





- Introductions
- What are your goals for this workshop?
- What interested you in Samvera?
- What are some things you would like to know more about?

What we'll cover



- What is Samvera?
- How We Work
- Example Sites
- The Technology
- Hands-On
- The Samvera Pitch
- What Next?
- Q&A





what is it?
what does it do?
why is it different?





- A robust repository fronted by feature-rich, tailored applications and workflows
- Collaboratively built "solution bundles" that can be adapted and modified to suit local needs.
 - e.g. Hyrax, Avalon, etc.
- A community extending and enhancing the solutions
 - ⇒ If you want to go fast, go alone. If you want to go far, go together.

Why Samvera?



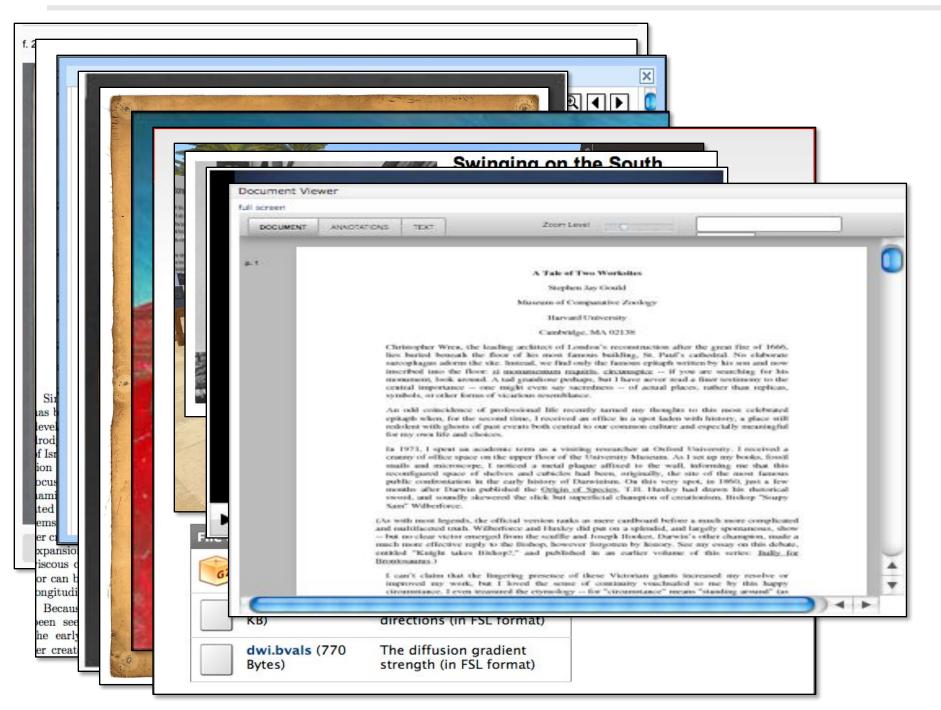
- Need a flexible, rich, robust repository solution
- Be part of a community
 - Shared resources, shared risk, shared advances
- The whole (we) is greater than its parts (each of us)
 - Especially in this crowd
- Control your own destiny
- Build institutional capacity



Fundamental Assumption #1

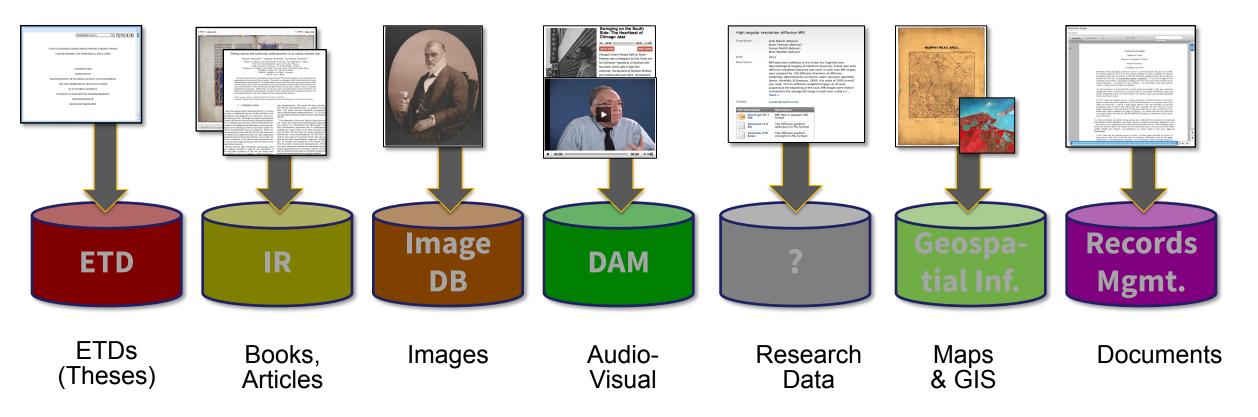
No single system can provide the full range of repository-based solutions for a given institution's needs,

...yet sustainable solutions require a common repository infrastructure.



