Fedora, Islandora, & Samvera: Requirements and Gaps

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@d_wilcox

Our community is part of an interconnected, worldwide, scholarly ecosystem.

Source: The Digital Ecosystem in the Balanced Value Impact Model (illustrated by Alice Maggs); http://simon-tanner.blogspot.com/2014/09/do-you-understand-your-digital-ecosystem.html

DURASPACE

Fedora...

Stores, preserves, and provides access to digital objects

Supports flexible and complex content models for objects

Supports semantic relationships between objects using RDF

Supports millions of objects, both large and small

Interoperates with other applications and services

Why use Fedora?

Fedora is flexible: it can handle both simple and complex use cases

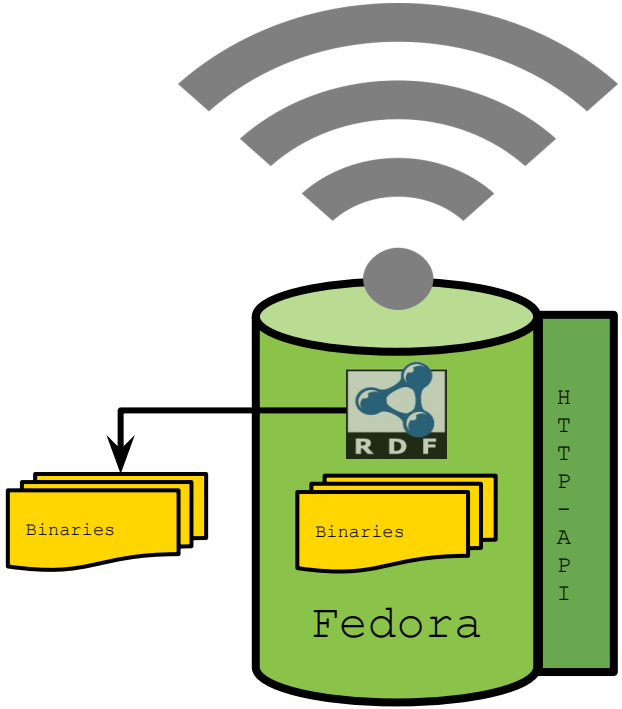
Content in Fedora is durable: Fedora supports digital preservation

Fedora powers successful digital repository applications

Fedora is standards-based

Fedora is backed by a thriving community

High-Level View of Fedora



Samvera (formerly Hydra)...

Builds on Fedora, so you get all the Fedora features, plus...

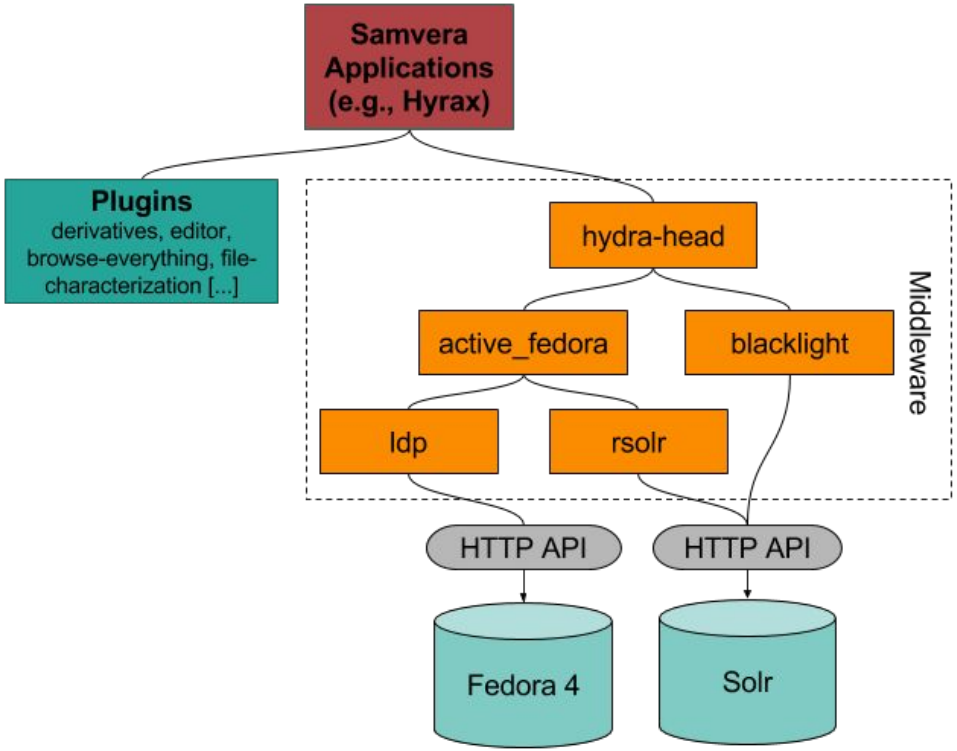
Flexible and rich user interfaces tailored to distinct content types

