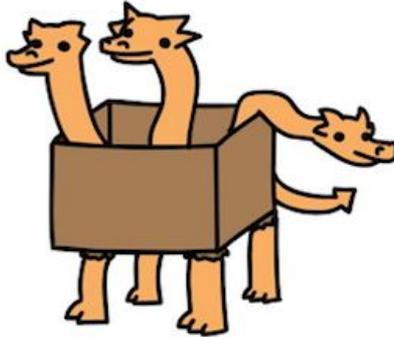


# Hydra-in-a-Box Update: *It's not a snappy turtle*



Hannah Frost & Mike Giarlo  
Hydra Connect ~ October 4, 2016  
<http://bit.ly/hybox-update-hc2016>



Heracles approaches Hydra on the shores of Lerna (reenactment)

# Project Background

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- 30 month National Leadership Grant from IMLS
- Fostering a national digital platform through community-based repository infrastructure
- Leverage & contribute to Hydra, both in code and community



STANFORD  
UNIVERSITY  
LIBRARIES



INSTITUTE of  
Museum and Library  
SERVICES



# Project Goals

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1. Develop turnkey, Hydra-based application that leverages and improves on core components
2. Develop metadata aggregation & enrichment tools
3. Connect components with DPLA hubs, current Hydra partners & prospective Hydra adopters
4. Work toward a hosted service

# Work Accomplished to Date

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- Repository Product
  - Design Research (Jun 2015 - Jun 2016)
  - Two Development Work Cycles (Mar - Nov 2016)
- Hosted Service
  - Technical implementation in hand
  - Business planning underway
- Aggregation Tooling

# Design Artifacts Published, Survey Data Archived

The screenshot shows a DURA SPACE page titled "Hydra-in-a-Box Design Documents". The page is created by Gary Geisler and last modified by Hannah Frost. It contains several sections of design artifacts:

- Design Brief:** A two-page summary of the project goals, partners, scope, and design and development process.
- Discovery Research:**
  - Environmental Scan:** Summary of relevant literature and websites reviewed to learn from related research and better digital repository landscape. Includes a spreadsheet of potential system and user requirements gathered from external sources.
  - Competitive Analysis:** Summary of other digital repository products and services.
  - Community Survey:** Raw data collected from a July 2015 web-based survey. Contains anonymized data from 248 copies of the data, also available in the Stanford Digital Repository. Includes a final report of the same survey, containing both executive summary and detailed findings sections.
  - User Interviews:** Report on interviews and focus groups conducted in Summer and Fall, 2015. Contains both executive summary and detailed findings sections.
- Information Architecture:**
  - Requirements:** Prioritized list of requirements for the project.
  - User Personas:** Six user personas developed for the project.

The screenshot shows the Stanford Digital Repository page for "The Hydra-in-a-Box Survey on Digital Repositories". The page is part of the "Stanford University Libraries" collection, specifically "Stanford University Libraries staff publications and research". It displays two items:

- Hydra-in-a-Box Community Survey Results.xlsx  
Survey data  
1.91 MB
- Hydra-in-a-Box User Survey.pdf  
Survey data report and summary  
1.11 MB

Below the items, there is a section for "Access conditions" and "USE AND REPRODUCTION". The "USE AND REPRODUCTION" section states: "User agrees that, where applicable, content will not be used to identify or to otherwise infringe the privacy or confidentiality rights of individuals. Content distributed via the Stanford Digital Repository may be subject to additional license and use restrictions applied by the depositor."

All available on the project wiki:

<http://bit.ly/hybox-design-docs>

# Features of Note

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- DPLA MAP v4 and ResourceSync for harvesting
- Administrative Sets
- Batch import, batch metadata editing

# User Interface Designs

The image displays two overlapping screenshots of the Stanford Digital Repository user interface.

