A few online mapping tools

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University of Iowa
A few online mapping tools

WorldMap Warp – Harvard Univ.
GPS Vizualizer – Adam Schneider
Viewshare – Library of Congress
Overview

Welcome to WorldMap WARP, a tool based on the MapWarper platform being developed by Entropy Free. The tool is for digitally aligning (geo-rectifying) scanned historical maps to match today’s precise maps. Visitors can browse maps others have geo-rectified or upload their own to rectify. Any map which has been rectified here can be brought into WorldMap by following the instructions under Section 3.9.1 in WorldMap Help.

Tags

Crystal Palace New York city iowa Alaska Tangier Gauteng Gambia mines Cyprus UN Tunis Transportation duala Burkina Faso 1933 1934 institut geographique national Pre-Haussman Russian America 1889 Paris exposition universelle global Massachusetts Vienna kassalaforc libreville lock paris map barcelona gabon Monrovia subway Sao Paulo deido Brazil Luluambour 1894 St. Louis Fair plan Barcelona crows crystal Palace Brookline Slave Fire south africa Lagos esterias gas Japan pipeline Sudan Timbuctou zahry 1893 Chicago fairplan fair roosts bonakouzamang 1851 Japan us army Congo gold mines history Tanzania Russia Novgorod Togo ubangi-shari Istanbul region crisis cape town Moscow

Browse All Maps

My Maps

<table>
<thead>
<tr>
<th>Map</th>
<th>Title</th>
<th>Last modified</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iowa City, Iowa, 1919-1920</td>
<td>From 1920 University of Iowa course catalog.</td>
<td>4 months ago.</td>
<td>4 control points.</td>
</tr>
<tr>
<td>Map of Part of the Wisconsin Territory, 1836</td>
<td>“On stone by G. Kramm”</td>
<td>4 months ago.</td>
<td>3 control points.</td>
</tr>
<tr>
<td>Railroad and Sectional Map of Iowa, 1874</td>
<td>Published by Harrison &amp; Warner</td>
<td>4 months ago.</td>
<td>4 control points.</td>
</tr>
</tbody>
</table>

See all of My Maps

Last Rectified Maps

<table>
<thead>
<tr>
<th>Map</th>
<th>Title</th>
<th>Last modified</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marrakesh, Morocco 1943 USArmy</td>
<td></td>
<td>about 14 hours ago.</td>
<td>6 control points.</td>
</tr>
</tbody>
</table>
### Upload a new map

By uploading images to the website, you agree to the WorldMap Terms and Conditions.

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Title</td>
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<td>Date Depicted</td>
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<td>Reprint Date</td>
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<tr>
<td>Metadata Projection</td>
<td></td>
</tr>
<tr>
<td>Metadata Location</td>
<td></td>
</tr>
</tbody>
</table>

**Map visibility:**
- Public (default)
- © Don't list the map (only you can see it)

**Create**
Viewing original map.
Iowa City, Iowa, 1919-1920

From 1920 University of Iowa course catalog. Uploaded by mark_f_anderson. Last modified 4 months ago. 4 control points.

Tags: iowa university campus maps

Double-click on both maps, then click Add Control Point. Do this for at least three points.
Iowa City, Iowa, 1919-1920
From 1920 University of Iowa course catalog, uploaded by mark_f_anderson. Last modified 4 months ago. 4 control points.
Tags: Iowa university campus maps
Remove from My Map | Link: Source | Biblio Ref | Download KML
+ Share | | | Export

Map

- Original File: Iowa_City_1919-1920.tif
- GeoTiff: Download rectified GeoTiff
- PNG: Download rectified PNG (and associated .aux.xml file)
- KML: Download KML file (View KML in Google Maps )
- WMS: WMS base URL (for JOSM OpenStreetMap Editor )
- Tiles (Google/OSM scheme): Tiles base URL

Bibliographic:
- Bibliographic
GPS Visualizer is a free, easy-to-use online utility that creates maps and profiles from GPS data (tracks and waypoints, including GPX files), driving routes, street addresses, or simple coordinates. Use it to see where you’ve been, plan where you’re going, or visualize geographic data (business locations, scientific observations, events, customers, real estate, geotagged photos, “GPS drawing,” etc.).

To set more options, use the detailed input pages:
- Google Maps
- Google Earth KML
- Convert to GPX
- Upload a GPS file
- Choose an output format: Google Maps
- Go!

