class wrap up

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summarize the class

- the big picture overview
  - what we did what it means etc, circle back to intro class

ps6/final project

- do not overcomplicate!
  - better to have simple clean vis that does the job
  - than messy complex fancy vis

ps6/final project

- explain your vis!
- interpret things! (comment or text box)

ps6/final project

- google vis!
- check if someone already did it
- and build on others work! ie copy and adapt and improve

get into flow with programming!

https://en.wikipedia.org/wiki/Flow_(psychology)

publish or perish

- vis is fun
- but don't lose the end goal from your sight
- your end goal is a publication
- 'keep article pipeline full'
  - at any time i have at least 3 articles under review
- how about you? submit paper right now!
  - start simple, even just some vis...but keep on submitting papers

super important! remember this!!

- publishing (and maybe conferences) is
  the only way to get in touch with
  people exactly in your area
- there's just a handful of them,
  - almost never at you university, sometimes at a conference
  - usually at a journal where you submit;
    (if you pick the right one, almost always at a journal)
- this is *the only way* to take your work to next level!!
  - takes time; start now; otherwise may never make it
- and can just put online, eg ssrn or arxiv etc

likewise for non-academia: for-profit and non-profits

- may try to get in touch with people who do similar work/analysis
- again, first step is just to google what youare doing with keywords 'visualization' 'python' etc, and look at code and images; like lit rev in academia

in general: make it public, show to stakeholders

- the worst thing you can do is to keep it in a drawer
- when you share it (locally/globally)
- you get ideas and directions
- become part of decision making
- find mistakes and misconceptions
  - eg i came to nj from tx and knew nothing about nj
  - and i'm presenting to like 100 new jerseyans, and p27:
- `https://rand.camden.rutgers.edu/2018/01/09/changes-across-the-region-people-economy-and-w`
  - saying Cape May county alcoholics
  - and someone gets up and says no, its few older folks there
  - and youngsters from elsewhere coming and drinking
  - so liquor store per capita is high but not because locals

protect your organization

- just remember (rightfully so) each organization is scared to get hit on the head with their own data
  - so they're scared to share data and make it public
  - so make sure you'll deidentify it! and maybe fake it too! say on github your org is in chickasaw county mississippi!
  - and do not share any org specific info
  - in addition to deidentyfying stuff like dropping geo locations, may take random sample of the data

use vis in other classes and thesis; and merge!

- again, merge with other data
- it could be thesis/dissertation
- often time great insight come from relating data from variety of sources eg `https://freakonomics.com`

GIGO: dont trust anybody! esp ur org

- say if you have data from census, many people use and probably found most mistakes and fixed it
- but your organization's data–probably nobody is looking at these data or very few people
- so almost for sure there are many mistakes and problems
- eg just mistake-mistake age of 20 miscoded as 200 or zip 08102 coded as 8102
- or problems: data not representative, missing data, etc etc
- in addition to vis do:
  - info()
  - value_counts(dropna=False)

future research

- you've probably realized that i am into Python and data
- and always happy to discuss them
- let's stay in touch!

make $

- industry data jobs usually require SAS, SQL, Python, R
- a ton of data science jobs:
  - `http://www.icrunchdata.com/`
  - `http://www.cybercoders.com/`