



NATIONAL ENDOWMENT FOR THE
Humanities



**LIBRARY OF
CONGRESS**

Bulking Up: How Accepted Standards and Evolving Technology Advance Research in Chronicling America

2014 IFLA International Newspapers Conference
Salt Lake City, Utah, USA

Nathan Yarasavage, Deborah Thomas &
Georgia Higley
Library of Congress



Chronicling America: Historic American Newspapers

<http://chroniclingamerica.loc.gov/>

The screenshot shows the Chronicling America website interface. At the top, there is a navigation bar with the Library of Congress logo and links for "ASK A LIBRARIAN", "DIGITAL COLLECTIONS", and "LIBRARY CATALOGS". A search bar is located on the right with the text "Search Loc.gov" and a "GO" button. Below this, a breadcrumb trail reads "The Library of Congress > Chronicling America".

The main content area features the National Endowment for the Humanities logo and the text "CHRONICLING AMERICA Historic American Newspapers". A search bar is present with filters for "All states", "from 1836", "to 1922", and a search input field with a "GO" button. A "US Newspaper Directory, 1690-Present" button is also visible.

Below the search bar, there are links for "Print", "Subscribe", "Share/Save", and "Give Feedback". A section titled "100 Years Ago Today: Saturday, October 25, 1913 (54 issues)" displays three newspaper thumbnails:

- The Logan Republican.** (8pp.) Logan, Utah
- The Salt Lake Tribune.** (20pp.) Salt Lake City, Utah
- The Donaldsonville chief.** (4pp.) Donaldsonville, La.

On the left side, there is a sidebar with a "Search Pages" tab and a "More Resources" section containing links to "National Digital Newspaper Program", "NDNP Award Recipients", "Newspaper and Current Periodicals Reading Room", "Ask LC Newspaper & Current Periodicals Librarian", and "Historic Newspapers on Flickr®".

At the bottom, there is a "Connect with the Library" section with social media icons for Facebook, Twitter, YouTube, and RSS. Other sections include "Subscribe & Comment" (RSS & E-Mail, Blog), "Download & Play" (Podcasts, Webcasts, iTunesU), and "Questions" (Ask a Librarian, Contact Us).



**CHRONICLING AMERICA**
Historic American Newspapers

Search America's historic newspaper pages from 1836-1922 or use the U.S. Newspaper Directory to find information about American newspapers published between 1690-present. Chronicling America is sponsored jointly by the [National Endowment for the Humanities](#) and the Library of Congress. [Learn more](#) »

Search Pages

Advanced Search

All Digitized Newspapers 1836-1922

US Newspaper Directory, 1690-Present

close X

Select State(s):

- All states
- Alabama
- Arizona
- California
- Colorado
- District of Columbia
- Florida
- Georgia

Or Select Newspaper(s):

- All newspapers
- Abbeville progress. (Abbeville, Vermilion Parish, La.)
- Aberdeen herald. (Aberdeen, Chehalis County, W.T.)
- The Abilene reflector. (Abilene, Kan.)
- Abilene weekly reflector. (Abilene, Kan.)
- The Abingdon Virginian. (Abingdon [Va.])
- The Adair County news. (Columbia, Ky.)
- Adams County news. (Ritzville, Wash.)

Select Year(s)*

Newspaper pages are available for newspapers published between **1836-1922***

 from to

Or Date Range

 from to Limit Search: only front page or Specific pageLanguage

Enter Search

...with **any** of the words:...with **all** of the words:...with the **phrase**:

...with the words:

 within words of each other

Clear

Search





CHRONICLING AMERICA Historic American Newspapers

Search America's historic newspaper pages from 1836-1922 or use the U.S. Newspaper Directory to find information about American newspapers published between 1690-present. Chronicling America is sponsored jointly by the [National Endowment for the Humanities](#) and the Library of Congress. [Learn more](#) »

+ from

to

+

Pages Available: 6,691,983



Browse Issues: The Salt Lake tribune.

Salt Lake City, Utah (1890-current)

[Browse Issues](#) | [About](#) | [Libraries that Have It](#) | [MARC Record](#)

 Issues for:
[Show all front pages](#)

 Single edition:
dates in **bold**.

 Multiple editions:
dates in ***bold italics***.

January, 1904

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

February, 1904

S	M	T	W	T	F	S
		1	2	3	4	5
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

March, 1904

S	M	T	W	T	F	S
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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

April, 1904

S	M	T	W	T	F	S
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17	18	19	20	21	22	23
24	25	26	27	28	29	30

May, 1904

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15	16	17	18	19	20	21
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29	30	31				

June, 1904

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19	20	21	22	23	24	25
26	27	28	29	30		

July, 1904

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3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

August, 1904

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

September, 1904

S	M	T	W	T	F	S
				1	2	3
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

October, 1904

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9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

November, 1904

S	M	T	W	T	F	S
		1	2	3	4	5
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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

December, 1904

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						





THE CALL



Published by the Call Publishing Co., 1000 Market St., San Francisco, Cal. Telephone 1000. Second-class postage paid at San Francisco, Cal., under special rate of Post Office at San Francisco, Cal., authorized on July 16, 1903. Postmaster: This publication is published daily except on Sundays and public holidays. Subscription price, \$1.00 per month in advance. Single copies, 5 cents. Entered as second-class matter, October 3, 1879. Acceptance for mailing at special rate of postage provided for in Act of October 3, 1917, authorized on July 16, 1903. Postoffice at San Francisco, Cal., authorized on July 16, 1903. Postmaster: This publication is published daily except on Sundays and public holidays. Subscription price, \$1.00 per month in advance. Single copies, 5 cents. Entered as second-class matter, October 3, 1879. Acceptance for mailing at special rate of postage provided for in Act of October 3, 1917, authorized on July 16, 1903. Postoffice at San Francisco, Cal., authorized on July 16, 1903.

RUSSIA'S REPLY TO JAPAN REJECTED BY THE COUNCIL OF THE ELDER STATESMEN



OFFICERS KILL SON AND SIRE

Duel Is Fought in a Room in Los Angeles.

Los Angeles, Dec. 18.—A sensational duel between two officers of the Los Angeles police department, which resulted in the death of the father and son, was fought in a room in the city last night.

Mikado Will Send an Army Into Korea

London, Dec. 18.—The Japanese government has announced that it will send an army into Korea to suppress the recent disturbances.

ANARCHIST CONSPIRACY UNEARTHED

Texas Agitator Plots Against Nation's Noted Men.

San Antonio, Dec. 18.—A conspiracy of anarchists to assassinate prominent Texas citizens has been uncovered by the authorities.

ENLEAGUED REPUBLICS STIR FEAR

Four-Fifths of Navy May Be Sent to Panama.

Washington, Dec. 18.—The possibility of sending four-fifths of the United States Navy to Panama has caused concern among the republics of the Caribbean.

EMBEZZLER McKOWEN STAYS IN PRISON WHILE EXPERTS INVESTIGATE HIS METHODS



CUBAN BILL IS PROLIFIC OF TROUBLE

Other Nations Seek to Profit by the Treaty.

Washington, Dec. 18.—The Cuban bill has caused a stir in the Senate, with several nations seeking to profit from the treaty.

THOUSANDS HAVE KIDNEY TROUBLE AND DON'T KNOW IT



Do you know what kidney trouble is? It is a common ailment that affects thousands of people without them knowing it.

ARMY OF COLOMBIANS IS ENCAMPED NEAR THE PASSES LEADING TO PANAMA

Washington, Dec. 18.—The army of Colombian rebels has been encamped near the passes leading to Panama.

SENATORS IN BITTER COLLOQUY

Deal Calls Up His Recollections

Washington, Dec. 18.—A bitter colloquy took place between senators during a debate on the Cuban bill.

CUSTOM-HOUSE BIDS OPENED

Proposed for Keeping of a Local General Building

San Francisco, Dec. 18.—Bids for the construction of a custom-house building have been opened.

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SENATOR HOAR'S LONG MEMORY

1876 State Public Details of Addressed With the Reproduction of the Various

Senator Hoar's long memory is a remarkable feat, as evidenced by his detailed recollection of events from 1876.


FRILLY LANDS FOR FILIPINOS















Proposed Five Tracts From the People of This Territory the Division of East of Manila


The proposed five tracts of land for Filipinos in the Philippines have been met with interest and some opposition.

Cottolene
Is Upheld By All Good Cooks



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UNIVERSITY of HAWAII
MĀNOA

Primo Beer Ads

UH Manoa Library

24
Photos

4
Views



You
Intro-
duc

It can be longer delayed. Drink Primo Lager and you will enjoy the best of health all the year round.

View all sets

Photos



Your Introduction

Should not be longer delayed. Drink Primo Lager and you will enjoy the best of health all the year round.

A Tonic! A Food!
and a mild stimulant.
That's what
Primo Beer
is. An absolutely pure, hygienic and nutritious extract of MALT and HOPS uncontaminated.
It is the FAMILY BEER and should be in every home.
See that a case is ordered today

Primo
The Beer That's Brewed to Satisfy The Climate

PRIMO PALE

Is as scientifically brewed as any beer in the world

Your loyalty must be back of it

HAROLD HARRIS
Brewer of Primo Pale

Every Doctor Knows how Beer benefits. If you need more strength or vitality, he will prescribe it.

For run-down, nervous people, there is no better tonic and nutrient than a glass of good PRIMO BEER with meals.

For well people, nothing is so conducive to continued good health.

Primo Beer

Let me Introduce You to a glass of the finest beer on earth.

If you don't "KNOW" Primo Beer, you have missed a great deal.

But things like indigestion, insomnia and loss of appetite haven't missed YOU. Oh, no!