**Left Screenshot (Public Website):**

- Header:** STANFORD UNIVERSITY LIBRARIES, repo-manager@stanford.edu, Feedback.
- Page Title:** Stanford Digital Repository Online Deposit.
- Navigation:** HOME, ABOUT, HELP, CONTACT.
- Share Your Work:** A prominent red button.
- Featured Works:** A list of featured research items, including "Pearse, John S. (2003 - 2009). Long Term Monitoring of Harbor Seals on the West Beach of Hopkins Marine Station" and "Lobell, D.B. (2014) Files for 'Greater Sensitivity to drought accompanies maize yield increase in the US Midwest.'"
- Explore Collections:** A section for exploring collections, featuring items like "Butterfly image" (63 items), "Steven Chu Papers" (4 items), "Stanford University 1930s through 1950s" (287 items), and "Hand-Tinted Photographs" (56 items).

**Right Screenshot (Administrative Dashboard):**

- User Profile:** Hannah Frost, Digital Repository Manager.
- Activity:** Repository activity, Your activity.
- Configuration:** Settings, Roles and permissions, Site maintenance.
- Repository Objects:** Administrative sets, Collections, Works, Files.
- Tasks:** Bulk edit, Import and Export, Reports.
- Statistics:** REGISTERED USERS (Current: 375), TOTAL VISITORS (Past 30 days: 3,548), RETURNING VISITORS (Past 30 days: 1,695), NEW VISITORS (Past 30 days: 1,977).
- Collections Table:**

| COLLECTION                                                                        | STATUS      | OBJECTS |
|-----------------------------------------------------------------------------------|-------------|---------|
| Stanford University, Center for Computer Research in Music and Acoustics, Records | Published   | 42      |
| Order of Siberian Snow Dogs Photographs and Roster                                | Unpublished | 20      |
| Donald E. Knuth Papers                                                            | Published   | 71      |
| Stanford Student Photograph Album                                                 | Published   | 2064    |
| Stanford University, Department of Computer Science, Technical Notes              | Published   | 388     |

- User Activity:** Bar chart showing new and returning users from Aug 10 to Aug 16.
- Repository Growth:** Line chart showing growth from 2016-08-11 to 2016-08-15.
- Repository Objects:** Donut chart showing 2,513 Published objects.

# DPLA Aggregator Update

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- Dashboard development starting Fall 2016; focused on providing staff-facing functionality to manage processes
- Working now to clarify requirements of tools to support QA for metadata aggregation
- Ongoing work to improve performance and reliability throughout the stack

# 2017 Plans

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- More development work cycles
  - Content type support
  - APIs
  - Exhibits
- Pilots
  - Locally-installed repository
  - Hosted service pilot
- Naming our repository product

