



D

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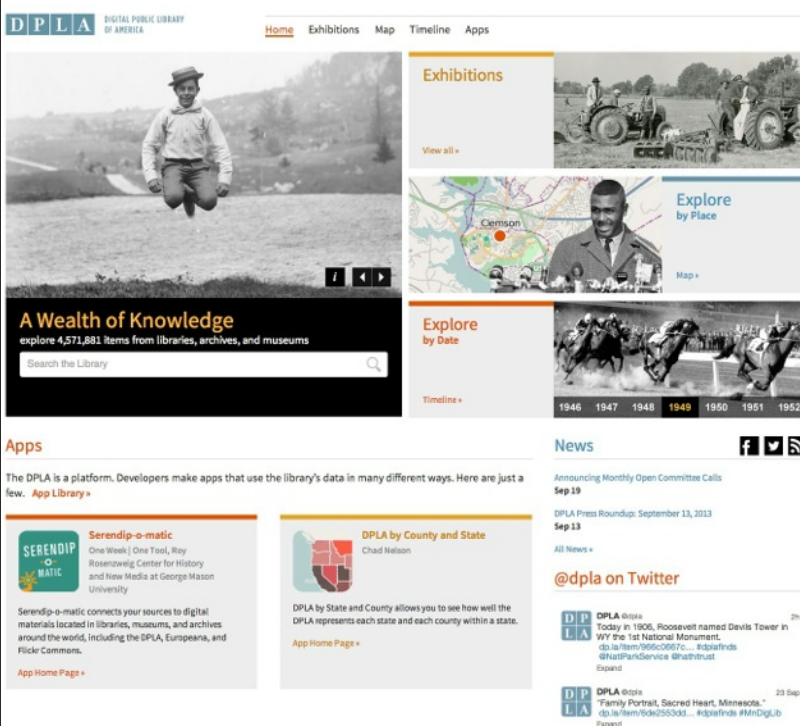
A

Geneva Free Library, 1950s.
ALA Archives. University of Illinois at Urbana-Champaign

Mark A. Matienzo - mark@dp.la
Director of Technology

LibHack/ALA Midwinter
January 2014

DPLA is . . .



PORTAL

PLATFORM

PUBLIC OPTION

A **PORTAL** FOR DISCOVERY



A Wealth of Knowledge

explore 5,420,142 items from libraries, archives, and museums



Exhibitions

[View all »](#)


Explore
by Place

[Map »](#)

Explore by Date

[Timeline »](#)


1946 1947 1948 **1949** 1950 1951 1952

Apps

The DPLA is a platform. Developers make apps that use the library's data in many different ways. Here are just a few. [App Library »](#)



Serendip-o-matic

One Week | One Tool, Roy
Rosenzweig Center for History
and New Media at George Mason
University

Serendip-o-matic connects your sources to digital materials located in libraries, museums, and archives around the world, including the DPLA, Europeana, and Flickr Commons.

[App Home Page »](#)


DPLA by County and State

Chad Nelson

DPLA by State and County allows you to see how well the DPLA represents each state and each county within a state.

[App Home Page »](#)

News



Press: "Digital Public Library of America: Young but Well Connected"

Dec 9

CC0 (+BY)

Dec 4

[All News »](#)

@dpla on Twitter



Serenity Ibsen
@IbsenIbsen

15h

OMGYOUGUYS I get to be a 2014 @DPLA Community Rep! I'm so excited! [dp.la](#)

