



Mapping Digital Collections: GeoJSON and Leaflet.js for Sustainable Static Web

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University of Idaho

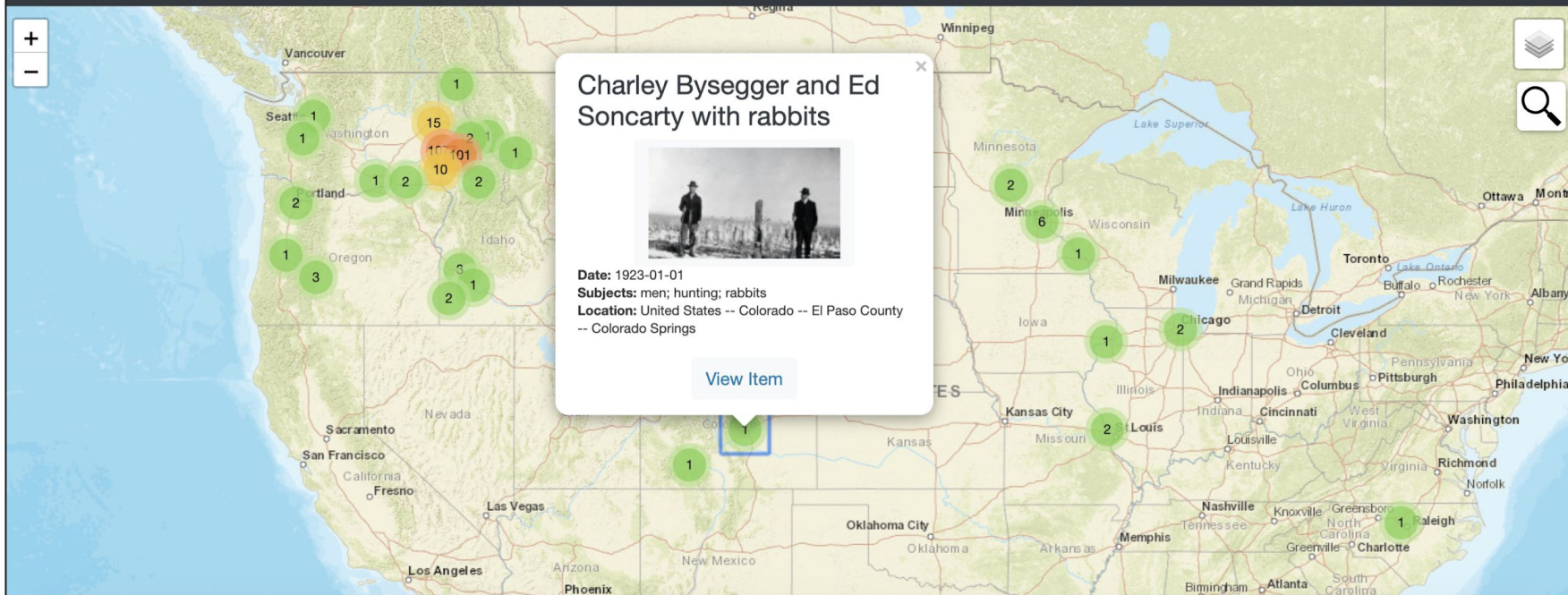
Potlatch Historical Society Collection

Photographs of University of Idaho Boxers and Boxing Teams, 1934 - 1953

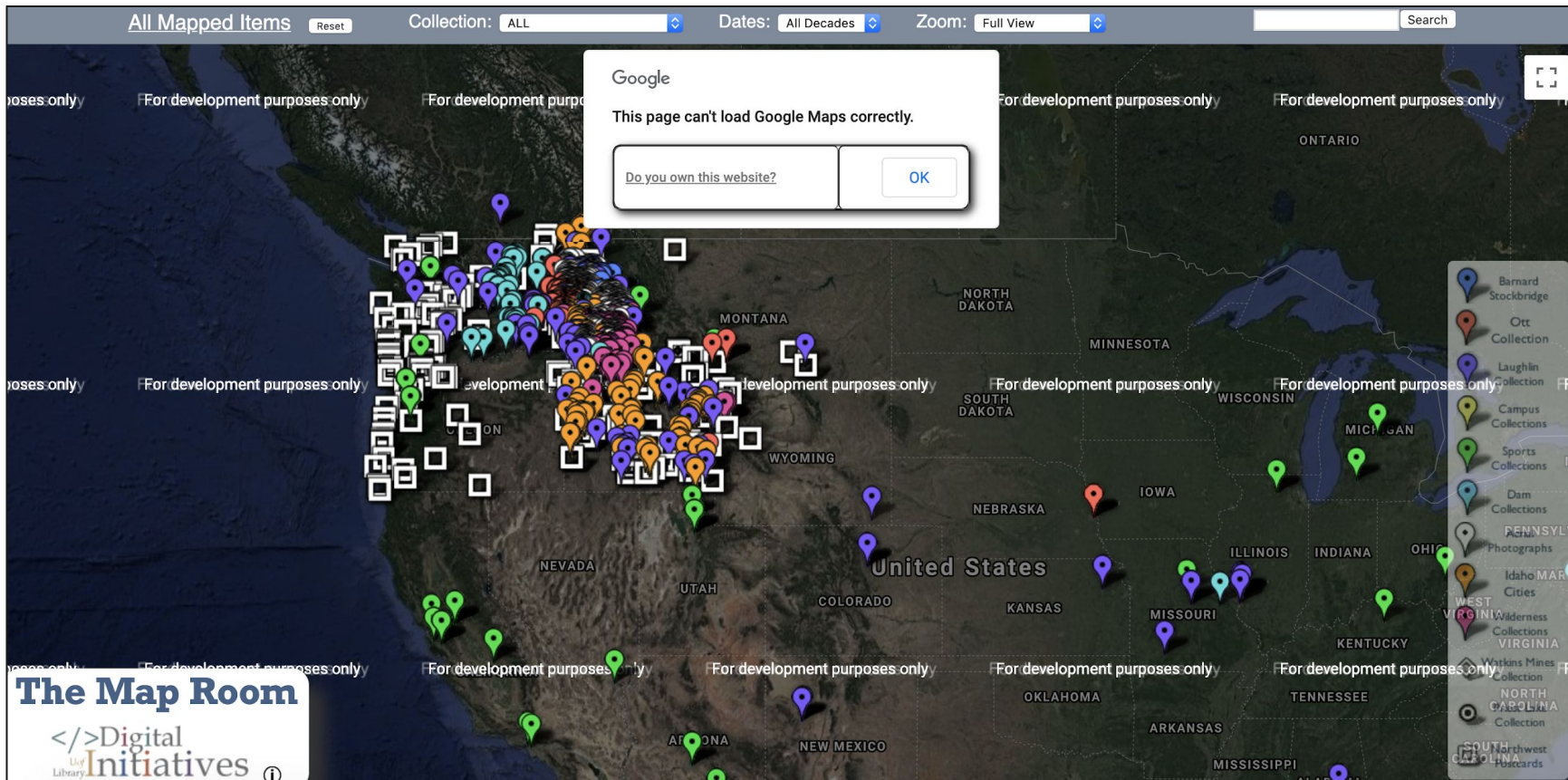
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Search



Browse Locations of Historic Items



Google Fusion Tables



an open-source JavaScript library
for mobile-friendly interactive maps

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May 8, 2019 — [Leaflet 1.5.1](#) has been released!

Leaflet is the leading open-source JavaScript library for mobile-friendly interactive maps. Weighing just about 38 KB of JS, it has all the mapping [features](#) most developers ever need.

