Stata FAQ
NJC Stata Plots

This page presents examples of graphics programs written by Nicholas J. Cox (Durham University). You can obtain these programs by typing, findit *command_name*, into the Stata command line and following the instructions (see How can I use the findit command to search for programs and get additional help? for more information about using **findit**). This page is not an exhaustive list of all of the graphics commands written by Nick Cox but merely a collection of the ones that we use most frequently. The command **ssc install njc_stuff** will download two help files listing all programs written by Nick Cox including his graph commands.

This page contains only the commands and the plots themselves, there is no further explanation. We envision that users will look through the plots and when they find one that appears to do what they want, they will download the program and carefully read the help files.

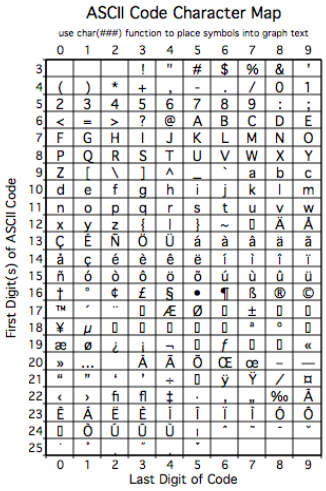
Most of these examples use the **hsb2** dataset which can be downloaded from within Stata using the following command:

```
use http://www.ats.ucla.edu/stat/stata/notes3/hsb2, clear
```

Note: Most of the graphs were produced using the scheme **lean1**. Whenever a different scheme is used, it is given in the command.

asciiplot-- graph ASCII character set in current graph font

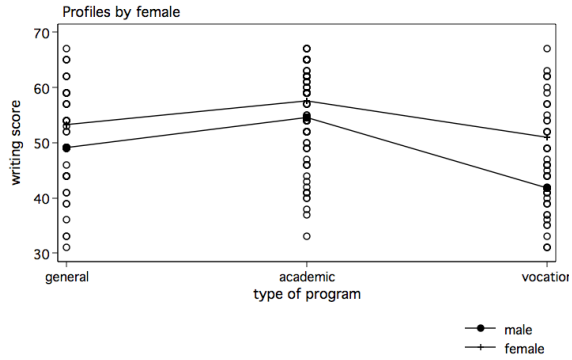
```
asciiplot
```



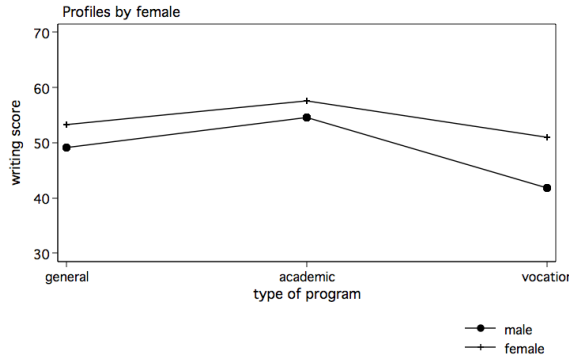
---

anovaplot-- plot cell means following anova

```
anova write female prog female*prog
anovaplot prog female
```



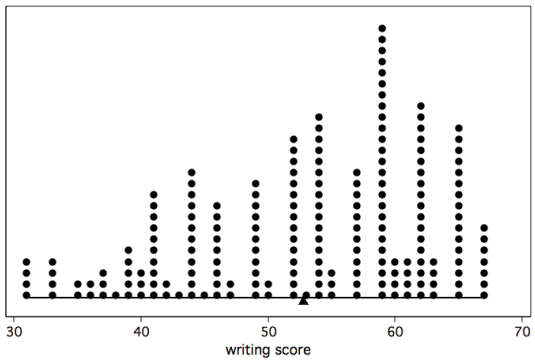

```
anovaplot prog female, scatter(msym(i))
```



