Implementing a new Carolina Digital Repository: customizations and change

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> Samvera Connect October 24, 2019





Background

Carolina Digital Repository split

- Institutional repository content → Hyrax
- Digital collections content → custom Fedora



New Platform Wish List

- Custom branding
- SEO
- Analytics
- Content discovery
- Support existing use cases
- Consolidate worktypes





Project scope by the numbers

Works to Migrate: 28,000-ish

Worktypes: 9

Collections: 18

Workflows: 5

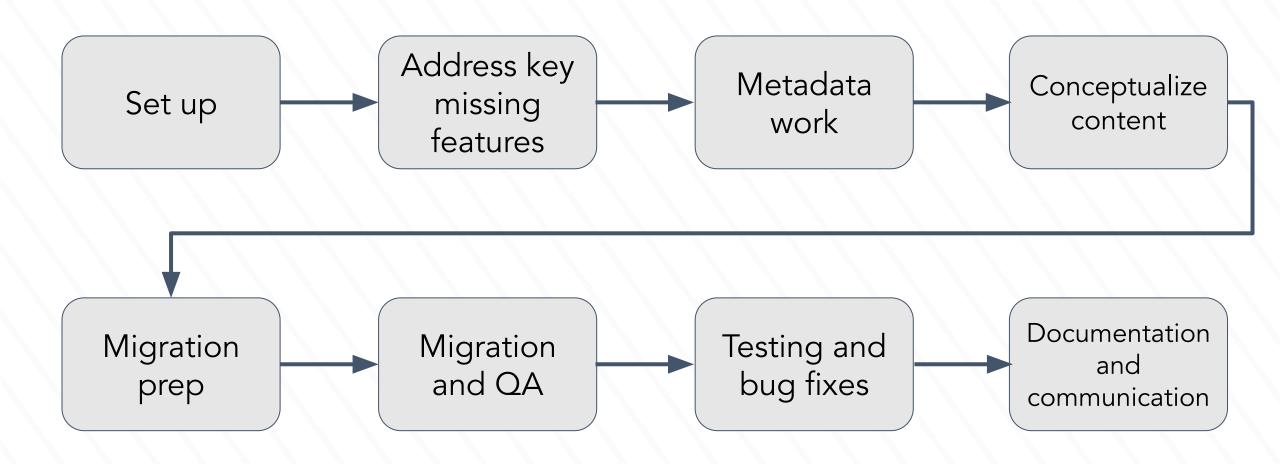
Staff: 16+



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Extremely simplified migration flow





Local work

- People objects*
- Object-specific permission assignments*
- Merging analytics*
- Admin roles and permissions
- Tombstones
- Department browse
- Link from child work to parent
- DOI minting
- EDTF conversion

Community work

- Analytics work
- Simple UI fixes (moving or adding links, enforcing application template, etc)
- Email text customizations
- Documentation
- Release testing process



People objects

- Group name, ORCID, and affiliation
- Nested objects on work record in fedora and structured text in solr
- Editable in work form
- Notes:
 - When removing object, only the associated uri on main record is removed
 - o Scripting edits to people objects requires deleting attributes before replacing with new values



Work record with people objects

The effects of invasive earthworms on understory plant community composition in sugar maple - basswood forests of the Chippewa National Forest, MN over two decades Public



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Citation





Alexander, Genevieve

Affiliation: College of Arts and Sciences, Curriculum in Environment and Ecology

Abstract

Non-native earthworms have invaded natural areas in the Great Lakes region of North Am forests. In Chapter 1, I present a literature review to examine the effects of invasive earth the thickness of the O horizon as a predictor variable to assess the presence of invasive eiminnesota. In Chapter 3, I examine the effects of invasive earthworms on understory plan understanding the effects of invasive earthworms on understory plant composition over m predicted as invasive earthworms continue to spread across the Great Lakes region.

Date of publication

2018

Keyword

Invasive earthworms

forest

Botany

Ecology

sugar maple - basswood

hardwood forests

Plant community composition

Long-term studies

Environmental science

Resource type

Masters Thesis

Advisor

Almendinger, John C.