A Bottle of Primo Beer is the Best Company at Dinner

BEER

Is the national beverage where vigor and health are the rule and nervousness the rare exception.

Malt is a food, half digested, hops are a tonic. A little alcohol--there is but a trifle in beer--is an aid to digestion.

But insist on a pure beer--a beer that is well aged. You will find this in

PRIMO---the true home beer

Barley and Hops--- a food and a tonic. A trifle of alcohol--an aid to digestion. THAT'S BEER. If you get a pure beer, well aged, nothing is better for you.

It is not good advice to say "Don't drink beer." There are many who need it.

Your doctor advises beer. The healthiest peoples of the world drink the most of it.

But it is good advice to say "Don't drink the wrong beer." Some beer causes biliousness, Primo does not.

Primo is both good and good for you. Nine people in ten would be better for drinking it.

Primo is the home beer, because of its purity. It is properly aged, filtered and sterilized. Keep a case in your home. Be sure it is

WHAT ARE THE WILD WAVES SAYING

Primo Beer

We drink it everywhere PRIMO
We hear it everywhere PRIMO
Sold everywhere PRIMO



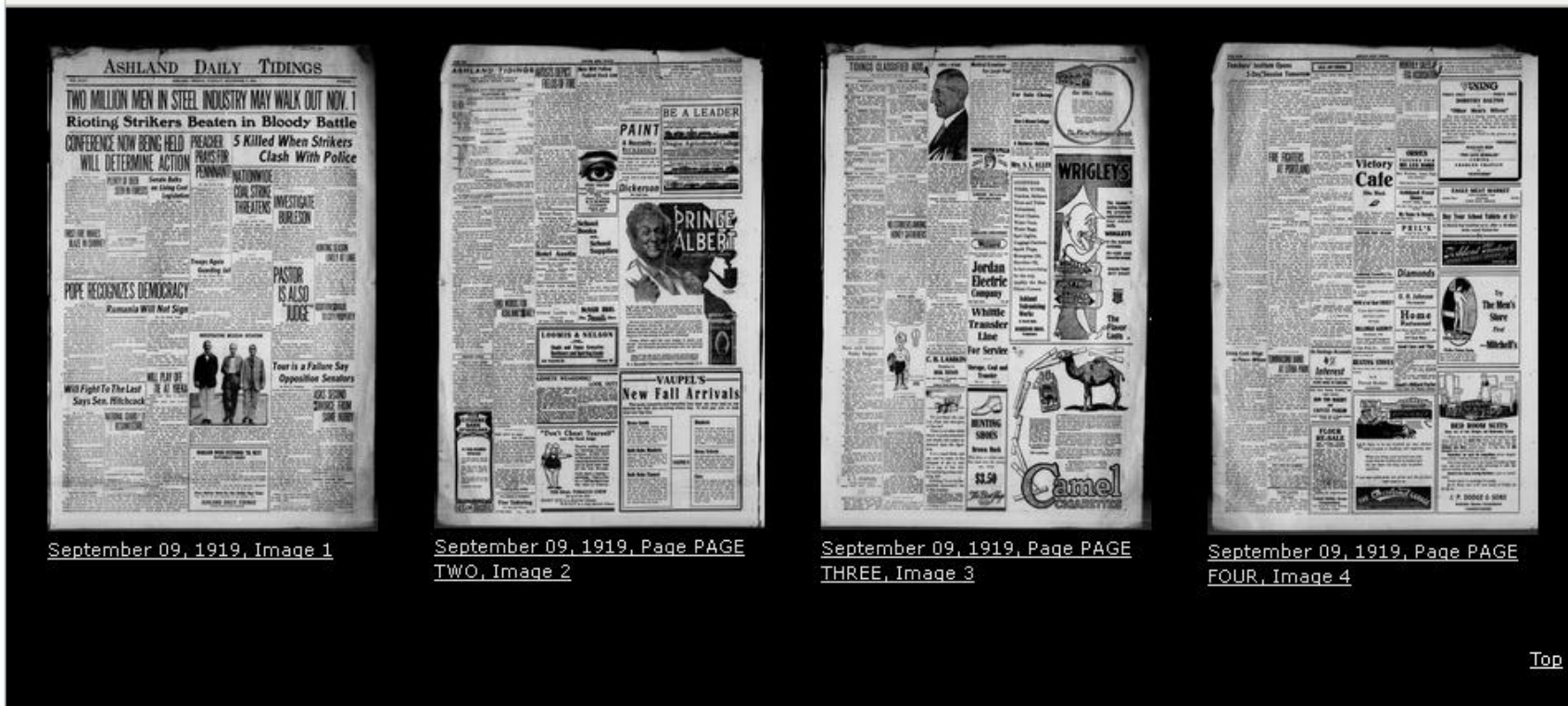


Historic Oregon Newspapers

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 [September 09, 1919](#)

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[September 09, 1919, Image 1](#)

[September 09, 1919, Page PAGE TWO, Image 2](#)

[September 09, 1919, Page PAGE THREE, Image 3](#)

[September 09, 1919, Page PAGE FOUR, Image 4](#)

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[Search Pages](#) [Advanced Search](#) [All Digitized Newspapers 1803-2010](#)

All Cities + All counties + from 1803 to 2010 +

enter one or more search words

Pages Available: 2,368,630

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More resources

- > [New York Heritage](#)
- > [New York Heritage Digitized Newspapers](#)
- > [New York State Newspaper Holdings \(Microfilm\)](#)



100 Years Ago This Week: January 24, 1914 (issues)



[The Adirondack news.](#) (4pp.)
St. Regis Falls, N.Y.



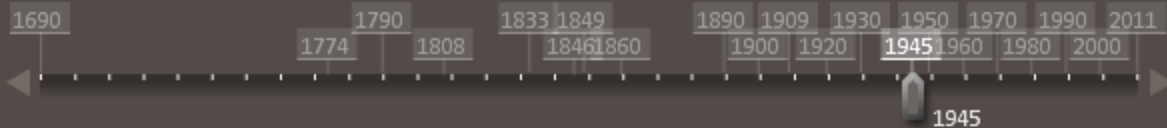
[Watertown re-union.](#) (8pp.)
Watertown, N.Y.



[Plattsburgh daily press.](#) (6pp.)
Plattsburgh, N.Y.



The Growth of Newspapers Across the U.S.: 1690-2011

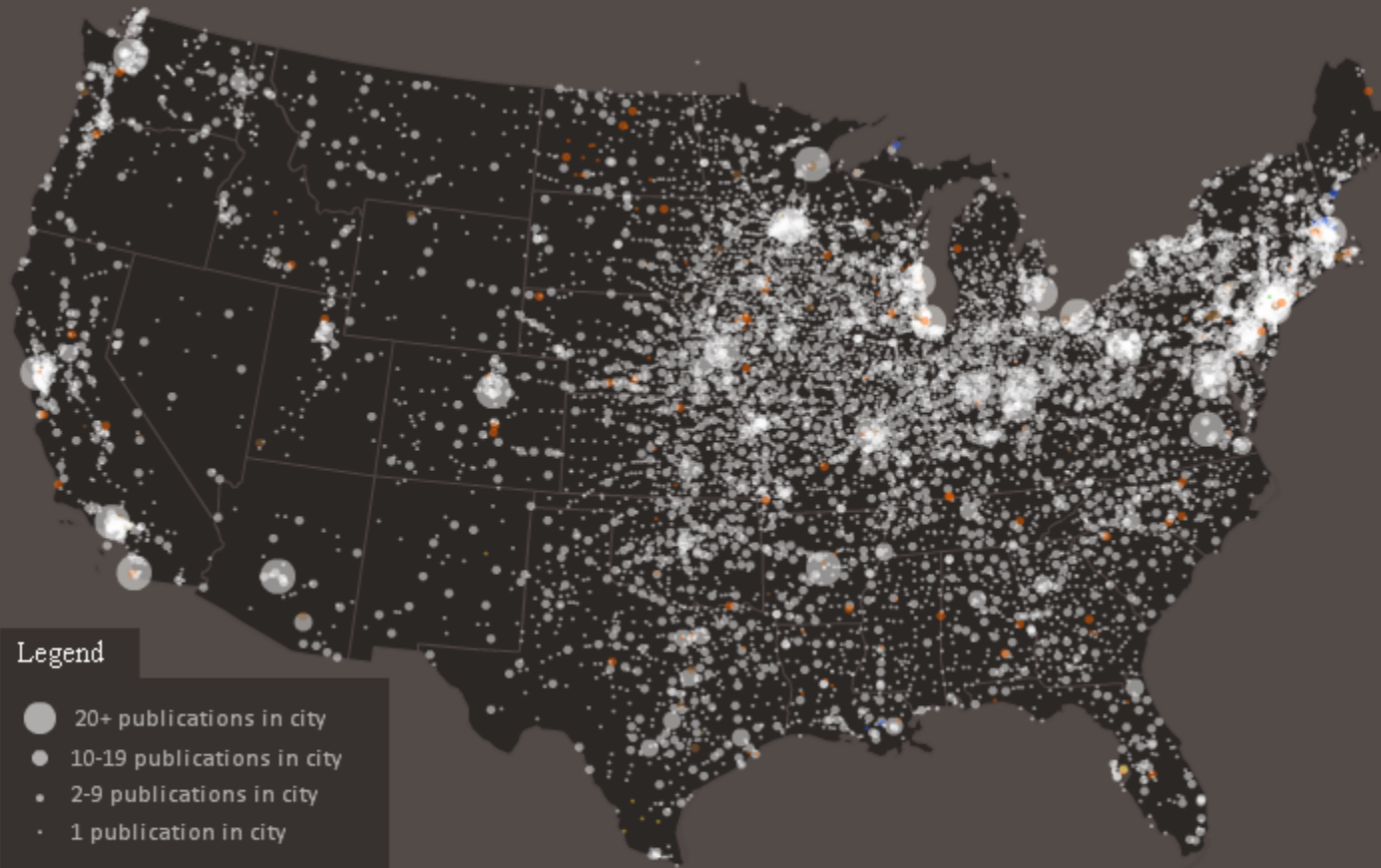


1945 World War II

14083 listings

World War II sapped rural newsrooms of manpower as young men enlisted in droves after the Pearl Harbor attacks in 1941. As in many other industries, women filled the gap in large numbers, and legal protections were passed for newspapers that needed to suspend publication during the War. Newspapers placed new emphasis on maps and information graphics to help explain the complex and far flung battlefields to the public. Back home, the War Relocation Authority permitted Japanese-Americans to publish their own newspapers in detention camps like Manzanar in California and Gila River in Arizona.

