intro

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intros (others overlap? collaborate!)

- about myself http://theaok.github.io
- what do you research?
- using 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?

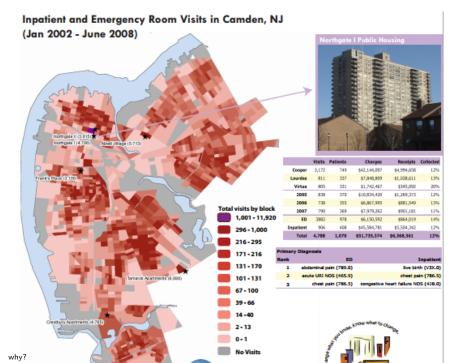
general overview; approach and policies

why? 4/15

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? 5/15



why GIS?govt (local, intl, etc)

why?

- zoning, public works (streets, water, sewer, garbage, land ownership/valuation, public safety (fire and police)
- natural resources (oil, gas, coal, etc)uni: "no matter what you study, it takes place somewhere"
- businessesretail site selection & customer analysis
- logistics: vehicle tracking & routingnatural resource exploration (petroleum, etc.)
- civil engineering/constructionso you see that you can do a lot with GIS
- so you see that you can do a lot with GIS
 yes, it gives you specific, marketable job skills

<u>outline</u>

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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,
- like 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
- o this is more of a dinosaur, however
- the future is open source software like QGIS

what is GIS? 10/15

outline

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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
- o bring 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
- we'll go over data sources in few classes

ps tips

- important: people never follow it
- start early
- late ps *not* accepted
- ask questions early!
- o do not hesitate to ask questions
- there are no "silly" questions
- it 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 5% 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
- http://virtua.org: SJ: health

what data?

- passionate about
- quality/quanity easily available
- career advancement in future [can also just start with data from current workplace]