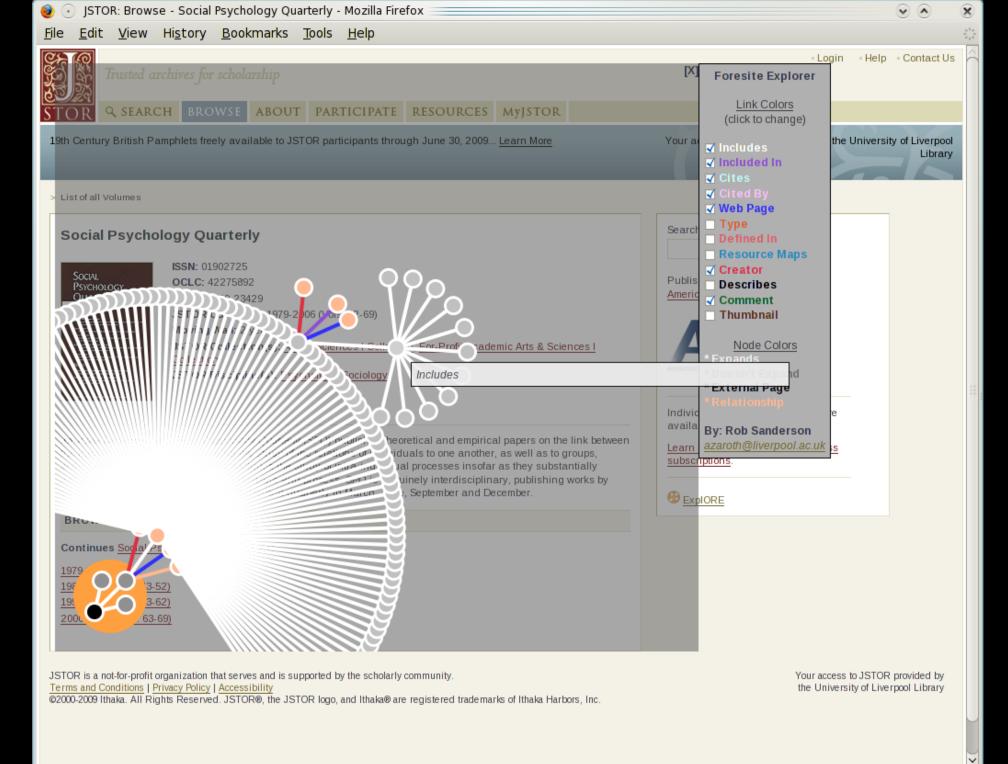


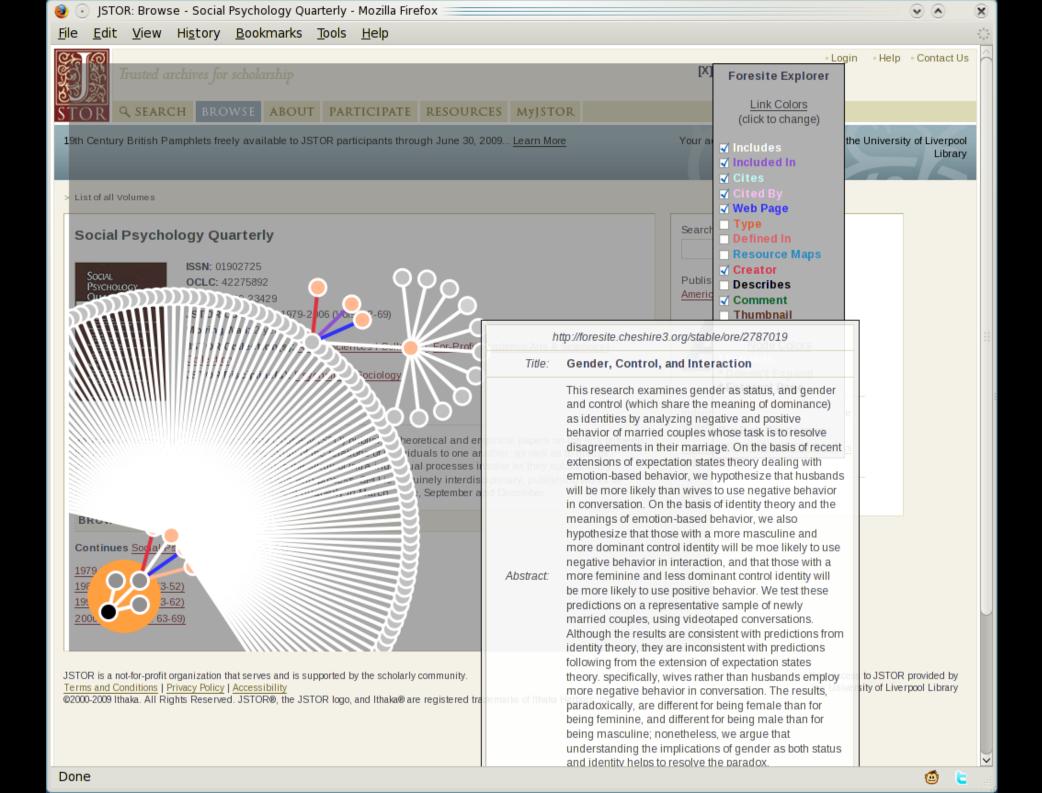