Solr and Blacklight for search -- fast, flexible, faceted discovery that scales, plus all the benefits of Blacklight community

Choice between whole solutions and modules to build your own

If you want to go far, go together

High-Level View of Samvera

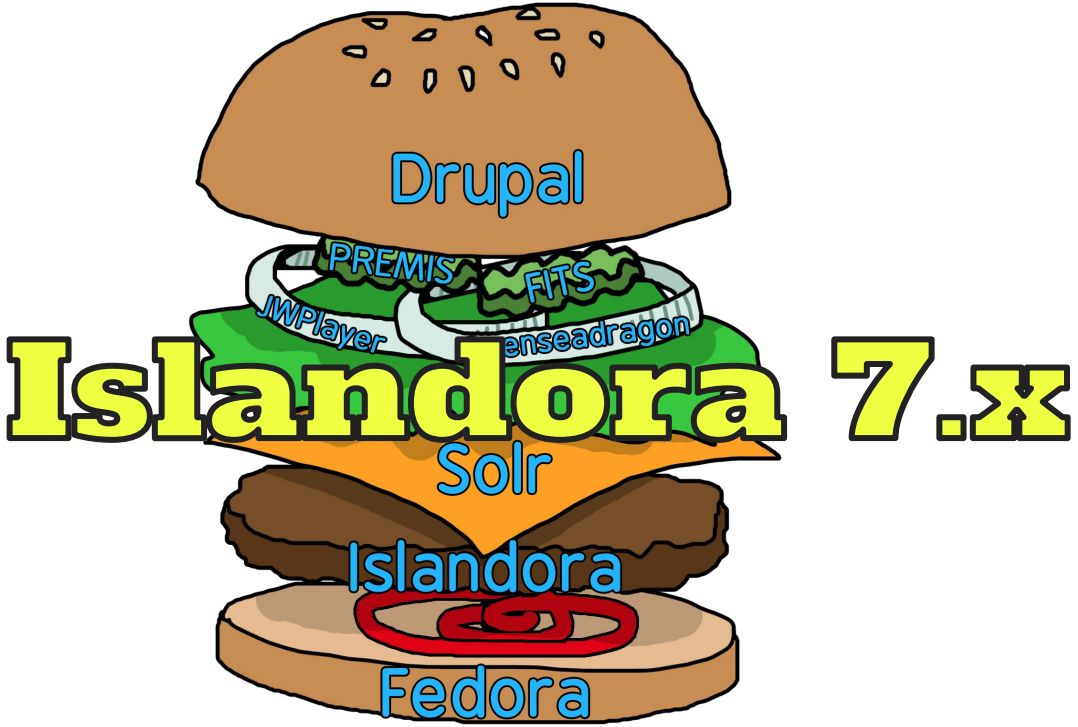


What is Islandora?

Islandora is an open-source software framework designed to help institutions and organizations and their audiences collaboratively manage, and discover digital assets using a best-practices framework.