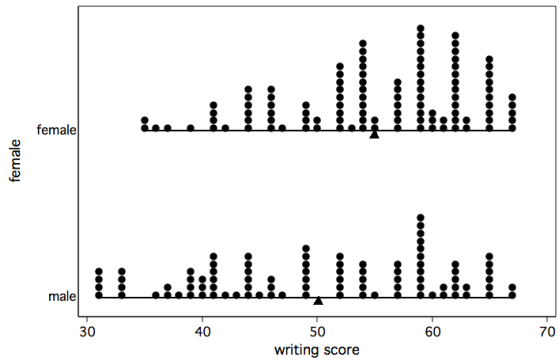
---

beamplot -- horizontal dotplots using beams

```
beamplot write
```



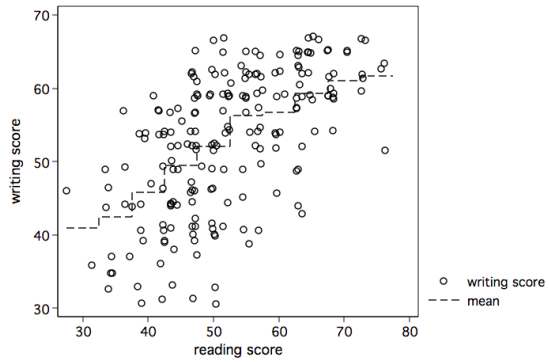

```
beamplotplot write, over(female)
```



---

binsm -- bin smoothing and summary on scatter plots

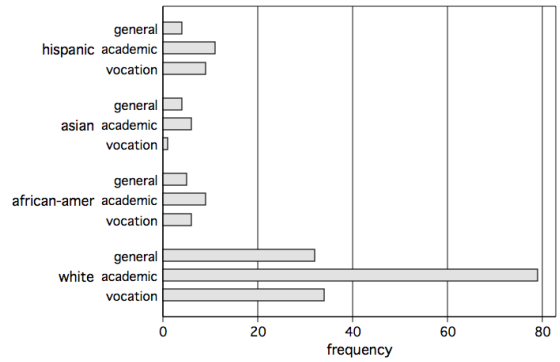
```
binsm write read, width(5) scatter(jitter(2))
```



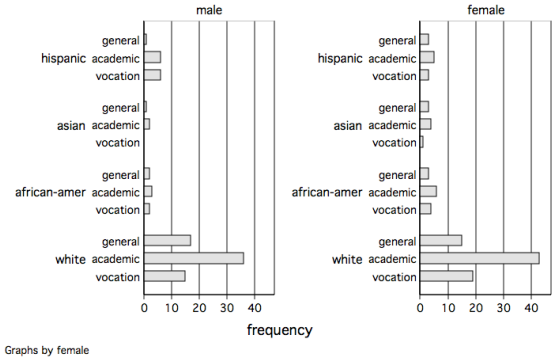
---

catplot -- plots of categorical data

```
catplot prog race
```



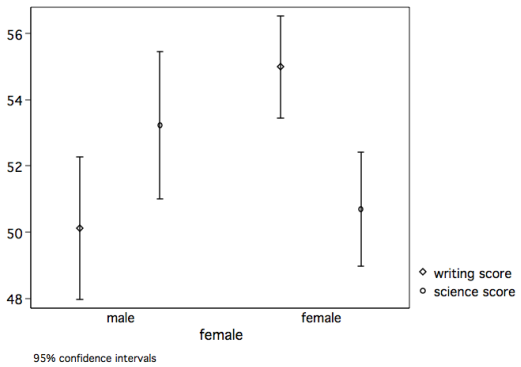

```
catplot prog race, by(female)
```



---

ciplot -- plots of confidence intervals

```
ciplot write science, by(female)
```



---

corrtable -- correlation matrix as graphical table

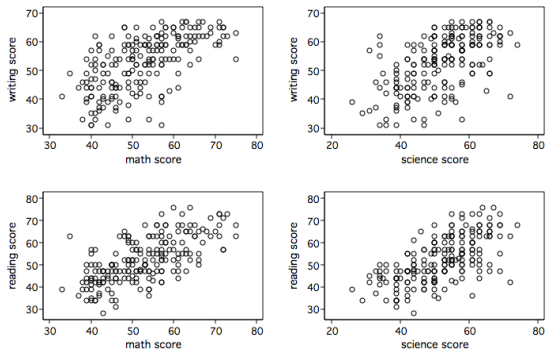
```
corrtable read write math science
```

reading score	0.597	0.662	0.630
0.597	writing score	0.617	0.570
0.662	0.617	math score	0.631
0.630	0.570	0.631	science score