Leaflet is designed with *simplicity*, *performance* and *usability* in mind. It works efficiently across all major desktop and mobile platforms, can be extended with lots of [plugins](#), has a beautiful, easy to use and [well-documented API](#) and a simple, readable [source code](#) that is a joy to [contribute](#) to.



<https://leafletjs.com/>

Collection Builder CDM Skin

Digital Collection Magic with Static Web Technologies

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Browse Items

114 of 114 items



Psychiana, A Mail Order
Religion Created in the Small
Town of Moscow, Idaho

Date: 2019-08-28

Creator: Northwest Public

\$10,000 Reward



Date: 1946

Eternal Life

Peace

Material Abundance

Happiness

Spirit of God

Talking With God

Power of God

A Conspectus of the Eleven
Living Religions of the World,
Arranged in the Chronological
Order of Their Origin



Date: 1940

Doctrine Parallels

Static Web Digital Collections


```
{  
  "type": "FeatureCollection",  
  "features": [  
    {  
      "type": "Feature",  
      "geometry": {  
        "type": "Point",  
        "coordinates": [102.0, 0.5]  
      },  
      "properties": {  
        "prop0": "value0"  
      }  
    },  
  ],  
}
```

GeoJSON

	A	B	C	D	E	F	G	H
1	title	description	creator	recipient	date	date-is-approxim	latitude	longitude
25	For Rent - A Cro	A flyer to all Americans advertizing Frank B. Robinson			1942	yes		
26	God - As a Living	Illustration of a man carrying a basket full of harvest			1939	yes	39.770372	-89.639463
27	Good News	Radio program c	The Izzard Company		1947	yes	39.770372	-89.639463
28	Good News - Ma	Radio program episode discusses man's quest for a			1947	yes		
29	Good News - Pu	Radio program episode outlines the purpose of the 'I			1947	yes		
30	Hang This Where	Flyer depicts a d	Psychiana, Inc.		1938	yes	36.29246	-86.622565
31	Here Is Your Les	Package includes	Tenney, C.W.		1938	yes	39.805157	-105.036494
32	Here's Your Ansv	Pocket-sized boc	Brooks, Keith L.		1940	yes		
33	I Talked With Go	Clipping of an art	Robinson, Frank B.		1946		47.65557	-117.419063
34	I Talked With Go	Photograph of Psychiana Advertisement pinned to a			1935	yes	47.65557	-117.419063
35	I Talked With Go	Advertisement printed in newspapers claiming Frank			1940	yes	39.770372	-89.639463
36	I Went You to Fir	Flyer includes illu	Psychiana, Inc.		1944	yes		

Metadata

```

absolute_url }}"></script>{% endif %}
8  {% if site.data.theme.map-search == true and site.data.theme.map-cluster == true %}<script src="{% '/assets/lib/
   leaflet/leaflet.markercluster.freezable.js' | absolute_url %}"></script>{% endif %}
9
10 <script>
11 (function(){
12     /* add collection map data */
13     var geodata = { "type": "FeatureCollection", "features": [
14         {% for item in items %}
15         { "type": "Feature", "geometry": { "type": "Point", "coordinates": [{{ item.longitude | strip }}, {{ item.latitude |
   strip }}] }, "properties":
16         { "title": {{ item.title | jsonify }},
17         {% for f in fields %}"{{ f.field }}": {{ item[f.field] | jsonify }}, {% endfor %} "cdm": {{ item.cdmid | jsonify
   }}, {% if item.youtubeid %} "youtube": {{ item.youtubeid | jsonify }}, {% endif %} "id": {{ item.objectid |
   jsonify }} } } {% unless forloop.last %}, {% endunless %} {% endfor %}
18     ]};
19
20     /* init map and set zoom */
21     if (window.location.hash) {
22         /* if url has a hash, it is split by comma into coordinates that set the view */