« Back: 1930 | Next: 1950 »



Legend

- 20+ publications in city
- 10-19 publications in city
- 2-9 publications in city
- 1 publication in city

▼ Hide details (click listings to open newspaper info in a new window)

Loading Complete

Filter publications...

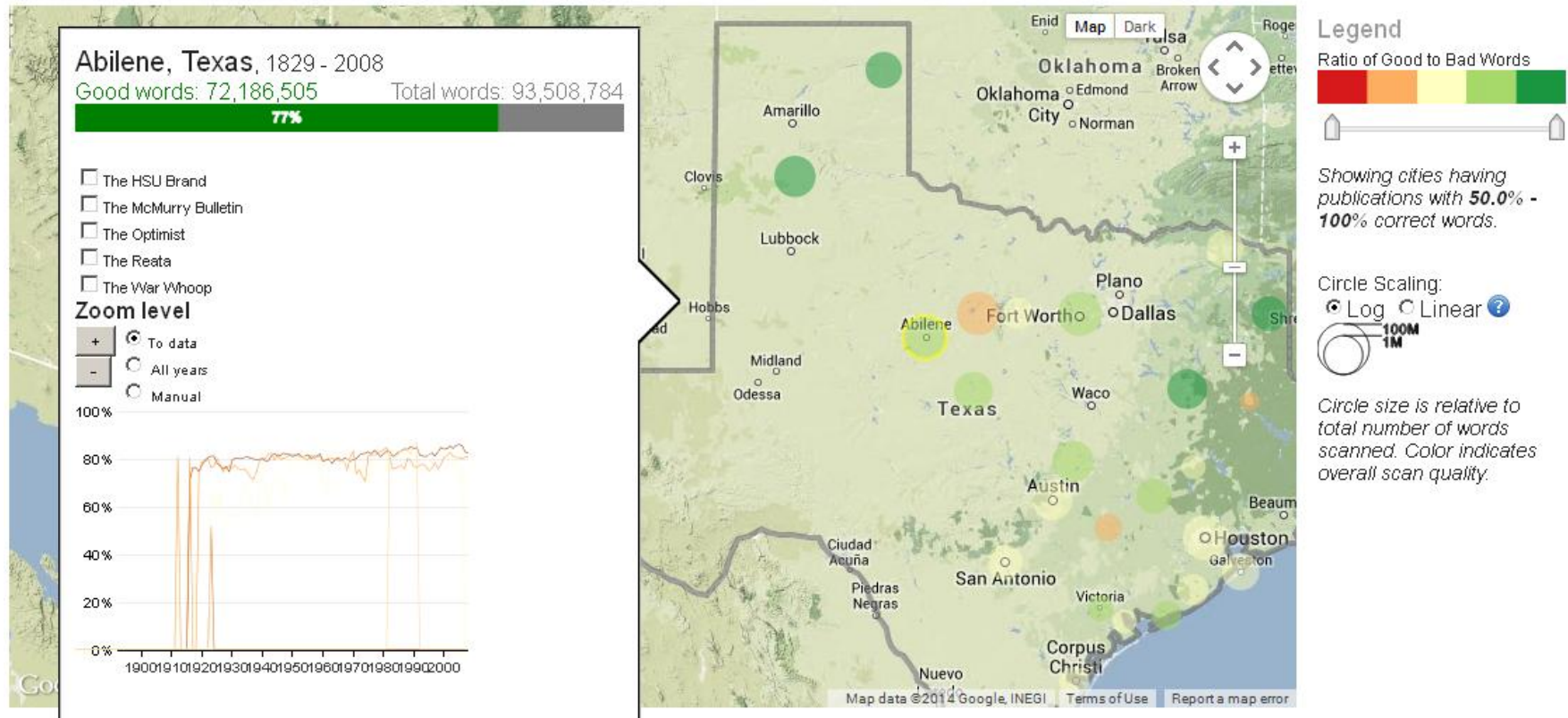
▼ By language

- All Languages
- English
- Spanish
- German
- Chinese
- Swedish
- Italian
- French
- Other

► By publication frequency



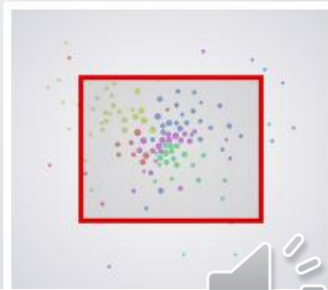
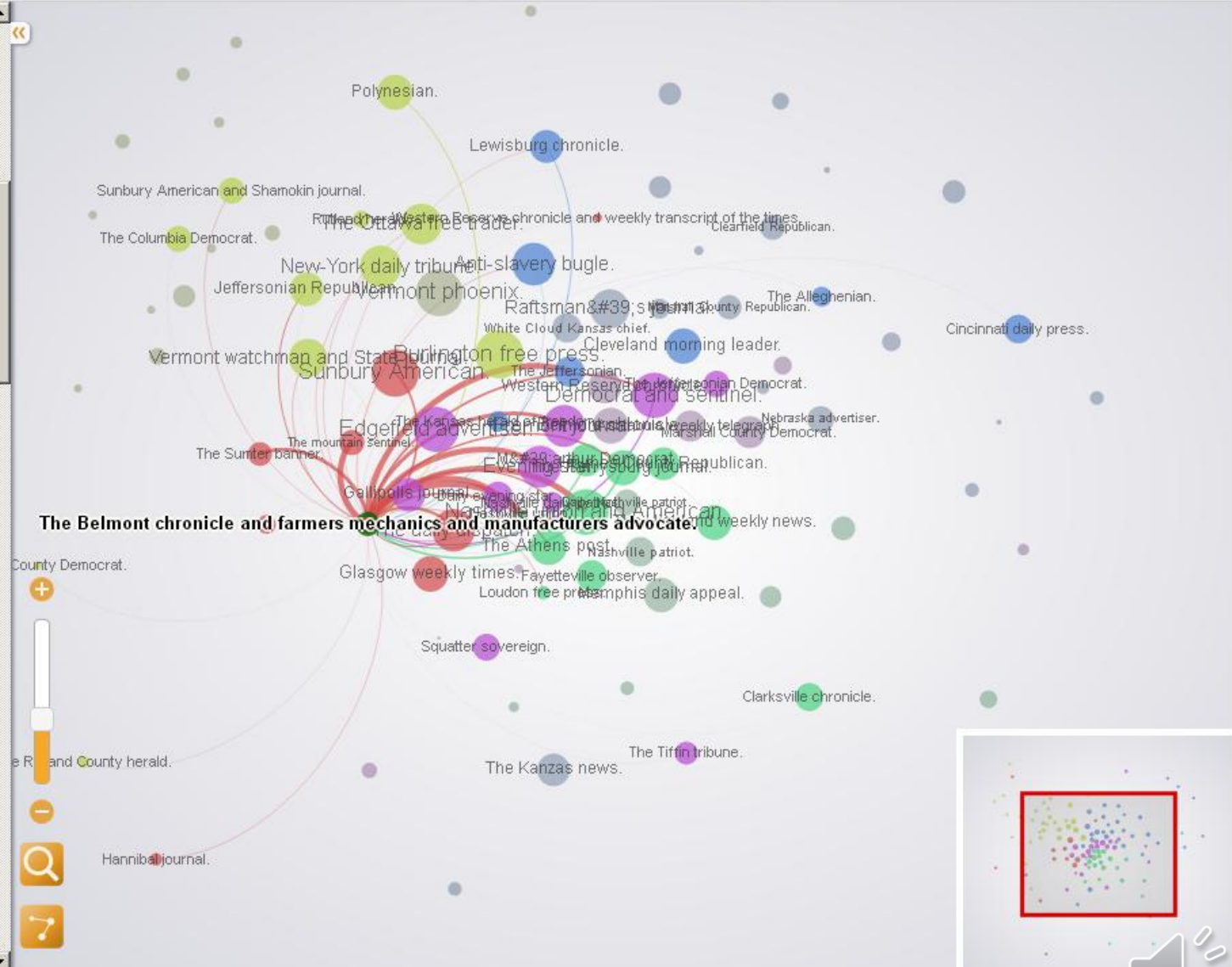






Sunbury American.

