Samvera Community

Annual Report

2020

samvera™

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from the community

Looking back over the past year, it is remarkable how much the Samvera Community accomplished. Our technology and governance work advanced despite unprecedented disruption, hardship, and tragedy in our institutions and lives. We worked from our homes and advanced our collaborative goals despite our isolation.

2020 was made more devastating by the death of our friend, colleague, and Steering Group member, Julie Allinson. Julie was an integral part of Samvera and the broader repository community for many years in her time at UKOLN, the University of York, CoSector, and most recently at Notch8. Her loss was felt deeply at both a personal and professional level within our Community. We miss her positive can-do attitude, wry sense of humor, and thoughtful dedication to the success of Samvera and its users.

This was our first year with a fully elected Steering Group. While we will miss Jon Dunn, Robin Ruggaber, and Chris Awre who have rolled off this year, we are excited to have Kevin Kochanski, Esmé Cowles, Brian McBride, and Alicia Morris join the group.

Julie's memorial sticker

We spent significant time this year focusing inward on the Community, strengthening and clarifying the Community's relationship with Partners; that focus on the Community harkens us back to the beginnings of Samvera in which our founders envisioned us focusing on the Community rather than just the technology. While we often have Partner institutions that adopt different
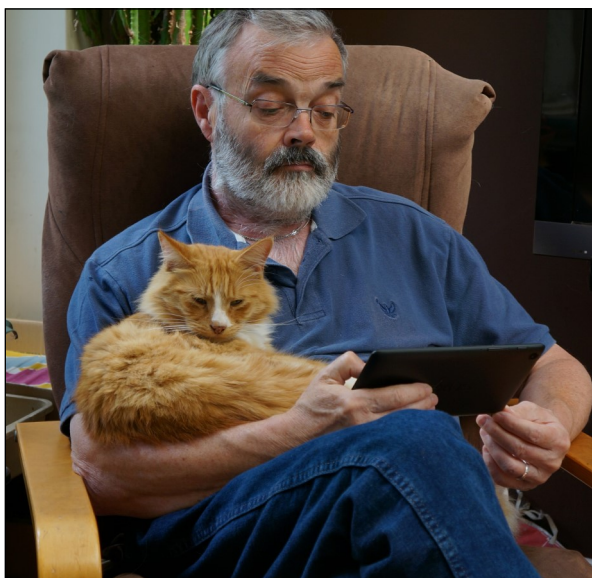

The January 2020 Solar Vortex Developers Congress in San Diego

perspectives on how to use the technology that falls under the Samvera umbrella, what continues to bring us together is the Community our founders created.

In 2020 we implemented a contribution model for Samvera Partners. This contribution model is a tiered model based on the size of the institution or service provider. This model was essential to providing a predictable income stream, which in turn has helped us implement the governance recommendation of hiring centralized staff. An ambitious hiring process was undertaken in the summer and by October 2020, Heather Greer Klein began her work as Samvera Community Manager. Heather has made an immediate impact on the Community and we look forward to seeing what we can accomplish with her coordination.

Heather Greer Klein, Samvera Community Manager

Richard Green, Samvera Operations Adviser

Richard Green was appointed Operations Adviser for the Samvera Community, and served in that role until his retirement in early 2021. That description does not do justice to what Richard has done for this Community. Richard was amongst the original founders of the Community and over the years he has been a huge part of sustaining the Community by engaging in and supporting the day to day operations. The whole Community is grateful for Richard's support and guidance. We had the opportunity at Samvera Connect On-line 2020 to give a surprise celebratory send off for Richard, wishing our very best for retirement and safe travels (once we can all do that again)!

This year was one of increasing recognition of systemic white supremacy and anti-Blackness, as the horrific murder of George Floyd by police in Minneapolis led to protests and calls for action around the world. Many Samverans engaged with these issues in their own communities and institutions, and as a Community we engaged via our Working and Interest Groups. The Branch Renaming Working Group was formed to address the language we use in our software. The Controlled Vocabularies Decision Tree Working Group identified controlled vocabularies for cultural heritage materials that reflect preferred language developed by marginalized communities. This and other work will and must be ongoing to ensure a strong Community that lives up to our values.