---

cpyxplot -- twoway plots for each y vs each x

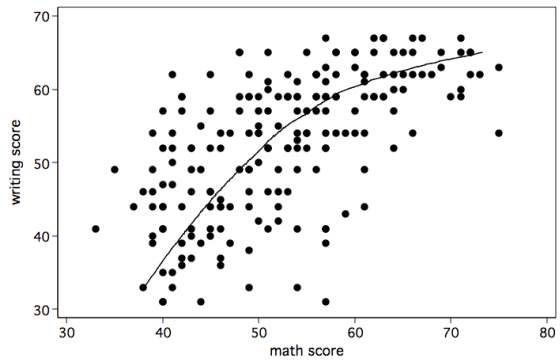
```
cpyxplot write read \ math science
```



---

diagsm -- diagonal smoothing

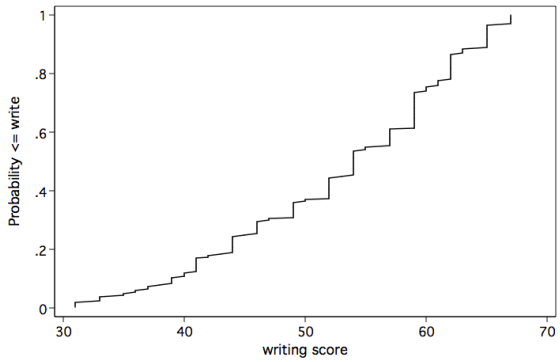
```
diagsm write math
```



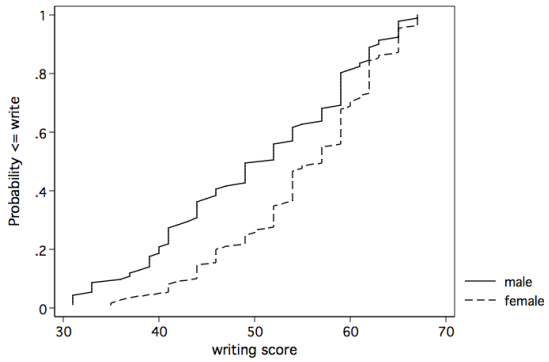
---

distplot -- distribution function plots

```
distplot write
```



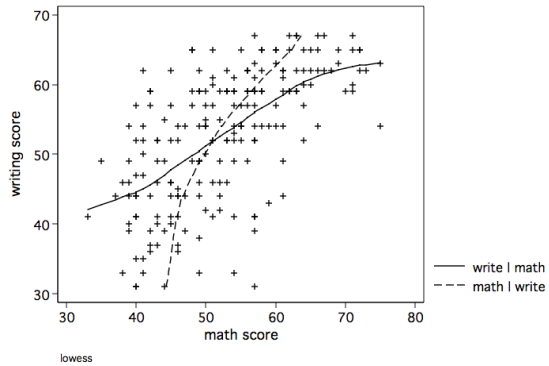

```
distplot write, over(female)
```



---

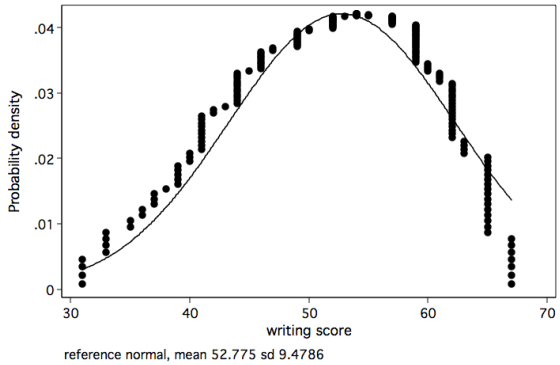
doublesm -- double smoothing

```
doublesm write math
```