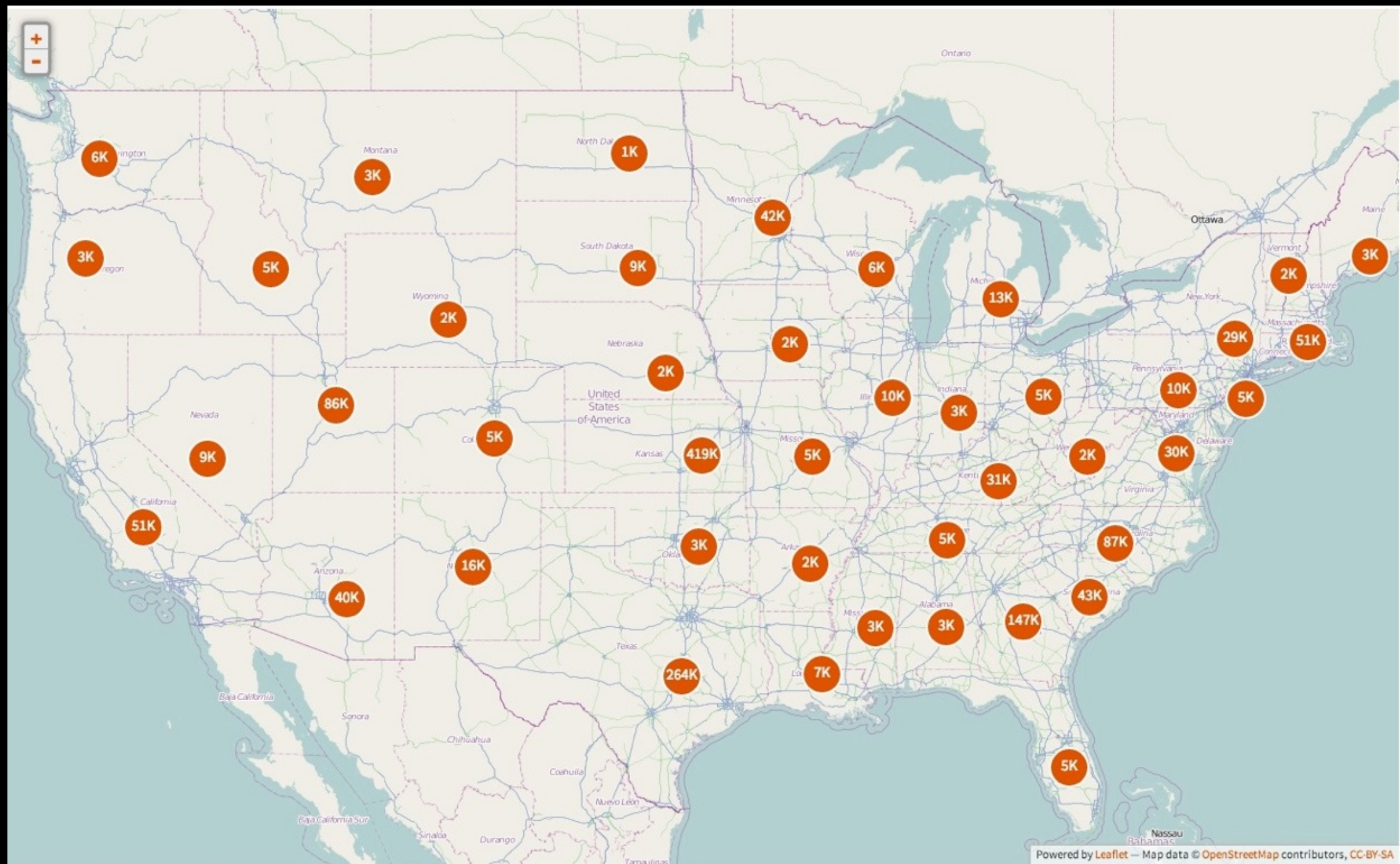
↳ Retweeted by DPLA

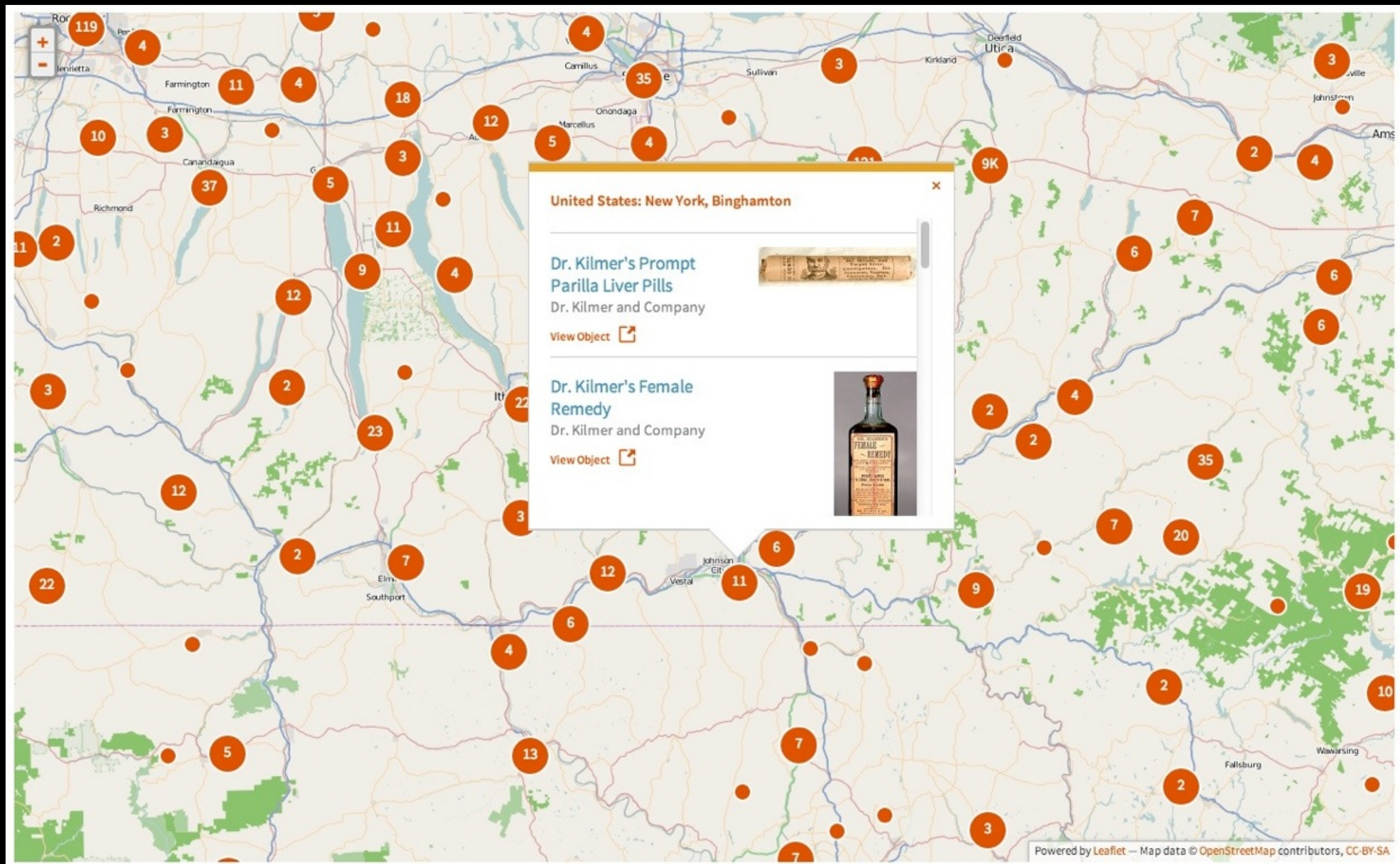
Expand



chad nelson
@chadnelson

15h



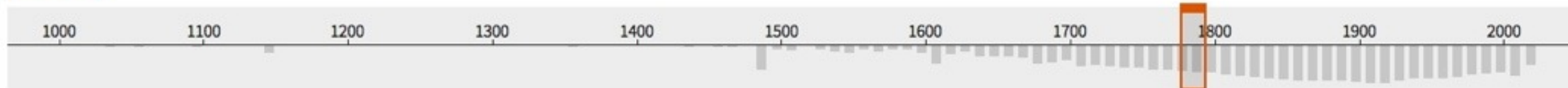


Timeline

Your search for **new york** returned 489,995 results.

Only results with time data are shown below.

Show >



View: Decades Years

1783

149 items

TEXT

Thomas Walke's Account of Capturing his Runaway Slaves in New York City
Congress of the Confederation. (03/02/1781 - 03/04/1789)

View Object 



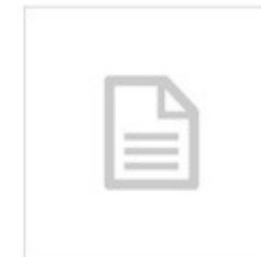
TEXT

[Letter to Daniel Parker regarding possible British evacuation of Washington's slaves from New York]
[manuscript]

Washington, George, 1732-1799, Parker, Daniel, recipient, Boston Public Library. American
Revolutionary War Manuscripts Collection

Holograph, signed

View Object 



TEXT

The new spelling dictionary, teaching to write and pronounce the English tongue with ease and
propriety

Entick, John, 1703?-1773



Exhibitions

Share



Activism in the U.S.



America's Great Depression and Roosevelt's New Deal



Boston Sports Temples



Bread and Roses Strike of 1912:
Two Months in Lawrence,
Massachusetts, that Changed Labor
History



History of Survivance: Upper
Midwest 19th Century Native
American Narratives



Indomitable Spirits: Prohibition in
the United States



Leaving Europe: A new life in
America



This Land Is Your Land: Parks and
Public Spaces

Bookshelf

Your search for **binghamton** returned 121 results.

Only book and periodical results are shown below.

Refine

Contributing Institution

Library of Congress	36
New York Public Library	28
University of Michigan	12
University of California	11
Cornell University	11

[More »](#)

Partner

HathiTrust	121
------------	-----

By Date

From

To

[Update](#)

By Language

English	119
Slovak	1

Sort by:



- The annals of Binghamton**
Wilkinson, J. B. [from old catalog] 1840
- City of Binghamton**
Binghamton, N.Y. Board of trade. [from old catalog] 1901
- The annals of Binghamton**
Wilkinson, J. B. [from old catalog] 1872
- City of Binghamton**
Binghamton, N.Y., Board of trade. [from old catalog] 1903
- Better Binghamton; a report to the Metcandle...**
Robinson, Charles Mulford, 1869- [from old catalog]
- The zoning ordinance of the city of B...**
Binghamton (N.Y.) Ordinances, etc. 1923
- The Dwight house, Binghamton, N.Y.** 1874
- Binghamton, past and present:** 1894
- Board of trade review of Binghamton, N.Y.**
Binghamton, N.Y. Board of trade. [from old catalog] 1892
- Binghamton, its settlement, growth and develo...**
Lawyer, William S., 1833?-1917, [from old catalog] ed 1900
- Contracting out services at Binghamton, NY ...**
United States. Congress. House. Committee on Post Office an... 1990

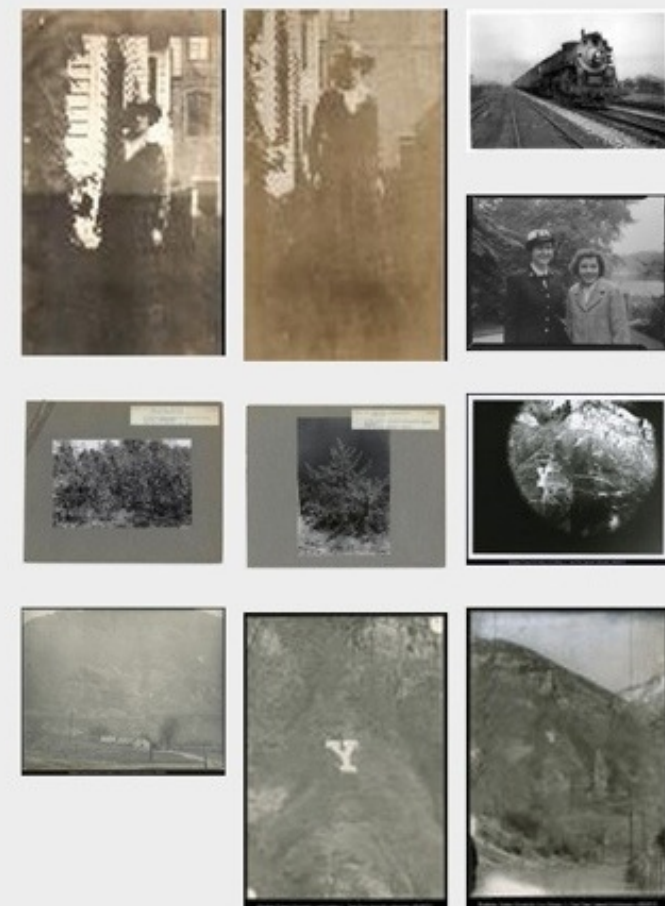
Binghamton, past and present:

Subjects: [Binghamton \(N.Y.\)](#)

[View](#)



Related Images



DPLA HUBS



*David
Rumsey
Map
Collection*



DIGITAL
LIBRARY of GEORGIA
SHARING GEORGIA'S HISTORY AND CULTURE ONLINE





*David
Rumsey
Map
Collection*



CONTENT HUBS

Share 250K+ records and content previews
Work to **globalize** metadata

SERVICE HUBS

Share metadata and content previews

Represent community as single metadata aggregation point

Work to **globalize** metadata

Provide **outreach** to partners

Actively **engage** with community



DIGITAL
LIBRARY of GEORGIA
SHARING GEORGIA'S HISTORY AND CULTURE ONLINE

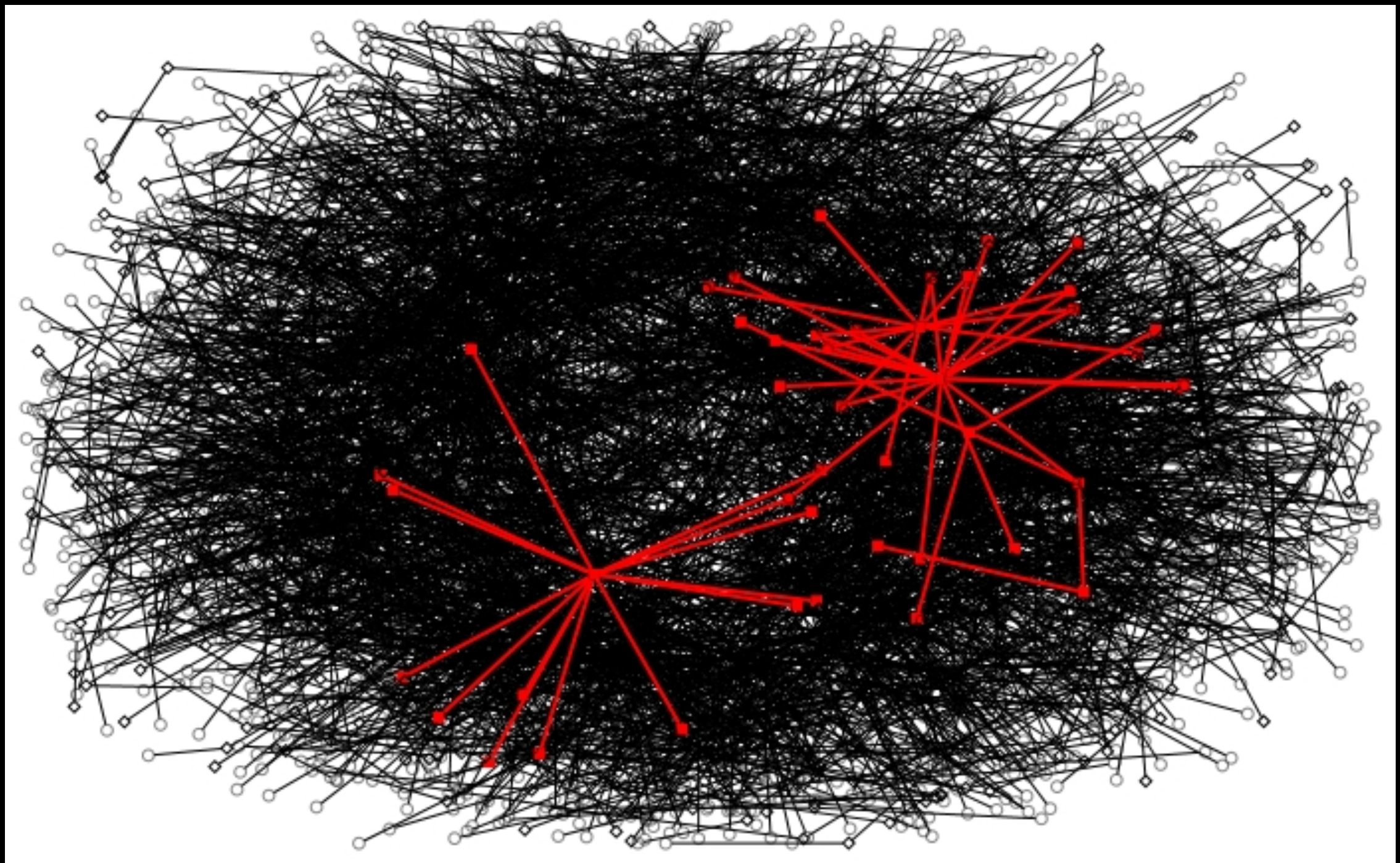


kdl Kentucky
Digital
Library

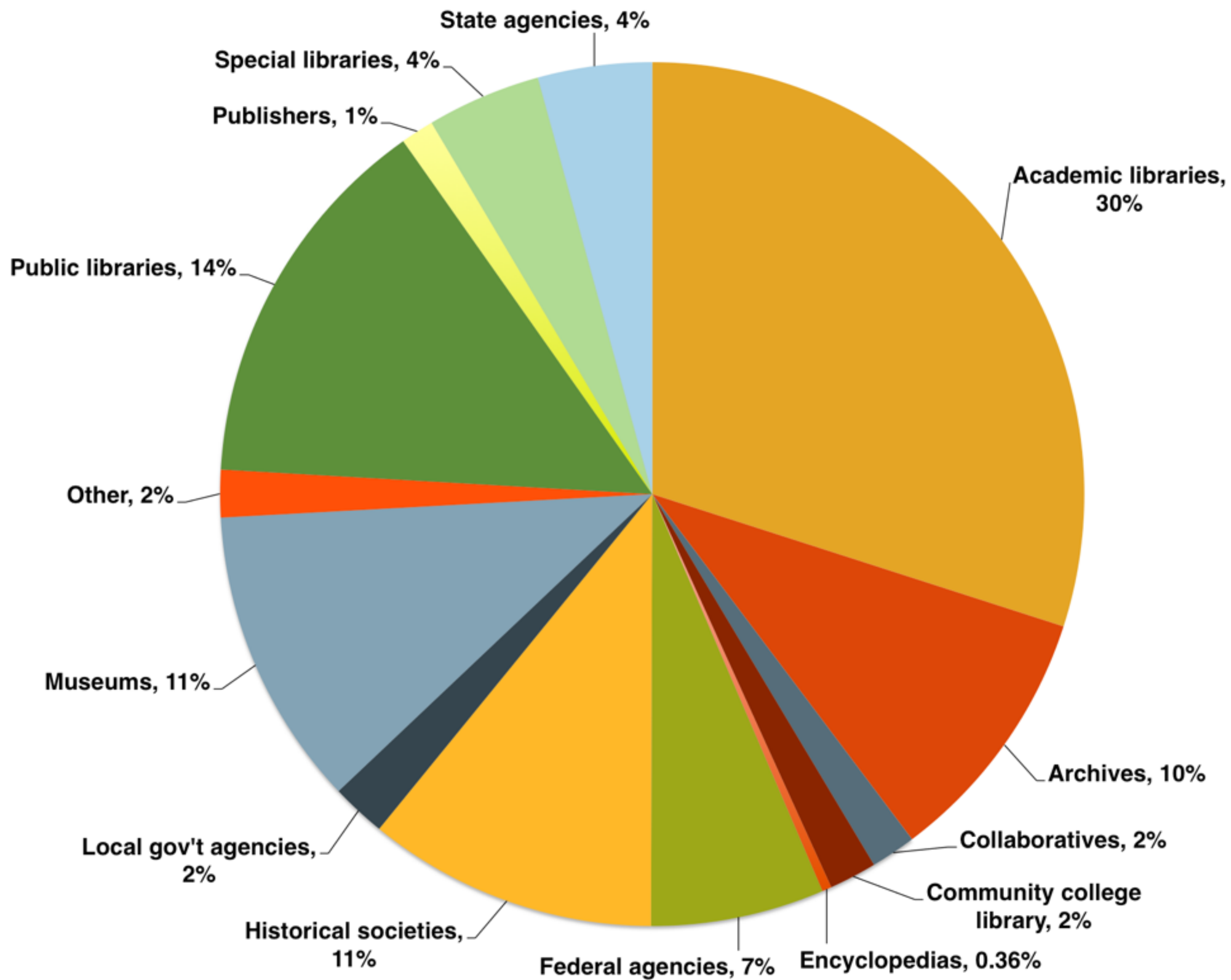


Mountain West Digital Library
UTAH ACADEMIC LIBRARY CONSORTIUM

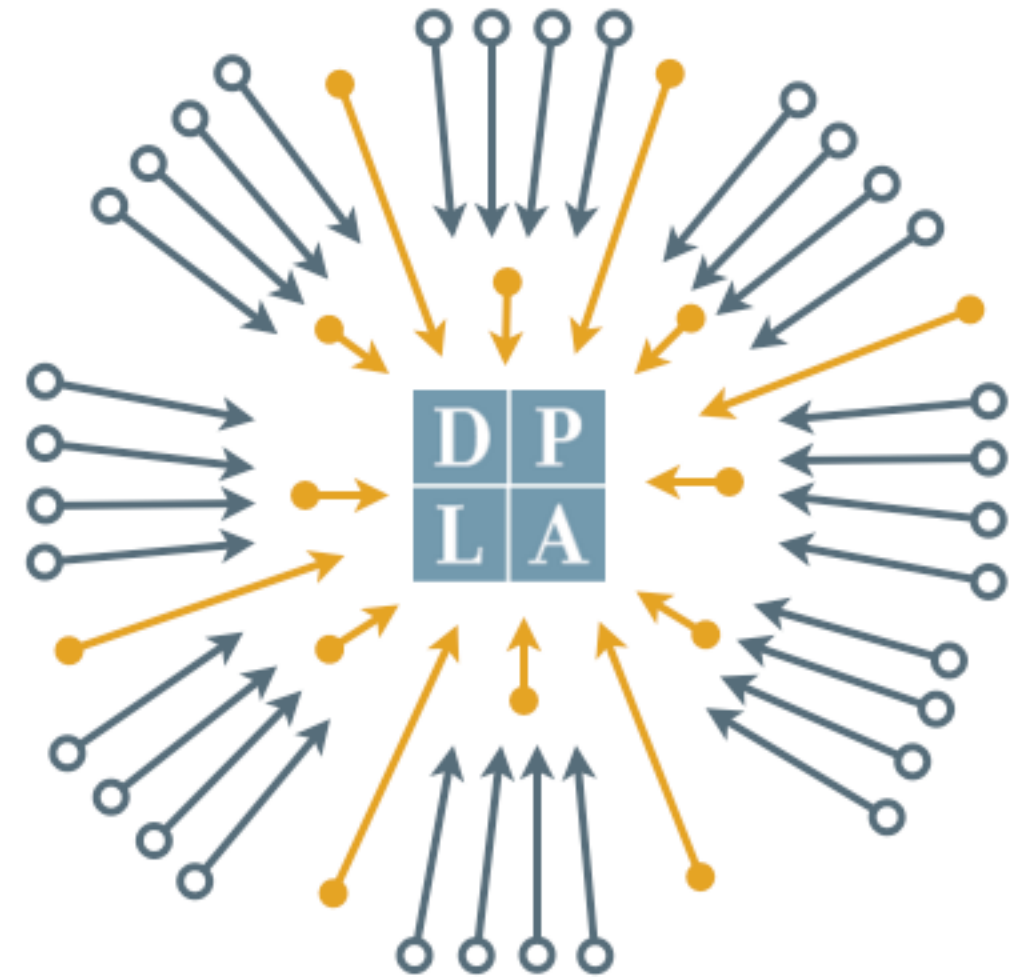
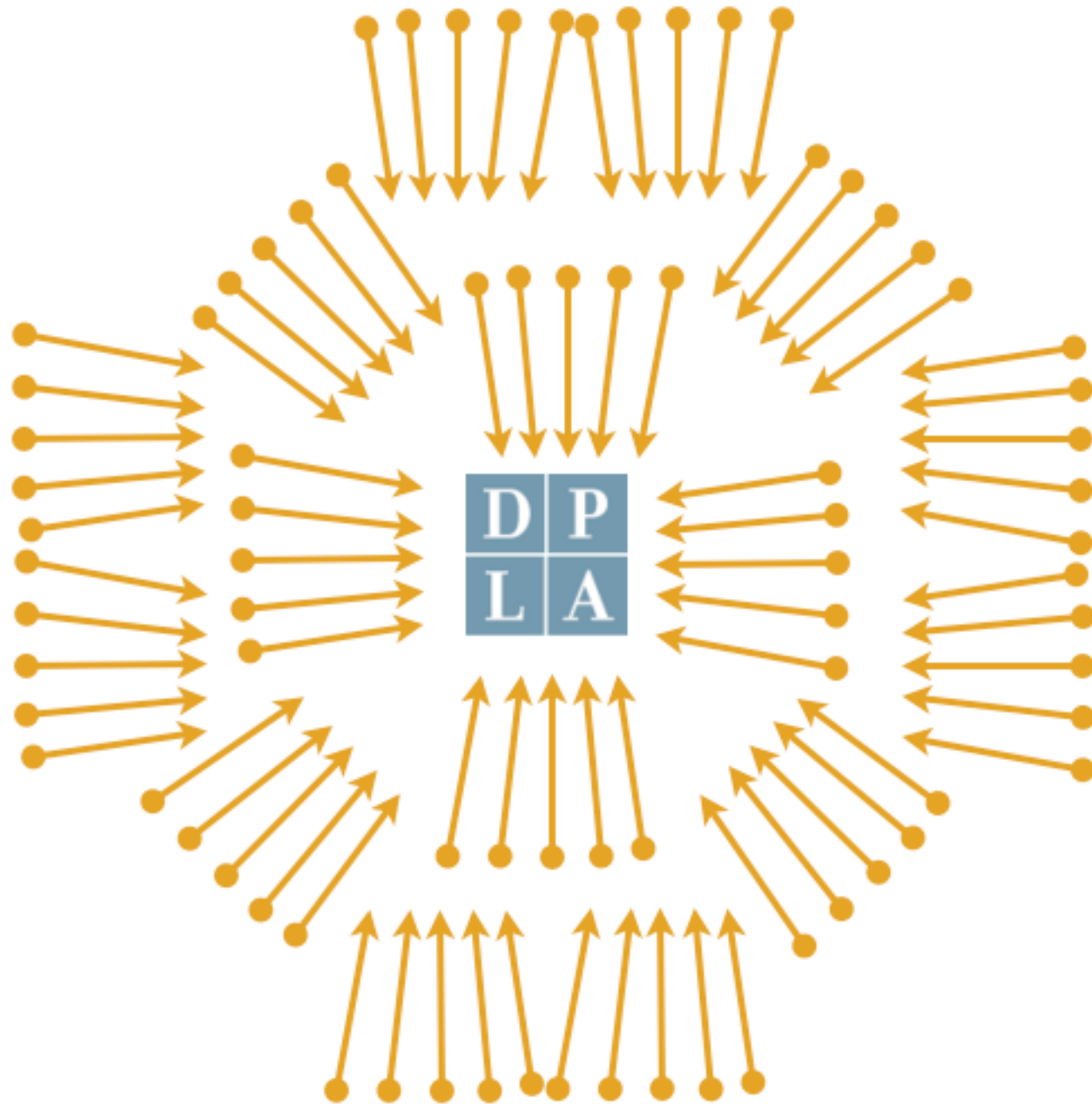




1,100 "Partners"