Peet, Robert K.

White, Peter S.



TTL

http://id.loc.gov/vocabulary/relators/cre

http://localhost/concern/dissertations/vx021f082#nested_persong122643300;

http://id.loc.gov/vocabulary/relators/ths

http://localhost/concern/dissertations/vx021f082#nested_persong122163200,

http://localhost/concern/dissertations/vx021f082#nested_persong122520500">http://localhost/concern/dissertations/vx021f082#nested_persong122520500;

http://localhost/concern/dissertations/vx021f082#nested_persong122163200

 "Peet, Robert K." .

http://localhost/concern/dissertations/vx021f082#nested_persong122305620

http://www.loc.gov/mods/rdf/v1#name "Almendinger, John C." .

http://localhost/concern/dissertations/vx021f082#nested_persong122520500>

http://www.loc.gov/mods/rdf/v1#name "White, Peter S." .

http://localhost/concern/dissertations/vx021f082#nested_persong122643300

http://schema.org/affiliation "Curriculum in Environment and Ecology";

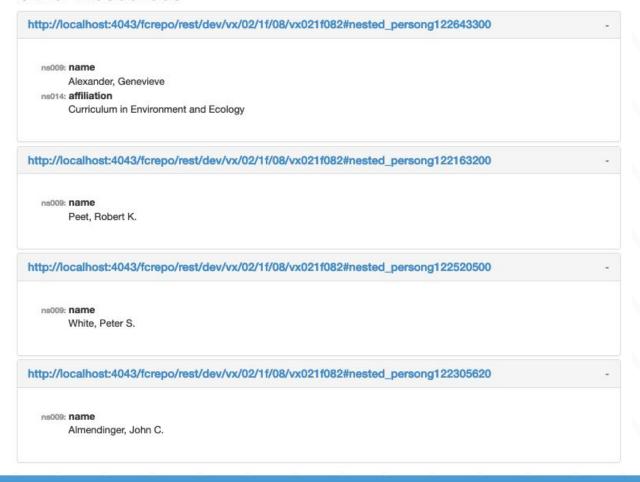
 "Alexander, Genevieve" .



Fedora record before nested object deletion

http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122643300 ns007: dgg University of North Carolina at Chapel Hill Graduate School ns007: dpt admin ns007: ths http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122163200 http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122305620 http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122520500 ns008: hasMember http://localhost:4043/fcrepo/rest/dev/dj/52/w4/69/dj52w469j http://localhost:4043/fcrepo/rest/dev/h9/89/r3/20/h989r3203 http://localhost:4043/fcrepo/rest/dev/s7/52/6c/40/s7526c40b ns012: first http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082/list_source#g111266420 ns012: last http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082/list_source#g83826460 ns014: keywords Botany Ecology Environmental science Invasive earthworms Long-term studies Plant community composition hardwood forests sugar maple - basswood ns019: degree Master of Science ns020: yearDegreeGranted.en 2019

Other Resources





Fedora record after nested object deletion

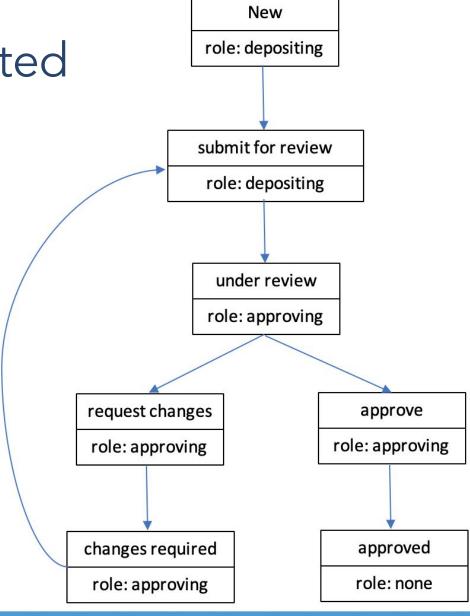
```
ns007: cre
http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122643300
ns007: dgg
University of North Carolina at Chapel Hill Graduate School
ns007: dpt
admin
ns007: ths
http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122163200
http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122305620
ns008: hasMember
http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122305620
ns008: hasMember
http://localhost:4043/fcrepo/rest/dev/dj/52/w4/69/dj52w469j
http://localhost:4043/fcrepo/rest/dev/h9/89/r3/20/h989r3203
http://localhost:4043/fcrepo/rest/dev/s7/52/6c/40/s7526c40b
ns012: first
http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082/list_source#g111266420
ns012: last
http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082/list_source#g83826460
ns013: note
admin accepted the deposit agreement on 2019-10-08 17:21:07 +0000
```

