log using "Lab Notes 5", replace text

spex anes\_timeseries\_cdf

\*\*\*Today we will be covering three topics- Anova, multiple regression, and///

\*\*\*table creation\*\*\*

\*\*\*The command is oneway depvarname indvarname for a oneway anova\*\*\*

\*\*\*The command is anova depvar indvar1##indvar2 for a twoway (and on) anova\*\*\*

\*\*\*First, lets clean up our variables\*\*\*

tab VCF0104

gen female=.

replace female=1 if VCF0104==2

replace female=0 if VCF0104==1

label var female "Female"

tab VCF0110

recode VCF0110 0=.

rename VCF0110 education

label var education "Education"

gen BA=.

replace BA=0 if education==1

replace BA=0 if education==2

replace BA=0 if education==3

replace BA=1 if education==4

label var BA "Bachelors"

tab VCF0253

recode VCF0253 98=.

recode VCF0253 99=.

rename VCF0253 Feminist\_ft

label var Feminist\_ft "Feelings About Feminists"

oneway Feminist\_ft female

anova Feminist\_ft female

anova Feminist\_ft female##BA

esttab using anovamodel.rtf, label nonumber title("Anova Output") ar2

\*\*\*Multiple Regression is very similar to bivariate regression, with the///

\*\*\*Obvious caveat that you have multiple independent variables\*\*\*

\*\*\*Do not forget your OLS regression assumptions\*\*\*

\*\*\*Chiefly, you need a CONTINUOUS DEPENDENT VARIABLE\*\*\*

\*\*\*Further, remember what you are assuming with the effect of x1 and x2 on y\*\*\*

\*\*\*To make things easier with ANES, just use the feeling thermometers\*\*\*

\*\*\*First, we will recode our variables\*\*\*

tab VCF0213

recode VCF0213 98=.

recode VCF0213 99=.

rename VCF0213 Military\_ft

label var Military\_ft "Feelings About Military"

tab VCF0803

rename VCF0803 ideology

label var ideology "Ideology"

\*\*\*Remember our syntax for regression is reg depvar indvar1 indvar2 indvar3\*\*\*

reg Military\_ft ideology education female

\*\*\* Next, we're going to do a residuals plot of leftovers in our estimation.

rvfplot

\*\*\*Next, we're going to get standardized regression coefficents.

listcoef

\*\*\* This website is a useful resource in interpreting and understanding this command. http://www.ats.ucla.edu/stat/stata/webbooks/reg/chapter1/statareg\_annotated3.htm

\*\*\*Now we must create a publication quality regression table\*\*\*

\*\*\*We can make this into a publication quality table with esttab\*\*\*

esttab, label nonumber

\*\*This is the basic command, but we can play with it\*\*\*

\*\*\*You can specify a title, report z instead of t statistics///

esttab, label nonumber title("Regression Model One") z

\*\*\*You can also specify different values for the significance stars\*\*\*

esttab, label nonumber star(+ .07 \* .051 \*\* .00001)

\*\*\*Put it all together!\*\*\*

\*\*\*Note, I've added a few things including Adjusted R-squared and standard errors\*\*\*

esttab, ar2 se label nonumber title("Regression Model One") star(+ .05 \* .01 \*\* .001)

\*\*\*We can export this to a word processor by using esttab using filename.rtf, replace\*\*\*

esttab using model1.rtf, ar2 se label nonumber title("Regression Model One") star(+ .05 \* .01 \*\* .001)

\*\*\*Finally, we will try again to have a table of summary statistics\*\*\*

estpost sum ideology education

esttab using sumstats.rtf, modelwidth(12) cell("count(label(Observations)) mean(label(Mean)) sd(label(Standard Deviation)) min(label(Minimum)) max(label(Maximum))") label nonumber nomtitle