One-to-one partnerships





Service and Content Hubs model

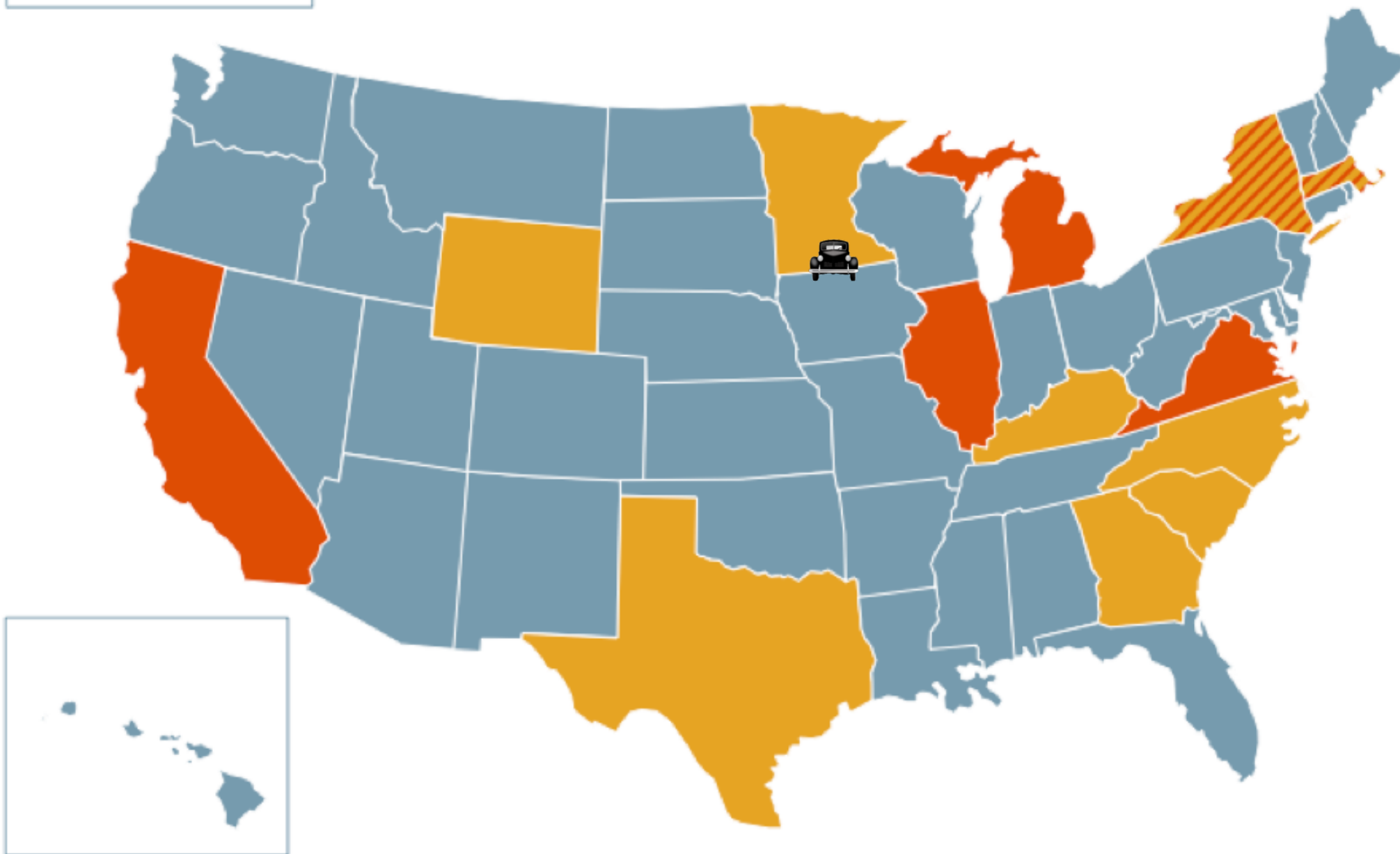


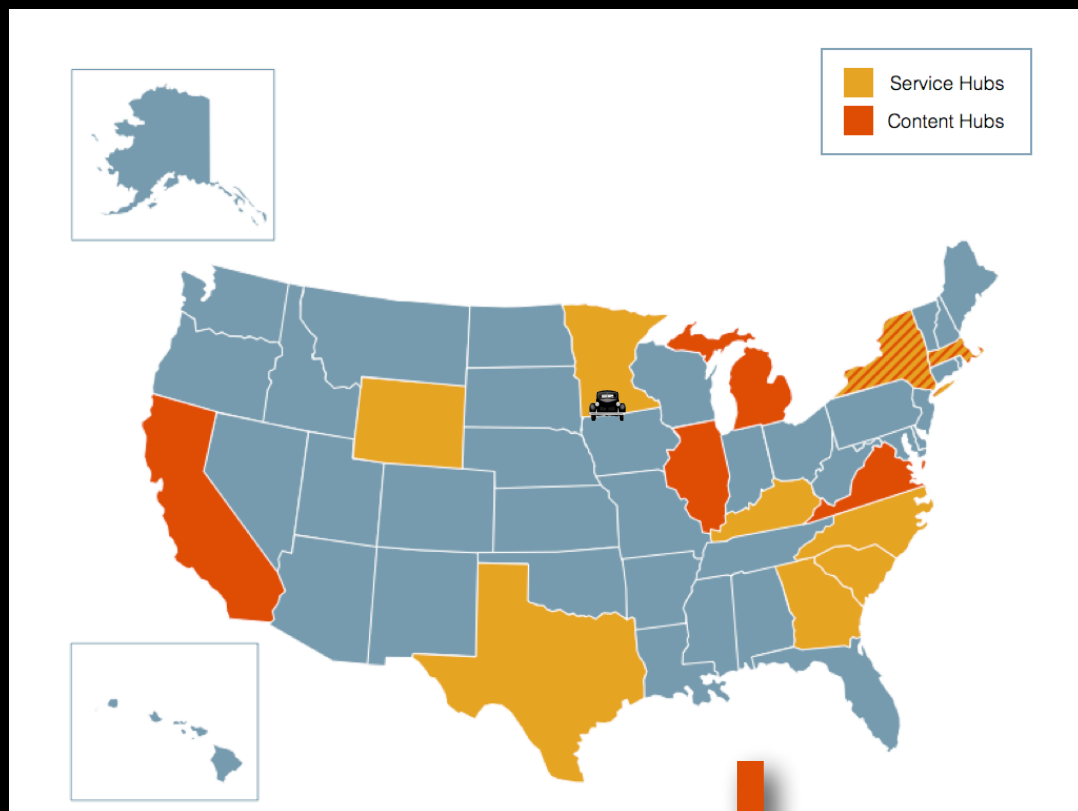


Rudolph Volk and Martin Klein in an old automobile, east of St. Peter, Minnesota, 1907?.
Nicollet County Historical Society, Minnesota Digital Library



-  Service Hubs
-  Content Hubs





MINNESOTA DIGITAL LIBRARY
minnesota reflections

Home Browse Nicollet County Historical Society User Guides Newspapers Favorites ? Help

Search Search Advanced Search

Home > Nicollet County Historical Society > Rudolph Volk and Martin Klein in an old automobile, east of St. Peter, Minnesota

Reference URL Share Add tags Comment Save to favorites

Rudolph Volk and Martin Klein in an old automobile, east of St. Peter, Minnesota

View Description

Download Print

Contributing Institution

University of Southern California. Libraries	6
Utah State Historical Society	2
University of Utah - J. Willard Marriott Library	2
Georgia. Dept. of Archives and History	2
David Rumsey	2

More »

Partner

University of Southern California. Libraries	7
Mountain West Digital Library	4
Minnesota Digital Library	3
Digital Library of Georgia	3
David Rumsey	2

More »

By Date

From Month Day Year

To Month Day Year

Update

By Language

English	1
---------	---

By Location

Los Angeles	5
USA	4
California	4
Sunset Boulevard	3

View Object

IMAGE

Richard Heath of Boston on 2 cyl. 1904 Maxwell
Griffin, Arthur, 1903-

Title from item or materials accompanying item.. Date supplied by cataloger.

View Object

IMAGE

Maxwell Auto Company, Auto at City and County Building; Shipler #02382
Shipler Commercial Photographers; Shipler, Harry

Image shows two men riding in a classic automobile in front of the City and County Building.. Good condition.