Current Version

- Drupal 7
- Solr
- Fedora 3
- Solution Packs



The Future

- Drupal 8
- Solr
- Fedora 4
- Modules

Ingest

Portability and Provenance

Software changes over time so data must be able to move freely

Resources can be imported/exported in standard formats and packages

Fedora (optionally) maintains a complete audit history

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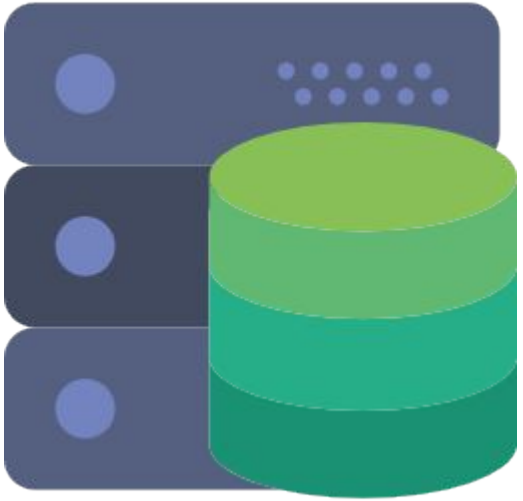
Storage and preservation

Store files in Fedora or use external file systems

Calculate, store, and verify fixity information (checksums)

Maintain a complete version history



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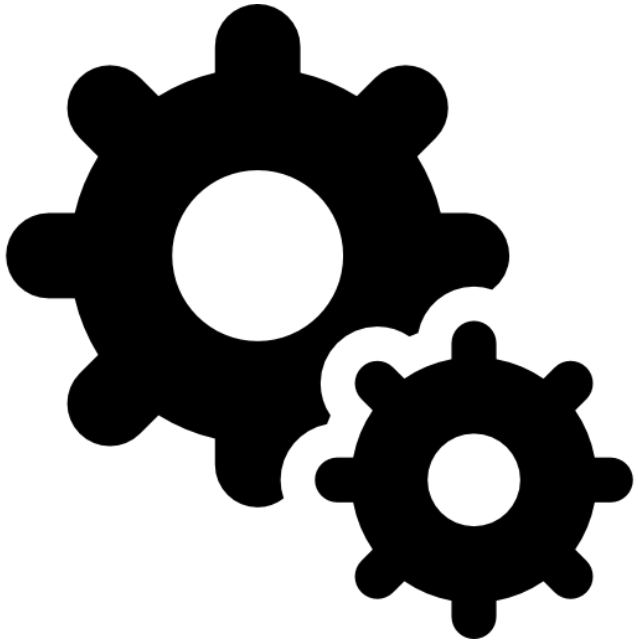
Workflows

Islandora and Samvera provide automated derivative generation

Tasks can be distributed to multiple servers as needed

Common tasks are handled by shareable modules



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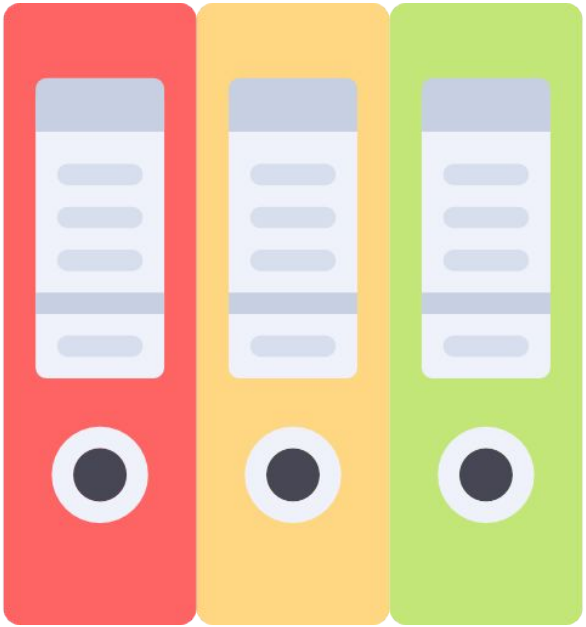
Operations

