intro

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intros (others overlap? collaborate!)

about myself http://theaok.github.io

- what do you research?
- ousing any data or want to find any data?

outline

why?

what is GIS?

general overview; approach and policies

<u>outline</u>

why?

what is GIS?

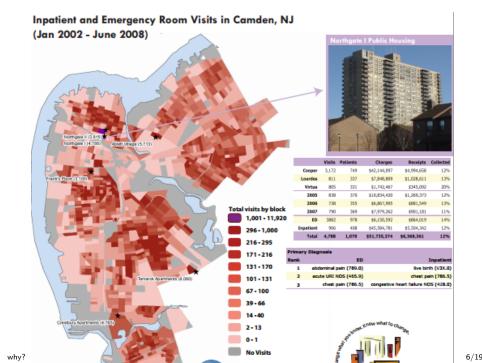
general overview; approach and policies

why? 4/1

a general thought about maps

- maps are always useful
- no matter what you study it always takes place somewhere and place matters
- so you should use maps for whatever you study in *all*
 other classes
- and all other projects outside of school
- it will always help with understanding of what is going on

why? 5/19



why GIS in social science?

- local government
- zoning, public works (streets, water supply, sewers),
 garbage collection, land ownership and valuation, public safety (fire and police)
- federal/state
- onatural resource management
- ohighways and transportation
- any academics: "no matter what you study it takes place somewhere" (place always matter)
- operhaps esp public health/epidemiology and criminology

why? 7/19

why GIS?

- businesses
- o retail site selection & customer analysis
- ologistics: vehicle tracking & routing
- o natural resource exploration (petroleum, etc.)
- ocivil engineering/construction
- so you see that you can do a lot with GIS
- yes, it gives you specific, marketable job skills

why?

<u>outline</u>

why?

what is GIS?

general overview; approach and policies

what is GIS?

what is there?

- GIS Geographic Information Systems
- o Geographic: Cities, Roads, Rivers, Countries, etc
- o Information Systems: data, software, programming,
- olike MIS (Management Information Systems) or IT
- GIS=CS(graphics, database/sys adm, coding)+geography
- really, much of the GIS is data management
- geographic=geospatial=spatial (synonymous)

what is GIS?

past and future

- much of the gis has been (still is) done with ArcGIS/ArcMap
- othis is more of a dinosaur, however
- the future is open source software like QGIS
- and internet companies like Google

what is GIS? 11/19

outline

why?

what is GIS?

general overview; approach and policies

2 keys to success

- start early on ps
- ask questions

approach

- you are encouraged to collaborate (prep for class, ps, paper)
- software class! applied, data-driven
- free to choose data/topics as long as relevant to the class
- obring your own data; kill 2 birds with one stone
- o you need data (with geo: address, city, county, etc)
- don't worry, as long as you have any research interest,
 you are likely to find data about it
- owe'll go over data sources in few classes

ps tips

- important: people never follow it
- start early
- late ps *not* accepted
- ask questions early!
- odo not hesitate to ask questions
- othere are no "silly" questions
- oit is normal to get stuck and ask questions when learning new software
- in class: ask questions / tell me to go slower if needed (i have an impression that i go too fast sometimes)

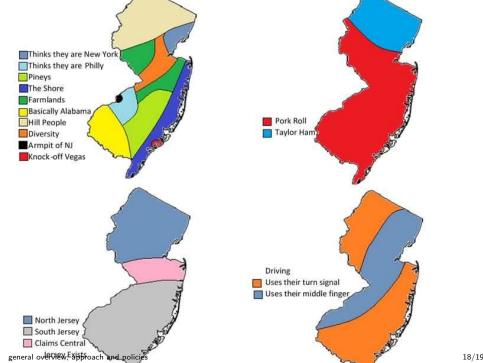
ext cre opport $\leq 10\%$ of final grade; harsh grading!

- present sth not covered (has to be GIS, of course)
- present alternative way of doing sth that we have covered
- civic engagement: check out these
- •https://cpachvi.org/about/homeless-services/:
 SJ: homeless, poverty
- •http://www.laeda.com: camden small businesses
- https://rand.camden.rutgers: SJ: health, etc
- •http://virtua.org: SJ: health

maps are fun! (at the end if time!)

- let's look at some interesting maps
- osee patterns that cannot see otherwise
- oabsorb easily lots of information
- ocompare easily
- https:

//digg.com/2020/which-state-hates-which-state-map



the big sort

- "The big sort why clustering of like-minded America is tearing us apart"
- America polarizes by county (counties are becoming either R or D)
- http://www.thebigsort.com/maps.php