```

Generate GeoJSON, load leaflet.js


```
"type": "FeatureCollection",
"features": [
  {
    "type": "Feature",
    "geometry": {
      "type": "Point",
      "coordinates": [-122.332475, 47.604513]
    },
    "properties": {
      "title": "A Little Chat About Money",
      "description": "Notice sent to members to make prompt payments. Robinson tells his members that he believes in their unshakable integrity and that it must be carelessness that they don't make their payments, but it is important that the payments are received on time.",
      "creator": "Robinson, Frank B.",

      "date": "1938",
      "date-is-approximate": "yes",
      "latitude": "47.604513",
      "longitude": "-122.332475",
```

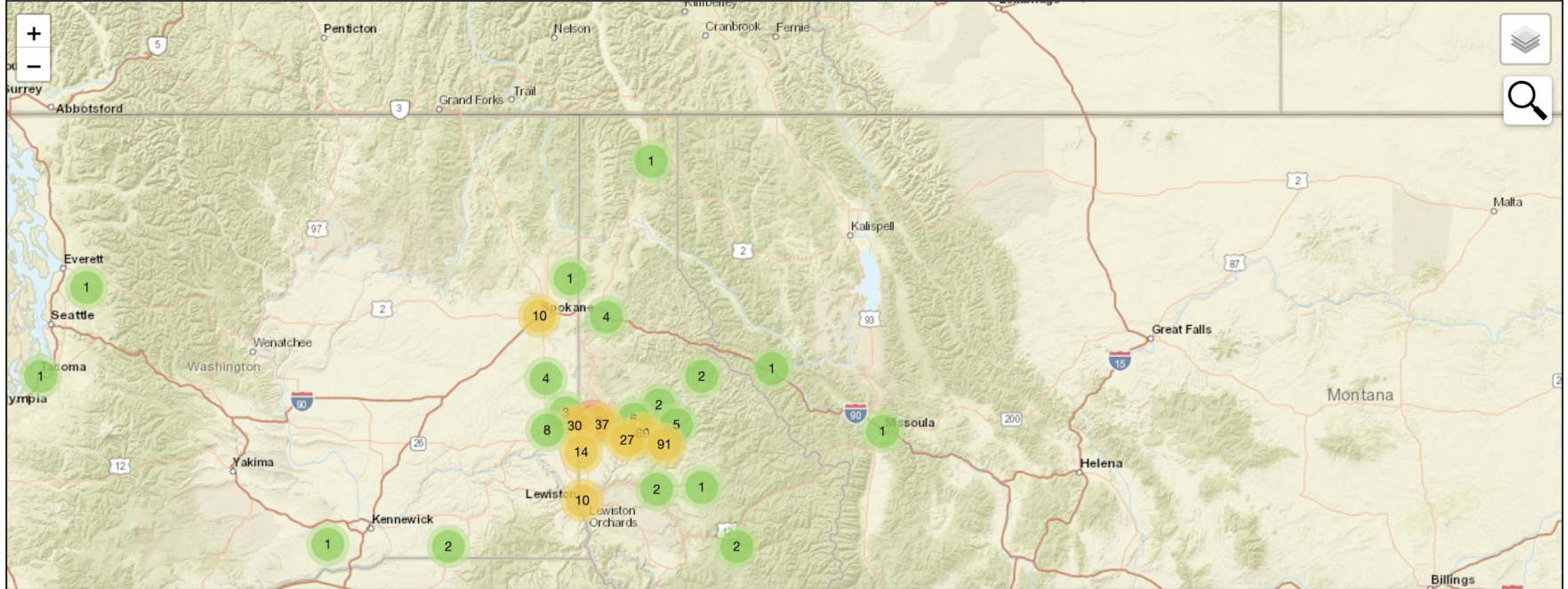
Jekyll Generates GeoJSON

Potlatch Historical Society Collection

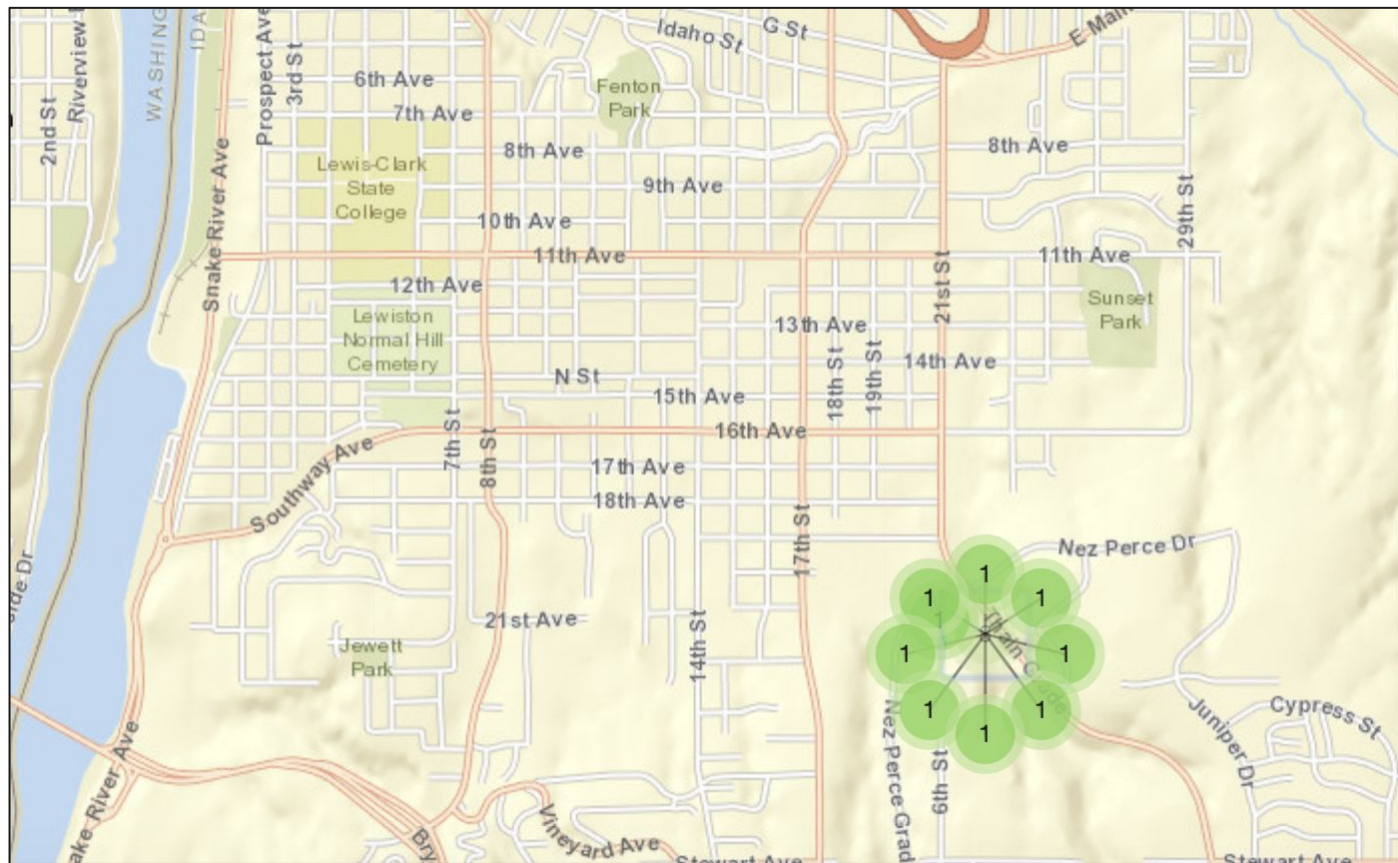
Photographs of University of Idaho Boxers and Boxing Teams, 1934 - 1953

