

Procedure for geocoding photos using RoboGeo and Trimble Nomad shapefile waypoints and/or tracklogs

Sara Gottlieb  
August 27, 2008

1. In the shapefile containing the photo points, add the XY coordinates in GCS WGS84 (xtools)
2. Make sure the shapefile has a field containing the photo identifier or something that will help you match the photo point to each photo
3. Export shapefile table to excel (xtools) with the following fields in this order: Y (Long), X (Lat), Photo ID
4. Save the excel table as a .csv file
5. Open gpsbabel GUI and convert the .csv file to a .gpx file (you have to specify the .gpx extension)
6. Make sure all the photos you want to geocode are in a location with a short pathname on your hard drive (i.e. C:\Photos)
7. Open RoboGeo and follow the steps:
  - a. Step #1 Select the folder containing the photos
  - b. Step #2 Geocode From GPS waypoints (if you want to manually assign photos to photo points)
    - i. Select GPX button and Get Waypoints from the .gpx file you created in step 5
    - ii. Go through the photos and match them to the waypoint in the window in the upper-right hand corner of the matching dialog. You should see your photo identifiers listed in there.
  - c. Setp #3 Choose what you would like to do with the geocoded photos. I recommend writing the location data to the EXIF headers before doing anything else.

\*\*\*\*\*

TIP: You can save your RoboGeo project and finish geocoding photos at a later time  
NOTE: The program will make changes to your photos (changing the EXIF data or printing the lat/long on the photo if you choose those options) so you may want to work only with a copy of your original photos, JUST IN CASE.

Online Help: [www.robogeo.com](http://www.robogeo.com)  
[www.gpsbabel.com](http://www.gpsbabel.com)  
[www.xtoolpro.com](http://www.xtoolpro.com)