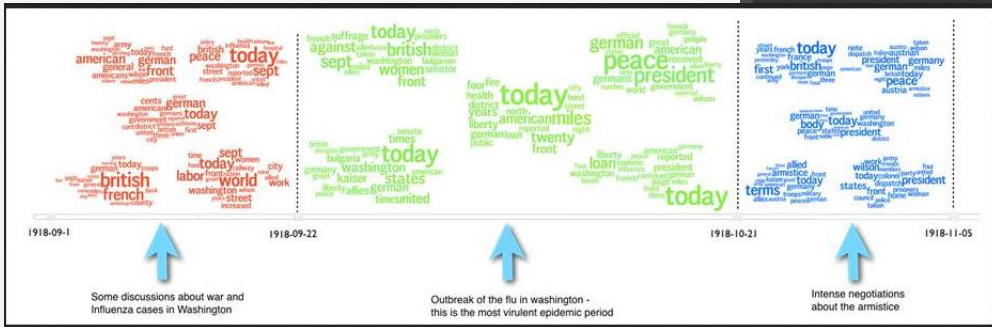
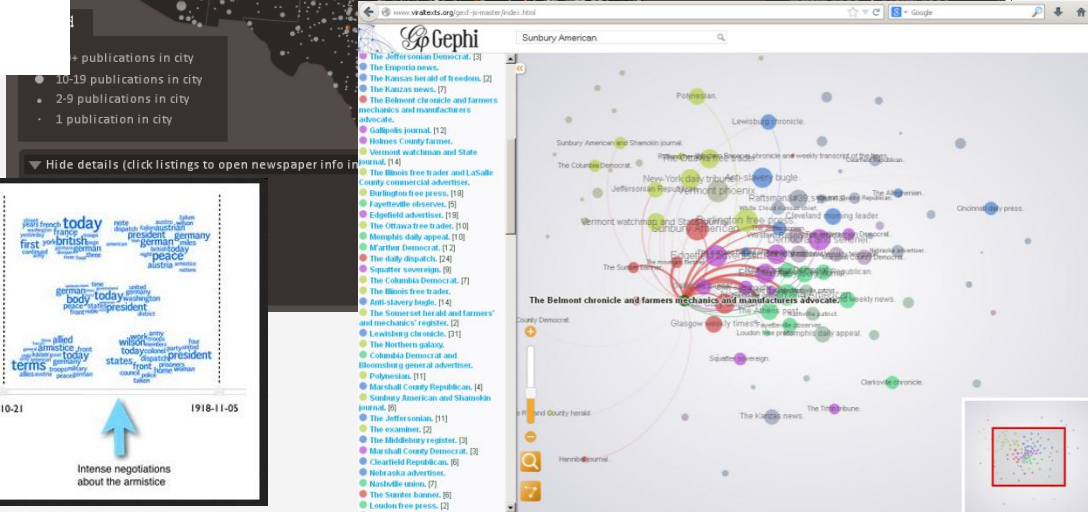
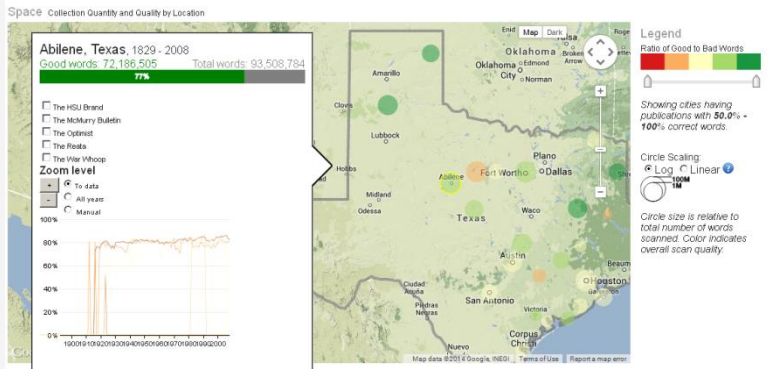
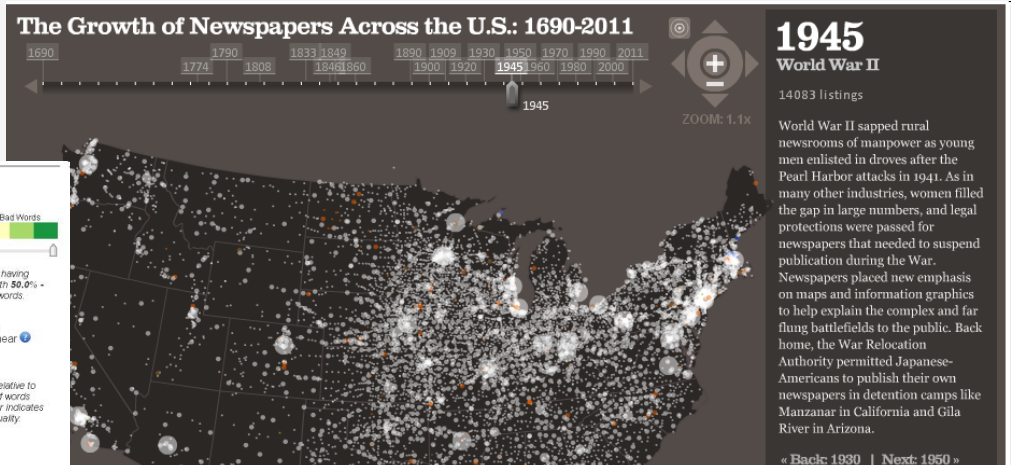
- The Jeffersonian Democrat. [3]
- The Emporia news.
- The Kansas herald of freedom. [2]
- The Kansas news. [7]
- The Belmont chronicle and farmers mechanics and manufacturers advocate.
- Gallipolis journal. [12]
- Holmes County farmer.
- Vermont watchman and State journal. [14]
- The Illinois free trader and LaSalle County commercial advertiser.
- Burlington free press. [18]
- Fayetteville observer. [5]
- Edgefield advertiser. [19]
- The Ottawa free trader. [10]
- Memphis daily appeal. [10]
- M'Arthur Democrat. [12]
- The daily dispatch. [24]
- Squatter sovereign. [9]
- The Columbia Democrat. [7]
- The Illinois free trader.
- Anti-slavery bugle. [14]
- The Somerset herald and farmers' and mechanics' register. [2]
- Lewisburg chronicle. [31]
- The Northern galaxy.
- Columbia Democrat and Bloomsburg general advertiser.
- Polynesian. [11]
- Marshall County Republican. [4]
- Sunbury American and Shamokin journal. [6]
- The Jeffersonian. [11]
- The examiner. [2]
- The Middlebury register. [3]
- Marshall County Democrat. [3]
- Clearfield Republican. [6]
- Nebraska advertiser.
- Nashville union. [7]
- The Sumter banner. [6]
- Loudon free press. [2]



How did we get from this...



... to this?!



National Digital Newspaper Program, 2005-

GOALS:

- To enhance access to historic American newspapers from every state and territory
- To develop best practices for the digitization of historic newspapers (shared community)
- Free and open content, available to all



**LIBRARY OF
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NDNP: Built for Sustainability

- Shared technical specifications
- Institutional cooperation
- Data integrity
- Data management
- Expect change



Shared technical specifications

NDNP Technical Guidelines for Applicants (NDNP Tech Specs)

<http://www.loc.gov/ndnp/guidelines/>

The National Digital Newspaper Program (NDNP) Technical Guidelines for Applicants

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Document Control

Revision	Date	Summary of Change

Overview of Technical Approach for 2013-15 NDNP Awards

The National Digital Newspaper Program is a long-term effort and the technical environment will change as the program continues. The National Endowment for the Humanities (NEH) and the Library of Congress (LC) have selected a technical approach to balance long-term objectives and shorter-term constraints. These include:

- convenient accessibility over the World Wide Web for the general public to the entire collection as it grows, through a consistent interface and using proven technology;
- page images of sufficient spatial and tonal resolution to support effective performance of OCR (optical character recognition) software and representation of printed half-tones, given the limitations of microfilm, expecting that future improvements in OCR and image processing will be applied to the same images;
- the use of digital formats with a high probability of sustainability - in particular, using standard formats where possible and proprietary formats only where widely adopted;
- and attention to the cost of digital conversion and maintenance of the resulting assets.

The goal of the program is to enhance access to newspapers through a Web-accessible NDNP delivery application, open and freely available to the public. This delivery application will provide access to a substantive amount of newspaper content selected for

Shared technical specifications

- Stable guidelines since 2005
- Changes limited to:
 - Clarifications to existing practice
 - Version updates (ALTO 2.0)
 - Expanding content scope
 - Simplifying some metadata requirements
 - Technical metadata from Microfilm collation now **OPTIONAL**
 - Section / Edition Labels now **OPTIONAL**

The National Digital Newspaper Program (NDNP) Technical Guidelines for Applicants

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Document Control

Revision	Date	Summary of Change

Overview of Technical Approach for 2012-14 NDNP Awards

The National Digital Newspaper Program is a long-term effort and the technical environment will change as the program continues. The National Endowment for the Humanities (NEH) and the Library of Congress (LC) have selected a technical approach to balance long-term objectives and shorter-term constraints. These include:

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- page images of sufficient spatial and tonal resolution to support effective performance of OCR (optical character recognition) software and representation of printed half-tones, given the limitations of microfilm, expecting that future improvements in OCR and image processing will be applied to the same images;
- the use of digital formats with a high probability of sustainability - in particular, using standard formats where possible and proprietary formats only where widely adopted;
- and attention to the cost of digital conversion and maintenance of the resulting assets.

The goal of the initial program phase is to enhance access to newspapers through a Web-accessible NDNP delivery application, open and freely available to the public. This delivery application will provide access to a substantive amount of newspaper content selected for its historical value with broad geographic coverage and consistent sustainable



NDNP Data

For every page:

- Archival Image: [TIFF](#)
- Production Image: [JPEG 2000](#)
- Printable Image: [PDF](#)
- OCR XML File: [ALTO](#)

For every issue and reel:

- METS XML File
 - [Descriptive metadata](#)
 - [Structural metadata](#)
 - [Preservation metadata](#)

For newspaper title:

- MARC record
 - [Geographic metadata](#)
 - [Time Period](#)
 - [Subject metadata](#)



<http://www.loc.gov/ndnp/guidelines/>

METS ALTO

- **NDNP ALTO specification requires:**

- Column level text block zoning and
- Coordinates to map or highlight text to image files.