Metadata



Fedora can support any metadata format/standard

Islandora provides a form builder for customized metadata forms

Samvera forms can be configured in code

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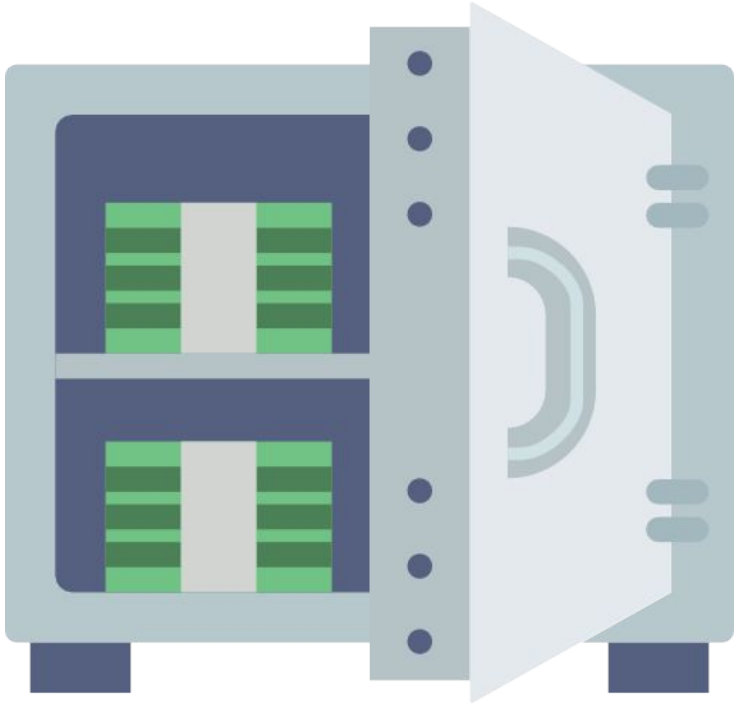
Security

Standardized authorization via Web Access Control

Islandora also supports XACML

Authentication is pluggable - LDAP, Shibboleth, etc.



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Sustainability

Fedora facts

Managed by DuraSpace (not-for-profit)

Funded by the community

Collaboratively developed by the community

Supported by 2 full-time staff members (not developers)

ASU
BROWN
CASE WESTERN RESERVE UNIVERSITY EST. 1826
think beyond the possible
VASSAR
CHARLES DARWIN UNIVERSITY
DEFF
Danmarks Elektroniske Fag- og Forskningsbibliotek
COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
Carnegie Mellon University
docuteam
UNIVERSITY of York
LYRASIS
Advancing Knowledge
DUKE UNIVERSITY LIBRARIES
Durham University
EMORY UNIVERSITY
THE GEORGE WASHINGTON UNIVERSITY WASHINGTON, DC
UNIVERSITY of VIRGINIA
INDIANA UNIVERSITY
NATIONAL LIBRARY OF MEDICINE
UNIVERSITEIT GENT
LA TROBE UNIVERSITY
LAFAYETTE COLLEGE
ICPSR
JOHNS HOPKINS UNIVERSITY
RMIT UNIVERSITY
McMaster University
UCONN
UNIVERSITY OF CONNECTICUT
LSE
THE LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE
OSU
Oregon State UNIVERSITY
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Northwestern
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UNIVERSITY of DENVER
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Smithsonian
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MACQUARIE UNIVERSITY
THE UNIVERSITY of NORTH CAROLINA at CHAPEL HILL
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UNIVERSITY OF MICHIGAN
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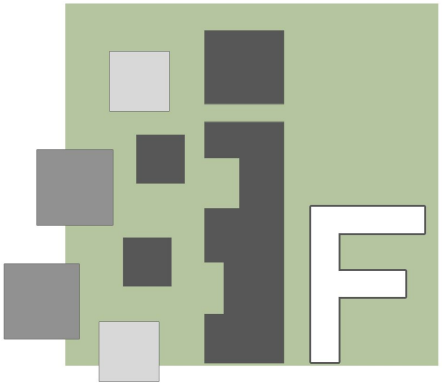
The UNIVERSITY of OKLAHOMA
YORK UNIVERSITY
WISCONSIN UNIVERSITY OF WISCONSIN-MADISON
UNIVERSITY OF TORONTO
University of Pittsburgh
UNIVERSITY OF OREGON
UMassAmherst
THE OHIO STATE UNIVERSITY
VILLANOVA UNIVERSITY
University of the Sunshine Coast Queensland, Australia
Yale

