

Google Earth Pro: Batch Geocoding

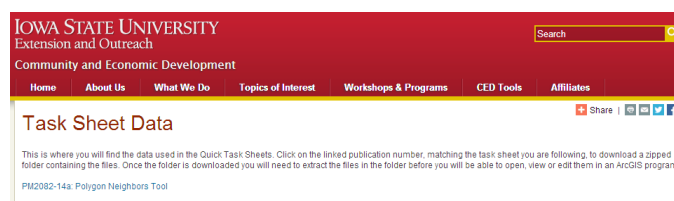
Google Earth System requirements
PC -Windows XP, Vista or 7 Mac -Mac OS X 10.6.0 or later

Welcome to the Essential ArcGIS Task Sheet Series. This series supplements the Iowa State University GIS Geospatial Technology Training Program short course series. The task sheets are designed to provide quick, easy instructions for performing mapping and GIS tasks.

On January 30, 2015 Google announced they were making Google Earth Pro licenses free. Pro users can now view demographic, parcel and traffic data layers, use advanced GIS data importing features, batch geocode, measure area, radius and circumference on the ground and on 3D buildings, print high-resolution screenshots, record HD video virtual flights, and more for free. This task sheet will take you through the steps of geocoding a text file containing addresses in Google Earth Pro. Google Earth Pro supports geocoding for the following countries: United States, United Kingdom, Canada, France, Italy, Germany and Spain.

1. Download the Data

- To download the data used in this task sheet, navigate to <http://www.extension.iastate.edu/communities/GIS/quicktasksheets/data> in a web browser. Click on the publication number that matches this task sheet. In this case, the publication number is **PM2082-15c**.
- Open the **Addresses.txt** file containing addresses you will geocode in this tutorial.

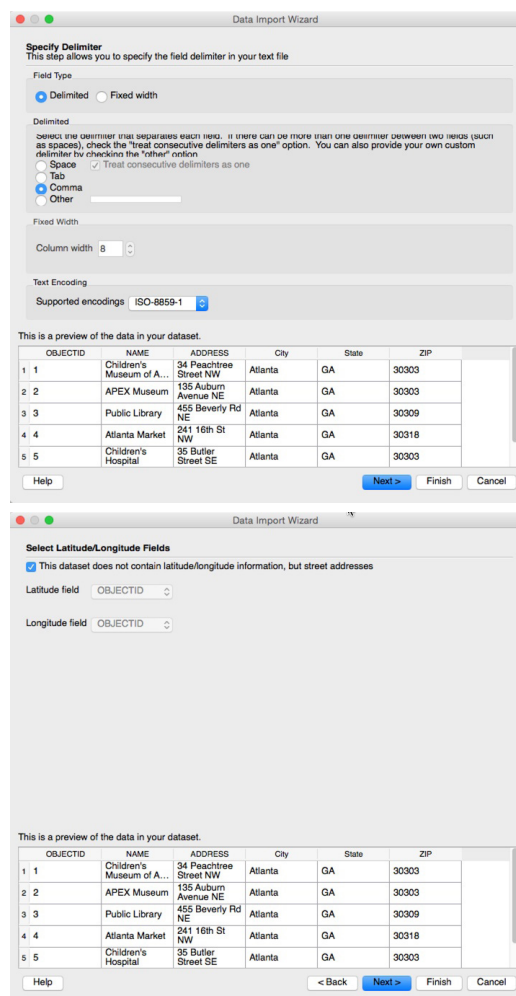


2. Download Google Earth Pro

- Download Google Earth Pro from <http://www.google.com/earth/download/gep/agree.html>.
- When the software download is complete, open the program and sign in using your email address and the key **GEPPFREE**.

2. Import Text Document

- Click **File > Import** and select the **Addresses.txt** file downloaded from **step 1a**.
- The **Data Import Wizard** window will appear. Follow the series of images and directions in this tutorial to complete the import.
- In the **Data Import Wizard** make sure **Delimited** and **Comma** are selected. Click **Next >**. In the window that follows, make sure the check box next to **This dataset does not contain latitude/longitude information, but street addresses** is checked. Click **Next >**.
- The radio button next to **Address are broken into multiple fields** should be selected. Click **Next >**.



e. Now match up the address fields from the **Addresses.txt** file and Google Earth's address fields. Click **Next >** when you are finished. *Note: you could check the box next to use common value for the country field and type in United States but it works without doing this.*

- Street field: **ADDRESS**
- City field: **City**
- State field: **State**
- Zip/postal code field: **ZIP**
- Country field: **N/A**

f. In the final screen on the **Data Import Wizard**, change **ZIP** to **string** and click **Finish**.

g. If you completed these steps using the sample data you should now have an error message stating **"Google Earth could not geocode the following addresses"**. Click in the **Repair** box where it says **Enter New Address**. Put in the following address: **35 Jesse Hill Jr Dr SE Atlanta, GA 30303 United States**. Click **OK**. It should say **Repair Successful** in the **Repair** box.

h. The Google Earth Pro map window will zoom to the location of the geocoded address points and you will see them listed in the menu bar under **Temporary Places**.

i. To save these points right-click on **Addresses** and select **Save to My Places**.