GPS Visualizer can read data files from many different sources, including but not limited to: GPX (a standard format used with many devices and programs, including Garmin’s eTrex, GpsMap, Oregon, Dakota, Colorado, & Nav series), Google Earth (.kmz/kml), Google Maps routes (URLs), Geocaching.com (.loc), FAI/IGC glider logs, Microsoft Excel, Google Spreadsheets, XML feeds, Garmin Forerunner (.xml/.txt), Timex Trainer, OziExplorer, Cetus GPS, PathAway, cotopGPS, CompeGPS, TomTom (.gpx), IGN Rando (.wfn), Emtac Trino, Suunto XV/XVI (.sdf), Fugawi, Nettstumbler, and of course tab-delimited or comma-separated text.

GPS Visualizer is based in Portland, Oregon, and has been on the Web since October 2002.
Free Geocoding Utilities at GPSVisualizer.com

"Geocoding" is the process of converting street addresses or other locations (ZIP codes, postal codes, city & state, airport IATA/ICAO codes, etc.) to latitude and longitude, which can be entered into a GPS device or geographical software. GPS Visualizer offers several options for geocoding your information.

NOTE: If you want to plot addresses on a map, I highly recommend geocoding the points first, saving the results, and then running the coordinates through the map form to create a JPEG, PNG, SVG, Google Map, or Google Earth KML/KMLZ file. It will be much faster and easier in the long run, because your locations will only need to be processed once.

1. **Geocode a single address**
   If you only need to find the coordinates of a single location (or a small handful), use GPS Visualizer's **Quick Geocoder**. This utility uses Yahoo or Google's geocoding service and returns a small map and a nicely formatted table of information.

2. **Geocode multiple addresses**
   If you have a large batch of addresses for which you need coordinates, GPS Visualizer's **Multiple Address Locator** is the solution. This form allows you to geocode a large number of addresses using Yahoo or Google's Geocoding API service. Your data can be in either a raw, jumbled, unformatted list, or in a structured table with a header row; output is plain text but can be plotted on a map or written to a GPX file.
   NOTE: If your data consists entirely of ZIP codes, Canadian postal codes, airport codes, states, or countries, use the converter described below in #3, or go straight to the map form.

3. **Geocode simple tabular data**
   If your data is in tabular format (rows and columns) and contains simple data like ZIP codes, Canadian postal codes, cities, states, or airports, the best option is to format your data with an appropriate header row and then use GPS Visualizer's text/GPX conversion utility or one of the map forms directly -- GPS Visualizer has built-in databases for these types of data, so it will be much faster than having to ask Google or Yahoo where each point is.
   Not only will the mapper or converter be faster, but you can also take advantage of features like the **quantitative data form**, which can colorize or resize your data points based on frequency or other parameters. (The geocoding utilities listed above in #1 and #2 will attach coordinates to your points but won't do any further processing.)
   By the way, GPS Visualizer's mapper and converter will try to find the latitude and longitude of any points in your file that lack coordinates -- including street addresses. But if you do send street addresses, only a few can be processed at once, because they all must be processed by the GPS Visualizer server itself -- and it will be harder to double-check them for accuracy.

Reverse geocoding
Reverse geocoding is the process of taking GPS coordinates and converting them to street addresses. At this time, GPS Visualizer is not able to do any reverse geocoding; if you need such a service, I suggest starting with a Google search.

Return to the main GPS Visualizer page

©2003–2012 Adam Schneider, adam@gpsvisualizer.com
GPS Visualizer's Address Locator
Convert multiple addresses to GPS coordinates

Input:
Duxbury, IA
Waterloo, IA
McPherson, KS
Saigon, Vietnam
Fort Dodge, IA

Type of data: raw list, 1 address per line  
Source: Yahoo
Start geocoding

Map of your locations:

Results as text:

How this page works
Google and Yahoo each provide a geocoding "API" -- a way for other programs to quickly and easily access their services. But they only allow a certain number of queries per day, based on your IP address. This form uses JavaScript-On-Demand (JSON) code that causes your web browser to be the one making the request (rather than gpsvisualizer.com), which means your queries don't count against my server's limit. (And thanks are due to the developers of the batch geocoder at Stadion Decode for the Yahoo JSON info.)