Other Resources

http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122643300	+
http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122163200	+
http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122520500	+
http://localhost:4043/fcrepo/rest/dev/vx/02/1f/08/vx021f082#nested_persong122305620	+



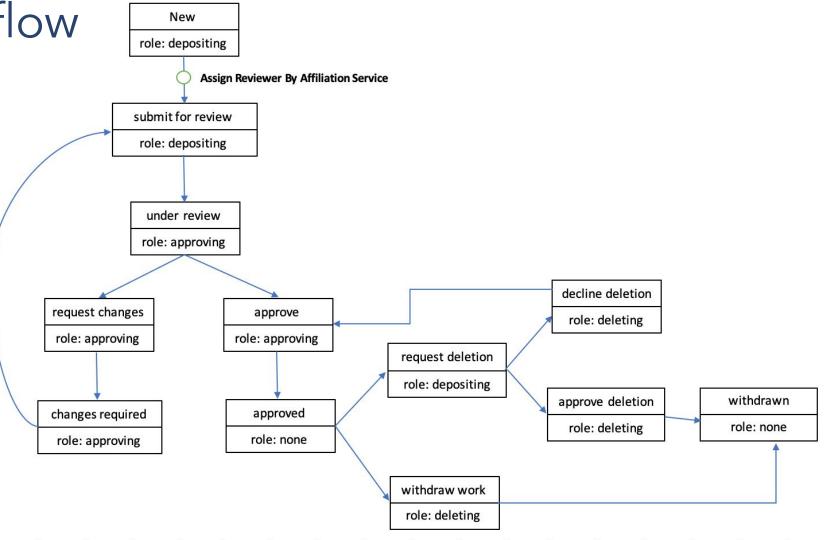
Default mediated workflow





UNC honors workflow

- Custom notifications
- Additional steps for withdrawing items
- Custom permissions service
 - Assign group permissions by affiliation on submission





Analytics

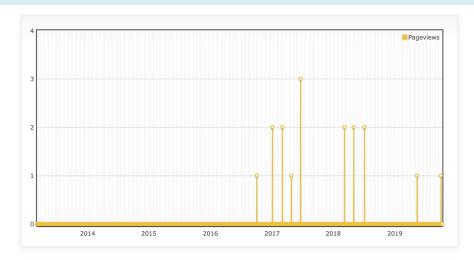
 We wanted to merge our google analytics data in hyrax for migrated content

- Used same account for old and new repositories
- During migration, we generated redirect mappings
- Adjusted google analytics query filters to use regular expressions to search for old and new ids
- Used original ingest date as query start date for migrated works

Orange County Department on Aging: Development of the 2012-2017 Orange County, North Carolina Master Aging Plan

Work Analytics

11 17 views since March 6, 2013





Lessons learned

- Migrations take longer than you think
 - Never give a go live date until it's certain
 - Are cost estimations ever accurate? Or is it scope creep?
 - Celebrate smaller milestones
- No system is perfect
 - Flexibility paid off
 - Solve for the need, instead of replicating exact functionality
- It paid off to work in the community
 - Learning from the community was great
 - Good examples of implemented code



Questions?

Vist the CDR!

- https://cdr.lib.unc.edu
- https://github.com/UNC-Libraries/hy-c

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