ps3; **due in 2 weeks**

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Either use your own data or auto data **sysuse auto, clear** or data from previous classes.

1. produce some relevant descriptive statistics–submit interesting/relevant results, not all the permutations you can think of
2. we will run some nonlinear models–ideally they should make sense–there should be some theory/logic for nonlinear effect!
3. run 5 different bivariate regressions in stata: lin-lin, log-lin, lin-log, and log-log, and quadratic, and interpret them (use full sample)
4. run one multivariate regression and interpret at least 2 slopes using confidence interval

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general directions (always the same):

- if asked to do sth by hand and you subset your data to few obs to do that, say 4 obs, do all the other stuff like descriptive stats for the full sample–it is way more interesting!
- when doing things by hand, show all the work, all the steps
- make it as easy on yourself as possible: round up numbers! simplify!
- if you calculate any meaningful number, say slope coefficient or t-stat, always interpret it!
- preferably use txt or pdf formats; doc(x) often messes up formatting
- do not submit more than 10 pages of the output (12pt font, single spaced)
- submit into the Sakai's dropbox; ps are due by the beginning of the next class unless indicated otherwise, eg "due in 2 weeks"; late ps are not accepted; if your writing is legible you can write by hand and then take a picture and submit that
- we are on the way to developing the final project with these ps: as we progress, your ps should start resembling a coherent and logical project where you use regression to answer interesting questions–say in few sentences why are you doing what you are doing–that is, answer the "so what question": what's the goal of all that, why are you doing this? you need a compelling justification for what you are doing; be brief, say couple sentences
- always submit dofile if you calculate anything in stata; because you are only submitting code (do not submit any datasets), it must load data from Internet–just put your data onto your own website, wordpress, google drive, etc
- always, cite your data (at minimum full name and url (if applicable))