That Community was on display at our first fully online Samvera Connect. We had over 300 unique attendees from over 60 organizations, 10 countries and 4 continents. This success and coming together as a Community mirrors the success we saw at Samvera Virtual Connect held in May 2020. There we had 185 unique attendees over the course of two days. We will use what we learn at our next fully online Samvera Connect in the fall of 2021, with plans to finally come together in person in the fall of 2022.

With all the change and challenges we faced this year, we can be secure in the knowledge that together we can continue to support our technology and Community -- whatever the future brings.

community & partners

In 2020 we welcomed University of Utah as a new Samvera Partner. Five institutions withdrew from Partnership as their organizations decided to follow a different technology path. We are sad to see them go but wish them all the best. At the time of writing Samvera has 32 formal Partners:

- Boston Public Library
- Columbia University
- Cornell University
- CoSector, University of London
- Data Curation Experts
- The Digital Repository of Ireland
- Duke University
- Emory University
- Indiana University
- Lafayette College
- Northwestern University
- Notch8
- Oregon State University
- Penn State University
- Princeton University
- Stanford University
- Tufts University

- Ubiquity Press
- University of California, San Diego
- University of California, Santa Barbara
- University of Cincinnati
- University of Houston
- University of Hull
- University of Michigan
- University of Notre Dame
- University of Oregon
- University of Utah
- University of Virginia
- University of York
- Washington University in St Louis (WUSTL)
- WGBH Media Library & Archives
- Yale University

We are grateful for the many kinds of support that we get, not only from our formal Partners and their staff, but also from many other organizations in our Community. At the time of this Report we hold contributor license agreements (CLAs) for 78 organizations and 378 individuals.

partner profiles:

lafayette college

Lafayette College is a small undergraduate liberal arts college located in Easton, Pennsylvania, USA. It was founded in 1826 and currently enrolls about 2,600 students who come from 46 U.S. states and from 53 countries. Lafayette offers a bachelor of arts in 37 fields and a bachelor of science in 14 fields, including 5 in engineering. The Lafayette College Libraries support student and faculty scholarship by curating resources, including a collection of more than 630,000 volumes and thousands of electronic periodical subscriptions. In addition, Special Collections & College Archives contain rare book holdings of some 15,000 volumes as well as nearly one hundred manuscript, art, and artifact collections of national scope. These relate to the Marquis de Lafayette; Lafayette College faculty, alumni and institutional history; and American artists, politicians, and businesses.

Lafayette College Libraries have been developing and operating institutional repositories for faculty scholarship and digital collections in some form for nearly 15 years. Beginning in 2009, faculty scholarship and institutional content were collected in a DSpace repository, eventually totaling more than 1,500 items. ContentDM, and later, Islandora, were used to provide access to digitized image and periodical collections, totaling 14,722 items: such as College Historical Photos, the Marquis de Lafayette Prints Collection, and the East Asian Image Collection. Unique metadata profiles for each collection were managed through a custom-built application called MetaDB, leading to a wide variation of descriptive metadata among collections. Managing this broad range of digital content across two separate repository platforms simultaneously created a degree of administrative and technical complexity which was difficult to sustain for an institution of our size.

In our investigations of available options and developments in the digital repository landscape around 2015-2016, we were intrigued by the Sufia (and later, Hyrax) application projects. As the Samvera Community took shape during this period, its collaborative open source values and vitality were extremely appealing and offered a sense of encouragement and welcome that gave us the courage to attempt implementation. Moreover, the cutting-edge technology, quality, and novelty of Samvera software solutions stood out from the alternatives.

The Hyrax codebase provided the tools our team needed to get started, and the ability to expand when needed for our local user and collection contexts. Deployment followed along with the installation instructions and community recommendations for out-of-the-box Hyrax, but for performance reasons, we chose to employ a Cantaloupe image server for IIIF content and a FITS servlet in place of the command-line tool. Ahead of ingest into the new system, metadata modeling in RDF and remediation to increase conformance among collections was performed. Targeted enhancement, including transformation of strings into URIs to utilize controlled vocabularies for location and subject terms, and adoption of EDTF date formatting, improved the overall descriptive quality and interoperability of our collection metadata. The Lafayette Digital Repository (ldr.lafayette.edu) now serves as a single access interface for digital collections and institutional content.