Verifying strange results
GPS Visualizer's Address Locator

Convert multiple addresses to GPS coordinates

Input:
- Dusseldorf, IA
- Waterloo, IA
- Des Moines, IA
- Saigon, Vietnam
- Fort Dodge, IA

Type of data: raw list, 1 address per line
Source: Yahoo
Start geocoding

Map of your locations:

Results as text: (77 of 921 lines processed)
42.76868, -96.62809, "Versailles, SD", -
54.65355, 11.07589, "Hamburg, Germany", -
52.34146, -92.122356, "La Follette City, IA", -
42.496304, -92.942155, "Waterloo, IA", -
41.86075, -91.618655, "Des Moines, IA", -
41.976963, -91.673267, "Cedar Rapids, IA", -

How this page works
Google and Yahoo each provide a geocoding "API" -- a way for other programs to quickly and easily access their services. But they only allow a certain number of queries per day, based on your IP address. This form uses JavaScript-On-Demand (JSON) code that causes your Web browser to be the one making the request (rather than gpsvisualizer.com), which means your queries don't count against my server's limit. (And thanks are due to the developers of the batch geocoder at BatchGeocoder.com for the Yahoo JSON info.)

Verifying strange results
Your data has been converted to GPX.

Right-click on the following link to download the file to your hard drive; you may want to give it a more sensible name.

Click to download 1334157349-29363-120.255.55.16.gpx

The contents of your file are also displayed in this box, if you'd rather cut and paste:

```
<xml version="1.0">n
gpx creator="GPS Visualizer http://www.gpsvisualizer.com/" version="1.0" xmlns="http://schemas.xmlsoap.org/2003/05/gpx"
<name>s</name>
<lon>93.618489</lon>
<name>Des Moines, IA</name>
<lat>41.038253</lat>
<lowl>6.388989</lowl>
```

The contents of your file are also displayed in this box, if you'd rather cut and paste:

Map this data: Google Maps, Google Earth, JPEG map, SVG map, or elevation profile — or go to the map form to set options.

Return to the "convert" form.

Go to the main GPS Visualizer form.

Create, save and share your tracks & waypoints: sign up for a free account at EveryTrail.com.
Viewshare is a free platform for generating and customizing views (interactive maps, timelines, facets, tag clouds) that allow users to experience your digital collections.

- Request Free Account
- Watch Screencast
- Get Started

**Import Collections**
Ingest collections from spreadsheets or MADS records. Upload from your desktop or import them from a URL.

**Generate Views**
Generate distinct interactive visual interfaces to your digital collections, including maps and timelines, and sophisticated faceted navigation.

**Embed and Share**
Just copy-paste to embed your interface in any webpage. Provide your users with novel and intuitive ways to explore your content.
Load Your Data

**Simple Spreadsheets**
Simple rectangular spreadsheets in CSV or Microsoft Excel format.
- From the web
- From a file on your computer

**XML MODS file**
An XML file conforming to the Metadata Object Description Schema (MODS) schema.
- From the web
- From a file on your computer

**OAI Open Archives Initiative end point (Beta)**
The Open Archives Initiative develops and promotes interoperability standards that aim to facilitate the efficient dissemination of content.

**A ContentDM database (Beta)**
Digital Collection Management Software from OCLC.

See [Supported Data Source Types](#) if you don't know or don't see the format you are trying to load.
## IWA Final Geo Data

Geographic locations of IWA collections

Originally loaded by [lib.uiowa](http://lib.uiowa.edu) on April 2, 2012 and is the basis for [IView](http://viewshare.org).

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<thead>
<tr>
<th>Enabled</th>
<th>Field Name</th>
<th>Types</th>
<th>Value</th>
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<tr>
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<td>Name</td>
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<td>Iowa Women's Archives</td>
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<td>Title</td>
<td>text</td>
<td>Margaret Anderson papers, Cedar Falls, IA</td>
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<td>Image URL</td>
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<tr>
<td></td>
<td>location</td>
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</tr>
</tbody>
</table>
IWA Final Geo Data
Map of IWA Collections
Created by lib-uiowa on April 2, 2012 and based on the IWA Final Geo Data data set.

1201 Items

Iowa Women's Archives
IWA Final Geo Data

Map of IWA Collections

Created by lib-uiowa on April 2, 2012 and based on the IWA Final Geo Data data set.

1201 Items

- Marilyn Carson papers, Dubuque, IA
- National Organization for Women, Dubuque Chapter records, Dubuque, IA
- Ruth Schermer papers, Dubuque, IA
- Martha Nash papers, Dubuque, IA
- Robinson Lacy Family papers, Dubuque, IA
- Sister Gwen Hennessey papers, Dubuque, IA

Iowa Women’s Archives