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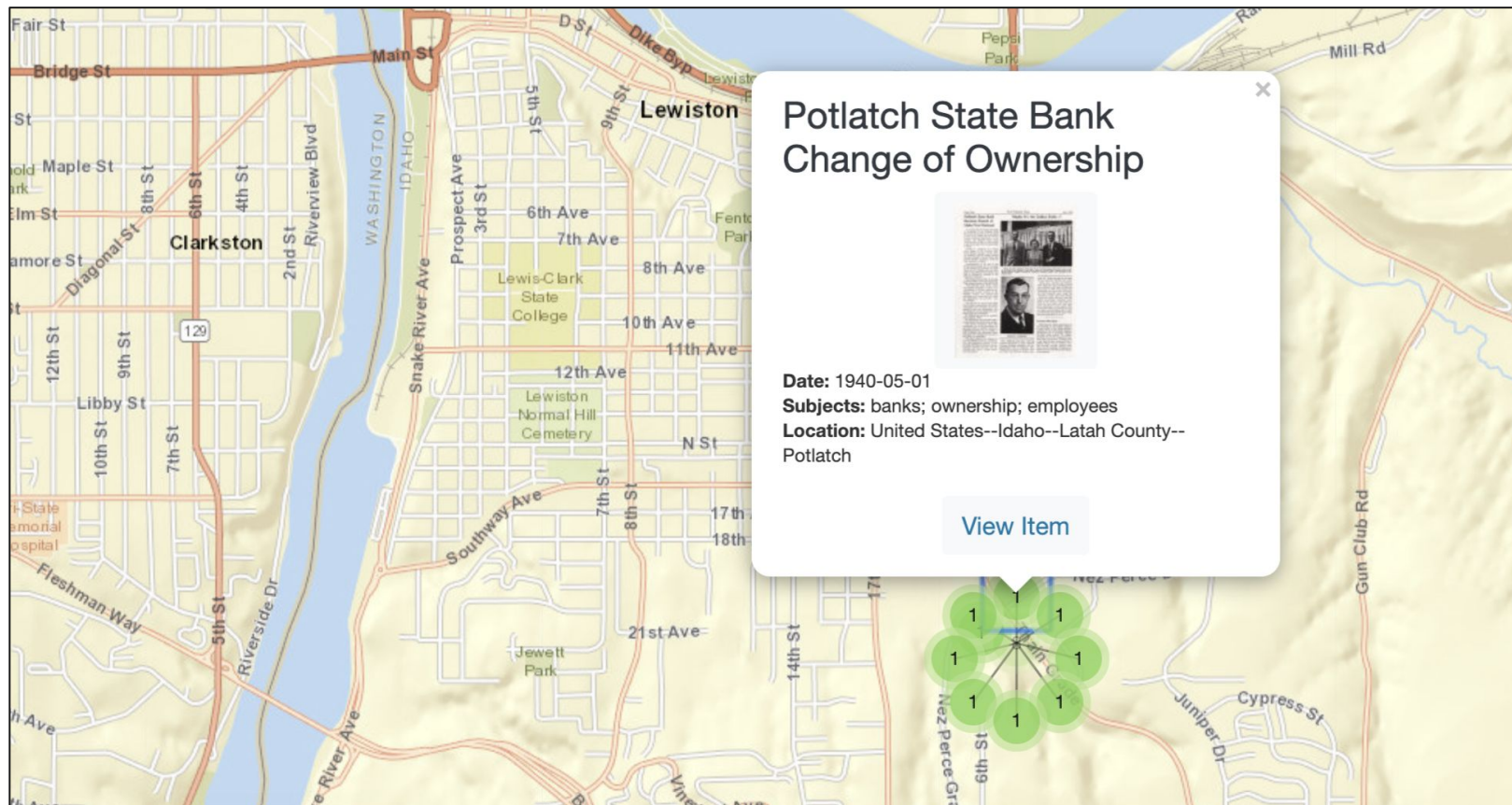
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Set Zoom Level




Style Markers



Popups

Potlatch State Bank
Change of Ownership



Date: 1940-05-01
Subjects: banks; ownership; employees
Location: United States--Idaho--Latah County--Potlatch

[View Item](#)

Esri World StreetMap
Esri National Geo
Esri Imagery

Search

7 location markers (green circles with '1') are visible on the map.