- **Chronicling America supports page level access with visual representation of search results.**



Page Level Access

Search Pages | Advanced Search | All Digitized Newspapers 1836-1922 | US Newspaper Directory, 1690-Present

All states | + from 1836 to 1922 | + enter one or more search words | GO

< Back to search results | < Previous | 102 of 47522 | Next > | Print | Subscribe | Share/Save | Give Feedback

Yellowstone monitor., July 23, 1908, Image 2

About Yellowstone monitor. (Glendive, Mont.) 1905-1928

Image provided by: Montana Historical Society; Helena, MT

Image: 2 of 8. | Page | All Pages | Issues | All Issues | Text | PDF | JP2 (7.6 MB)

al's Return

come news to all
re owners of stan-
to learn that Harry
urchased a 3-year-
blt by Prodigal, first
ed Wilkes. She is
, 2:13, Grace El-
redition, 2:20; sec-
a, by Strathmore.
l by Senator Bailey
xas. The merits of
well known to be
as he was bred and
by the late Marcus
e stands at the head
turned from the east
with two as good

Little Things About **Yellowstone Park.**

John Colter, of the Lewis and Clark expedition, was the first white man to see the **Park**. He visited the land of geysers in 1807.

The act setting apart **Yellowstone Park** was signed March 1, 1872.

The mean dimensions of the **Park** are 62 by 54 miles. The area is 3,348 miles—more than Delaware and Rhode Island taken together.

Altitudes:—Livingston, 4,510 feet; Gardiner, 5,297 feet; Mammoth Spring, 6,387 feet; Golden Gate 7,300 feet; Continental Divide, 8,300 feet; **Yellowstone** Lake, 7,788 feet.

The lava arch at the north entrance was dedicated by President Roosevelt in 1903.

HORSE SALE

Zoom, pan, and clip tools are available

Chronicling America - LC



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Historic American Newspapers

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Search Pages

Advanced Search

All Digitized Newspapers 1836-1922

US Newspaper Directory, 1690-Present

All states

+

from 1836

to

1922

+

enter one or more search words

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Pages Available: 6,691,983

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100 Years Ago Today: Saturday, January 24, 1914 (57 issues)



[Chicago eagle. \(8pp.\)](#)
Chicago, Ill.

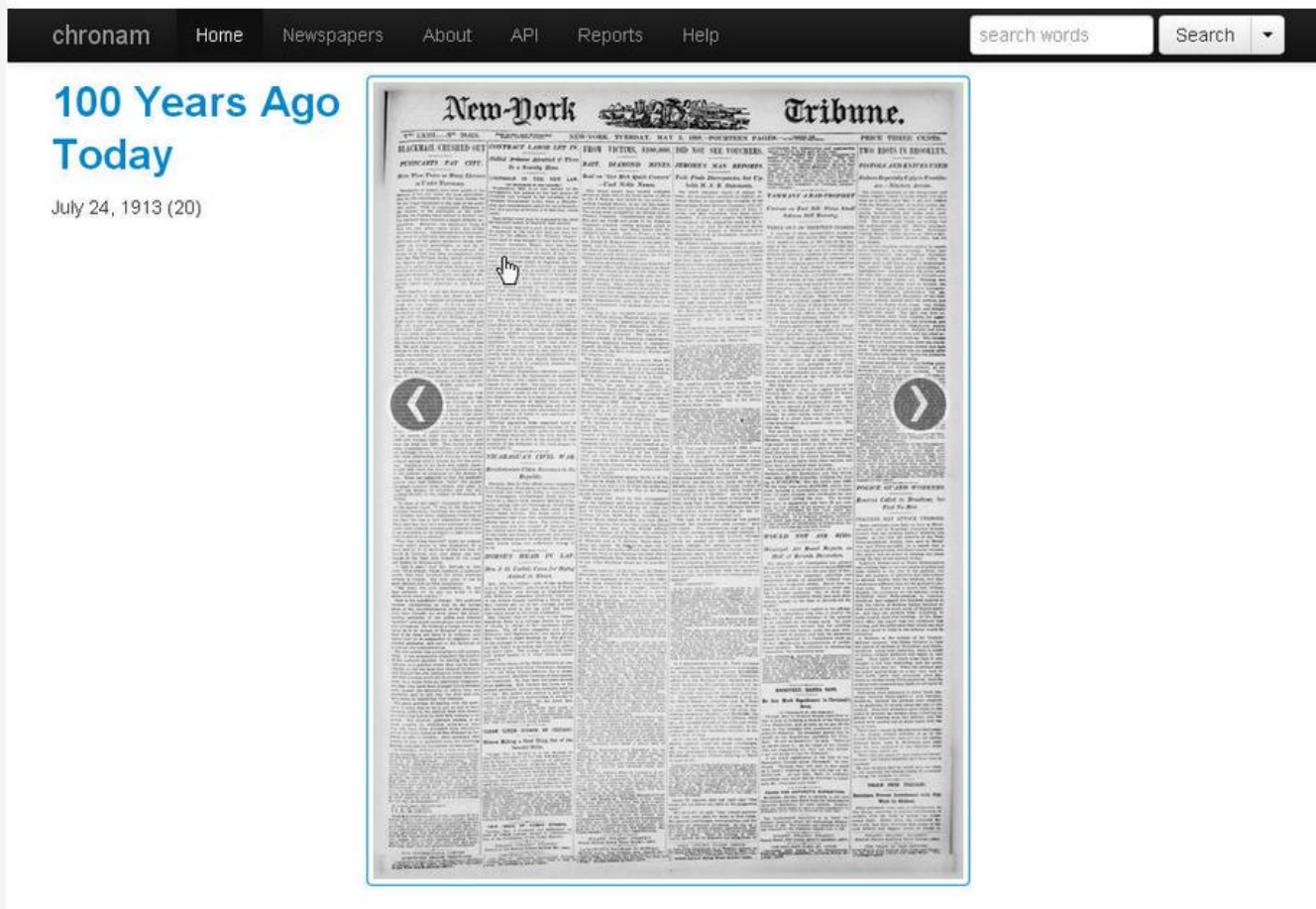


[The day book. \(32pp.\)](#)
Chicago, Ill.



[Bryan daily eagle and pilot. \(4pp.\)](#)
Bryan, Tex.

Chronam: Open Source software



<https://github.com/LibraryofCongress/chronam>

chronam



CHRONICLING AMERICA
Historic American Newspapers

Search America's historic newspaper pages from 1836-1922 or use the U.S. Newspaper Directory to find information about American newspapers published between 1630-present. Chronicling America is sponsored jointly by the National Endowment for the Humanities and the Library of Congress. [Learn more](#)

Search Pages Advanced Search All Digitized Newspapers 1836-1922 US Newspaper Directory, 1690-Present

All states + from 1836 to 1922 + enter one or more search words

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Historic Oregon Newspapers

HOME TITLES SEARCH HISTORY K-12 RESOURCES ABOUT FAQ ACKNOWLEDGEMENTS HELP CONTACT

University of Oregon Libraries > Historic Oregon Newspapers > Home > Ashland daily tidings. > September 09, 1919

Back to Browse All Available Issues | Previous Issue | Next Issue | Show all front pages

September 09, 1919, Image 1

September 09, 1919, Page TWO, Image 2

September 09, 1919, Page THREE, Image 3

September 09, 1919, Page FOUR, Image 4

Back to Browse All Available Issues | Previous Issue | Next Issue | Show all front pages

nys historic newspapers

Home About Contact FAQ

Search Pages Advanced Search All Digitized Newspapers 1803-2010

All Cities + All counties + from 1803 to 2010 + enter one or more search words

Pages Available: 2,369,630

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More resources

- > New York Heritage
- > New York Heritage Digitized Newspapers
- > New York State Newspaper Holdings (Microfilm)

NY3Rs

100 Years Ago This Week: January 24, 1914 (issues)

The Adirondack news. (4pp.)
St. Regis Falls, N.Y.

Watertown re-union. (6pp.)
Watertown, N.Y.

Plattsburgh daily press. (6pp.)
Plattsburgh, N.Y.

<http://nyshistoricnewspapers.org/>

<http://oregonnews.uoregon.edu/>



Chronicling America - API

The screenshot shows the 'About API' page on the Chronicling America website. At the top, there is a navigation bar with the Library of Congress logo, buttons for 'ASK A LIBRARIAN', 'DIGITAL COLLECTIONS', and 'LIBRARY CATALOGS', and a search box containing 'Search Loc.gov'. Below the navigation bar, a breadcrumb trail reads 'The Library of Congress > Chronicling America > About API'. The main content area features the National Endowment for the Humanities logo and the title 'CHRONICLING AMERICA Historic American Newspapers'. A search box is present, and a description states: 'Search America's historic newspaper pages from 1836-1922 or use the U.S. Newspaper Directory to find information about American newspapers published between 1690-present. Chronicling America is sponsored jointly by the National Endowment for the Humanities and the Library of Congress. [Learn more](#)'. Below this, there are links for 'Print', 'Subscribe', 'Share/Save', and 'Give Feedback'. The page title is 'About the Site and API'. The main text is titled 'Introduction' and explains that Chronicling America provides access to information about historic newspapers and select digitized newspaper pages. It encourages a wide range of potential uses and describes the API. A section titled 'The API' lists several features: Search, Auto Suggest, Link, JSON, Linked Data, Bulk Data, and CORS and JSONP support. On the left side, there is a sidebar with a 'More Resources' section containing links to 'National Digital Newspaper Program', 'NDNP Award Recipients', 'Newspaper and Current Periodicals Reading Room', 'Ask LC Newspaper & Current Periodicals Librarian', and 'Historic Newspapers on Flickr'. Above the sidebar, there is a section for 'About Chronicling America', 'About the Site and API', 'Recommended Topics', and 'Help'. A small image of a newspaper page is also visible.