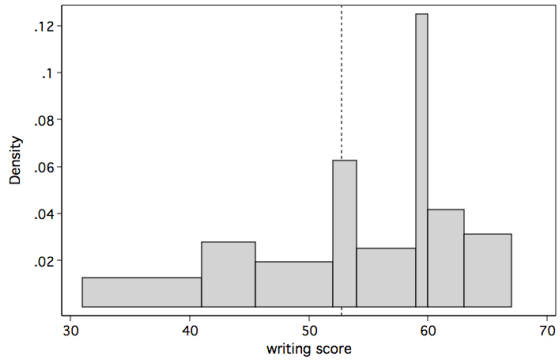
dpplot -- density probability plots

```
dpplot write
```



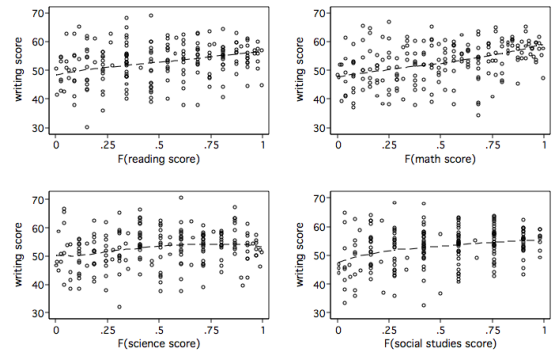
eqprhistogram -- equal probability histograms

```
eqprhistogram write, mean
```



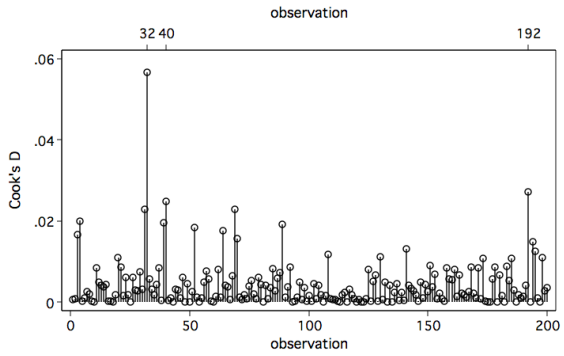
fractileplot -- smoothing with distribution function predictors

```
fractileplot write read math science socst
```

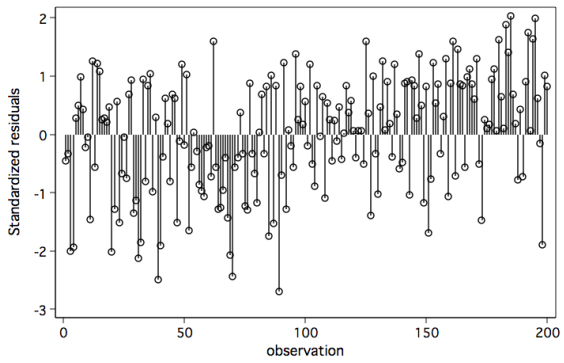


indexplot -- index plots following estimation

```
regress write read
indexplot, show(cooksd) hi(3)
```



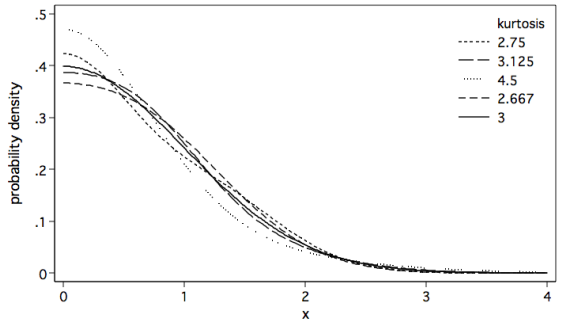

```
indexplot, show(rstandard) base(0)
```



---

kaplansky -- graph examples of distributions of varying kurtosis

```
kaplansky
```

