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
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.

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 kassalafam libreville lock paris map barcelone gabon Monrovia subway Sao Paulo deido Brazil Lulubourg 1894 St. Louis Fair plan Barcelona crows crystal Palace Brookline Slave Fire south africa Lagos esterias gas japan pipeline Sudan Timbuctou zarhy 1893 Chicago fairplan fair roosts bonakouamang 1851 japan us army Congo gold mines history Tanzania Russia Novgorod Togo ubangi-shari Istanbul region crisis cape town Moscow

Overview

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>&quot;On stone by G. Kramm&quot;</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>
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 Maps | Links: Source | Biblio Ref | Download KML
Share | Export

Double-click on both maps, then click Add Control Point. Do this for at least three points.

This map either is not currently masked. Do you want to add or edit a mask now?
Apply clipping mask when rectifying? Yes No
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: Do-It-Yourself Mapping

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
- GoogleKML Utility
- Convert to plain text
- JPEG/PNG/SVG maps
- Google Earth KML Conversion Tool
- Plot data points
- Geocoding
- Profiles (elevation, etc.)
- Freehand drawing tool

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 (.xml), Geocaching.com (.loc), FAI/IGC glider logs, Microsoft Excel, Google Spreadsheets, XML feeds, Garmin Forerunner (.xml/.sat/.txt), Timex Trainer, OziExplorer, Cetus GPS, PathAway, cutoGPS, CompassGPS, TomTom (.pin), IGN Rando (.rdn), Entac Trone, Suunto X5/X9 (xdf), 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.

NEWS & UPDATES

<table>
<thead>
<tr>
<th>DATE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>04/08/12</td>
<td>GPS Visualizer can now read .trk files from “TrackMaster 2000.”</td>
</tr>
<tr>
<td>03/28/12</td>
<td>The tags in KML files are now output in the exact order that Google specifies; this should help compatibility with many apps.</td>
</tr>
<tr>
<td>03/23/12</td>
<td>GPX Visualizer can now read .wpt files from MaxSea Marine Software.</td>
</tr>
<tr>
<td>03/12/12</td>
<td>To avoid potential security issues, the “Link to this view” feature in GPS Visualizer’s sandbox and Atlas.</td>
</tr>
<tr>
<td>02/27/12</td>
<td>When you make a Google Map with GPS Visualizer, the JavaScript code and viewpoint icons are loaded from “maps.gpsvisualizer.com,” but this domain is now hosted on a different server to reduce the load on <a href="http://www.gpsvisualizer.com">www.gpsvisualizer.com</a>.</td>
</tr>
<tr>
<td>02/18/12</td>
<td>The .csv tracklog files from OpenGTS (Open-Source GPS Tracking System) can now be read by GPS Visualizer.</td>
</tr>
</tbody>
</table>
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 KML, PNG, SVG, Google Map, or Google Earth KML/KMZ 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 an 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.

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Return to the main GPS Visualizer page
GPS Visualizer's Address Locator
Convert multiple addresses to GPS coordinates

Input:
- Duson, IA
- Waterloo, IA
- McPherson, KS
- Saigon, Vietnam
- Port 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 gspvisualizer.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 http://jsgeocode.com for the Yahoo JSON info.)

Verifying strange results
GPS Visualizer's Address Locator
Convert multiple addresses to GPS coordinates

Input:

- Dusseldorf, IA
- Waterloo, IA
- McPherson, KS
- Saigon, Vietnam
- Port-4odge, IA

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

Add a color:
Field separator in output:
comma (,)

Start geocoding

Map of your locations:

Results as text: (77 of 314 lines processed)
42.704608, -96.928019, "Vermillion, SD", -
43.453855, 11.076395, "Munster, Germany", -
52.314116, -92.192356, "La Porte City, IA", -
42.490104, -92.942155, "Waterloo, IA", -
41.58070, -93.616855, "Des Moines, IA", -
41.976398, -91.673759, "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 gspvisualizer.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 StahlDecodes.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
<?xml version="1.0"?>
<gpx creator="GPS Visualizer" http://www.gpsvisualizer.com/" version="1.0" xmime="http://www.w3.org/1999/xmime"

<wpt lat="42.881455" lon="-92.488551"

<name>Cedar Falls, IA</name>

<wpt lat="41.889799" lon="-93.618699"

<name>Iowa City, IA</name>

<wpt lat="41.038238" lon="-93.889889"

<name>Des Moines, IA</name>

</wpt>

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.

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GPS Visualizer

Google Maps output

Your GPS data has been processed. Your Google Map should be displayed below, and it's also temporarily available to view or download from GPSVisualizer.com. If something doesn't look like you expected it to, please contact me and explain the problem. If you want to save your Google Map to your Web site, the HTML source of the map must be modified; the GPS Visualizer FAQ contains instructions on how to do so.

Map created at GPSVisualizer.com

©2003-2012 Adam Schneider, adsm@gpsvisualizer.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.

Import Collections
Ingest collections from spreadsheets or MODS 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
Map of IWA Collections
Created by lib-uiowa on April 2, 2012 and based on the IWA Final Geo Data data set.
IWA Final Geo Data
Map of IWA Collections

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

1201 Items

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

Iowa Women's Archives