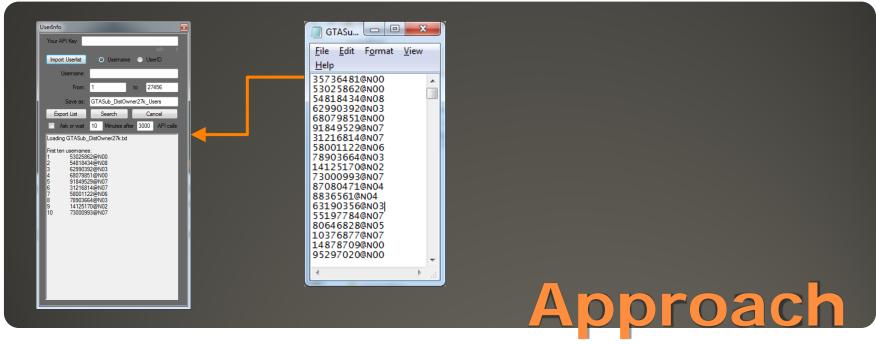
## Workshop part 4: User origin

 What is the origin of photographers who took photos in an area?



- Some users provide information on their origin within their public profile (about 40% to 50% of users)
- This information can be retrieved using the Flickr API, based on a list of users
  - (e.g. from a specific photo dataset)
- For retrieving User information from Flickr, first **Dissolve**UserID and save list as \*.txt file
  - Import list to GetGeo.exe / UserInfo Tool, and retrieve data

J	Location	
	Toronto	
	Toronto, Canada	<
4	New York, NY, United States of America	E
	Ashtabula, Ohio	1
	Toronto, Canada	
	Niagara Falls, NY, United States	
	San Francisco	<
	Vancouver, Canada	
	Mississauga, Canada	
	Toronto, Canada	1
	Vancouver, Canada	
	England	
	Porto Alegre, Brazil	E
	Toronto, Canada	
	Canada	
	Canada	
	San Francisco, CA, USA	
	Unionville, Canada	<
	Canada	

## Geocoding data

- To map data in ArcGIS, user information must first be geocoded (converted to coordinates)
  - This has been done for the GTA photo data, open BasemapLayout\_World.mxd and go to next slide, otherwise follow steps below...
  - The accuracy of the information varies to a large degree (street level to state level accuracy)
    Some information can not be geocoded
    - ("I live somewhere in the desert")
    - Several services offer free geocoding,
  - for example Bing Maps API; 1. register for Bing API Key, 2. dissolve user location list, and 3. geocode this list (e.g. http://www.gpsvisualizer.com/geocoder/)