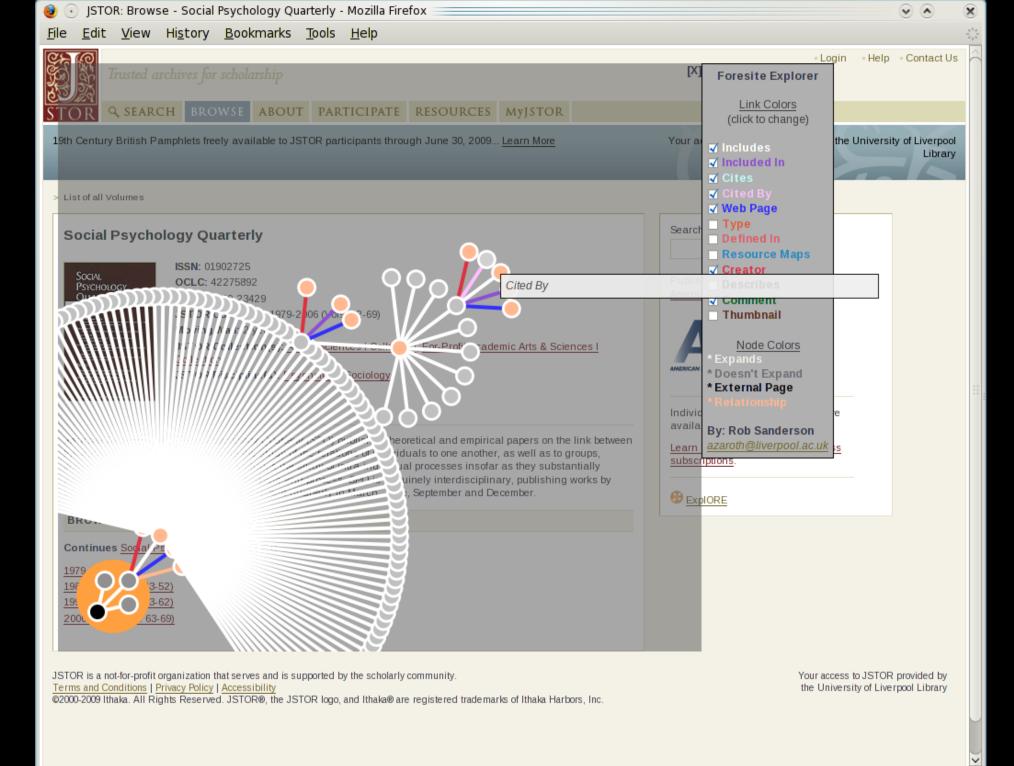
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