LIBRARY OF CONGRESS

ASK A LIBRARIAN DIGITAL COLLECTIONS LIBRARY CATALOGS

Search Search Loc.gov GO

The Library of Congress > Chronicling America > About API

NATIONAL ENDOWMENT FOR THE Humanities

CHRONICLING AMERICA
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About the Site and API

Introduction

Chronicling America provides access to information about historic newspapers and select digitized newspaper pages. To encourage a wide range of potential uses, we designed several different views of the data we provide, all of which are publicly visible. Each uses common Web protocols, and access is not restricted in any way. You do not need to apply for a special key to use them. Together they make up an extensive application programming interface (API) which you can use to explore all of our data in many ways.

Details about these interfaces are below. In case you want to dive right in, though, we use HTML link conventions to advertise the availability of these views. If you are a software developer or researcher or anyone else who might be interested in programmatic access to the data in Chronicling America, we encourage you to look around the site, "view source" often, and follow where the different links take you to get started. When describing Chronicling America as the source of content, please use the URL and a Web site citation, such as "from the Library of Congress, Chronicling America: Historic American Newspapers site".

For more information about the open source Chronicling America software please see the [LibraryOfCongress/chronam](#) GitHub site. Also, please consider subscribing to the [ChronAm-Users](#) discussion list if you want to discuss how to use or extend the software or data from its APIs.

The API

Jump to:

- [Search](#) the newspaper directory and digitized page contents using OpenSearch.
- [Auto Suggest](#) API for looking up newspaper titles
- [Link](#) using our stable URL pattern for Chronicling America resources.
- [JSON](#) views of Chronicling America resources.
- [Linked Data](#) views of Chronicling American resources.
- [Bulk Data](#) for research and external services.
- [CORS and JSONP](#) support for your JavaScript applications.

More Resources

- > [National Digital Newspaper Program](#)
- > [NDNP Award Recipients](#)
- > [Newspaper and Current Periodicals Reading Room](#)
- > [Ask LC Newspaper & Current Periodicals Librarian](#)
- > [Historic Newspapers on Flickr](#)
(part of the LC Flickr Commons photostream)

<http://chroniclingamerica.loc.gov/about/api/>

Chronicling America – Bulk Data: OCR Downloads for External Services

OCR Data

What is OCR?

Optical character recognition (OCR) is a fully automated process that converts the visual image of numbers and letters into computer-readable numbers and letters. Computer software can then search the OCR-generated text for words, phrases, numbers, or other characters. However, OCR is not 100 percent accurate, and, particularly if the original item has extraneous markings on the page, unusual text styles, or very small fonts, the searchable text OCR generates will contain errors that cannot be corrected by automated means.

Although errors in the process are unavoidable, OCR is still a powerful tool for making text-based items accessible to searching. For example, important concept words often appear more than once within an article. Therefore, if OCR misreads one instance of a key word in a passage, but correctly reads the second instance, the passage will still be found in a full-text search.

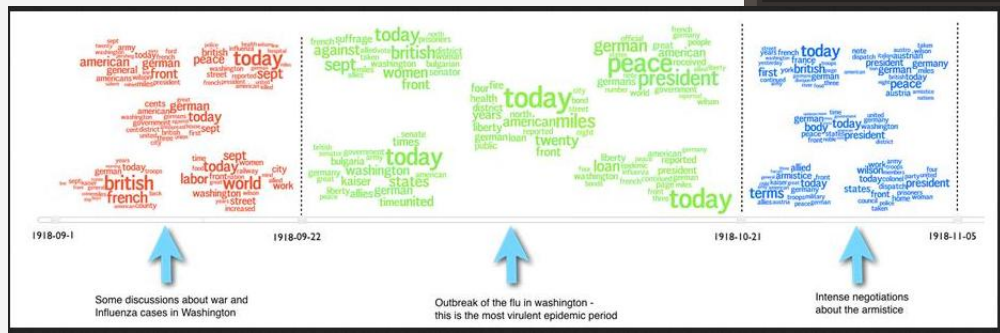
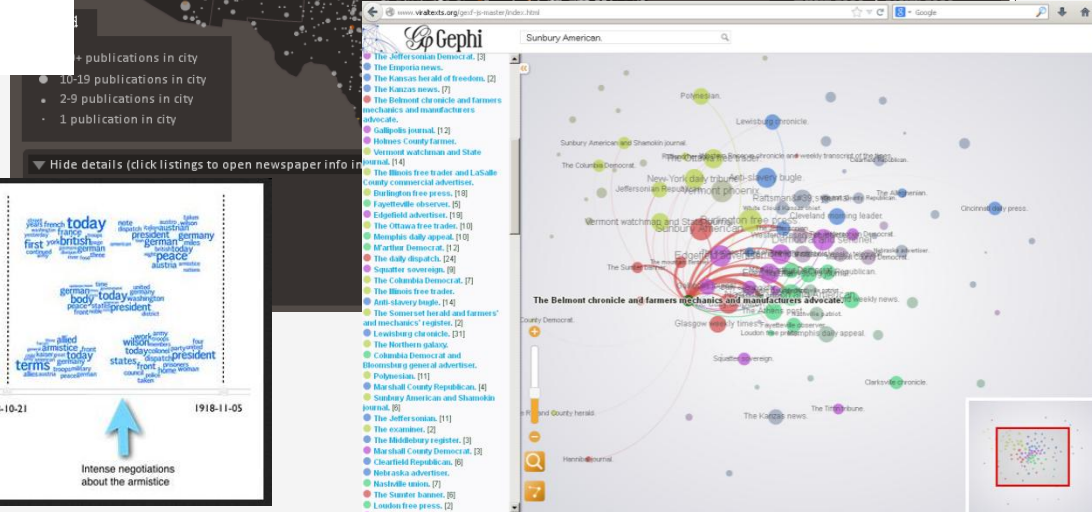
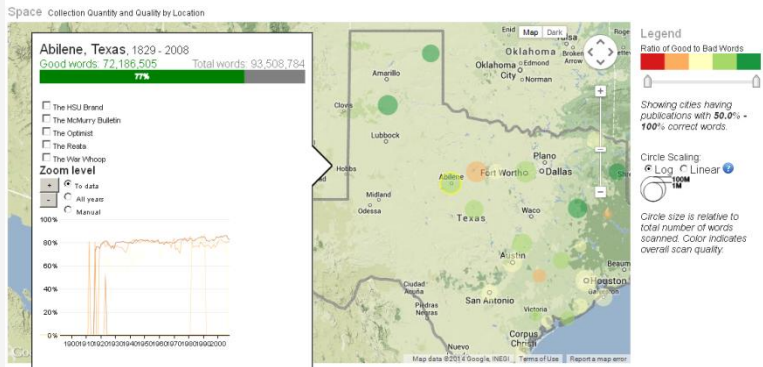
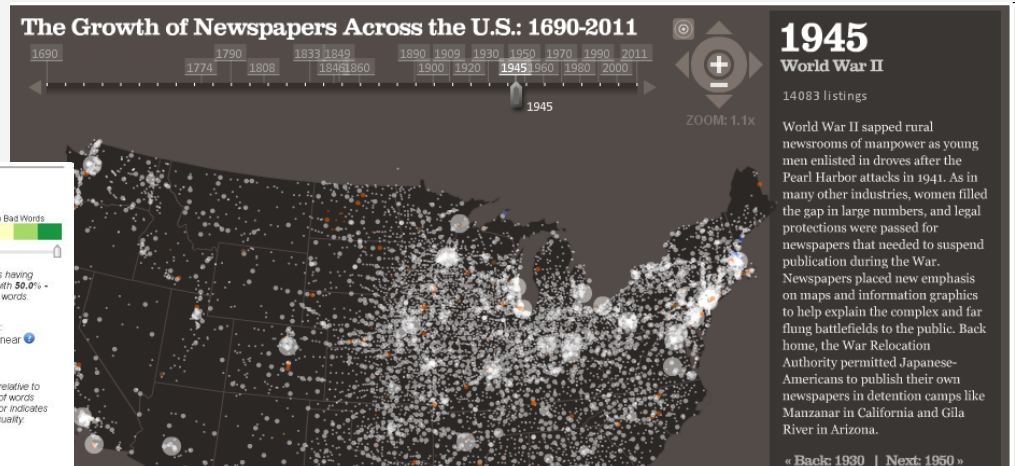
To enable research and external services Chronicling America provides bulk access to its OCR data. The table below itemizes a list of data files available for download. Each file will decompress into directory structure that lets you easily map the OCR file to the URL identifier for that page. For example a file such as `sn830030214/1903/05/01/ed-1/seq-1/ocr.txt` maps to the URL `http://chroniclingamerica.loc.gov/lccn/sn830030214/1903-05-01/ed-1/seq-1/`.

If you are interested in automated access to this data you may want to use the [Atom](#) and [JSON](#) versions of this table.