Several enhancements to Hyrax were made in order to address feature requests for our local use cases in the LDR. These include contextual search results for PDFs, support for multiple controlled vocabularies, and variable item export options. Additionally, the Lafayette Digital Repository is integrated with a Handle.net server in order to mint identifiers and permalinks for all materials. Other integrations include IIIF (Universal Viewer), and OAI-PMH metadata harvesting. These have been essential to surfacing some of Lafayette's unique collections in the Digital Public Library of America (DPLA) project, and more collaborative projects to increase discoverability are in process. Plans for future work include new worktypes for audiovisual and archival paged resources, enhanced ORCID integration, and a BagIt export service.
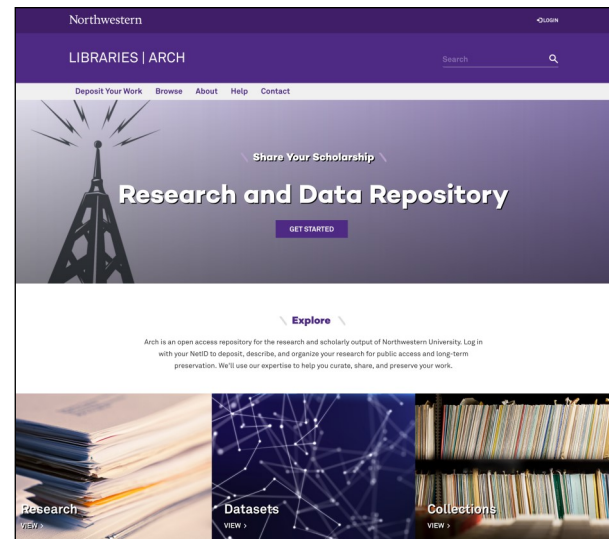
partner profiles:

northwestern university

Founded in 1851, Northwestern is a comprehensive private research university that is deeply interdisciplinary across multiple schools and units. Northwestern University Libraries preserves and makes accessible a collection of over 6.2 million titles, including a rich portfolio of special collections, such as the Herskovits Library of African Studies and the Transportation Library.

The Libraries have a rich history of developing software dating back to 1967 with the release of NOTIS (Northwestern On-line Total Integrated System). NOTIS became an independent company and was bought by Ameritech in 1991. The library management system was installed in at least 950 libraries throughout its 45 years of rewrites and redesigns. Continuing this tradition NUL became a Samvera (then Hydra) partner more than 10 years ago when it was in the process of expanding its digital offerings and offering online access to its varied and rich distinctive collections. Since becoming a partner, NUL has expanded its Samvera-based solutions cover three unique but related areas: Distinctive Collections, Institutional Repositories, and Course Reserves Support.

NUL's flagship Digital Collections site (dc.library.northwestern.edu) is an exercise in agile development having seen several iterations since its launch three years ago. Originally a Hyrax-backend solution with a React-based frontend hosted on AWS, the latest version includes a custom-built Elixir backend, serverless processing functions for preservation and derivative generation, and a stand-alone React front end for end-user consumption. Born out of this project is a serverless IIIF "server" currently in production at several institutions in the Samvera community.

NUL's Hyrax-based institutional repository (arch.library.northwestern.edu) houses thousands of datasets, dissertations, journal articles, and papers. The developers at NUL customized the frontend and parts of the Hyrax processing pipeline to ensure it can efficiently run in a cloud-based environment. The team also added an automated solution for the ingestion of ProQuest theses and dissertations and associated datasets.

Based on Avalon, media.northwestern.edu houses tens of thousands of hours of course-related video and audio as well as

at-risk and distinctive materials. As a core contributor to Avalon (avalonmediasystem.org), NUL in partnership with Indiana University helped build the standards-based audio and video repository. Locally, the installation has been customized to match the branding guidelines as well as integrate with the Alma catalog and course-reserve system. The team at Northwestern continues to develop the Avalon IIIF Media Player which will be used both in the Avalon repository as well as NUL's Digital Collections site.