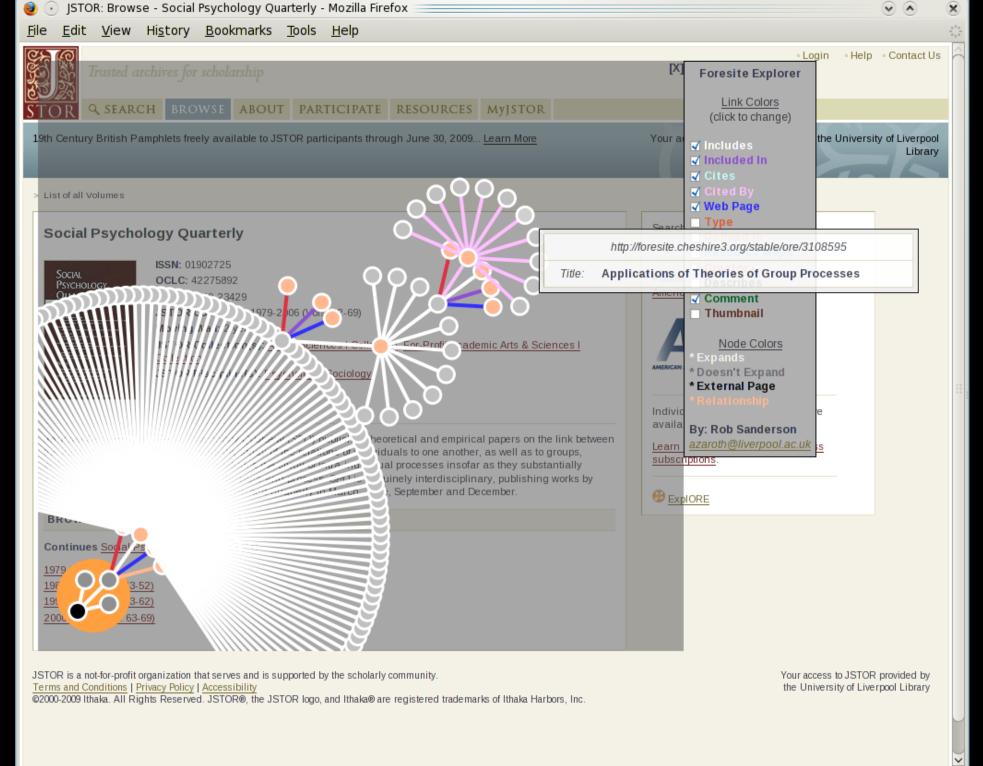


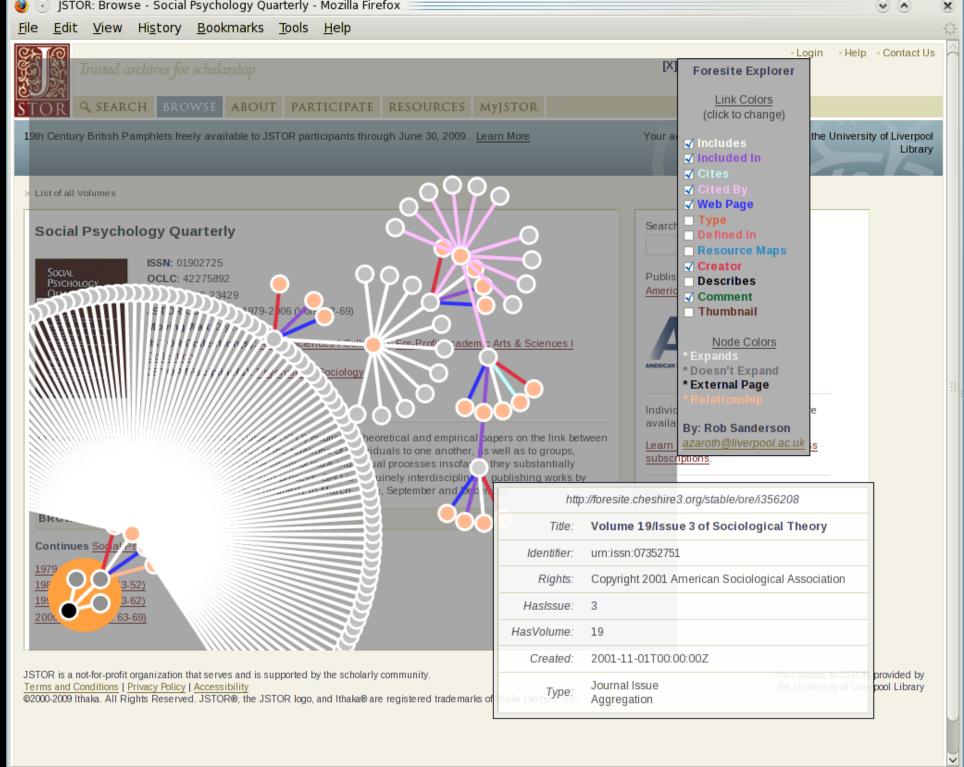




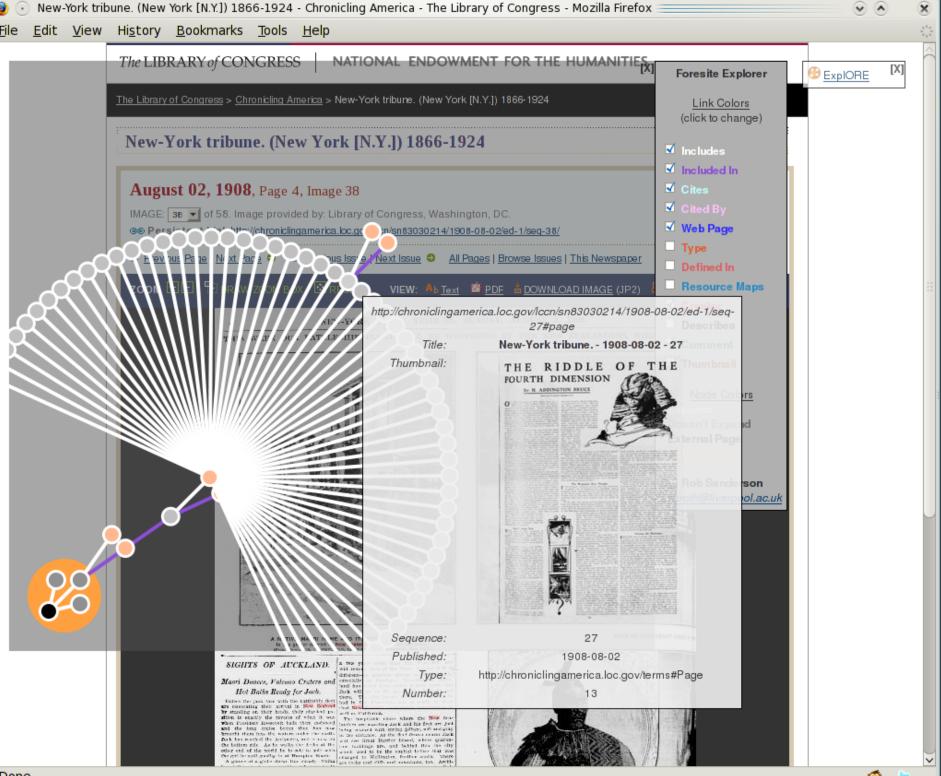


