

# joining data and producing pretty and interesting thematic map(s)

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**due in 2 weeks; note from now on, you will present your map in class**

1. : note: may be difficult; start early!
2. produce a thematic map (or maps!)
3. you must map 2 variables (so typically you'll have 2 maps, but can also have 2 vars in one map); these 2 vars must not come from the gis data, but you must join them from traditional data sets from 2 different places; if you cannot find such data, email me; again, to repeat, regular (say csv) data has to come from 2 different files, say FBI and Census, or say WHO and World Bank, etc; the bottom line is that you have to perform join twice!!

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general notes (binding from ps1) and progressively more important in later ps: focus on making the map(s) interesting and pretty; tell a story; answer the 'so what?' question (see below for elaboration)

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; also can use it to ask questions!

general ideas:

- 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
- in addition to submission, you will usually (depending on how we do on time) present the map in class (max 5-7min (depending on class size); i will cut you off!)

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 me
- 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 in Sakai's dropbox
- 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:

- 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)
- per url's give exact addresses, not just generic (e.g. <http://census.gov>)- i must be able to find it; sometimes there is no generic URL—then give steps: what I need to click