

# Samvera Tech 101

Samvera Connect 2020

### **ABOUT US**



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DATA STORES USER INTERFACES



**SAMVERA** 

BACKGROUND JOBS SAMVERA APPLICATIONS



## **SAMVERA**

- > Samvera is the name of the community that maintains a set of Ruby gems and engines (libraries of code)
  - Originally called "Hydra"
  - Also often refers to several application level Rails gems and engines (libraries of code)



### **SAMVERA TECH STACK**







## > "The Samvera Stack" is a collection of application level Rails gems and engines (libraries of code) as a framework to build digital repository solutions

## Dependencies:

- Ruby on Rails
- Solr
- Data Store (relational database management systems, eg: Fedora)
- Blacklight

### **RUBY ON RAILS**

- > Rails an open-source server-side web application framework built with the Ruby programming language
  - Full Stack framework

- What is a framework?
  - A collection of code, tools & utilities that adheres to a specific structure when writing software

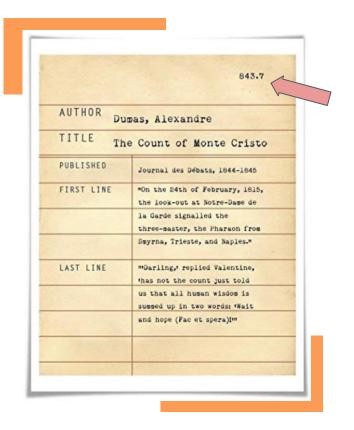






## **DATA STORES**

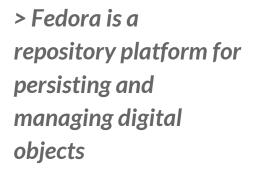
Think: library



# > Solr is a standalone enterprise search server

- Index based data storage and search results
- Allows for fast searching and rich discovery of content
- Communicates over HTTP and XML to an API

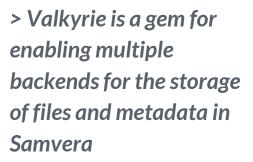
### **FEDORA COMMONS**



- Data store repository of metadata and assets
- Communicates over HTTP and XML



### **VALKYRIE**



- A data mapper library
- As of February 2019, community effort to use Valkyrie within Hyrax
- Offers more flexibility

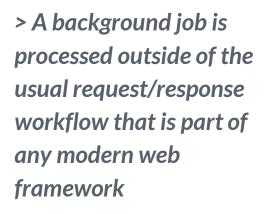




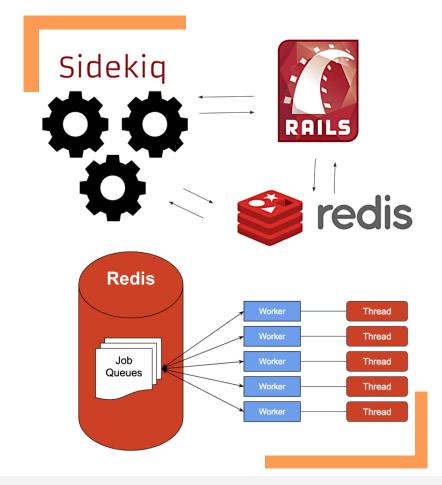
## **BACKGROUND JOBS**

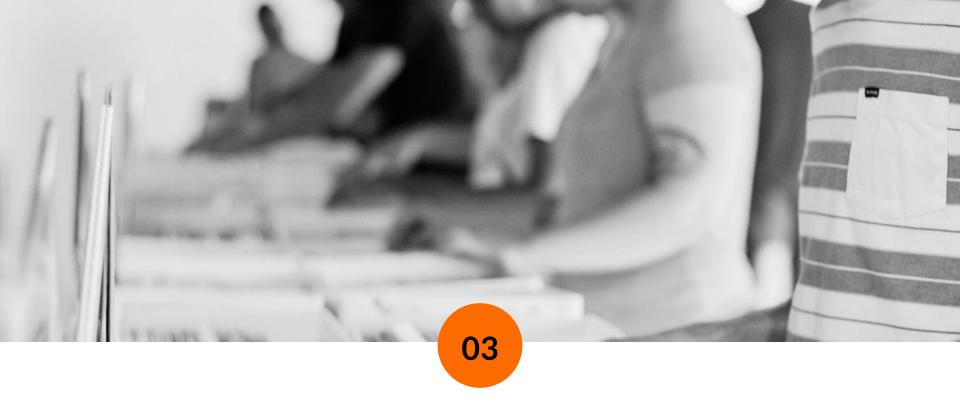
A process that runs outside of your application request cycle