Books **Articles** Theses **Images** Maps Data (Raster) Data (Comp.) Data (Observ.) **Audio** Video **Documents**

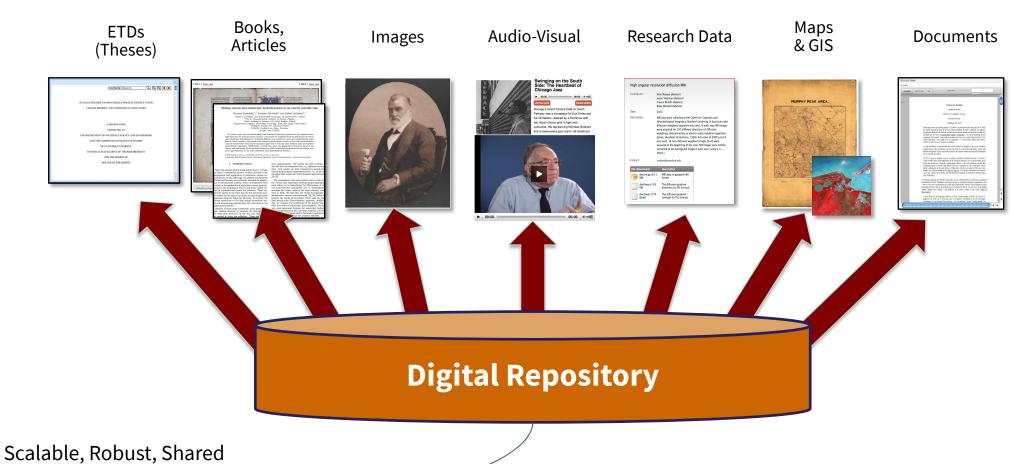
Point Solution Approach - Welcome to Siloville



Management Access Preservation? Effective? Sustainable?

Repository Powered Approach





If you want to go far, go together!

Management and Preservation Services

10





Create/Submit/Edit (CUD)

Search/View (R)

Repository/ Persistent Storage







Create/Submit/Edit (CUD)

Search/View (R)



Repository/ Persistent Storage

Used by:

- Large Universities
- Small Universities
- Colleges
- Public Broadcasting
- Government Ministry
- National Libraries
- National Lab
- Small Research Labs
- National Digital Repository
- Statewide Digital Libraries
- Science History Institute
- Museum of Performing Arts
- A Shakespeare Festival

Used for:



- Self-deposit system
- Digital Collections System
 - Sheet Music
 - Architectural resources
- Electronic Theses & Dissertations
- Digital Image System
- Media Management
- Media Preservation System
- Research Data Management
- Digitization Workflow System
- Digital Preservation System
- Digital Archives System
- Library Monograph Acquisitions System
- And more!

Next Up:

How we work





Fundamental Assumption #2

No single institution can resource the development of a full range of solutions on its own,

...yet each needs the flexibility to tailor solutions to local demands and workflows.



Samvera Philosophy: A Community

- An open architecture, with many contributors to a common core
- Collaboratively built "solution bundles" that can be adapted and modified to suit local needs
- A community of developers and adopters extending and enhancing the core
- "If you want to go fast, go alone. If you want to go far, go together."





- Not a directed project
- Investment in a community, not a vendor
 - Contributions back to community: training, documentation, modeling, evangelism, support
- Investment in a **framework**, not an application
 - Contributions back to core code base
- Travel / face-time

Community



- Conceived & executed as a distributed, collaborative, open source effort
- Initially a joint development project between Stanford, Univ of Virginia, and Univ of Hull
- Samvera Partners are the backbone of the project
 - Coalition of the willing
 - No fees or dues (thus far)
 - Apache-style consensus and governance
- Steering Group provides administration, continuity, and serves as backstop

But no central planning, no Project Director, no "one" architect



Samvera Partners

...are individuals, institutions, corporations or other groups that have committed to contributing to the Samvera community; they not only use the Samvera technical framework, but also add to it in at least one of many ways: code, analysis, design, support, funding, or other resources.