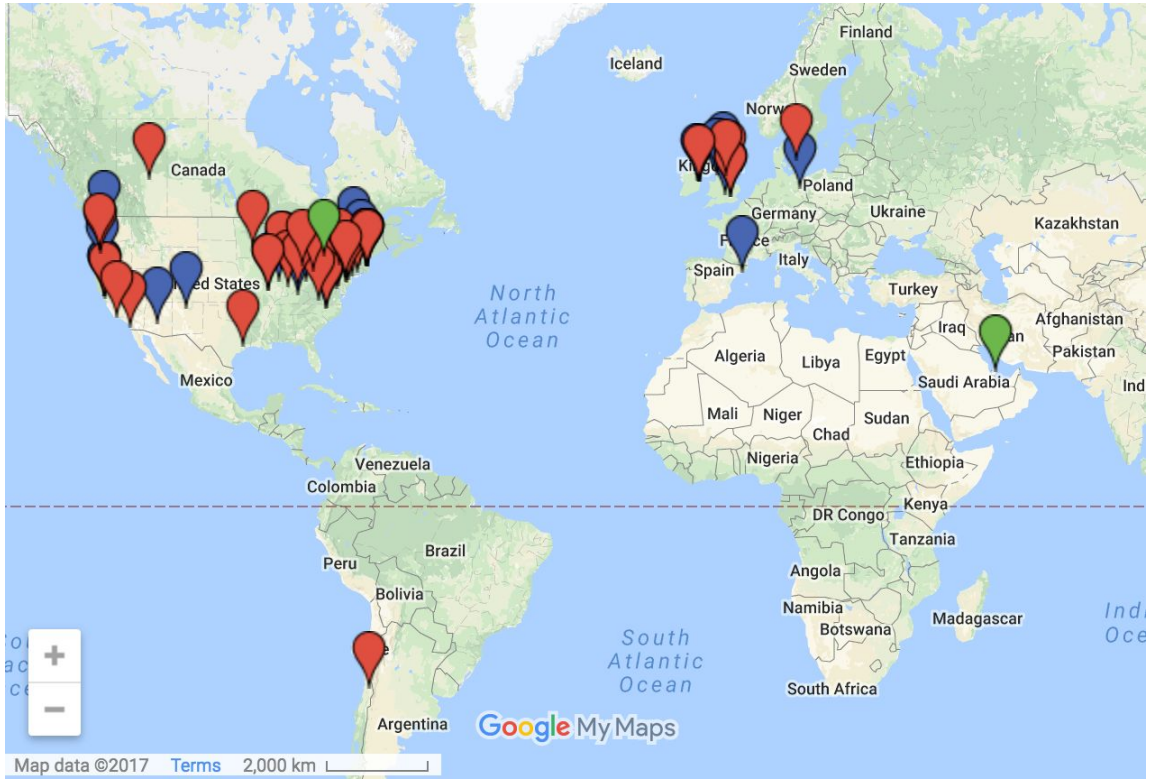
Islandora Foundation

A soliciting non-profit founded in July, 2013 to steward the Islandora project and future development of both the software and the community.