Over the years, Northwestern has been active in all aspects of the community. Developers, metadata professionals and managers at NUL have found value both in the community-built software such as Hyrax and Avalon and the larger community-driven discussions around preservation and access. The team at NUL has held leadership positions within the community, such has representing the Metadata Interest Group on the Roadmaps Alignment group, dedicating developer resources to create and stabilize the Hyrax Working Group, and serving on Samvera's Board (formerly Steering). As a member of the Samvera community, the NUL team found a unique home with like-minded institutions solving similar problems including storage, display, and preservation of our cultural heritage and scholarship. Developing solutions with other institutions has challenged assumptions, allowed a channel to feed back solutions, and has given NUL all the reciprocal benefits of working with an open source software community.

Samvera renewed a Memorandum of Understanding (MoU) with LYRASIS for fiscal sponsorship in 2020. The merger of DuraSpace and LYRASIS in June 2019 required Samvera's accounting year to change to July-June, but for ease of comparison with previous Annual Reports the figures below cover the calendar year 2020. The MoU with LYRASIS runs through 30 June 2021. Beginning in July 2021, Samvera will move to OASIS Open for fiscal sponsorship and finances will return to calendar year reporting.

Expenditure increased with the addition of staff. Richard Green served as part-time Operations Advisor, and Heather Greer Klein was hired in October 2020 as Community Manager. Heather's contract is with Emory University, and Samvera transferred 12 months of salary plus fringe and other staff costs to Emory University in one payment in September 2020.

Despite the financial uncertainty of the global pandemic, contributions comprising some $175k came from 29 Samvera Partners. We are grateful to them all. We are also grateful to the many Partners and others who contributed significant amounts of staff time and other resources "in kind" to further our Community's work.

Accounts

1st January 2020—31 December 2020	Income ($)	Expenditure ($)
Fundraising, donations and 2019 invoices paid	187,011	
Bank interest	1,522	
LYRASIS fiscal sponsor service fee		17,502
Staff Salaries (Richard Green and Heather Greer Klein)*		136,000
Other staff costs transferred to Emory University (fringe, travel budget, computer supplies)*		29,512
Communication Services (Slack subscription, Circle CI)		6358
Sales and marketing		575
Technology licensing		399
Total	**188,533**	**190,346**

Net income from above	($1,813)
Plus invoices due to Samvera outstanding at 12/31/2020	$1,982
Cash balance brought forward from 2019	$321,501
Cash balance 31 December 2020	**$321,670**

* The full salary, fringe, and travel allocation for Heather Greer Klein for the period of October 2020 - September 2021 was transferred to Emory University in a single transfer in September 2020.

progress on
key initiatives

Governance

In 2020 the Samvera Community completed most of the remaining recommendations made by the Governance Working Group and adopted in 2018: Implement a Contribution Model; Hire Centralized Staff; and Assess the Governance Model.

This year the Community successfully implemented a contribution model. This contribution model is a tiered model based on the size of the institution or service provider. Samvera Partners were asked to contribute at least the amount of their designated tier level in 2020, with the model taking full effect in 2022. Despite the financial challenges of the pandemic, the majority of Partners were able to contribute at their tier; Partners contributed $24,000 over 2019 contributions.

The most important aspect of this contribution model is that it provides a stable income to assist with hiring staff for the Community. These funds allowed Samvera to contract with Richard Green as Operations Adviser for all for 2020. It also made it possible to have available a Community Manager's salary for the next 2.5 years, and to begin an ambitious plan to hire a Community Manager before Samvera Connect On-line in October 2020.

A hiring committee was formed in the summer of 2020, with an aggressive timeline. Carolyn Caizzi chaired the committee which included Jon Dunn, Jeremy Friesen, Richard Green, Brian McBride, and Rosalyn Metz. Carla Ashe-Hutchinson joined as a representative from Emory University Human Resources. Jeremy developed tools to help the committee work together efficiently and asynchronously and to rate the candidates objectively.

The committee assessed the knowledge, skills and abilities that were posted as requirements of the position and selected candidates for final interviews consisting of a presentation and meetings with different stakeholder groups from the Samvera Community.

