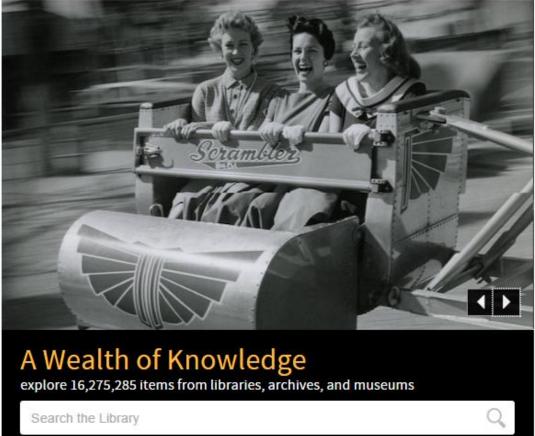
# DEVELOPING THE DPLATEXAS SERVICE HUB, V.2.

A collaboration to build the next generation aggregator for Texas

Kristi L. Park, Executive Director, Texas Digital Library
Ryan Steans, Assistant Director, Texas Digital Library
Dr. Martin Halbert, Dean, University of North Texas Libraries
Judith Hiott, Chief, Houston Area Library Network
Nick Woodward, Software Engineer, Texas Digital Library
Hannah Tarver, Supervisor of Digital Projects, University of North Texas Libraries



Exhibitions Map Timeline Apps



#### **Exhibitions**

View all »





Explore by Place



Timeline »

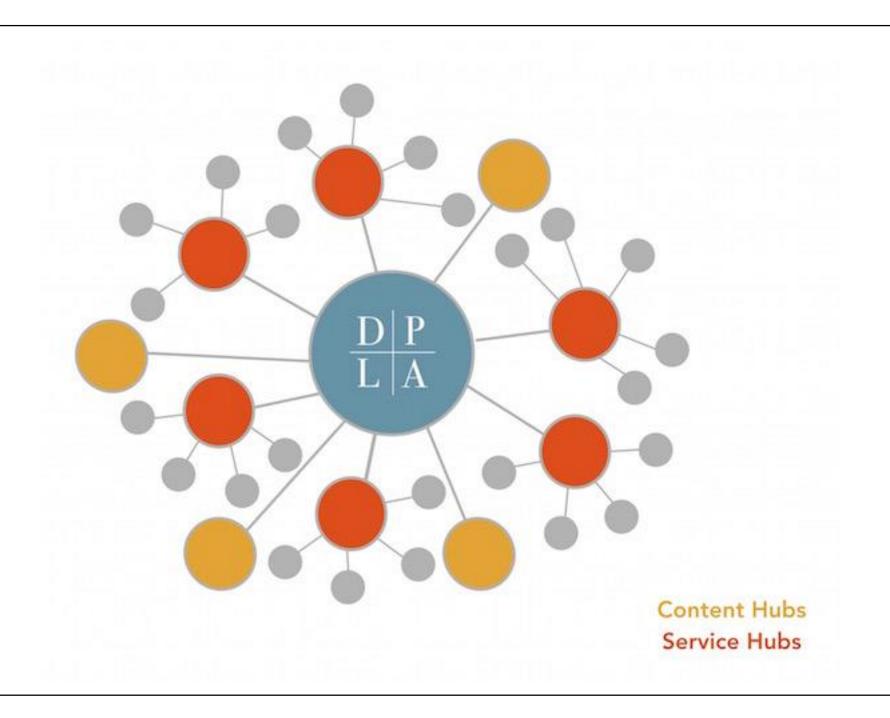


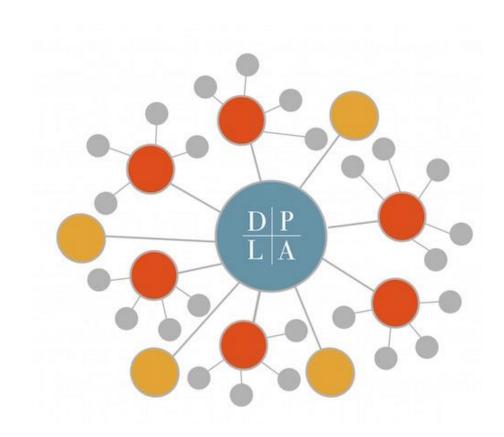


- —Search & Browse portal
- —Open API
- —Primary Source Sets for K-12 and Higher Ed
- —Hydra in a Box (Hyku)
- —Ebooks initiatives



- —Increase Visibility of Resources
- —Promotes Information Literacy
- —Enables free dissemination of information
- —Connects disparate collections





#### Mountain West Digital Library

http://mwdl.org/



https://mndigital.org/



https://padigital.org/



https://texashistory.unt.edu/



Damon, Katy & Damon, Fred. [Barbara Jordan Being Interviewed], photograph, October 21, 1971;(texashistory.unt.edu/ark:/67531/metapth38928 5/: accessed April 18, 2017), University of North Texas Libraries, The Portal to Texas History, texashistory.unt.edu; crediting Texas Southern University.