Switch Base Maps

Potlatch Historical Society Collection

Photographs of University of Idaho Box

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Collection Metadata

The table below provides sorting and basic information about the filtered metadata you see on the page. A link is provided to download the full collection metadata in various formats.

Excel CSV

Show entries

Title	Date	Description	Subjects
Ephraim Shay	1880	Photo of Ephraim Shay, the engineer and designer of the Shay geared engine.	portraits; engineers
Ralph and Jane	1880-01-01	A formal portrait of Ralph and Jane Strong, Dwight Strong's grandparents	families;

Download Metadata

CSV spreadsheet

JSON

Subjects JSON

Subjects CSV

Geodata JSON

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Search



Download Data

How to download the full collection metadata in various formats.

Search:

GeoJSON for Download

```

{
  "type": "FeatureCollection",
  "features": [
    {
      "type": "Feature",
      "geometry": {
        "type": "Point",
        "coordinates": [-116.91079, 47.00643]
      },
      "properties": {
        "title": "McMurray and Strong at Old Mine",
        "creator": "",
        "date": "1984-08-11",
        "date is approximate": "",
        "description": "Wayne McMurray and Dwight Strong coming from the old mine on W. McMurray Place (old Alva Strong Place) in Deep Creek area Idaho.",
        "subject": "mine; tour; forest; people; walking",
        "location": "United States--Idaho--Latah County--Deep Creek",
        "latitude": "47.00643",
        "longitude": "-116.91079",
        "collection": "",
        "identifier": "Gale_DeepCreek2-06a",
        "type": "Image;StillImage",
        "format original": "black and white print",
        "format": "image/jpg",
        "rightsstatement": "http://rightsstatements.org/vocab/InC-EDU/1.0/",
        "link": "https://www.lib.uidaho.edu/digital/phs/items/phs1.html"
      }
    },
  ],
}