View Object

["IMAGE", "TEXT"]

Old Maxwell brake drum comparison, Southern California, 1932
Dick Whittington Studio

Photograph of man with old automobile, holding brake drum and pointing to the brake drum on the automobile, Southern California, 1932. "Subject: Old Maxwell brake drum comparison; Agency: Steedle & Roberts; Client: True Drum Brake Shop; Original Print Ordre: 2; Size: 8x10; Finish: gl[ossy]; Year: 1932; Job: 3-15-85"--on envelope front. "Operator's Report (Name): Joe; 1-8x10; Amount: 3.00; Extra Charges: Roberts"--on envelope back.

View Object

IMAGE

[Photograph of Haywood Leland Moore in an automobile, Laurens County, Georgia, ca. 1914]

Near Dublin, ca. 1914. Haywood Leland Moore, at about age one and a half, sitting behind the wheel of a Maxwell automobile.

View Object

IMAGE

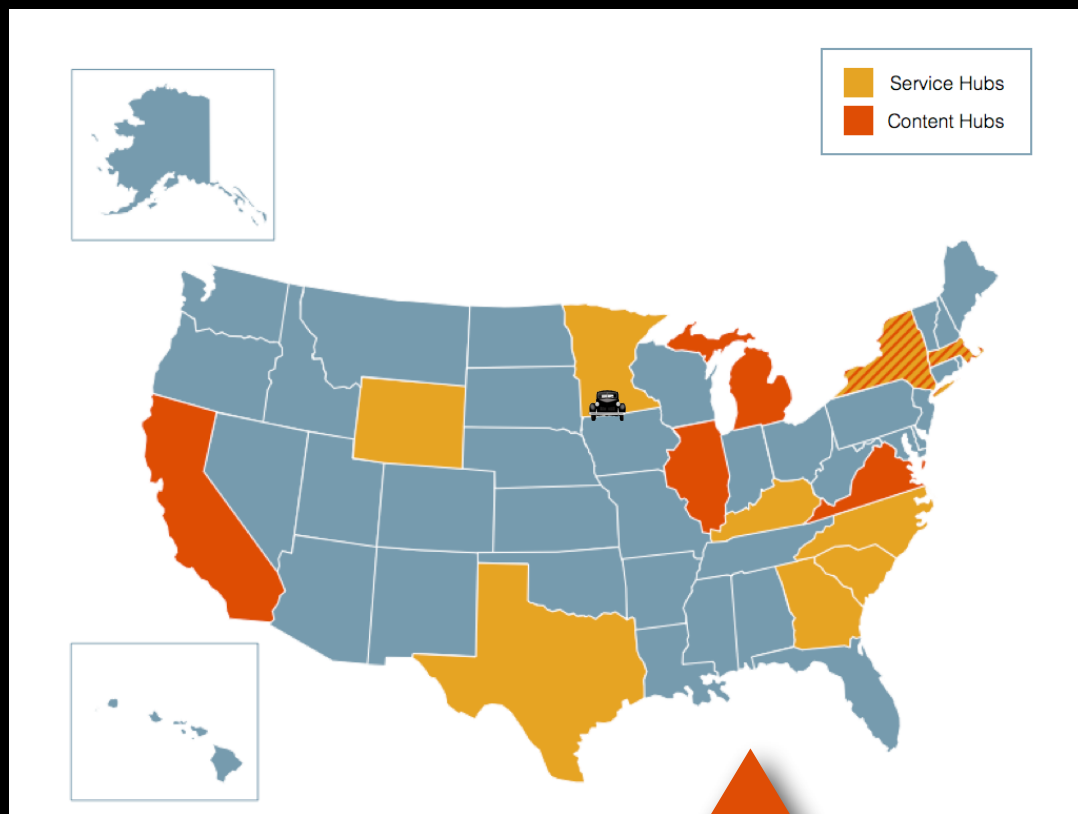
Rudolph Volk and Martin Klein in an old automobile, east of St. Peter, Minnesota

Rudolph Volk and Martin Klein of St. Peter in Mr. Volk's Maxwell automobile. The photograph was taken at Lake Emily, east of St. Peter.

View Object

IMAGE

Shipler Commercial Photographers, Shipler, Harry



MINNESOTA DIGITAL LIBRARY
minnesota reflections

Home Browse Nicollet County Historical Society User Guides Newspapers Favorites ? Help

Search Search Advanced Search

Home > Nicollet County Historical Society > Rudolph Volk and Martin Klein in an old automobile, east of St. Peter, Minnesota

Reference URL Share Add tags Comment Save to favorites

Rudolph Volk and Martin Klein in an old automobile, east of St. Peter, Minnesota

View Description

Download Print

Contributing Institution

University of Southern California. Libraries	6
Utah State Historical Society	2
University of Utah - J. Willard Marriott Library	2
Georgia. Dept. of Archives and History	2
David Rumsey	2

More »

Partner

University of Southern California. Libraries	7
Mountain West Digital Library	4
Minnesota Digital Library	3
Digital Library of Georgia	3
David Rumsey	2

More »

By Date

From Month Day Year

To Month Day Year

By Language

English	1
---------	---

By Location

Los Angeles	5
USA	4
California	4
Sunset Boulevard	3

View Object

IMAGE

Richard Heath of Boston on 2 cyl. 1904 Maxwell
Griffin, Arthur, 1903-

Title from item or materials accompanying item.. Date supplied by cataloger.

View Object

IMAGE

Maxwell Auto Company, Auto at City and County Building; Shipler #02382
Shipler Commercial Photographers; Shipler, Harry

Image shows two men riding in a classic automobile in front of the City and County Building.. Good condition.

View Object

["IMAGE", "TEXT"]

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Photograph of man with old automobile, holding brake drum and pointing to the brake drum on the automobile, Southern California, 1932. "Subject: Old Maxwell brake drum comparison; Agency: Steedle & Roberts; Client: True Drum Brake Shop; Original Print Ordre: 2; Size: 8x10; Finish: gl[ossy]; Year: 1932; Job: 3-15-85"--on envelope front. "Operator's Report (Name): Joe; 1-8x10; Amount: 3.00; Extra Charges: Roberts"--on envelope back.

View Object

IMAGE

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Near Dublin, ca. 1914. Haywood Leland Moore, at about age one and a half, sitting behind the wheel of a Maxwell automobile.

View Object

IMAGE

Rudolph Volk and Martin Klein in an old automobile, east of St. Peter, Minnesota

Rudolph Volk and Martin Klein of St. Peter in Mr. Volk's Maxwell automobile. The photograph was taken at Lake Emily, east of St. Peter.

View Object

IMAGE

Stan Tolson, Federal Bureau of Investigation, 1928

Stan Tolson, Federal Bureau of Investigation, 1928

A **PLATFORM** TO BUILD UPON



View:   

For Developers

[API](#)[Bulk Download](#)[Fall 2012 DPLA Appfest](#)[Metadata Application Profile](#)[Sample Code and Libraries](#)[Summer 2011 Beta Sprint](#)

Bulk Download

All DPLA data in the DPLA repository is available for download as zipped json files. These include the standard DPLA fields, as well as the complete record received from the partner.

Complete Repository

[Download the complete repository](#)

Data from Individual Partners

[ARTstor](#)
[Biodiversity Heritage Library](#)
[David Rumsey Historical Map Collection](#)
[Digital Commonwealth](#)
[Digital Library of Georgia](#)
[Harvard Library](#)
[HathiTrust](#)
[Internet Archive](#)
[Kentucky Digital Library](#)
[Minnesota Digital Library](#)
[Mountain West Digital Library](#)
[National Archives and Records Administration](#)
[New York Public Library](#)
[Smithsonian Institution](#)
[South Carolina Digital Library](#)
[University of Illinois at Urbana-Champaign](#)
[University of Southern California. Libraries](#)
[University of Virginia Library](#)

THE **API**: ACCESS TO
MILLIONS OF ITEMS,
FOR ANY PURPOSE

ENHANCED & INTEROPERABLE **DATA**

By Format

image x

Owning Institution

David Rumsey27

University of Utah - J. Willard Marriott Library14

Idaho State Historical Society4

Utah State University - Merrill-Cazier Library1

Utah State Historical Society1

More »

Partner

David Rumsey27

Mountain West Digital Library21

The Portal to Texas History1

By Date

After Jan 1, 1860 xBefore Dec 31, 1900 x

From

January11860

To

December311900


Update

IMAGE

City Brewery

Broudecker Brewery, located at 606 W. Main Street.