### **BACKGROUND JOBS**



- Asynchronous
- Examples include:
  - Sidekiq
  - Delayed Job





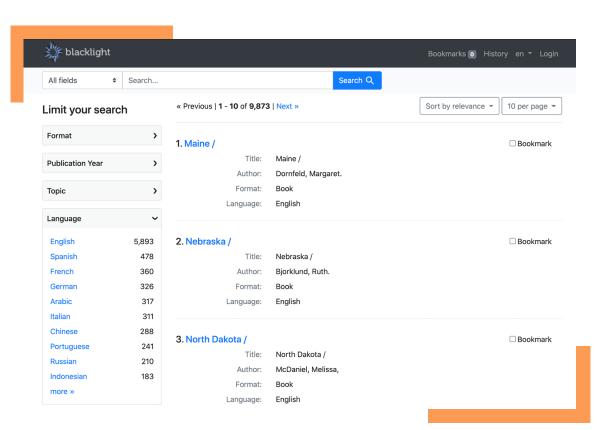
## **USER INTERFACES**

How a user interacts with your app

### **BLACKLIGHT**

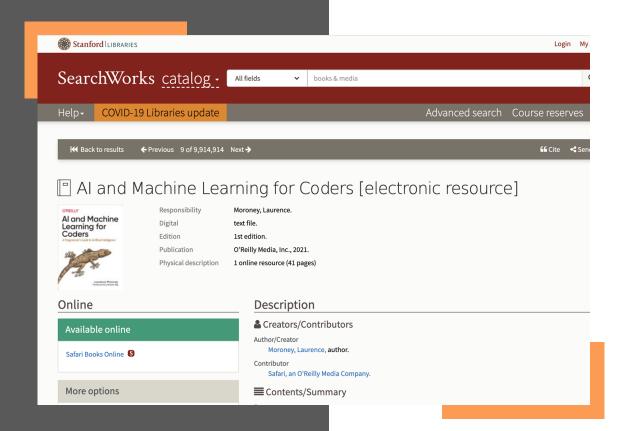


- Provides full text and/or metadata search capabilities
- Highly customizable



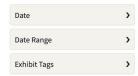
### **BLACKLIGHT**

- > Blacklight provides an interface for Solr
  - Provides full text and/or metadata search capabilities
  - Highly customizable



# Say Their Names Green Library Exhibit supporting the Black Lives Matter movement HOME EXHIBIT ABOUT Search...

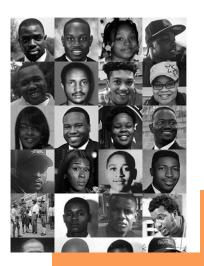
### Limit your search



The Stanford Libraries stand in solidarity with the Black, Indigenous, and People of Color (BIPOC) communities on campus and across the country. University Librarian Michael A. Keller's statement, "In Solidarity and Support," and the Stanford Libraries' values statement reaffirm our organizational commitment to being an inclusive and welcoming academic setting for all. While these statements and commitments to racial justice, equity and diversity are important, we felt it also necessary that the Libraries engage in direct ways as it relates to recent events.

One of the ways we intend to put our words into action is a visually cohesive, thoughtfully curated exhibition that is installed in Green Library as well as preserved online. As Librarians, we are charged with the awesome responsibility of being keepers of the light and protectors of our shared memories. This is what fuels our work, and what has energized a dedicated group of library staff to assemble, roll up our sleeves and in mere weeks turn a concept into reality.

Say Their Names – No More Names is an exhibit that highlights victims who were chosen because they represent a variety of Black Americans whose freedoms were denied or whose lives were callously taken by vile attacks that have terrorized the Black community for centuries. The victims are young, old, transgender



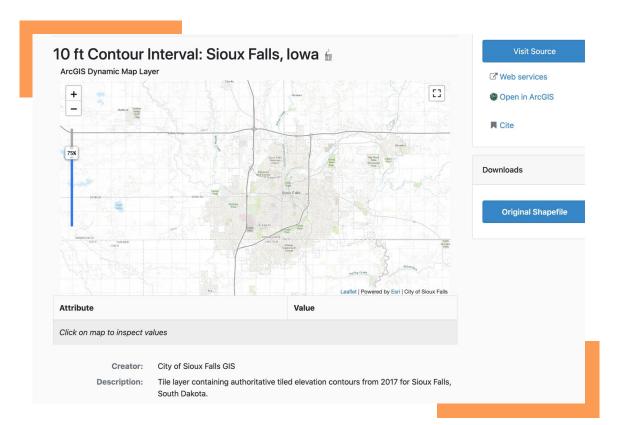
# > Spotlight highlights digital collections