```

Collection GeoJSON

geotest /

test-nwpostcards.json

Cancel

<> Edit file

Preview changes

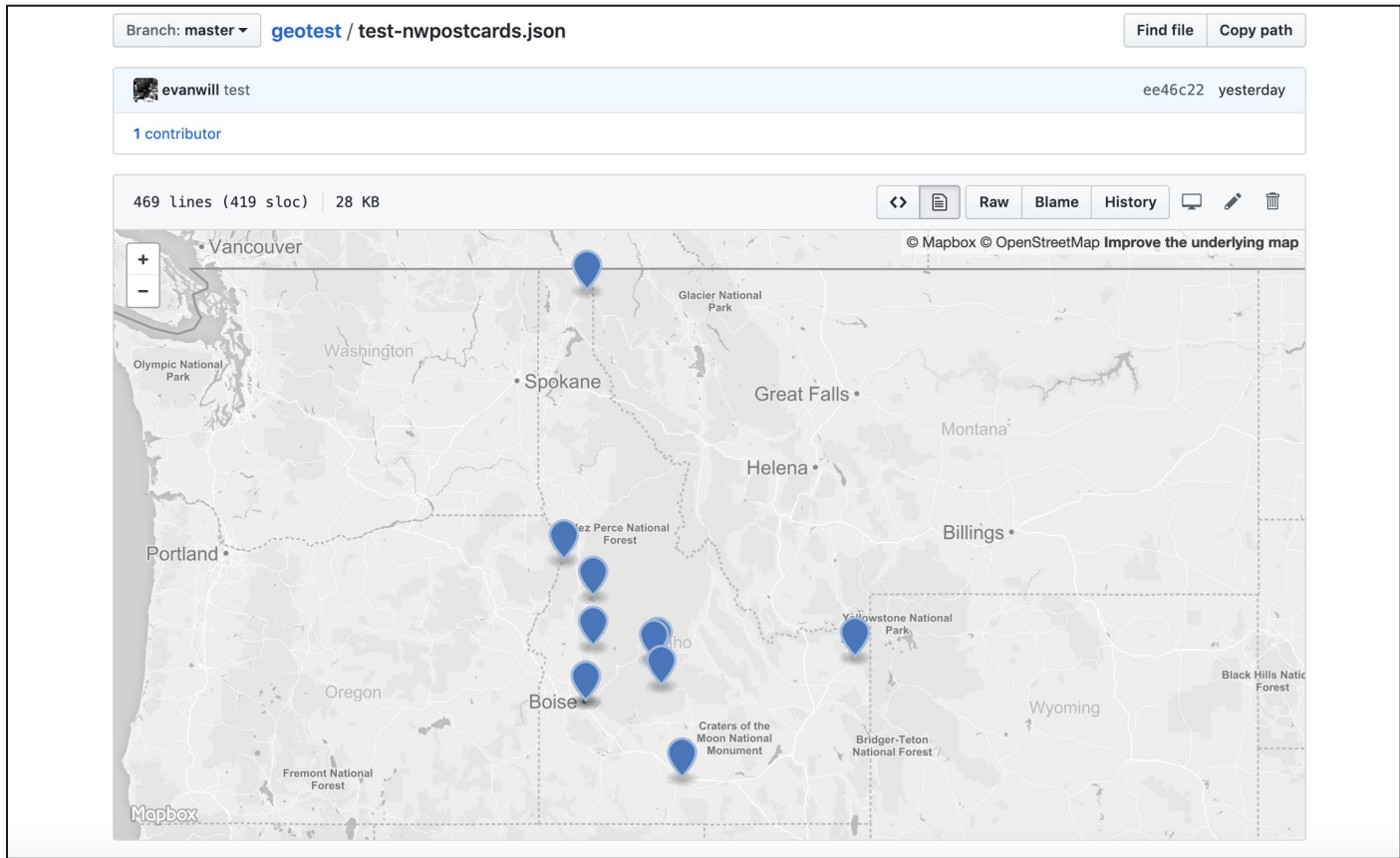
Spaces

4

No wrap

```
1  {
2    "type": "FeatureCollection",
3    "features": [
4
5      {
6        "type": "Feature",
7        "geometry": {
8          "type": "Point",
9          "coordinates": [-116.058347, 44.966247]
10       },
11       "properties": {
12         "title": "Payette Lake",
13         "description": "Postcard is of Payette Lake in Idaho | Payette Lake on North Fork of the Payette River, Idaho,"
14
15         "postcard type": "photographic postcards",
16
17         "date": "1970",
18         "subject": "mountains; lakes; trees; photographic postcards",
19         "location": "Payette Lake",
20         "state": "Idaho",
21         "publisher": "Union Oil Company",
22
```

GeoJSON on GitHub



GeoJSON on GitHub



Resources

Leaflet.js: <https://leafletjs.com/>

Using GeoJSON with Leaflet: <https://leafletjs.com/examples/geojson/>

GeoJSON: <https://geojson.org/>

Mapping GeoJSON files on GitHub:

<https://help.github.com/en/github/managing-files-in-a-repository/mapping-geojson-files-on-github>

Examples of Leaflet Used in University of Idaho Digital Collections:

- Potlatch Historical Society: <https://www.lib.uidaho.edu/digital/phs/map.html>
- Archival Idaho Photograph Collection: <https://www.lib.uidaho.edu/digital/archivalidaho/map.html>
- Civilian Conservation Corps in Idaho: <https://www.lib.uidaho.edu/digital/cccidaho/map.html>