Samvera Partners collectively advance the project and the community for the benefit of all participants.

Community Structure



- Steering Group (elected by partners)
 Stewards of the project individual membership
- Partners (Institutional)
 Formally committed institutional membership
- Working & Interest Groups
 Topically aligned groups that span organizations & roles
- Committers
 Developer community
- Community adopters





- Getting involved with Samvera can be at different levels:
 - Adopter
 - Developer
 - Partner
- Need to ask:
 - What involvement is required to enable you to meet your needs?
- But also,
 - If we contribute back, what more do we gain?





- Good: read the documentation and learn-by-doing
- Better: connect through social channels
 - Email lists, Slack, weekly phone calls
 - Github interactions
- Best: meet in person. Face time fuels collaboration!
 - Samvera Connect: annual, worldwide, community meeting
 - Samvera (Partner) meetings: 3-6 ad hoc, topic-based meetings per year (usually)
 - Regional Groups: convening ad hoc





- ➤ Website Introduction to the community: https://samvera.org
- ➤ Wiki Broad range of information types: https://samvera.org/wiki
- Github Code, code wikis, technical details:

https://github.com/samvera

https://github.com/samvera-labs

https://github.com/samvera-deprecated





- Website
- Wiki page
 - Partner meeting agendas & notes
 - Events & Details
- Monthly Partner calls
- Partner listserv
- Samvera Partner meetings & Samvera Connect
- Identify a Samvera Partner doing similar work and get in touch
- Participate in an Interest Group or Working Group
- Identify need for vendor input and make contact to discuss options
- Come to events (like this one!)

Interest & Working Groups



- Component Maintenance Working Group
- Hyrax-Valkyrie Development Working Group
- Hyrax Working Group
- Machine-readable Metadata Modeling Specification (M3) Working Group
- Repository Management Interest Group
- Samvera BrowseEverything Interest Group
- Samvera Code Stability Working Group
- Samvera CONTENTdm Migration Interest Group
- Samvera Contribution Model Working Group
- Samvera Documentation Working Group
- Samvera Fundraising Working Group
- Samvera Geo Predicates Working Group
- Samvera Governance Working Group
- Samvera Hyku Interest Group
- Samvera Interest Group for Advising the Hyrax Roadmap (SIGAHR)
- Samvera Marketing Working Group
- Samvera Metadata Interest Group (formerly Working Group)
- Samvera Newspapers Interest Group
- Samvera Repository Management Interest Group
- Samvera Roadmap Council
- Samvera User Experience Interest Group





- Slack for real-time interaction
- E-mail for asynch and longer discussions
- Community Calls Samvera Tech & Community calls, Virtual Connect
- In Person Connect, regional meetings, other conferences, & workshops

Example Sites

What are folks doing with it?



Indiana University Media Collections Online

- Built using the Avalon Media System
- Rich tool for management and discovery of audio and visual resources
- Provides gated discovery and streaming authentication

Live Site: https://media.dlib.indiana.edu



Alexandria Digital Research Library

- Fedora 4 + RDF based
- Broadly focused Institutional Repository hosting multiple content types
- Includes a mix of born digital and digitized content

Live Site: https://www.alexandria.ucsb.edu





Running on Hyku software

Digitised publications by the King's Fund

Heavy use of IIIF and Universal Viewer

Live Site: https://archive.kingsfund.org.uk/

Emory ETD Repository



Hyrax Development

Electronic Theses and Dissertations focus

Student submission and workflow focused

Live Site: https://etd.library.emory.edu

More ...



List of Production repositories on the Samvera wiki

Next Up: The Technology

Any questions so far?

Read the White Paper



Samvera Roadmap Council. White paper: State of Samvera

Technology in 2019

The anatomy of Samvera technology



OTHER APPLICATION(S)





OTHER APPLICATION(S)



lots of other open source components ... active_fedora (--> valykrie), hydra-works, hydra-pcdm, hydra-head, qa, browse-everything, ldp, hydra-role-management, hydra-derivatives, hydra-editor, hydra-file_characterization e.g.
iiif-manifest
valkyrie, more ...

can be
promoted to core

blacklight, fedora commons, apache solr, database (MySQL, postgres), redis





Samvera is designed to provide a rich front-end framework for a Fedora repository metadata and data storage layer.