View Object




IMAGE

Dallas Brewery Storage House

Dallas Brewery Storage in Henrietta, TX, Dick Percifield, agent.. 1 photographic print : b&w ; 3 1/2 x 5 in.

View Object




IMAGE

Brewery Gulch. Bisbee, Arizona

Unknown

Brewery Gulch is one of the major streets in Bisbee, and this image shows a number of retail and dining establishments including Blue Store Clothing; The Old Kentucky Home Saloon; Megdigovich & Nobile General Merchandise; and The Calumet saloon.

View Object




IMAGE

Bavaria Brewery P.1; No. 5886

Southeast corner of Broadway and Main (Judge Building), 1872. Nicholas G. Morgan, donor.


View Object



IMAGE

Winery and brewery owned by John Newman Barker in Willard

Compton's Studio



METADATA UNDER THE **HOOD**

WHAT **METADATA** DO WE GET?

Dublin Core

MODS

MARC XML

Local application profiles

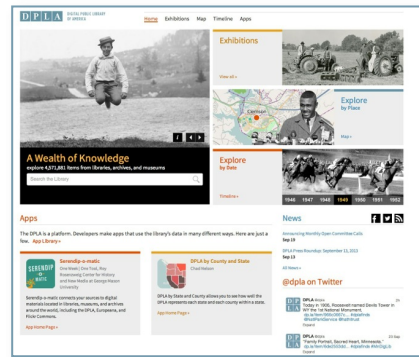
HOW DO WE **GET IT**?

OAI-PMH

API

Bulk downloads

Other



DPLA data store

metadata in

JSON-LD out



Platform: JSON-LD, Ruby, Elasticsearch,
CouchDB

Portal: RoR, Omeka, WordPress...

Data Model: DPLA Metadata Application
Profile, version 3

Everything is open source (AGPLv3)

more here: <http://goo.gl/GwAmQ>
and: <https://github.com/dpla>

DPLA **MAP**v3

<http://dp.la/about/map/>

Based on Europeana Data Model

Well documented (see above)

Uses familiar standards (Dublin Core Elements, DCTerms, etc.)

DPLA Partners Crosswalk

<http://bit.ly/1bV2ZPC>

DPLA metadata application profile			Unqualified Dublin Core				
Class	Label	Property	ArtStor	BHL	DC	DLG	KDL
dpla:SourceResource	Collection	dcterms:isPartOf	n/a	n/a	[see dc:contributor below]	[see dc:contributor below]	n/a
dpla:SourceResource	Contributor	dc:contributor	[suppress]	n/a	n/a	n/a	n/a
dpla:SourceResource	Creator	dc:creator	dc:creator	dc:creator	dc:creator	dc:creator	dc:creator
dpla:SourceResource	Date	dc:date	dc:date	dc:date	dc:date	dc:coverage (ignore dc:date)	dc:coverage
dpla:SourceResource	Description	dc:description	dc:description	n/a	dc:description	dc:source; dc:description	dc:description
dpla:SourceResource	Extent	dcterms:extent	n/a	n/a		n/a	n/a
dpla:SourceResource	Format	dc:format	dc:format; dc:type	dc:type	dc:format	dc:format	dc:format
dpla:SourceResource	Identifier	dc:identifier	header_dc:identifier	n/a	dc:identifier	n/a	n/a
dpla:SourceResource	Language	dc:language	n/a	dc:language	dc:language	dc:language	dc:language
dpla:SourceResource	Place	dcterms:spatial	n/a	n/a	dc:coverage	dc:coverage (date data is also located in this field)	dc:coverage
dpla:SourceResource	Publisher	dc:publisher	n/a	dc:publisher	[suppress]	n/a	n/a
dpla:SourceResource	Relation	dc:relation	n/a	n/a	dc:relation	n/a	n/a
dpla:SourceResource	Rights	dc:rights	dc:rights	n/a	dc:rights	dc:rights	dc:rights
dpla:SpecType	Specific Type Indicator	dc:format	n/a	n/a	n/a	pull "books" value from [waiting to hear from JL]	n/a
dpla:SourceResource	State Located In	edm:currentLocation	n/a	n/a	"Massachusetts"	[can infer from dc:publisher]	n/a
dpla:SourceResource	Subject	dc:subject	dc:subject (all values in a single instance; shred on semi-colons)	dc:subject	dc:subject (all values in a single instance; shred on semi-colons)	dc:subject	n/a
dpla:SourceResource	Temporal Coverage	dcterms:temporal	n/a	n/a	n/a	n/a	n/a
dpla:SourceResource	Title	dc:title	dc:title	dc:title	dc:title	dc:title	dc:title

DPLA **API**

<http://dp.la/info/developers/codex/>

Obtaining an API key

Simple requests

Advanced requests

Response structure

Sample clients and apps

DPLA API: **OBTAIN AN API KEY**

Info: <http://dp.la/info/developers/codex/policies/>

```
curl -XPOST http://api.dp.la/v2/api_key/YOUR_EMAIL@example.com
```

DPLA API: **MAKING REQUESTS**

Info: <http://dp.la/info/developers/codex/requests/>

Overview

Simple search (also supports wildcard/boolean)

Fetching a single item

Advanced requests

DPLA API: **REQUESTS OVERVIEW**

Base URI: `http://api.dp.la/v2`

All requests are about **items** or **collections**

All requests must contain an **api_key** parameter

DPLA API: **SIMPLE SEARCH**

Uses the q parameter

Supports Boolean operators (**AND**, **OR**)

Supports wildcard (*)

Example searches:

http://api.dp.la/v2/items?q=kittens&api_key=NNN

http://api.dp.la/v2/items?q=kitten*+AND+puppies&api_key=NNN

http://api.dp.la/v2/collections?q=philadelphia&api_key=YYY

DPLA API: **PAGINATION**

Default page size is 10 resources

Specify size of result set ("**page_size**" parameter)

Get other pages of results ("**page**" parameter)

Example searches:

http://api.dp.la/v2/items?q=kittens&page_size=25&api_key=NNN

http://api.dp.la/v2/items?q=puppy&page=2&api_key=NNN

DPLA API: **FETCHING SINGLE ITEMS**

Just pass the item's ID as part of request URI

Example:

http://api.dp.la/v2/items/b2920343b994f98840055c81e8b840bb&api_key=AA

DPLA API: **ADVANCED REQUESTS**

Searching within specific fields

Temporal and spatial searching

Searching within specific collections

Sorting and faceting

Fetching only certain fields

Info: <http://dp.la/info/developers/codex/requests/>

DPLA API: RESPONSE STRUCTURE

<http://dp.la/info/developers/codex/responses/object-structure/>

Data returned as JSON/JSON-LD: <http://json-ld.org/>
Five top-level properties:

```
{  
  "facets": [ ... ],    shared field values for groups of items  
  "docs": [ ... ],      contains matching JSON-LD items  
  "limit": 5,            size of returned result set  
  "start": 0,            index of first result in result set  
  "count": 1             total number of matching items  
}
```