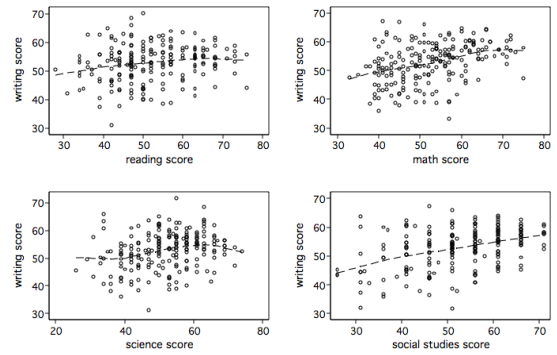


Irving Kaplansky. 1945. A common error concerning kurtosis.
Journal, American Statistical Association 40: 259

---

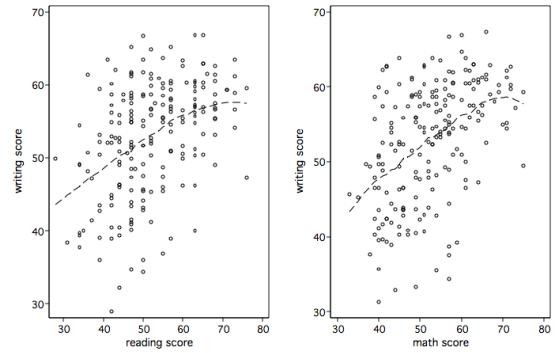
mlowess -- lowess smoothing with multiple predictors

```
mlowess write read math science socst
```



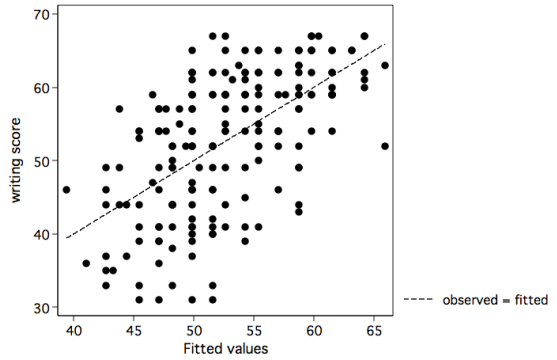
mrunning -- running line smoother (multivariable version)

```
mrunning write read math
```

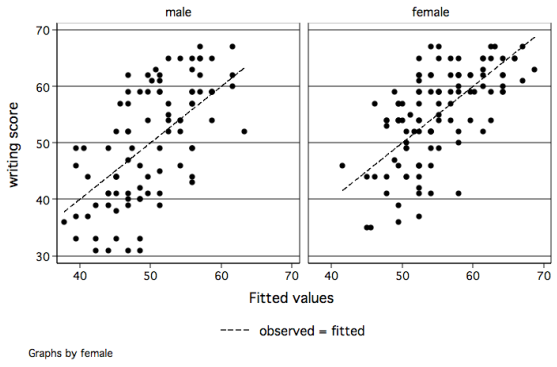


ovfplot

```
regress write read
ovfplot
```

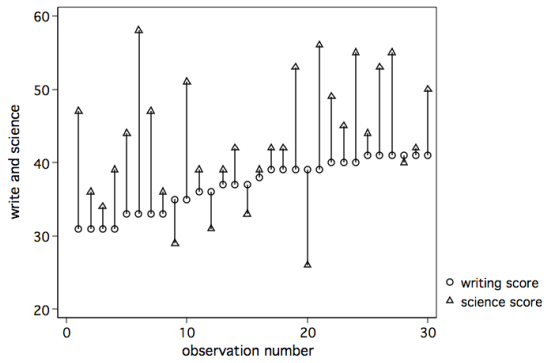



```
regress write read female
ovfplot, by(female)
```