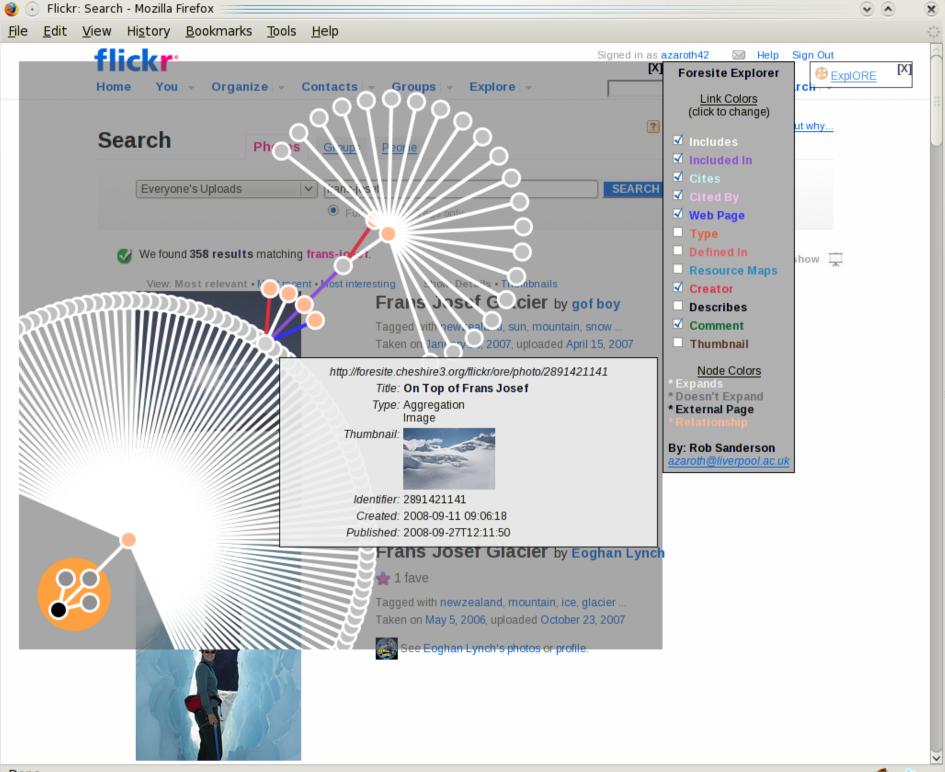


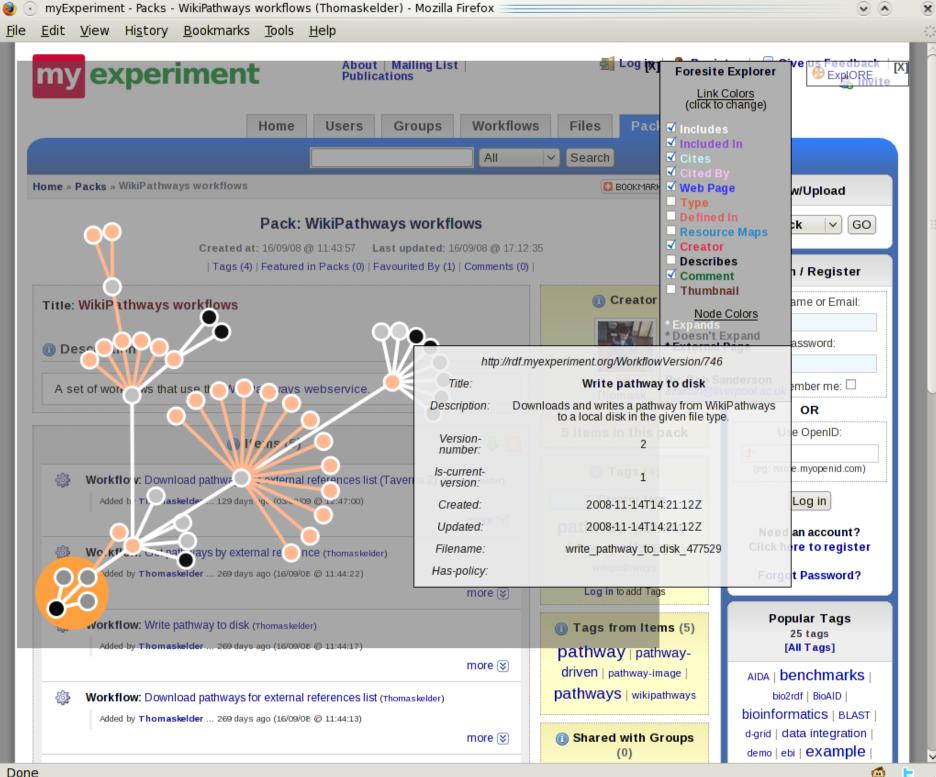