DPLA API: JSON-LD Structure

<http://dp.la/info/developers/codex/responses/object-structure/>

Full example: <https://gist.github.com/8589024>

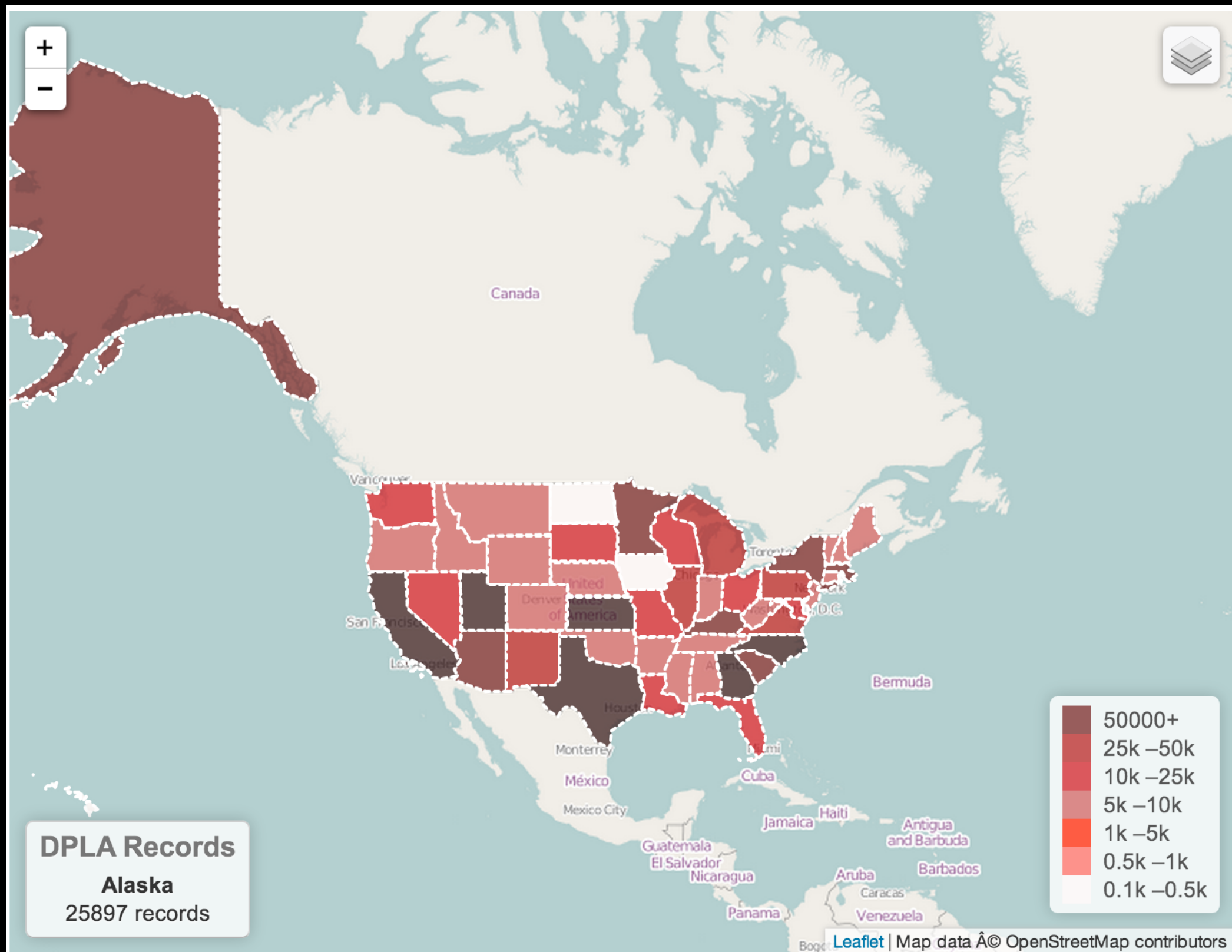
```
"docs": [{
  "id": "4717ec6bee8c23840e8fcbea9cf7d5e8",
  "@id": "http://dp.la/api/items/4717ec6bee8c23840e8fcbea9cf7d5e8",
  "ingestType": "item",
  "@context": { ... },
  "provider": {
    "name": "The Portal to Texas History",
    "@id": "http://dp.la/api/contributor/the_portal_to_texas_history"
  },
  "_id": "texas--info:ark/67531/metapth245858",
  "dataProvider": [ "Gillespie County Historical Society" ],
  "sourceResource": { ... },
  "object": "http://texashistory.unt.edu/ark:/67531/metapth245858/
thumbnail/",
  "ingestDate": "2014-01-21T13:47:22.853816",
  "originalRecord": { ... },
  "ingestionSequence": 4,
  "isShownAt": "http://texashistory.unt.edu/ark:/67531/metapth245858/"
}]
```


DPLA API: **SAMPLE CLIENTS & APPS**

Client libraries for Python, Ruby, PHP, Java, Node.js:

<http://dp.la/info/developers/sample-code-and-libraries/>

DPLA App Library: <http://dp.la/apps>



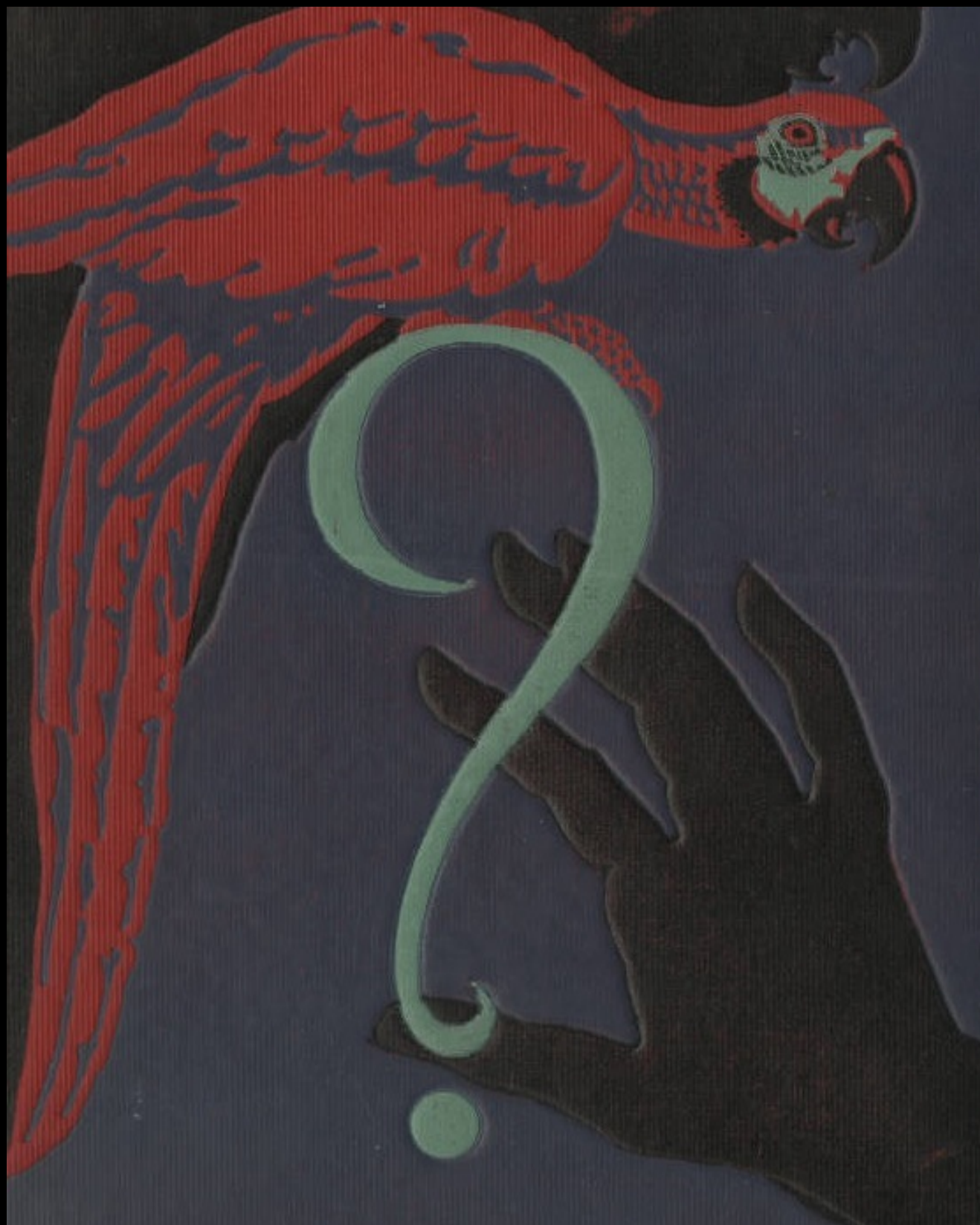
<http://bibliotechy.github.io/dpla/>



**More than 41 million possibilities, 4 APIs,
one web app.**

OpenPics





Detail from "The Scarlet Macaw [binding]," 1923. University of North Carolina at Greensboro, University Library. North Carolina Digital Heritage Center

HACKATHON **IDEAS**

Visualizations of the DPLA data set

Twitter bot: responds to mentions with DPLA links

Data analysis: compare subjects against LCSH?

THANK YOU!