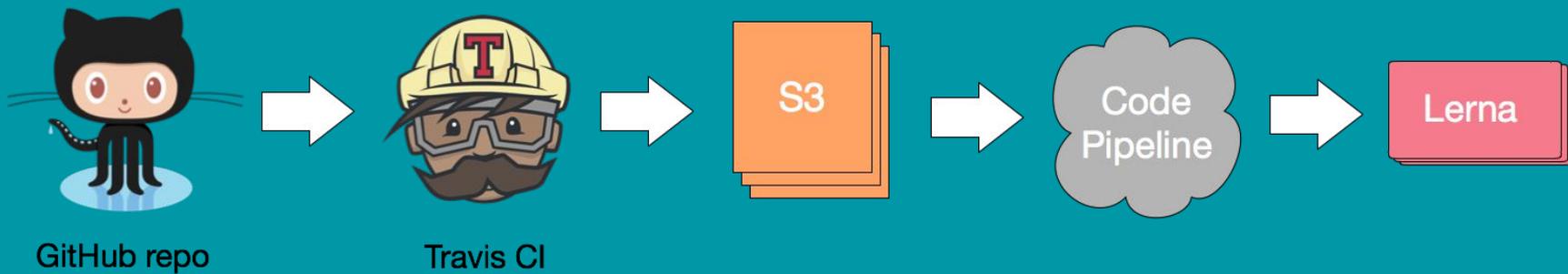
# Repository Development

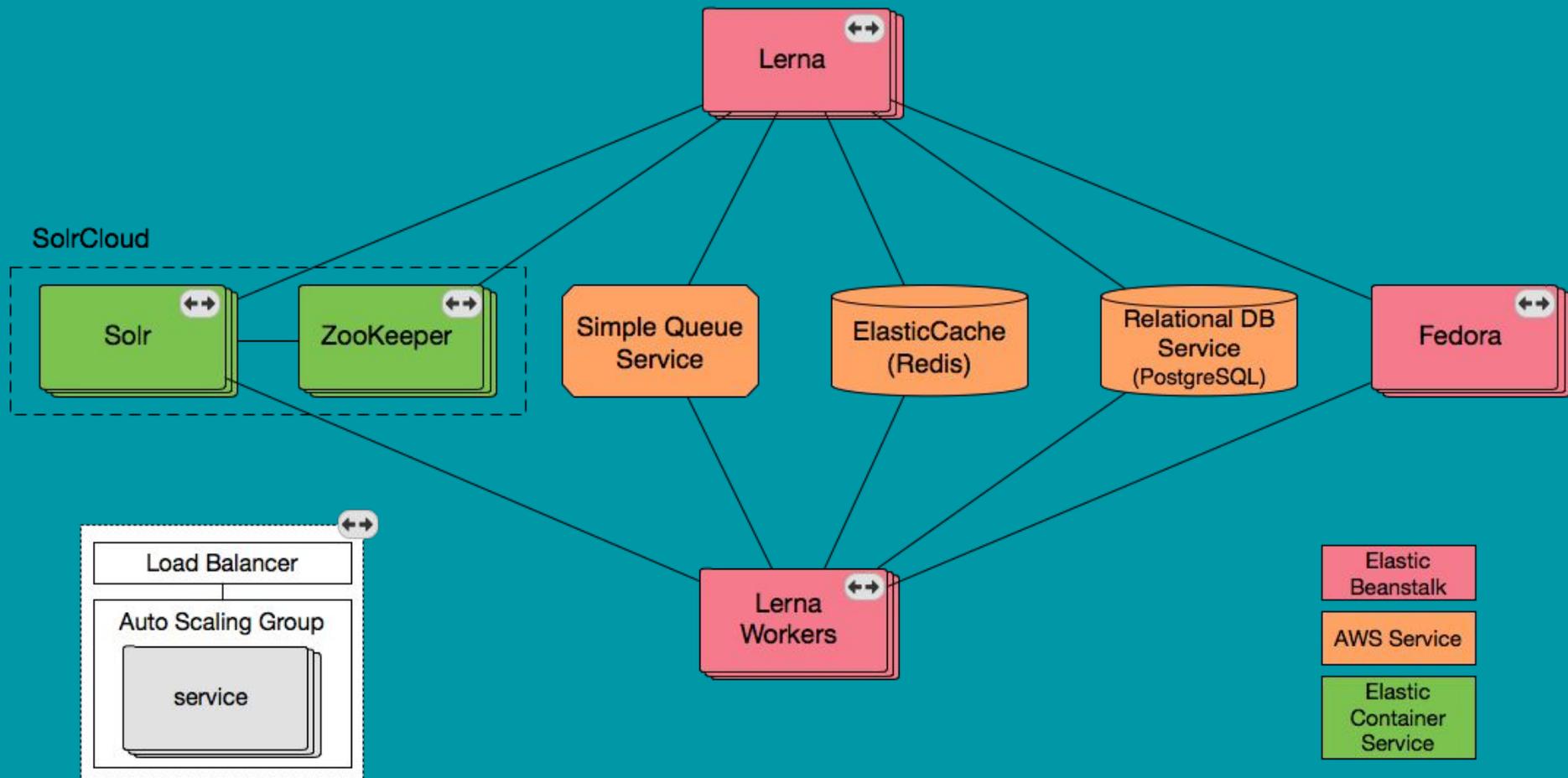
Recap of Jan.-Jun. 2016

# Infrastructure Support and Features



# Continuous Deployment







But wait, there's more...