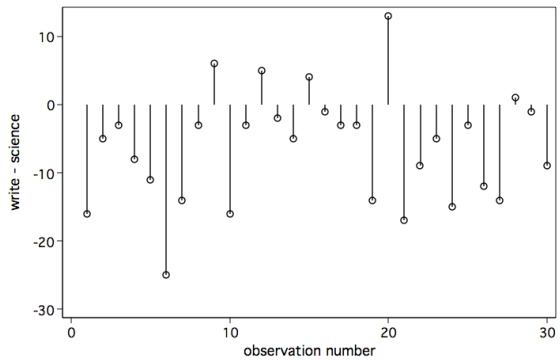


pairplot -- plots of paired observations

```
pairplot write science in 1/30
```



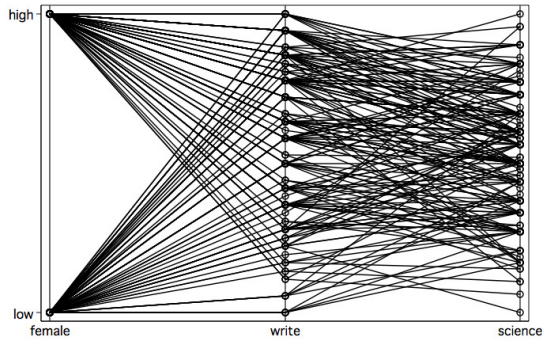

```
pairplot write science in 1/30, diff
```



---

parplot -- parallel coordinates plots

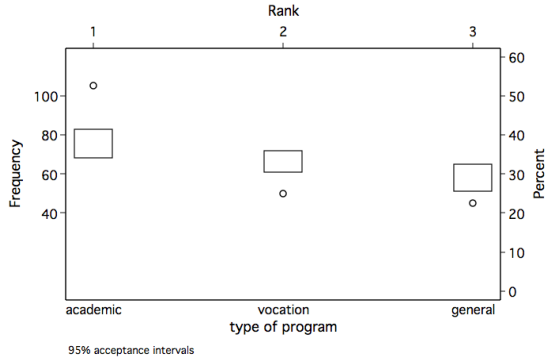
```
parplot female write science
```



---

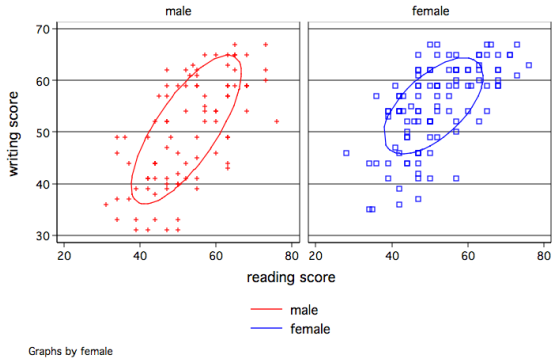
pdplot -- Pareto dot plots

```
pdplot prog
```



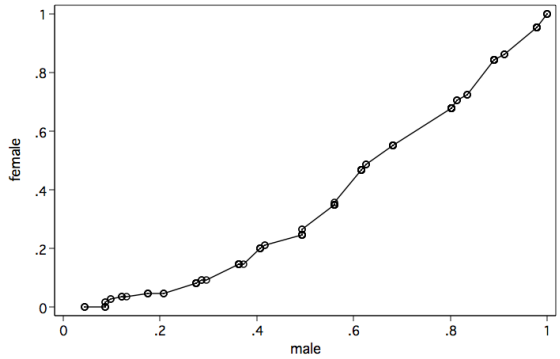
polarsm -- polar smoothing

```
polarsm write read, over(female) by(female)
```