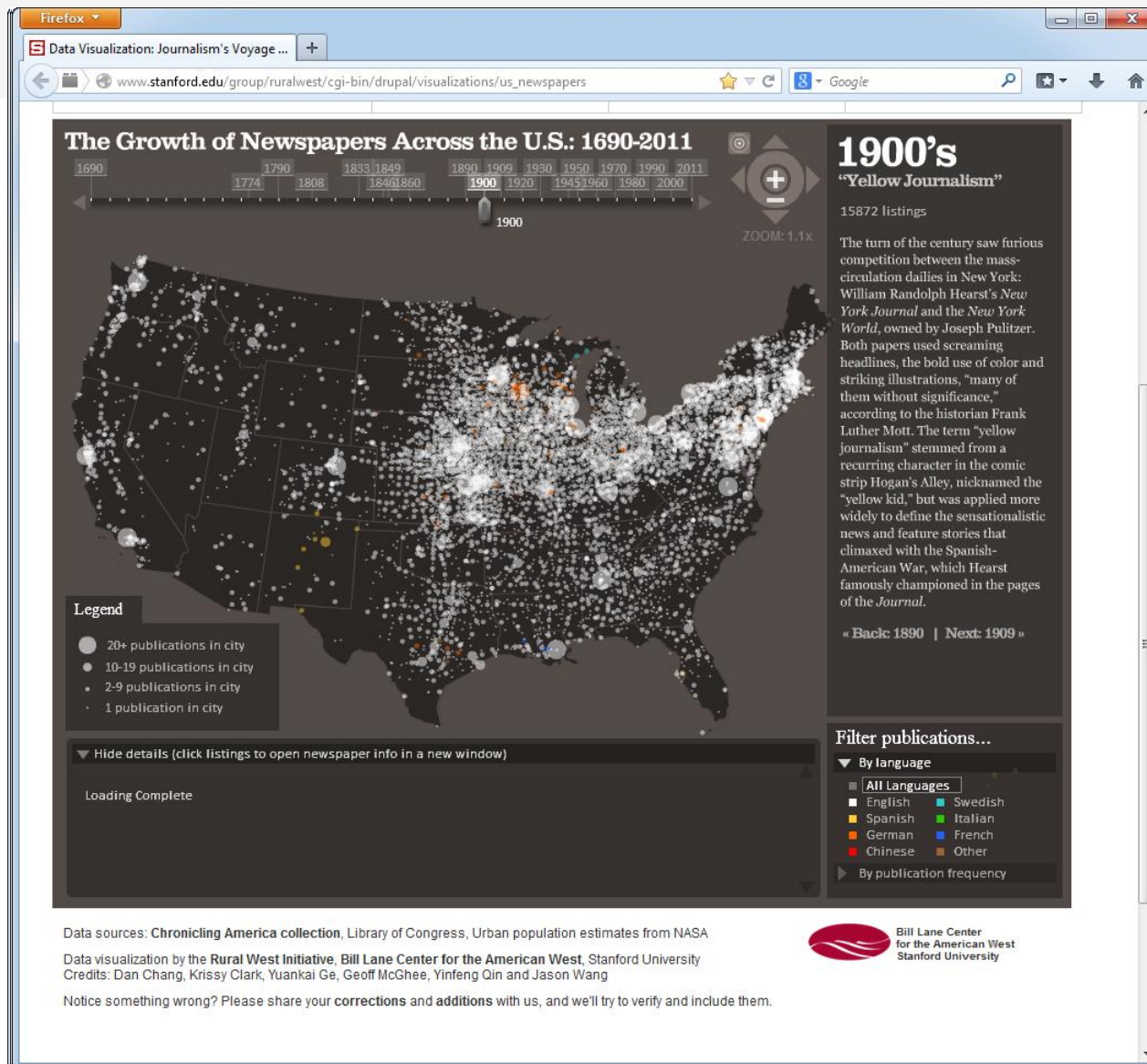
Filename	Batch	Created	Size	SHA-1 Checksum
batch_wa_indianplum_ver02.tar.bz2	batch_wa_indianplum_ver02	2014-01-14T21:54:30-05:00	2.6 GB	b7131b22dc5f2e22af04c77ea5471db782a94f63
batch_wvu_belgium_ver01.tar.bz2	batch_wvu_belgium_ver01	2014-01-14T21:51:48-05:00	2.4 GB	819971e355c08cd032742891dd051a62bf5c4529
batch_wvu_denmark_ver01.tar.bz2	batch_wvu_denmark_ver01	2014-01-14T21:44:51-05:00	2.1 GB	627346b3b69e31a59a1d6684a024fe08d2e0ff17
batch_wvu_eritrea_ver01.tar.bz2	batch_wvu_eritrea_ver01	2014-01-14T21:31:30-05:00	2.1 GB	208fb744dd59f63efb59891de3b14e6bb3d60b75
batch_vtu_graniteville_ver01.tar.bz2	batch_vtu_graniteville_ver01	2014-01-14T21:20:57-05:00	1.6 GB	6e3aff822b8e1b640e8624a164f3965889069b04
batch_vtu_burlington_ver01.tar.bz2	batch_vtu_burlington_ver01	2014-01-14T21:16:31-05:00	1.7 GB	f41c1c8117d77ebf7b760300b90da457b218d7d7
batch_wa_fir_ver01.tar.bz2	batch_wa_fir_ver01	2014-01-14T21:09:18-05:00	1.7 GB	d94d31a3d548151bc7440dadf2d291ac7213f475
batch_wvu_austria_ver01.tar.bz2	batch_wvu_austria_ver01	2014-01-14T21:06:36-05:00	1.7 GB	e4fb071412b629a190d732fc3d400937a5b8f0d6