Home Exhibitions Map Timeline Apps

« back to search results

Search the Libra

#### [Barbara Jordan Being Interviewed]

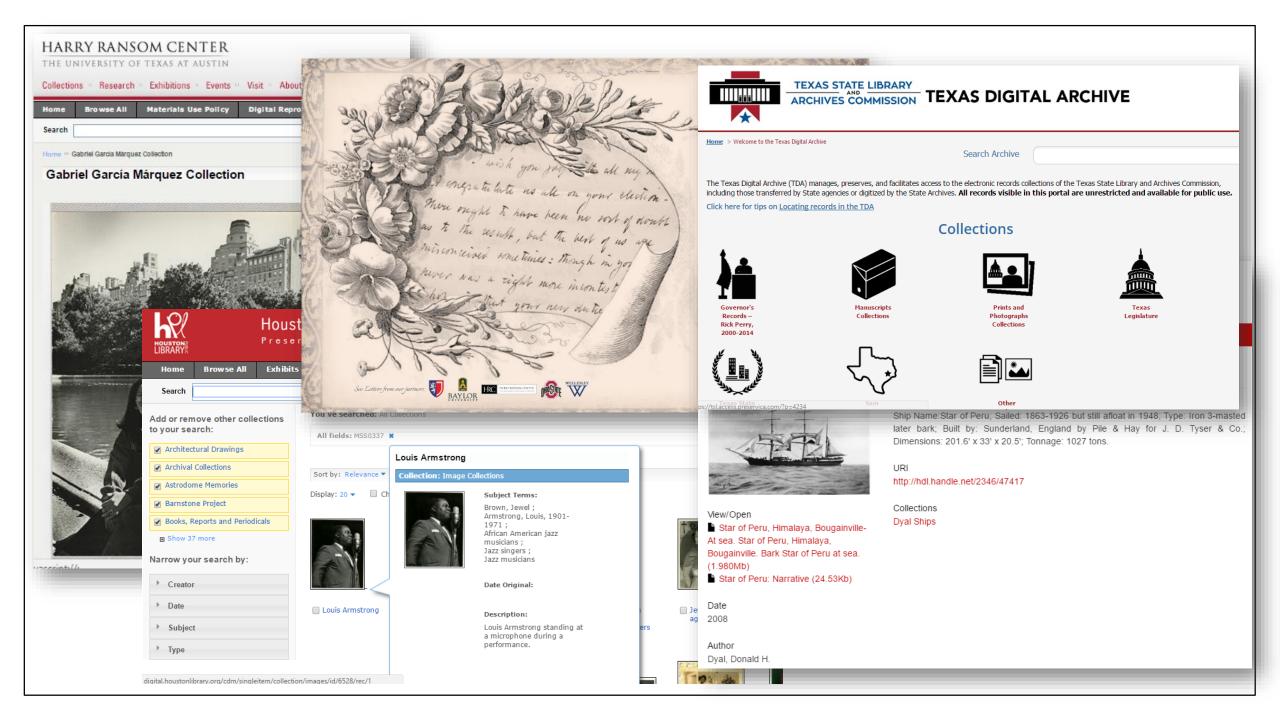


Get full Image from The Portal to Texas History

Creator	Damon, Katy; Damon, Fred
Created Date	1971-10-21
Partner	The Portal to Texas History
Contributing Institution	The Portal to Texas History
Description	Photograph of Barbara Jordan being interviewed by a reporter at the Rice Hotel in Houston, Texas. 1 photograph : b 10 x 8 in.
Location	United States - Texas - Harris County - Houston



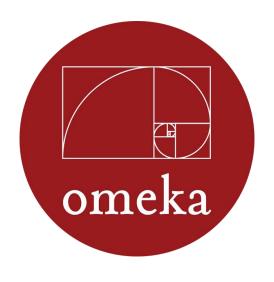
So what's the problem?



