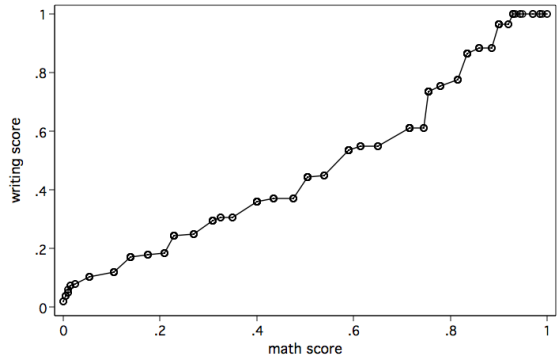


ppplot -- P-P plots

```
ppplot connected write, by(female) ref(0)
```

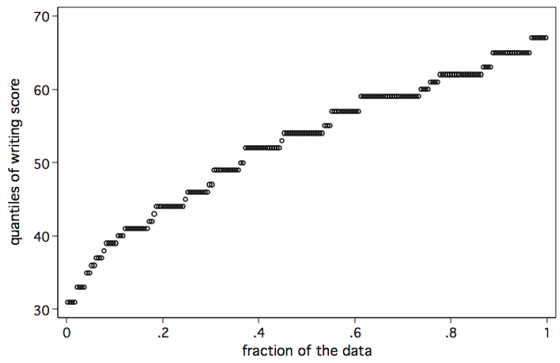



```
ppplot connected write math
```



qplot -- quantile plots

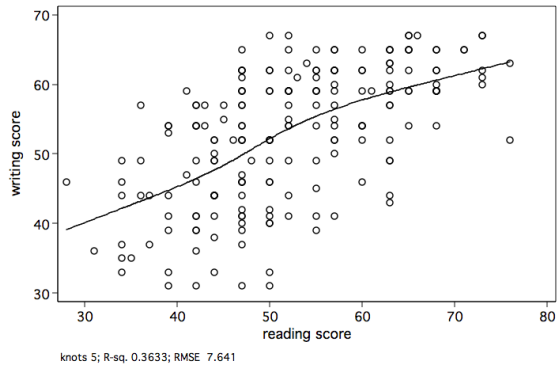
```
qplot write
```



---

rcspline -- restricted cubic spline smoothing

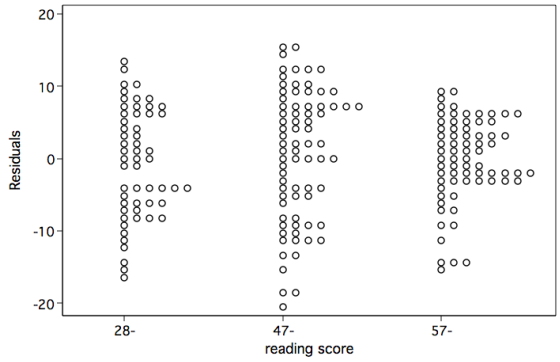
```
rcspline write read
```



---

rdplot

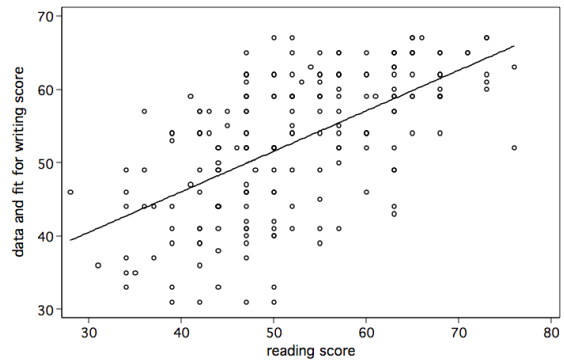
```
regress write read
rdplot, g(3)
```



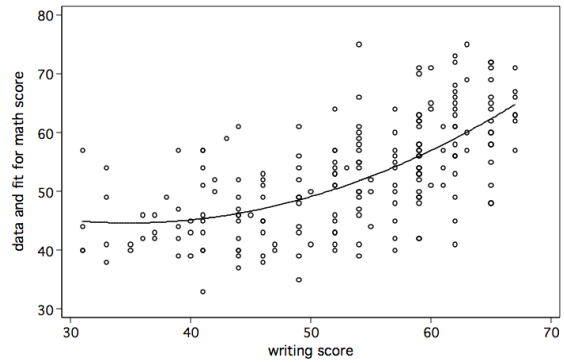
---

regplot

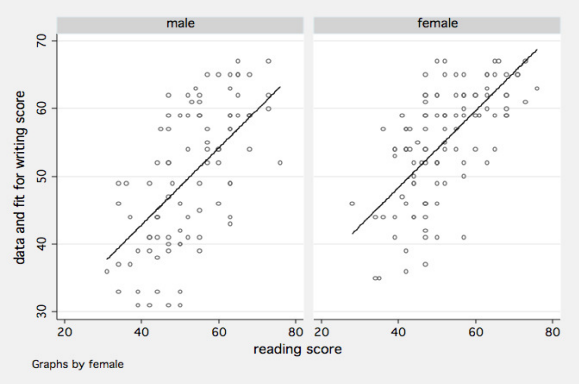
```
regress write read
regplot
```




```
generate write2 = write^2
regress math write write2
regplot
```