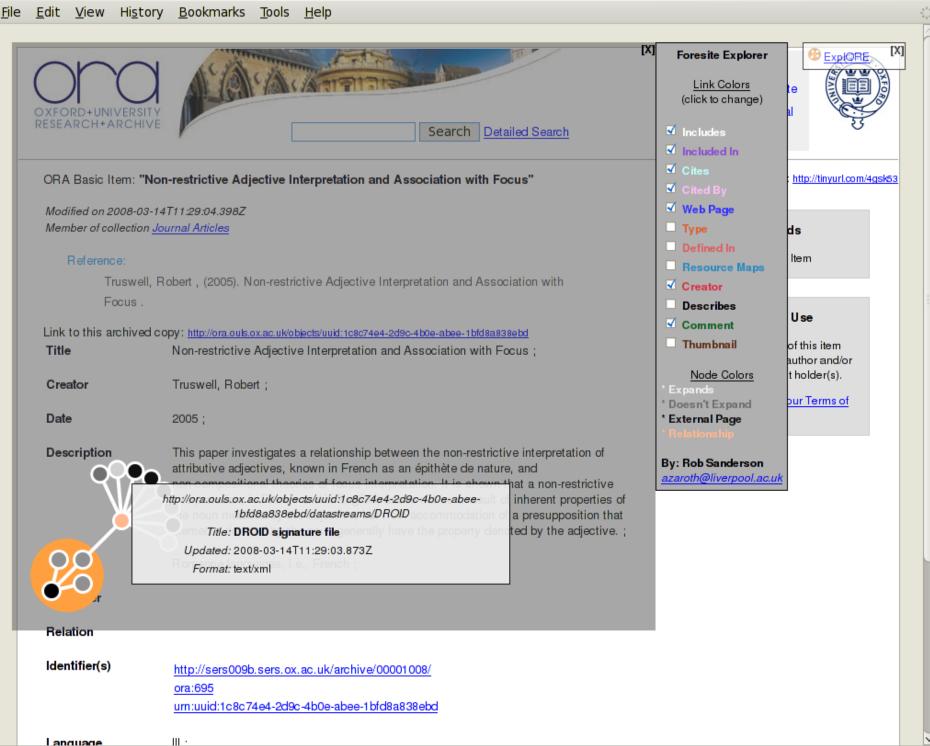


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