<http://chroniclingamerica.loc.gov/ocr/>

Advancing Research with Chronam

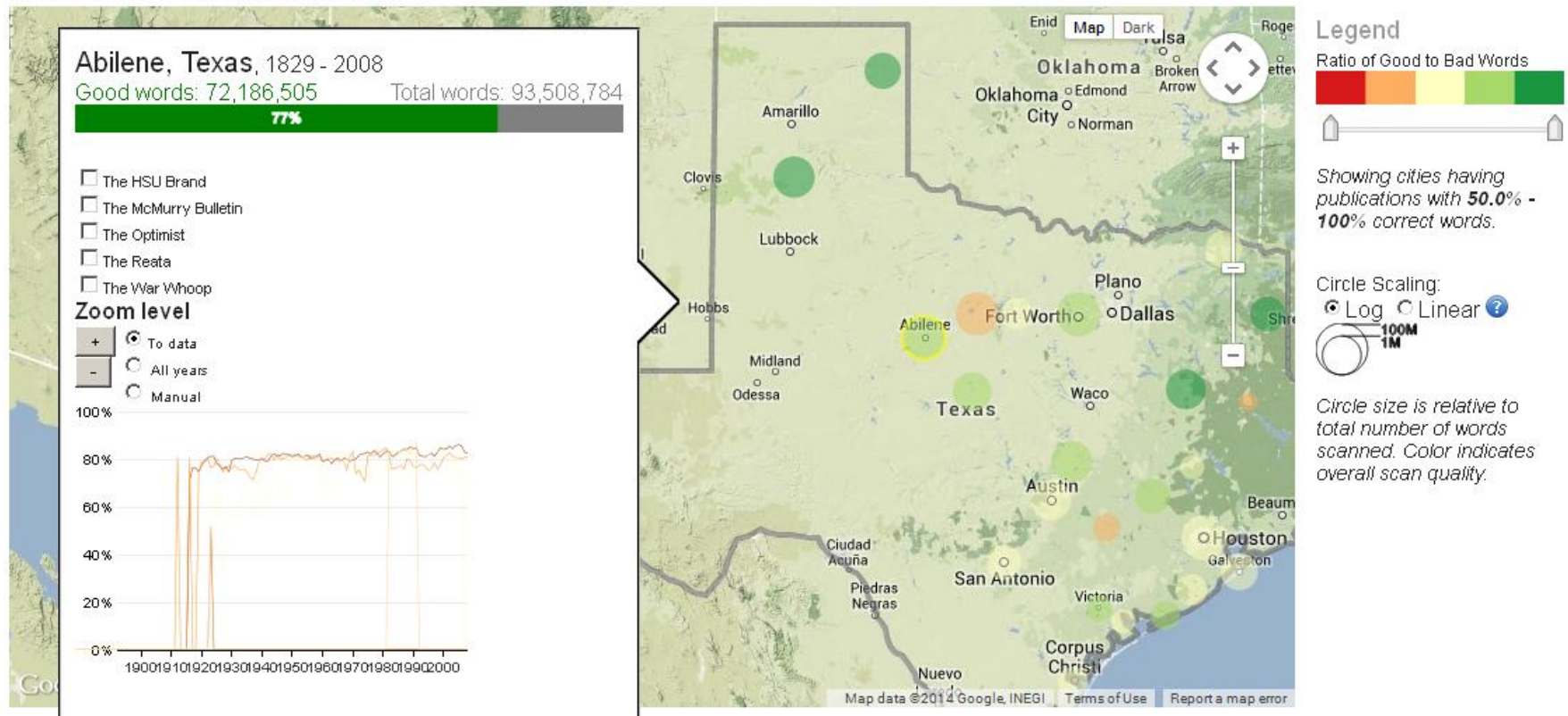


The Growth of US Newspapers, 1690-2011



Mapping Texts

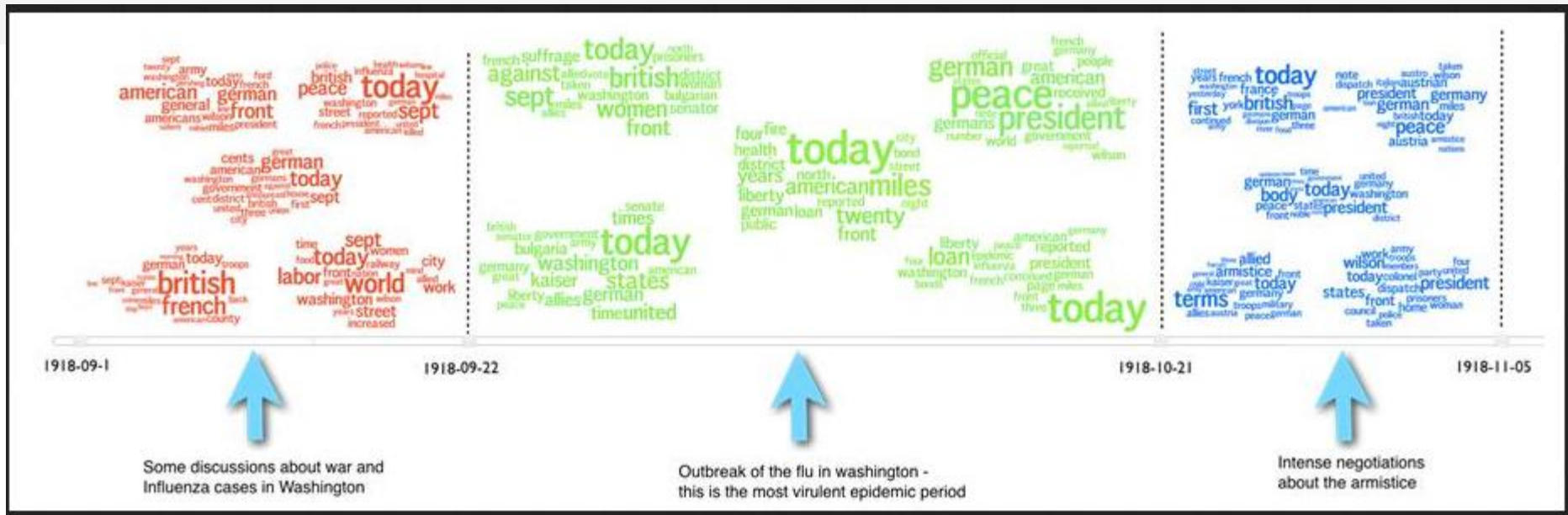
Space Collection Quantity and Quality by Location



Mapping Texts is a collaboration between scholars, staff and students at Stanford University and the University of North Texas. It is supported by the National Endowment for the Humanities.

<http://mappingtexts.org/>

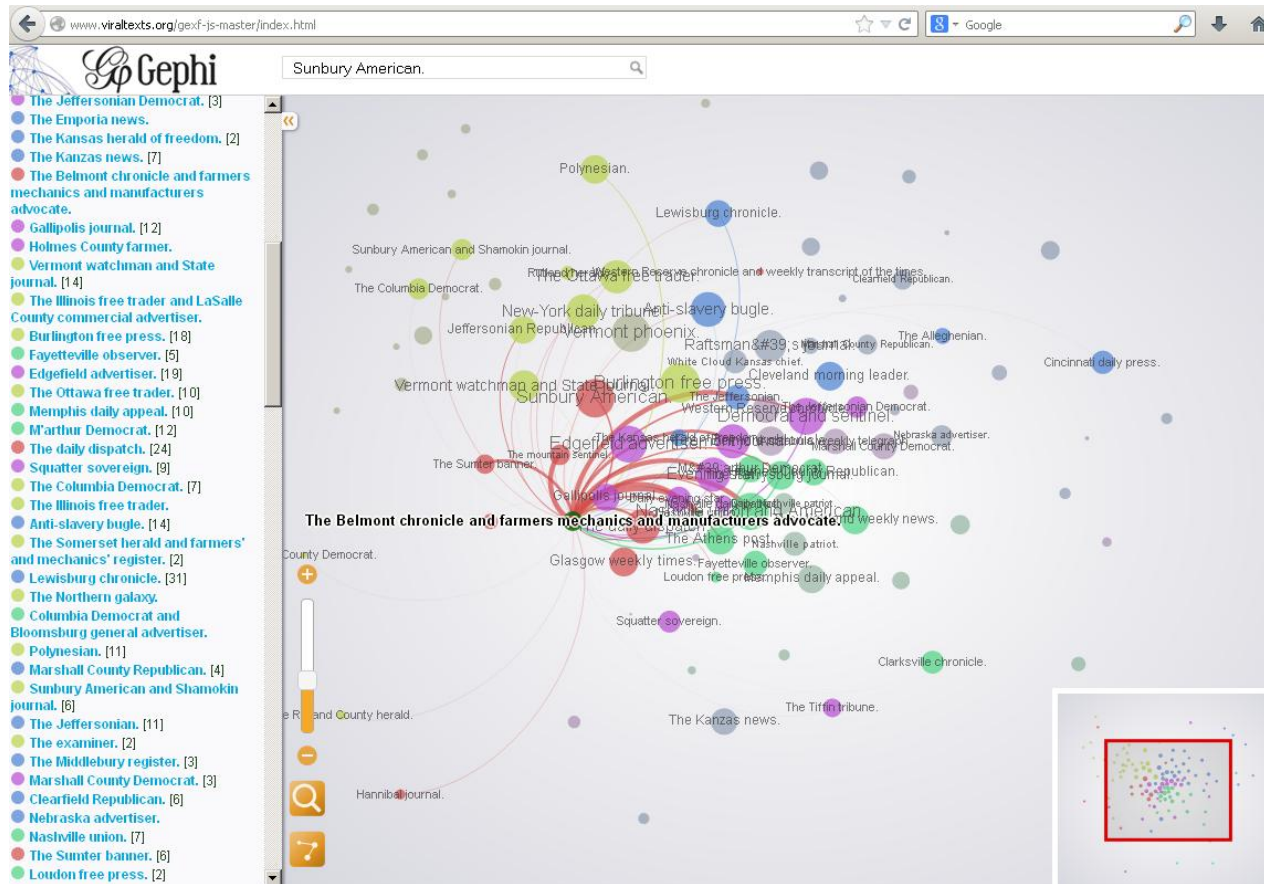
“An Epidemiology of Information: Data Mining the 1918 Influenza Pandemic”



“The goal ... is to develop methods for combining algorithmic techniques with the interpretive strength of traditional historical and rhetorical analysis in order to help researchers better understand reporting on the 1918 flu pandemic in American and Canadian newspapers.”

- Text mining
- Topic Modeling
- Tone Analysis

Viral Networks in 19th-Century Newspapers



"Infectious Texts is sponsored by Northeastern University's NULab for Texts, Maps, and Networks and generously funded by the National Endowment for the Humanities' Office of Digital Humanities. The project team includes Professors Ryan Cordell, Elizabeth Maddock Dillon, and David Smith, as well as Ph.D. students Abby Mullen and Matthew Williamson."

<http://www.viraltxts.org/>



Chronicling America



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Search Pages

Advanced Search

All Digitized Newspapers 1836-1922

US Newspaper Directory, 1690-Present

All states

+ from

1836

to

1922

+

GO

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[The day book.](#) (32pp.)
Chicago, Ill.



[Bryan daily eagle and pilot.](#) (4pp.)
Bryan, Tex.

Weathering the Storm



15,000 DIE IN PHILIPPINE STORM

That 15,000 persons were probably killed and wounded in a typhoon that swept the Philippine Islands last Tuesday was reported yesterday in cable dispatches to the Bureau of Insular Affairs.

The typhoon swept the Visayas and is said to have practically destroyed Tacloban, the capital of Leyte, and to have wrought enormous damage and loss of life at Capiz, the capital of the province of Capiz.

Tacloban has a population of 12,000. Capiz has a population of over 20,000. Capiz is the terminal of the railroad from Iloilo. It is a most important sugar port.

Aid Rushed to Scene.

The first news of the catastrophe came in a dispatch from the governor general of the Philippines. No figures of the dead or injured were given, but it was stated that probably half the population of the two cities had been lost.

The governor general sent his dispatch on Thursday. He informed the department that he was rushing a shipload of food, clothing, and all available medical supplies to Tacloban. All telegraphic communication has been destroyed, and it

<http://chroniclingamerica.loc.gov/lccn/sn83045433/1912-11-30/ed-1/seq-1/>

Beyond the *Chronicling America* Web Site

Regular update/highlights information by RSS* or email subscription

- <http://www.loc.gov/rss/ndnp/ndnp.xml>; and Recent Additions RSS feed (newspaper titles added)
- Keep up with what's in *Chronicling America*!



Open-source code for chronam application available on GitHub

- <https://github.com/LibraryOfCongress/chronam>
- chronam is the [Django](#) application that the Library of Congress uses to make its
- *Chronicling America* website (a core set of functionality for loading, modeling and indexing NDNP data)
- Check it out and take it for a spin!



Linked data and API** access in *Chronicling America*

- RDF/XML views available to Open Archives Initiative Object Reuse and Exchange (OAI-ORE)
- OpenSearch and Atom APIs for search queries, Bookmarkable URIs for all pages
- <http://chroniclingamerica.loc.gov/about/api/>



NDNP Extras! from the NDNP program site

- <http://www.loc.gov/ndnp/extras/>
- Visualizations, tutorials, podcasts, teaching resources, state project blogs, how *Chronicling America* is used in other projects and more!



Thank you!

- **NDNP Public Web**
<http://www.loc.gov/ndnp/>
- **NDNP Web Service**
Chronicling America: Historic American Newspapers
<http://chroniclingamerica.loc.gov>
- **Contact us at** ndnptech@loc.gov