LSTA Cooperation Grant funding through:





### Project objectives

- Develop comprehensive inventory of major digital (archival) collections in Texas.
- 2. Develop a sustainable model for operations and governance for a statewide DPLA aggregation hub.
- 3. Implement a demonstration hub that aggregates collections from the Project Partners' digital collections, as well as a select group of other participants.

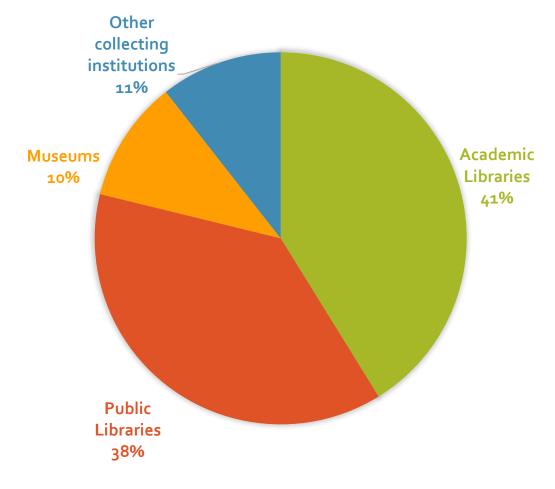
https://tdl.org/2016/08/texas-digital-library-awarded-library-cooperation-grant/

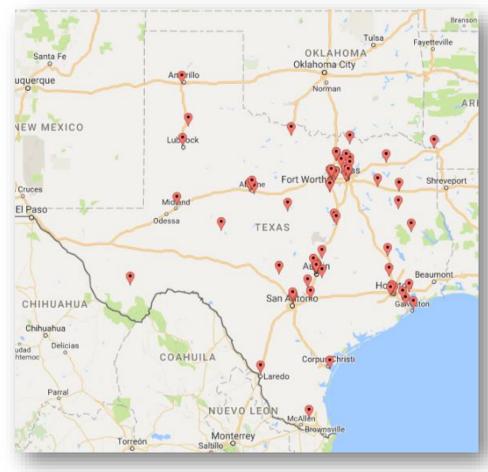
#### Research

• Digital Collections Survey & Inventory

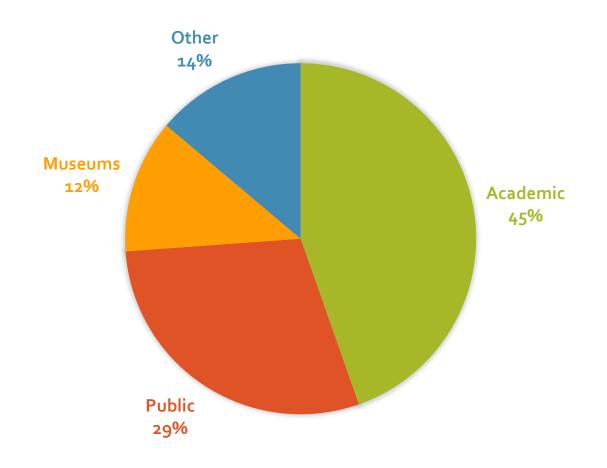
Q7 Does your institution currently maintain digital collections?  O Yes (1)
O No (2)
O I don't know/Not sure (3)
Q8 If you don't currently maintain digital collections, do you plan to create digital collections?
O Yes (1)
O No (2)
O I don't know/Not sure (3)
Q9 Select from the list below the types of digital collections your institution maintains (select all that apply).
□ Institutional Repository (IR) content/Scholarly research collections (such as electronic theses and dissertations, article pre-prints, research papers, or research data) (1)
□ Newspaper collections (2)
□ Audio/Video Collections (3)
Government documents (4)
☐ Finding Aids/EADs (5)
Other cultural heritage materials (6)
☐ Other (please specify) (7)
Q10 Tell us a little about the materials in your digital collections.
Q11 Please estimate the number of distinct collections of archival materials (not including Institutional Repository content or finding aids) are available in your institution digitally.