After reviewing nearly 130 applications, holding 12 phone interviews, and 3 virtual interviews, the search committee selected Heather Greer Klein as the inaugural Community Manager for Samvera. Heather worked with Richard Green over the winter of 2020 to get up to speed on Community processes ahead of Richard's retirement. The Steering Group continues to look for ways to increase funding to sustain the other recommended Technical Coordinator staff position.

The final recommendation from the Governance Committee was assessing the governance model the Community had put in place. There were a number of ways that this was accomplished this year.

First, Carolyn Caizzi did an assessment of the Community using the It Takes a Village framework developed at LYRASIS. The framework leads participants through a process to identify the current phase of a Community as it relates to technology, governance, resources, and community engagement. Respondents from the Community indicated that Samvera is fairly stable in technology, but growing in the areas of governance, resources, and community engagement. This feedback will help to provide a roadmap to continue to improve upon the extensive work the Community has undertaken over the last few years.

Additionally, a small group assessed the progress of the governance recommendations. That small group included Chris Awre, Brian McBride, Esmé Cowles, Richard Green, and Margaret Mellinger. This report indicated some questions and concerns around governance. A survey was released in October 2020 to dig deeper into these issues, and results were discussed at the October 2020 Partners Meeting.

Based on the responses, the Steering Group will monitor the ability of Partners to implement the contribution model; work with the Roadmaps Alignment Group to increase coordination across Samvera software; and continue to pursue the revenue required to hire a Technical Coordinator.

Software

Avalon Media System, a Samvera repository solution bundle for time-based media, started the year out strongly in January 2020 with the release of Avalon 7.0, a major release with changes relevant to end users, collection managers and system administrators. In addition, this release of Avalon coincided with the release of Avalon Turnkey—a fully configured, containerized version of Avalon built for Amazon Web Services.

Avalon 7 includes:

♦ Collections Index and Landing Pages: The Collections Index provides a new way to navigate collections and units within Avalon. Each collection also now has a customizable landing page where users can find the collection description, thumbnail and a short listing of content.

♦ Local User Management: Avalon can now use the Persona gem for a local authentication strategy, allowing for completely local user management through a convenient dashboard.

♦ Transcoding Changes: Avalon's transcoding services have been folded into the application, allowing for the retirement of Matterhorn as a dependency and bringing a new transcoding dashboard directly into the application.

♦ Redesigned Homepage: A newly designed default homepage allows for easy customization of featured collections.

Avalon Turnkey introduced simple and cost-effective deployment to AWS using Terraform. It is optimized for growing collections with limited traffic, has fast transcoding using cloud-native tools (ElasticTranscoder); a straight-forward production-ready environment that relies on AWS native technology or containers for all dependencies (Fedora, Solr, Postgres, Transcoding); and it can be extended for specialized or fault-tolerant use cases.

With this release, Northwestern University wrapped up their Avalon development partnership with Indiana University. A big thank you to everyone who has worked over the years to make Avalon the product it is today! Having the ability to work with a tightly integrated team across institutional borders has been exciting, illuminating, occasionally frustrating, but ultimately exceedingly rewarding. All of us have valued the relationships and opportunities that have come from this collaboration, and we look forward to continuing to work together, in a slightly different form, moving forward.

The Indiana University Libraries has continued to move forward on the Avalon development roadmap in collaboration with the Avalon community.

In November 2020 The Avalon Media System team released Avalon 7.2. which includes support for supplemental files, an improved authentication flow for restricted content, and the ability to merge items, as well as a variety of bug fixes and updates for supporting libraries and components.

2020 was a challenging year, but Hyrax development was stable. In January 2020 the University of California San Diego hosted the Solar Vortex Samvera Developer Congress, where around 20 Hyrax-focused developers came together to work on taking the Wings work forward. The Congress was a great success. The on-premise team benefited greatly from Tamsin Johnson's technical assistance as each working group moved through their tasks. The group was able to collaborate remotely with a commitment to treating the sessions as "Online First."

The Hyrax Maintenance Working Group was active throughout 2020, with two releases in the 2.x series:

Hyrax 2.8.0 added support for Rails 5.2, Ruby 2.7, and ActiveFedora 12.x. It also includes some performance optimizations for display of image content, via faster IIIF manifest generation.