Solr allows for fast searching and rich discovery of content.

Valkyrie allows you to use combinations of PostgreSQL, disk, Fedora, or Solr for metadata, discovery, and storage

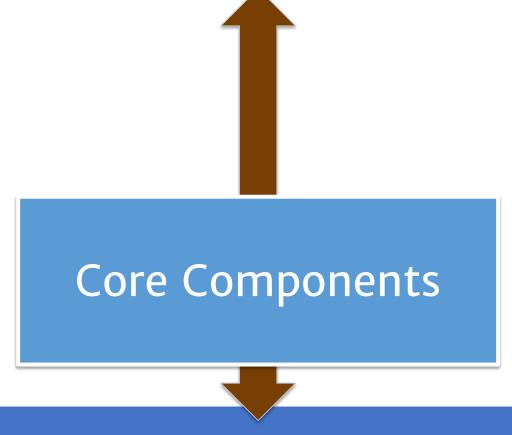
Fedora & Solr or Valkyrie

(PostgreSQL, Fedora, Solr, disk, memory)





A set of core components (ruby gems) provide interfaces interacting with Fedora and Solr, PCDM-compliant data models and other commonly-needed features like characterization, text extraction and derivative generation.



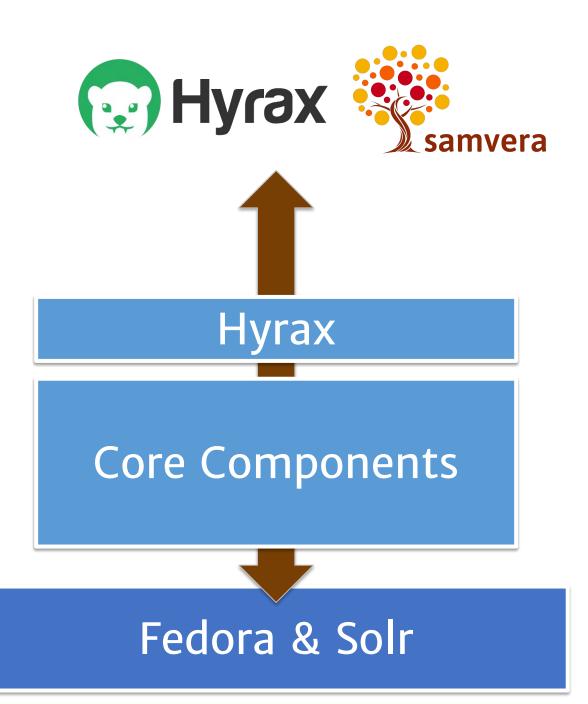
Fedora & Solr

The Stack: Hyrax

The Hyrax rails engine provides a fully featured repository front end with self-deposit and administrative workflow features along with:

- User & Admin dashboards
- Upload via cloud providers
- Citation integration
- File auditing & versioning
- Access controls
- Leases and embargoes

 If you want to go far, go together!



The Stack: you

Your application can be a highly tailored solution built on core components

Or a lightweight wrapper built on Hyrax

Or, an instance of an out of the box solution, like Hyku, or a specialised app like Avalon



Your app Hyku Avalon Hyrax Your app **Core Components** Fedora & Solr

Code Licensing



- All Samvera code is available under Apache License, Version 2.0
- All code commitments are being managed through Contributor License Agreements
 - Individual each developer is clear about what they are contributing
 - Corporate each institution is clear about what it is contributing

- Code contributors maintain ownership of their IP
 - ... and grant a non-exclusive license to the project and its users
 - The conventions under which code is licensed are clear - and folks often license their own work under the same terms

Take home messages

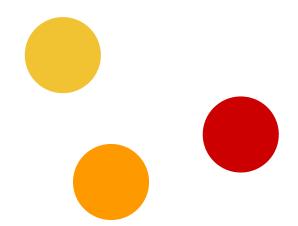


Samera is:

- Modular pick and choose from a set of components with different ways of creating your repository, from simple to complex, from hosted to in-house design and build
- Opinionated follows patterns and rails practices to offer a way of doing things that the community have coalesced around
- Flexible can meet a range of needs
- Evolving -
 - Sufia / CurationConcerns => Hyrax (1 > 2 > 3)
 - Fedora 3 > 4 > ?
 - Rails 2 > 3 > 4 > 5

Next Up:

Hands-On



Any questions so far?