- Enables non developers to create their own websites
- Self service

### **GEOBLACKLIGHT**

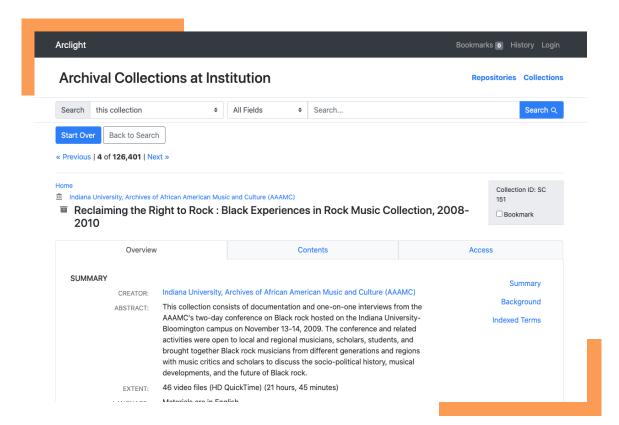


- Extends the Blacklight app
- Requires Solr and a relational database



### **ARCLIGHT**

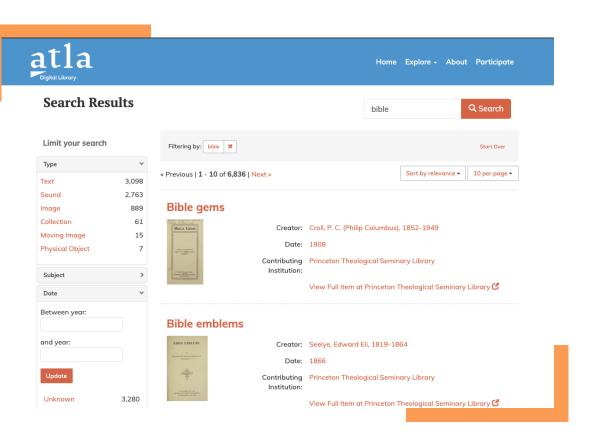
- > Arclight is a Rails engine supporting the discovery of archival information
  - Multiple collections per repository





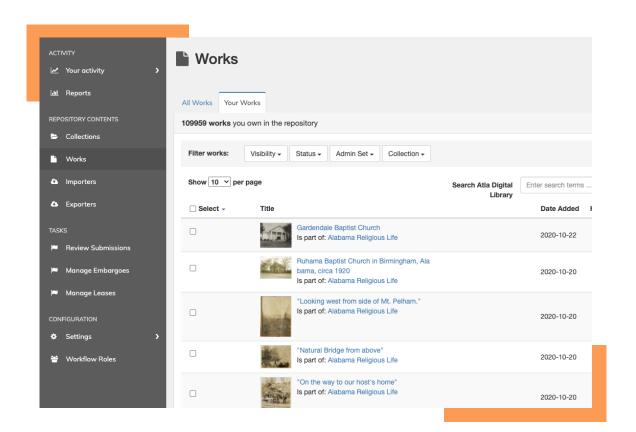
## **SAMVERA APPLICATIONS**

Rails applications that follow Samvera conventions



# > Hyrax is a full stack application for repositories

- Descended from Sufia and CurationConcern
   s
- Admin friendly
- Maintained by the community



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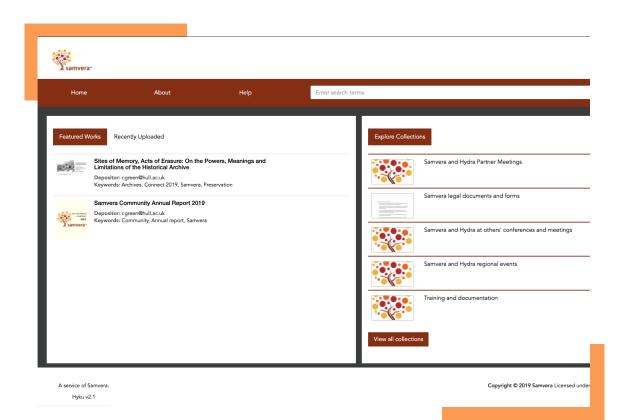




grace.hykucommons.org

- > Hyku is an out-ofthe-box repository application with multitenant capability
  - Built on Hyrax
  - Easier deployment and maintenance
  - Offered as a service





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2014 Weinberg College Convocation

#### Date

2014-06-21

#### Main contributor

Weinberg College of Arts and Sciences (WCAS) Northwestern University

#### Summary

Weinberg College Senior Convocation 2014 introductory remarks from Sarah C. Manglesdorf, Dean, Judd A. and Marjorie Weinberg College of Arts and Sciences. Address by Daniel Pink '86, noted author and cultural critic. Introduction by Sarah Mangelsdorf, Dean of the Judd A. and Marjorie Weinberg College of Arts and Sciences.

### Contributor

Weinberg College of Arts and Sciences (WCAS) Northwestern University

Commencement ceremonies; Graduation (School); Northwestern University (Evanston,

## > Avalon is a platform for digital audio and video

- Built on Hyrax
- Customizable



### SAMVERA TECH STACK REVIEW













































## **THANKS!**

Are there any questions?

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