#### intro

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## intros (others overlap? collaborate!)

- about myself http://theaok.github.io
- what do you research? (or interested in?)
- 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?

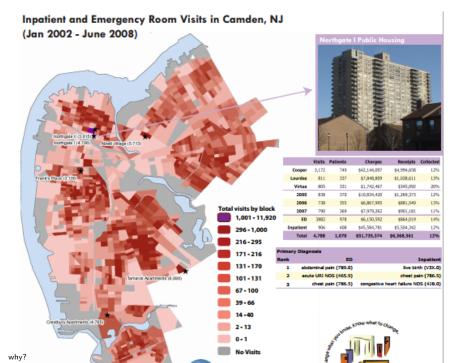
general overview; approach and policies

why? 4/1

## a general thought about maps

- maps are (almost) always useful
- no matter what you study, it takes place somewhere and place matters
- so use maps for whatever you study in other classes
- and all other projects outside of school
- it will help with understanding of what's going on

why? 5/13



# why GIS?govt (local, intl, etc)

business

- 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"
- retail site selection & customer analysislogistics: vehicle tracking & routing
- o natural resource exploration (petroleum, etc.)
- civil engineering/constructionyou can do a lot with GIS!

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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

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 opensource like Python

what is GIS? 10/13

### outline

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#### approach

- 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)
- o have research interest? you'll find data about it!
- o we'll go over data sources in data.pdf

#### what data?

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