basic organization and documentation

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datasets of the day

- climate! (easy access!)
- o https://wonder.cdc.gov/EnvironmentalClimateData.html
- religion!
- O http://www.thearda.com/Archive/Files/Descriptions/RCMSCY10.asp
- http://www.thearda.com/Archive/Files/Descriptions/RCMSCY.asp
- O http://www.thearda.com/Archive/Files/Descriptions/CMS90CNT.asp
- O http://www.thearda.com/Archive/Files/Descriptions/CMS52CNT.asp
- more: http://www.thearda.com/Archive/Browse_s.asp?pg= Browse_s.asp&sr=0&m=31&t=Search%20Data%20Archive&
 - searchterms=county&p=B&c=N

• state level policy https://www.statepolicyindex.com/data/

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replication: dofile: raw dat -> final results

- always keep raw data intact
- then manipulate it and save, even several times
- will have few dats at different stages
- can begin stata session at any stage
- blackboard: draw workflow

files in general singularity rule

- always one version of a dofile or datafile in one place
- if you have 2 versions of the same file
- o sooner or later there will be problems!
- o you will update/change one, but forget the other one, etc

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- exception is backup; but you never edit the backup!
- and you're all set because GIT does it all for you :)

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code in general singularity rule

- just like with files, so with code:
- have the same chunk of code only in one place
- if you have code that does the same thing multiple times (in same or many dofiles)
- o then it is time to build some hierarchy and have
- o some parent and some child dofiles
- o typically, a parent will do something basic and generic
- and then different children will pick up the data from parent and each will be doing something differently
- blackboard: draw diagram/flow chart

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hierarchy of dofiles / branching

- we often use same data for many projects (eg GSS)
- need one dofile that makes data ready for multiple projects
- it processes raw data and saves it in usable format (recode, label, calculate new vars, etc)
- o and then always start from there for each new project
- o and do your project specific analysis

datafiles: hierarchy / branching, too

- never overwrite the original datafile, and have datafiles at different stages esp if data complex:
- rawFile— >file1— >file2 —and those are produced by: dofile0— >dofile1— >dofile2 (or subsequent sects in one dofile)
- dofile0 will be common for all projectsbut there may be: dofile1A and dofile1B for projects A abd
- but there may be: dofile1A and dofile1B for projects A about
 B
- o dofile0 may have 2 children: dofile1A and dofile1B
- likewise, rawFile may have 2 different children file1A and file1B

backup

- backup all files at least once a week—computers break regularly; flash drives break really often
- have automatic system for backups (i use cron)
- o otherwise you'll forget
- just keep copy of everything in the cloud, goog, amzn, etc

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sections, subsections

- dofile should have a multi-layerd structure
- o like chapters, sections, sub-sect in book
- for different levels, use different kinds of comments: box, block, one line, horizontal line, etc

type them in dofiles and scroll down to already existing

- now i just use '***', '**', '*', '//'
- o i used to use —— (still in dofile)
- definitely use "FIXME" "LATER" "KLUDGE" etc

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general

- naming and labeling looks like waste of time
- but at the end saves time
- importantly, it prevents mistakes/misinterpretations
- \circ especially, if a project is big and/or you share it with others
- o or if it takes long time

variable names, labels, and value labels

- variable name is...a variable name, eg educ
- var lab describes var, eg "highest degree completed"
- note is like label, except it can be>80 chars
- eg put there full svy question: "how would you describe highest level of your education?"
- value label describes values that a variable takes on
- o (output of codebook, or tab and tab, nola), eg:
- "primary school" 1
- o "high school" 2
- "college or university" 3
- dofile

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labels tips

- give variables short names, eg inc
- labels, on the other hand should be descriptive, eg "2004 hh income"
- labels prevent confusion later and for others
- they automatically appear on graphs, regressions, etc.
- use lookfor, especially if you have many variables
- be lazy (remember it's our core value)
- only label what is necessary
- \circ indeed, only keep data and variables that are necessary

o you have the code, so you can always add back in later

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more tips on var names

- i dont like '_' anymore
- i just use Caps to denote words, eg
- hhlnc as opposed to hh_inc; i guess it's cleaner
- and typicaly i have 3 letter var namees 'swb'
- or 6 letter that combine 2 words: say menHea for mental health
- but do whatever is natural to you!
- o and is simple clean and consistent