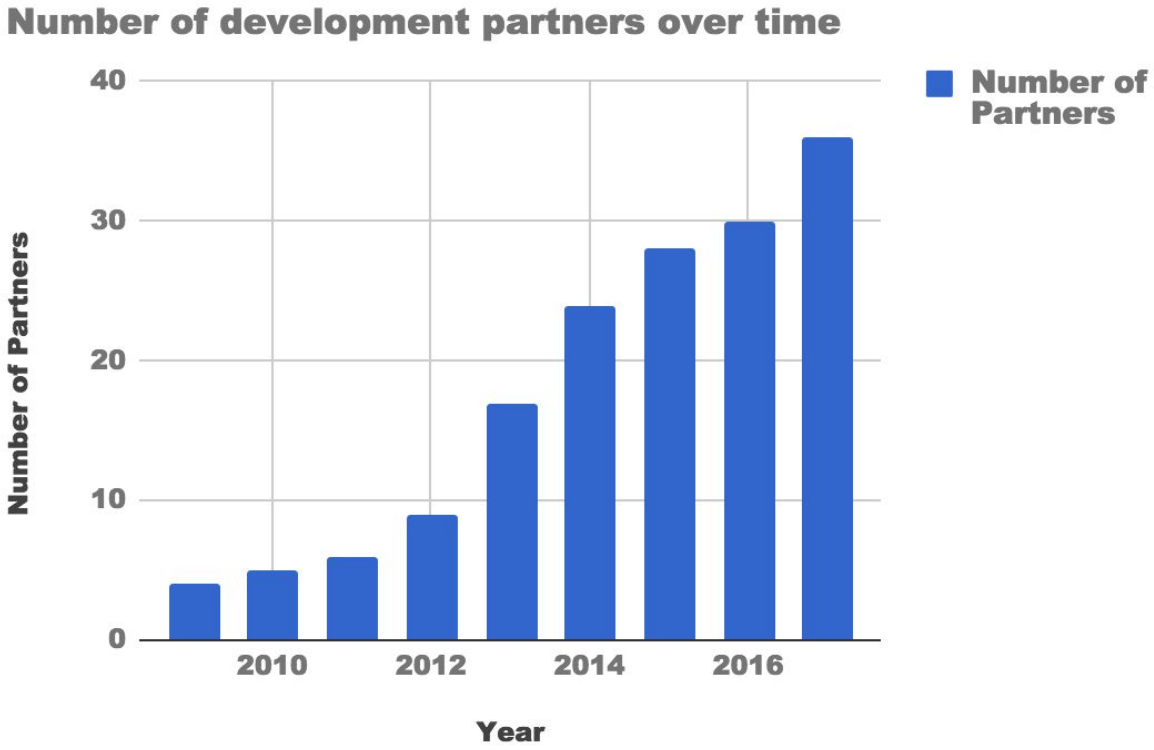
Islandora Foundation

Who uses Samvera?



- Libraries
- Museums
- Galleries
- Archives
- TV and radio

Samvera Members Over Time



Training and support

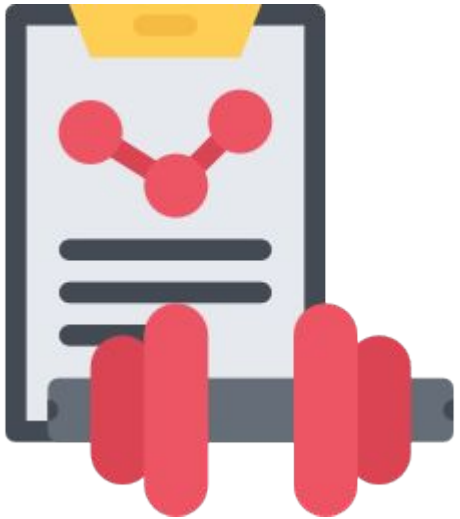
Workshops hosted throughout the year at conferences and events

3 day Fedora Camps are also available

Fedora/Samvera Camp in UK in September

Next camp in Austin, TX in October

Mailing lists for ongoing support



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Useful Links

Fedora Website

- http://fedorarepository.org

Communication channels

- https://wiki.duraspace.org/display/FF/Mailing+Lists+etc

Contact

- dwilcox@duraspace.org