

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

outline

why?

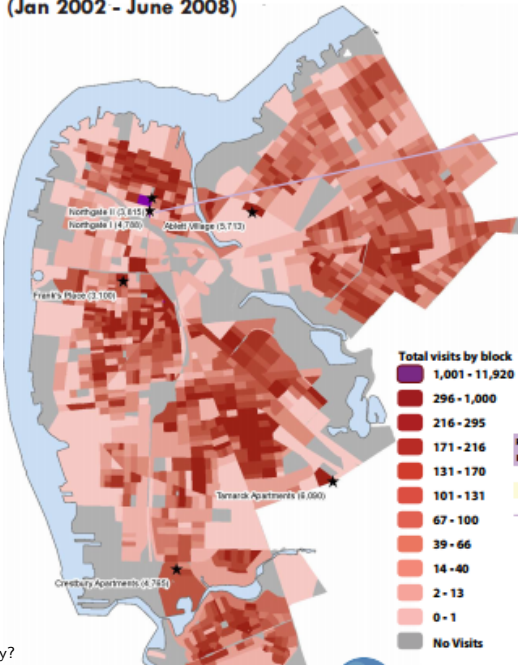
what is GIS?

general overview; approach and policies

a general thought about maps

- maps are (almost) always useful
- no matter what you study it (always) takes place somewhere and place matters
- so 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

Inpatient and Emergency Room Visits in Camden, NJ (Jan 2002 - June 2008)

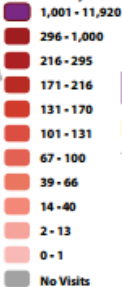


Northgate I Public Housing



	Visits	Patients	Charges	Receipts	Collected
Cooper	3,172	749	\$42,144,897	\$4,994,658	12%
Louder	811	337	\$7,848,809	\$1,038,611	13%
Virba	805	331	\$1,742,467	\$345,092	20%
2005	838	370	\$10,834,420	\$1,268,373	12%
2006	738	355	\$6,867,995	\$883,549	13%
2007	790	369	\$7,979,262	\$903,181	11%
ED	3882	978	\$6,150,592	\$864,019	14%
Inpatient	906	408	\$45,584,781	\$5,504,342	12%
Total	4,788	1,070	\$51,735,374	\$6,368,361	12%

Total visits by block



Primary Diagnosis

Rank	ED	Inpatient
1	abdominal pain (789.0)	live birth (VIX.0)
2	acute URI NOS (465.9)	chest pain (786.5)
3	chest pain (786.5)	congestive heart failure NOS (428.0)



why GIS?

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

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what is there?

- GIS Geographic Information Systems
 - Geographic: Cities, Roads, Rivers, Countries, etc
 - 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)

past and future

- much of the GIS has been (still is) done with ArcGIS/ArcMap
 - this is more of a dinosaur, however
- the future is open source software like Python

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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
- bring your own data; kill 2 birds with one stone
- 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

what data?

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