Data Import Wizard

☐ This dataset contains one address field. Each value can be interpreted as an address on a single line.

☒ **Addresses are broken into multiple fields**
For example: street address, city, state and/or zip code, country
You can also specify default values for city, zip and country in case your data only contains partial addresses.

Select Address Field(s)

Address field	Street field	City field	State field	Zip/postal code field	Country field
N/A	ADDRESS	City	State	ZIP	N/A

use common value

This is a preview of the data in your dataset.

OBJECTID	NAME	ADDRESS	City	State	ZIP
1	Children's Museum of A...	34 Peachtree Street NW	Atlanta	GA	30303
2	APEX Museum	135 Auburn Avenue NE	Atlanta	GA	30303
3	Public Library	455 Beverly Rd NE	Atlanta	GA	30309
4	Atlanta Market	241 16th St NW	Atlanta	GA	30318
5	Children's Hospital	35 Butler Street SE	Atlanta	GA	30303

Help < Back Next > Finish Cancel

Data Import Wizard

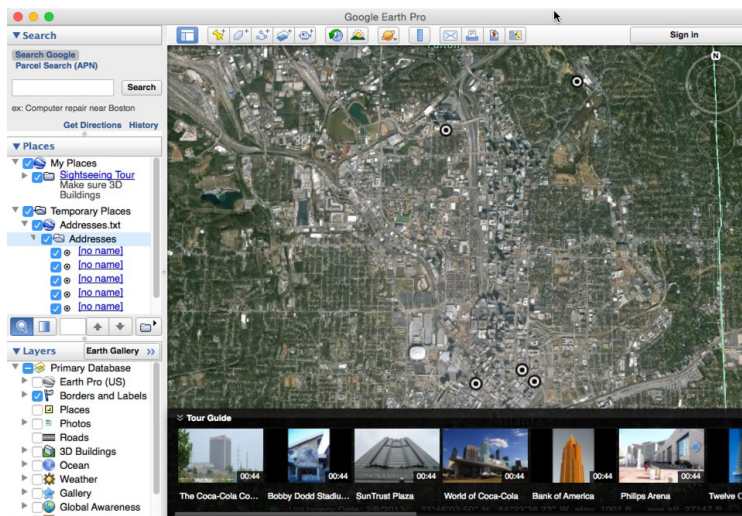
Specify Field Types (optional)
This step allows you to specify the type of each field in your dataset. This is optional.

Field	Type
OBJECTID	integer
NAME	string
ADDRESS	string
City	string
State	string
ZIP	string

This is a preview of the data in your dataset.

OBJECTID	NAME	ADDRESS	City	State	ZIP
1	Children's Museum of A...	34 Peachtree Street NW	Atlanta	GA	30303
2	APEX Museum	135 Auburn Avenue NE	Atlanta	GA	30303
3	Public Library	455 Beverly Rd NE	Atlanta	GA	30309
4	Atlanta Market	241 16th St NW	Atlanta	GA	30318
5	Children's Hospital	35 Butler Street SE	Atlanta	GA	30303

Help < Back Finish Cancel



Google Earth

Google Earth could not geocode the following addresses:

Original Index	Address	Repair
1 5	35 Butler Street SE, Atlanta, GA, 30303	Enter New Address

OK

Google Earth

Google Earth could not geocode the following addresses:

Original Index	Address	Repair
1 5	35 Jesse Hill Jr Dr SE Atlanta, GA 30...	Repair Successful

OK

Contact:

Bailey Hanson bahanson@iastate.edu, 515-520-1436 or Associate Professor Christopher J. Seeger, ASLA, GISP cjseeger@iastate.edu, 515-509-0651 for more information about the Geospatial Technology Program. This task sheet and more are available at www.extension.iastate.edu/communities/gis

...and justice for all

The US Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue SW, Washington, DC 20250-9410, or call 800-795-3272 (voice) or 202-720-6382 (TDD).

Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the US Department of Agriculture. Cathann Kress, director, Cooperative Extension Service, Iowa State University of Science and Technology, Ames, Iowa.