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HVC2016: <http://bit.ly/hvc2016-video>

July Demo: <http://bit.ly/hybox-summer2016>

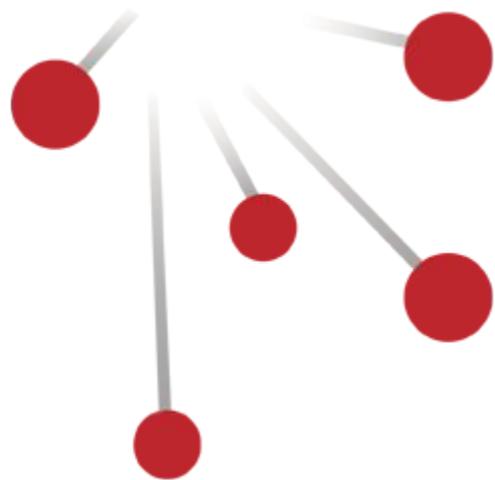
STEVEN SPIELBERG PRESENTS

**BACK**  
**TO**  
**THE FUTURE**<sup>TM</sup>

A ROBERT ZEMMEK'S FILM

# Features, Features, Features

---



**Fedora**<sup>TM</sup>

# Features, Features, Features

---

Improved batch editing of metadata

# Features, Features, Features

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Home / Administration / Administrative Sets

## Administrative Sets

Show  entries

**Title**



**Date created**



**Creator**

[My Admin Set](#)

09/26/2016

mjgiarlo@stanford.edu

Showing 1 to 1 of 1 entries

# Features, Features, Features

---

Mediated deposit workflow

# Features, Features, Features

The screenshot displays the Stanford Digital Repository Administration Dashboard. The interface is divided into a left sidebar and a main content area. The sidebar, on a dark grey background, features the user profile of Hannah Frost, Digital Repository Manager, and navigation options under 'ACTIVITY' (Repository activity, Your activity) and 'CONFIGURATION' (Settings, Roles and permissions). The main content area, on a light grey background, shows the breadcrumb path 'Repository Home > Administration > Repository Dashboard'. Two prominent white boxes display key statistics: 'REGISTERED USERS Current' at 375 and 'TOTAL VISITORS Past 30 days' at 3,548. Below these, a 'Collections' section titled 'Recent collection activity' lists several items, including 'Stanford University, Center for Computer Research in Music and Acoustics, R...', 'Order of Siberian Snow Dogs Photographs and Roster', 'Donald E. Knuth Papers', 'Stanford Student Photograph Album', and 'Stanford University, Department of Computer Science, Technical Notes'.

Stanford Digital Repository

Repository Home > Administration > Repository Dashboard

**REGISTERED USERS**  
Current  
**375**

**TOTAL VISITORS**  
Past 30 days  
**3,548**

**Collections**  
Recent collection activity

**COLLECTION**

- Stanford University, Center for Computer Research in Music and Acoustics, R...
- Order of Siberian Snow Dogs Photographs and Roster
- Donald E. Knuth Papers
- Stanford Student Photograph Album
- Stanford University, Department of Computer Science, Technical Notes

# Features, Features, Features

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Complex objects support

# Ongoing Community Engagement

# Community Sprints

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- Complex objects (Princeton, Oregon State, Chemical Heritage Foundation)
- Mediated deposit (Oregon State, Cincinnati, Indiana, Michigan, Cal State, Penn State, Notre Dame, Cincinnati)
- Admin dashboard (Princeton, Penn State, Cincinnati, Cornell)
- Fedora Import/Export (York (🍁), Columbia, Princeton, Virginia, Penn State, DuraSpace)
- FileSets WG (Art Institute of Chicago and others)

# Ways to Engage

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Interested in participating in the service pilot?

<http://bit.ly/hydrainabox-service-pilot>

Have a name idea?

<http://bit.ly/hybox-repo-name-ideas>

Follow along on YouTube:

<http://bit.ly/hybox-playlist>

# Relevant Sessions at Hydra Connect This Week

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- Poster: Administrative Sets
- Presentation: Technical walkthrough of hosted platform
- Lightning Talks
  - Sipity ; Fedora 4 Import/Export ; IIIF in Hydra
- Unconference
  - “Easy to maintain” ; Workflow in Sufia/CC

# Keep in Touch

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Visit our website and blog: [hydrainabox.org](http://hydrainabox.org)

Follow us on Twitter: [@HydrainABox](https://twitter.com/HydrainABox)



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Contact us: [hybox-contact@googlegroups.com](mailto:hybox-contact@googlegroups.com)

Thank you!