- 1. Visit https://tenejo.curationexperts.com
- 2. Click the Login link
- 3. Click on "Sign Up" (just under the Login button)
- 4. Enter your e-mail, choose a password, and click on "Sign Up"





- 1. Click on the logo in the upper left corner
- 2. Click on the "Share Your Work" button
- 3. Select a type of work
- Add required metadata, attach a file, choose visibility, accept the deposit agreement
- 5. Save your work

Edit your work



- 1. Choose "Dashboard" from the menu in the upper right corner
- 2. Click on Works
- 3. Use the "Actions" dropdown to choose edit
- 4. Enter some data in "Additional Fields"
- 5. Add a file or two, update versions

Browse content



- 1. Click on the logo in the upper left
- 2. Click on the <u>search icon</u> to browse the repository
- 3. Use search and facet to narrow results
- 4. View some items
- 5. Is your item there?
- 6. Log-out how does your experience differ?

Deposit workflow



- 1. Approve some works (Admins)
 - a. All Works
 - b. Review Submissions
 - c. Notifications





- 1. Everyone
 - Gated discovery: Public, Institution, Private
 - Collections
- 2. Admins
 - Featured works
 - Workflow / Review
 - Admin dashboard

Next Up: The Samvera Pitch

The Elevator Pitch? Who's Riding?



- UL/Dean or CIO? Resources and Risk doing more with less while control the runway, maturity
- Content Specialists? Flexibility and Risk- reducing barriers to effective asset management & preservation
- Management The Churn Architecture, flexibility, evolution in a vibrant community, staffing impact
- Developers, PMs, DevOPs, -Connection, Time, Training,
 Visibility It's a Family Affair and you are not alone

Community Sustainability...



- Core Purpose- We believe it is possible to provide and evolve solutions which reduce cost and risk in stewardship of digital assets for access and preservation.
- Partners The whole is greater than the sum of its parts partners join equally to share the load for mutual gain and greater good.
- Flexible Change with Steady Growth

A World Wide Presence





Samvera Partners



- **Stanford University**
- University of Hull
- University of Virginia
- Duraspace
- University of Notre Dame
- Northwestern University
- Columbia University
- Penn State University
- **Indiana University**
- London School of Economics and Political Science
- **Data Curation Experts**
- **WGBH**
- **Boston Public Library**
- **Duke University**
- **Yale University**
- Virginia Tech
- **University of Cincinnati**
- Princeton University Library If you want to go far, go together!

- **Cornell University**
- **Oregon State University**
- University of Oregon
- **Tufts University**
- University of Alberta
- Digital Public Library of America (DPLA)
- University of Michigan
- University of California, San Diego
- University of York
- Lafayette College
- Washington University in St. Louis (WUSTL)
- The Digital Repository of Ireland
- University of California, Santa Barbara
- University of Houston Libraries
- **Emory University**
- CoSector, University of London
- **Ubiquity Press**
- University of Utah



Samvera Connect, 2018 Marriott Library, University of Utah Salt Lake City, Utah

Resource Sustainability



- New Approach for Cross Training
- Reducing Turnover Impact
- Time If you want to go fast

```
...go alone.
...use Samvera
```

Solution Sustainability...



- Protecting the partner & funders' investment together build, leverage & evolve
- Organization & Governance
- Adopt best practices

Samvera Participation Snapshot



1.5M Lines of code

351 Current contributors

49771 commits

36 Partners

37 Adopters

8 Non Partner Solution Bundle Adopters

Next Up:

What next?





Community Resources



- Website Introduction to the community:
 - https://samvera.org
- Wiki Broad range of information types: https://samvera.org/wiki
- Github Code, code wikis, technical details:
 - https://github.com/samvera
 https://github.com/samvera-labs
 https://github.com/samvera-deprecated

Try it out



- Code & Docs: https://github.com/samvera
- Demo Sites:

https://tenejo.curationexperts.com/

Ask other partners for demos!

https://wiki.duraspace.org/display/samvera/Partners+and +Implementations

Questions



samvera-community@googlegroups.com samvera-tech@googlegroups.com

Thank you

<u>iulie.allinson@cosector.com</u> <u>r.green@hull.ac.uk</u> <u>robin.ruggaber@virginia.edu</u>