tips, tricks, ethics

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tips and tricks

ethics

research design again: important from now on

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have a big screen

- again, i cannot overemphasize, that
- a big screen is key for gis work
- $\bullet >=$ \$250, probably around \$500
- will get about 20-100% more productive
- o so return on investment in about 50-200hrs (couple weeks)
- o not just size matters but resolution!
- \circ do >= 2k say QHD 2560x1440
- o possibly 4K, say UHD 3840x2160
- and get a nice mouse too

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google for maps; like lit rev!

- depressing, but whatever you are mapping, someone has already done it
- google and see images, say: 'nj counties contamination sites' https://www.google.com/search?q=nj+counties+contamination+sites&tbm=isch
- or "Philadelphia healthy stores map" (sometimes need word 'map' otherwise get pics of healthy food)
- o https://www.google.com/search?q=philadelphia+healthy+ stores+map&tbm=isch
- get ideas, inspiration, make your map better

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google for shapefiles

- eg "what you are looking for, shapefile"
- eg "new jersey public schools, shapefile"
- tips:
- may need to look for a higher level; eg NJ schools instead of Depford Twshp schools
- if you cant find it, contact govt; eg city of Camden, state
 of NJ, etc-they'll be happy you're using their data
- o again, may find only traditional data and need to join

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join data

- the real value comes from joining data!
- again, a map about any single var was already made
- o but 2 or more vars from varied sources: rare
- so many datasets and variables out there!
- o use your creativity and imagination
- o and you'll easily come up with something that no one did

tips and tricks

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it's actually important

- not just some second thought sidenote
- can't look at yourself in the mirror if you lie with maps!
- fine, do consulting, make \$, don't be broke, be happy
- but add 'potential/perceived conflict of interest/funding'
- o do at least some work that's independent

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integrity/honesty

- be explicit about problems in your data
- o eg non-joins, missing data, miscodings
- be explicit about holes in your story:
- o eg don't hide maps bc they contradict your story
- discuss it: how, why; ask audience to comment/criticize
- instead of forcing data to tell your story,
 listen carefully; let data tell you her story!

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ethics

- everybody wants to sell something
- we academics, thinkers, and students, too!
- we try to sell some idea or point of view
- nobody 100% objective
- always try to present alternative/opposite points of view
- present the whole picture
- do force yourself to be objective, because humans aren't
- see eye-opening https://righteousmind.com/

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ethics: bad examples

- cherry picking of vars or samples or timeframes, etc
- o eg using only vars/operationalizations that fit your story
- o eg using year in which you find what you wanted to find
- o classification: playing with bins to fit your story

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tips and tricks

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quality

- GIGO: Garbage In, Garbage Out
- 'Cos it's in the computer, don't mean it's right
- o double, triple check
- o ask yourself if it makes sense...
- o (Camden richer than Cherry Hill?)
- and who produced the data? Trust US or Indian govt?
 Bias in what direction?

- construct validity
 are you measuring what you say you are measuring?
 say want IQ, but you only have education data
- http://www.socialresearchmethods.net/kb/constval.php
- seven sins map
 http://2.bp.blogspot.com/_R3SXJVojagU/SwLzZJL1E2I/
- AAAAAAAAIE/7GbMzcZPDDk/s1600/sevendeadlysins.bmp
 o https://creativeclass.com/whos-your-city/maps/
 - #Personality_Maps
- o https://scholar.google.com/citations?user=
- TZ9YLMoAAAAJ&hl=en&oi=ao
 https://creativeclass.com/whos-your-city/maps/
 - #The_Singles_Map
- o how measure singles? polygamy, cheating, etc

triangulate

- use several datasources and or several variables to measure the same thing (triangulation)
- triangulation=use different measures for the same concept
- eg education:
- years of schooling
- o highest degree obtained
- o avg SAT score
- avg ranking of schools in the area
- o etc etc

external validity

- are your data representative ?
- how big is the sample ?
- eg I was geocoding WVS at province level only to find out it was unrepresentative

its geo, but time matters too

- *POP*10 − *POP*00
- $\circ (POP10 POP00)/POP00$
- another time issue is that things change, say business cycle
- o use say avg. 5-yr unemployment rate

make maps, find things; go there see with your eyes

- drove through MI from TX to NJ to see lowest lexp
- went to Pine Bluff AR to see fastest shrinking town
- map a place you grew up, or where you want to live etc