Hyrax 2.9.0 included a complete rewrite of the Hyrax code involved in IIIF manifest generation resulting in a massive speed-up of manifest generation and show view page loads for works with many image FileSets. Special thanks to Trinity College, Dublin for funding the larger manifest presenter rewrite. Another notable feature addition is an abstract API for "remote identifiers" (e.g. Handle, DOI, ARK). Thanks to Chris Colvard and Ubiquity Press for their efforts to extract these patterns from prior work in Hyrax applications.

Work continued on Hyrax 3.0, with the bulk of development and testing work happening in 2020 in support of a final release in spring of 2021.

In December 2019 a call went out to the Community for new Hyrax Product Owner, with a newly streamlined job description. Julie Hardesty from Indiana University Libraries stepped up to the challenge with a 2-year, 25% time commitment to the role. Julie began onboarding to Hyrax in the Summer of 2020, beginning in the role just before Samvera Connect On-line in October 2020. Julie has revitalized the Hyrax Interest Group and is leading the first Hyrax Maintenance Group sprints in 2021, starting the year strong with a focus on Hyrax 3.0 and cleaning up the Hyrax issues backlog.

Hyku, Samvera's multi-tenant solution based on Hyrax, saw exciting growth and development in 2020. Several substantial grant projects made significant contributions throughout the year, while hosted service solutions continued to provide turnkey access to a variety of institutions and organizations.

The Advancing Hyku (advancinghyku.io) project is funded by Arcadia, a charitable fund of philanthropists Lisbet Rausing and Peter Baldwin, with project partners University of Virginia Library, Ubiquity Press and the British Library. The project seeks to drive green open access and to increase value to researchers with a combined approach of auto-population and expanding the array of integrated, open source services, making the repository a more attractive dissemination option. In 2020 the Advancing Hyku team made great progress in requirements gathering, development work, and community contributions. In July 2020 Ilkay Holt joined as British Library's Advancing Hyku Project Lead. Her first action was a formalization and significant enhancement of the project communication plan, and she works to ensure opportunities for Samvera Community input on Advancing Hyku. At the end of 2020 the team conducted a survey across

current and prospective members of the Samvera Community, requesting input on feature prioritization. As a result OAI-PMH was moved earlier in the roadmap due to strong support for this feature from survey respondents. Respondents also indicated that user experiences with viewing content via browser is more important than uploading and downloading files.

The Pennsylvania Academic Library Consortium (PALCI) and the Private Academic Library Network of Indiana (PALNI) continued their work with Notch8 on Hyku for Consortia (www.hykuforconsortia.org). This IMLS grant project seeks to explore, develop, and pilot an open source, multi-tenant, consortial institutional repository (IR). The model should deliver ultra low-cost hosting, discovery, and access to digital material for member libraries. Ultimately, project collaborators aim to create a consortial IR service individual libraries may use, customize, and brand as their own, while building the capacity and functionality required to share underlying infrastructure, hosting, and administration costs across institutions.

As of the end of 2020, the Hyku for Consortia team had made great progress toward these goals, laying the groundwork to contribute a set of features in 2021. Development continued for collaborative workflow support as well as for worktype development. A great deal of work has been done gathering specifications and mocking up wireframes representing multiple use case themes (IR, cultural heritage, and neutral) to implement as part of Hyku. Work continues in gathering requirements for enhanced relationships, cross tenant searching, and multi-tenant shared works from our user communities, and exploring work being completed in complementary projects.

Hosted services for turnkey access to Hyku continue to be available, with HykuUP from Notch8 and U Repositories from Ubiquity Press. These services provide an open-source-based alternative to other commercial repository services and receive regular Hyku upgrades that benefit their subscribers.

All this development work contributed to the preparation of the release of Hyku 3.0 at the beginning of January 2021, with new features and improvements. These features add customization options at the tenant level, as well as improvements that provide for easier maintenance of Hyku implementations across all adopters.

The Hyku community also added a new Hyku YouTube channel, featuring a small but growing collection of demo videos focused on features that showcase Hyku as an approachable repository solution for potential adopters. The spirit of this channel is collaborative, with the hope to demo more features across multiple organizations and implementations.