## Digital Collections Survey Responses





### Institutions with digital collections



#### Materials include...

- Photos
- Audio-visual materials
- Local & institutional history
- Finding Aids
- Newspapers
- Government documents
- Theses & dissertations
- Rare books and manuscripts
- Yearbooks

#### Platforms & Metadata

- DSpace and CONTENTdm dominate
  - Others: Omeka, Islandora, Glifos, homegrown repositories, Polaris Fusion, database apps, etc.
- Majority use DC or Qualified DC (69%)
- Inconsistency in use of rights statements (academic libs more likely to include rights statements)

### Portal to Texas History

- A majority (58%) had materials in the Portal to Texas History.
- But only 8 (14%) had everything in the Portal.
- 78% have digital materials that aren't discoverable in DPLA

### Technology Development

- Working with 7 institutions to test the aggregator and find the pitfalls
- To come: develop search/browse front end for aggregated Texas collections















### Metadata hubs survey

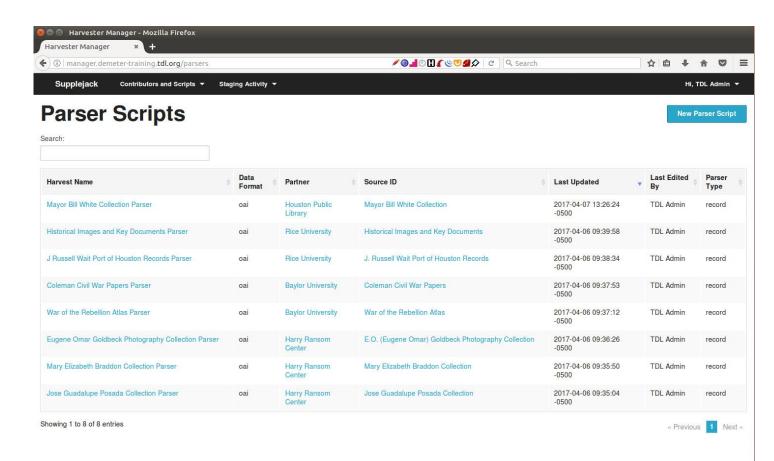
- Phone interviews with six metadata hubs
- Technology stacks: REPOX, custom Rails applications, Heidrun, others
- Diverse metadata sources and technology stacks, but large reliance on ContentDM and DSpace
- Most solutions depend on command line and lack GUI
- Cross-functional teams to handle all steps of the process

### Supplejack

- Developed at Digital Library of New Zealand
- Open source developer community
- Scalable to millions of records and hundreds of collections
- Technology stack
  - Ruby on Rails applications for the API, Harvest Manager and Worker
  - MongoDB to store metadata
  - Solr search index
  - Scheduled metadata harvesting Ruby libraries for cron jobs
  - Parallel metadata harvesting using multiple Ruby servers

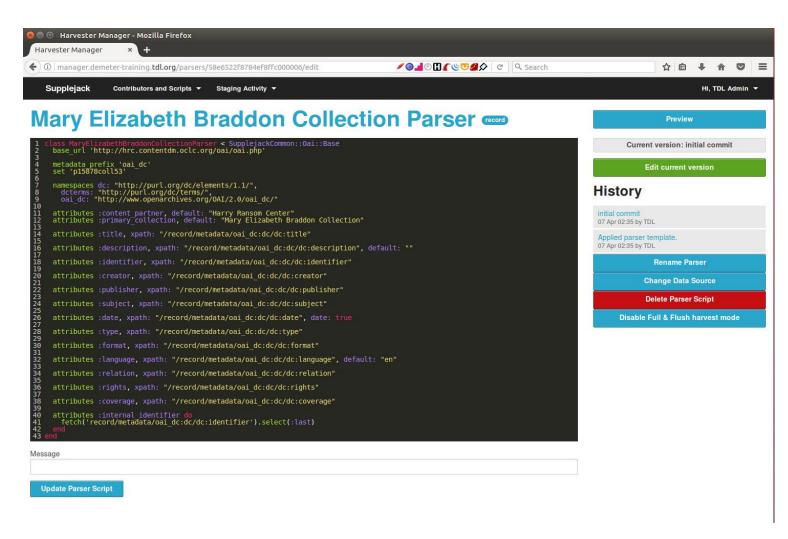
### Collection parsers

- Four institutions
- Collections in ContentDM and DSpace
- OAI-PMH endpoints
- Compound objects



