tips, tricks, ethics

adam okulicz-kozaryn adam.okulicz.kozaryn@gmail.com

this version: Friday 13th October, 2023 12:16

tips and tricks

ethics

research design again: important from now on

tips and tricks

ethics

research design again: important from now on

tips and tricks 4/1

have a big screen

- again, i cannot overemphasize, that
- a big screen is key for gis work
- it's \$100

and get a mouse (folium later)

tips and tricks 5/1

google for maps

- 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

tips and tricks 6/19

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

tips and tricks 7/3

join data

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

tips and tricks

tips and tricks

ethics

research design again: important from now on

ethics 9/1

integrity/honesty

- be explicit about problems in your data
- o eg non-joins, missing data, miscodings
- be explicit about problems in your models:
- 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!

ethics 10/19

ethics

- everybody wants to sell something
- we academics or thinkers or 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
- force yourself to be objective, because humans aren't
- see fascinating https://righteousmind.com/

ethics 11/19

ethics: bad examples

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

ethics 12/1

tips and tricks

ethics

research design again: important from now on

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...
- (Camden richer than Cherry Hill?)

construct validity

- are you measuring what you say you are measuring?
- say you want measure ability, or IQ, but you only have data about education
- http://www.socialresearchmethods.net/kb/constval.php
- seven sins map

```
http://2.bp.blogspot.com/_R3SXJVojagU/SwLzZJL1E2I/AAAAAAAAIE/7GbMzcZPDDk/s1600/sevendeadlysins.bmp
```

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

time matters, too

- we are exploring spatial variation
- but there is also time variation
- usually it is nice to show time changes in your maps
- eg can display a variable as a difference say
- \circ POP10 POP00—which county gained most population (let's do it with nj_counties)
- other time issue is that things fluctuate over time, say due to business cycle
- if you want to show a more reliable estimate take an average
- o say avg. 5-yr unemployment rate

go places

 when you make maps and find things, go and visit that place—i drove through MI from TX to NJ