The Hyku Interest Group meets on the last Thursday of each month (8AM Pacific/11AM Eastern) and includes regular updates from Partners, pilot projects, and grant-funded projects. The group welcomes anyone who wants to drop in, learn a bit about current Hyku projects, and ask questions.

Valkyrie had a stable year, with the release of version 2.1.1 in March 2020. Multiple applications are running Valkyrie in production. There are two large production systems, Princeton University's Figgy and the Digital Repositories at Duke University Libraries, representing millions of objects and hundreds of terabytes of data. Work continued on full Hyrax integration, starting at the Solar Vortex Developer Congress in January 2020. The Developer Congress also included updates to the "Dive into Valkyrie" tutorial which touches on the major concepts of Valkyrie. We anticipate additional collaborative sprints in the next year and we look forward to another year of collaboration with the Samvera Community.

events

This year the COVID-19 pandemic shifted nearly all of our meetings and conferences to online meetings and cancelled planned training and user workshops. This turn to virtual meetings will likely be true for all of 2021 as well. Despite this limitation the Community carried on with excellent events that were easy to access for participants from around the world.

Solar Vortex Developers Congress

22-24 January 2020 | San Diego

A group of Samvera's software developers met for a working session focused primarily on Valkyrie and Wings work. There was a commitment to treating the sessions as "online first" with a persistent Zoom meeting and focus on including remote participants in working groups as well as the larger group.

Samvera Steering Group Winter Retreat

27-28 January 2020 | San Diego

The Samvera Steering Group to meet face-to-face to reflect on the Community's work in the previous year and to plan for implementing Partners' plans for the one ahead. A significant part of the meeting dealt with planning for hiring a Community Manager and fundraising.

Code4Lib 2020

8-11 March 2020 | Westin Hotel, Pittsburgh

Samvera Community volunteers staffed an exhibitor table at the Code4Lib annual conference.

Samvera Partner Meeting

27-28 April 2020 | Online

The Partners' annual spring meeting included updates from working groups, a presentation on the Community Manager hiring process, and discussions about how the Community should adapt given the new limitations of the COVID-19 pandemic.

Samvera Virtual Connect 2020

14-15 May 2020 | Online

Samvera's fifth annual Virtual Connect featured an impressive set of presentations from 34 presenters covering a range of topics from React front ends to building on top of Valkyrie; from inter-organizational technology spikes to design sprints. It truly showcased the breadth of work within the Community.

Samvera Developers Congress

16-18 November 2020 | Online

Samvera's first virtual Developers Conference was a great success, with great participation and work on several projects. A similar event will be held at least annually going forward.
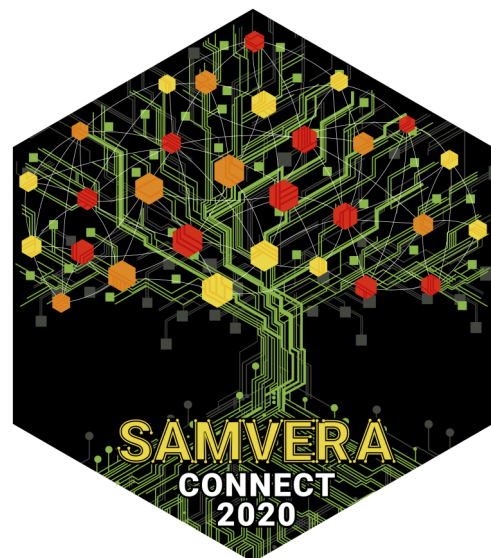
Samvera Partner Meeting

14-15 October 2020 | Online

The fall Samvera Partner Meeting introduced Heather Greer Klein as the inaugural Community Manager. It included discussions of progress on governance recommendations, the Code of Conduct update process, and the best approach to establish a memorial award in Julie Allinson's name.

Samvera Connect 2020 On-line

22-23 and 26-29 October 2020 | Online

Holding a Samvera Connect virtually over several days made it easy for anyone interested or invested in Samvera to attend the annual conference. Over 300 attendees from 60+ organizations in 10 countries took part in the four day virtual conference which featured poster sessions and virtual community-building activities.

contributors & acknowledgements

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Text

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Images

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