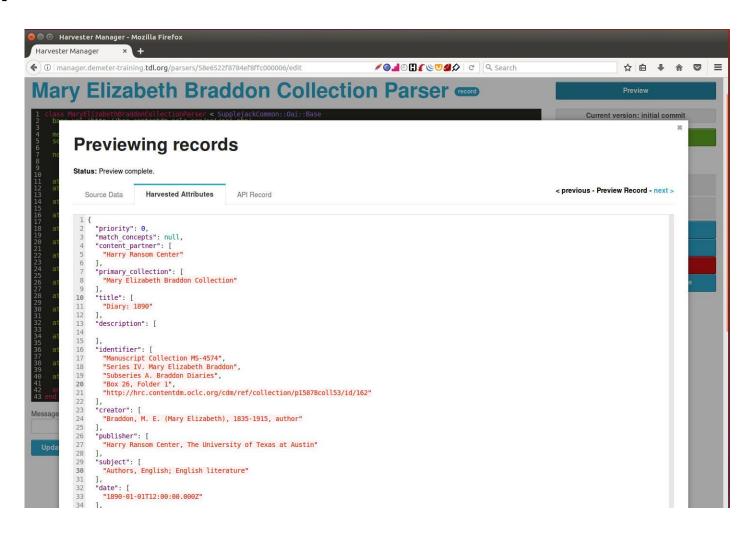
### Parser script editor

- Version control
- Metadata mapping
- XSLT paths
- Namespaces
- Conditional logic and functions in Ruby



### Harvest results preview

- Results in real time
- Raw data and metadata mapping
- API Record preview
- Usefulness depends on structure of feed results



#### Successes...

- Development and production Supplejack environments in AWS
- Custom metadata API
- Metadata harvesting of eight collections in ContentDM and DSpace

#### and Challenges

- Environment setup and maintenance issues
- Handling metadata enrichments asynchronously from harvests
- Export and review of harvest results

### Technology Roadmap

- Manage the scheduling process for metadata harvests
- Separate server for dynamic image thumbnail generation
- OAI-PMH endpoint for re-harvesting of metadata
- Expand on collections in the pilot to include others that meet minimum criteria (e.g. OAI-PMH endpoint, metadata standards, etc.)
- Develop workflow and add staff to support regular metadata harvesting

### Long-term sustainability

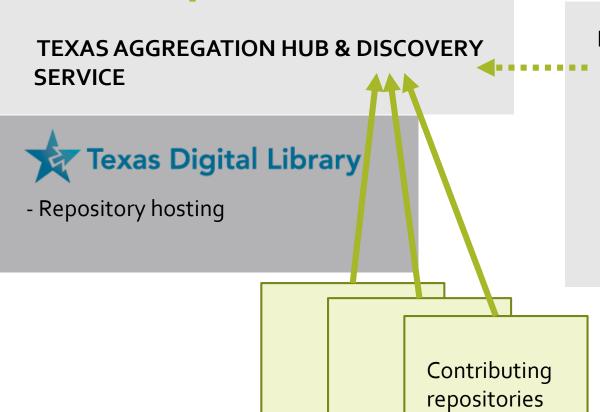
- •1 FTE for training, outreach, and metadata coordination
- On-going software development support
- DPLA Hub Membership fee (coming soon)
- Governing body representing all hub constituents (publics, academics, museums & archives, etc.)

### Looking ahead

- Seeking additional grant funding for FY2017-18 to continue development and roll-out of aggregation service
- Work in phases, with collections meeting strict criteria included in phase 1
  - OAI endpoint
  - Inclusion of DPLA-required metadata elements, including rights statements (<a href="https://dp.la/info/wp-content/uploads/2015/03/MAPv4.pdf">https://dp.la/info/wp-content/uploads/2015/03/MAPv4.pdf</a>)
  - Ability to provide metadata mapping to DPLA standard
  - Agreement to consider aggregated metadata as public domain



Texas DPLA Hub Governing Body/Bodies (HPL and others...)



#### **PORTAL TO TEXAS HISTORY**

- Content hosting
- Digitization and metadata services



Texas Service Hub (Tentative structure)

#### How can you participate?

- Tell us about your digital collections. (<u>info@tdl.org</u>)
- Get involved with DPLA.
  - Community reps: <a href="https://dp.la/info/get-involved/reps/">https://dp.la/info/get-involved/reps/</a>
  - Build something with the API: <a href="https://dp.la/info/developers/">https://dp.la/info/developers/</a>
  - Use DPLA resources: <a href="https://dp.la/primary-source-sets">https://dp.la/primary-source-sets</a>
- Contact info:
  - Kristi Park (<u>kristi.park@austin.utexas.edu</u>)
  - Nick Woodward: njw@austin.utexas.edu
  - General information: <u>info@tdl.orq</u>.