using tools: gis processing
due in 2 weeks

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1. use at least **5 different tools** covered in adv_q1.pdf and adv_q2.pdf and/or some tool we did not cover. By tool I mean most of the tools found under menus: Vector, Raster, MMQGIS, Processing. Also many Plugins would qualify. Ask if in doubt. The idea is that you use some gis processing, that is, you'll transform data in some way or produce some new data. For instance: geocoding, sql selection, spatial join using centroids.

2. prove (typically with maps) that you have used the tool–say show a map with original and dissolved polygons; a map showing counties that satisfy some sql query and original map

note! now new in directions below: "tell us the story: briefly (say a sentence or few sentences) interpret each map"

GENERAL NOTES (always the same):

ALWAYS SUBMIT:

- the maps(s) (pdf), can be combined in one file with "metadata" and "journal"
- all data: raw gis data (e.g. .shp .dbf and .shx and others if any), and any other data (e.g., .csv, .xls) that you used to produce a map
- "metadata" (pdf or txt) containing at least: what is U/A; # of obs; data source name, including url; can combine with "journal" if you like
- "journal" (pdf or txt) that briefly enumerates (and perhaps explains) steps you've taken, any problems you've encountered

GENERAL IDEAS (binding from PS3, but can try earlier):

- the map needs to be "pretty" (syllabus: pretty.pdf): must have legend, title, cut decimal points, make fonts small, etc
- the map must be "interesting" (syllabus: pretty.pdf, final_project.pdf): ask yourself the "so what?" question; essentially, you need to tell a story with your map–tell us the story: briefly (say a sentence or few sentences) interpret each map
- in addition to submission, you will present the map in class (max 10min; i will cut you off!)
- you have to briefly (say few sentences) discuss distribution(s) of you key variable(s)

TIPS:

- start early; start tomorrow or the day after tomorrow or tonight! otherwise you'll forget it...and then, next week polish it
- use your (gis) data–again, if you do not have dataset, have a look at data_sources.csv from the class, or email the listserv
- you cannot use the data I used in the class (or that I am using in the slides posted on the website for the future classes)
- assignments are due by the beginning of the class by email to me
- the only allowed format for output is pdf and txt (no ms word etc)
- if you choose to work in a group, write down the names of people you worked with; otherwise we'll subtract points

BASICS:

- best make all submissions by emailing me link to your google drive, dropbox, wordpress, etc; you should be able to automatically have google drive grab contents of your directory on your hard drive (`http://www.howtogeek.com/228989/how-to-use-the-desktop-google-drive-app/`; `http://www.pcworld.com/article/3057217/google-apps/how-to-use-google-drives-selective-sync.html`), so submission is almost automatic– just need to email me the link
- if you use google drive or similar cloud storage for submission, make sure it is public and i can read (access) it
- files names must not have spaces
- for big files (that do not fit into email) use something like wordpress or dropbox and give us the link
- do not double-zip (zipped file in a zipped file)
- send only one email as ps submission (do not send many emails with parts of the ps)
- per url's give exact addresses, not just generic (e.g. `http://census.gov`)- i must be able o find it; sometimes there is no generic URL–then give steps: what I need to click