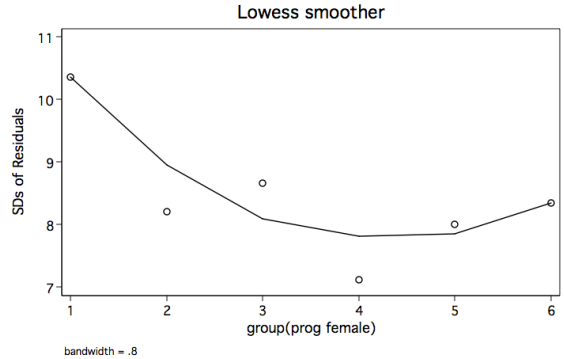

```
regress write read female
regplot, by(female) scheme(s2mono)
```



---

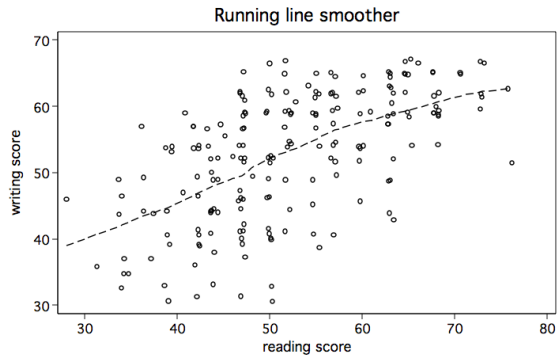
rhetplot

```
regress write read
rhetplot, by(prog female)
```



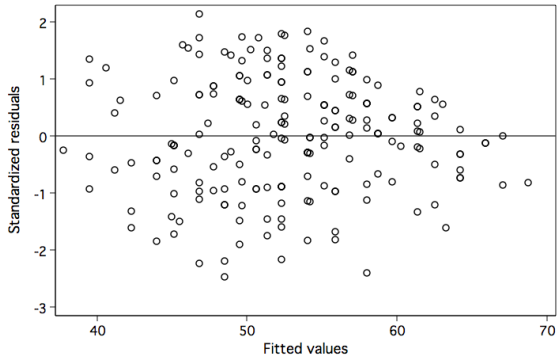
running -- symmetric nearest neighbour smoothing

```
running write read, scatter(jitter(2))
```



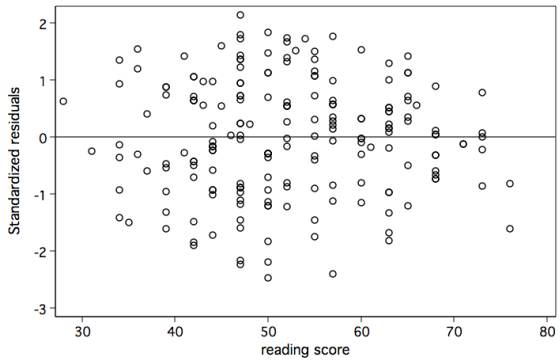
rvfplot2

```
regress write read female
rvfplot2, rstandard yline(0)
```



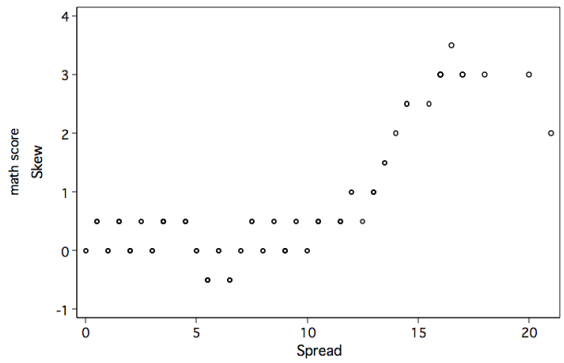
rvpplot2

```
regress write read female
rvpplot2 read, rstandard yline(0)
```



skewplot -- skewness plots

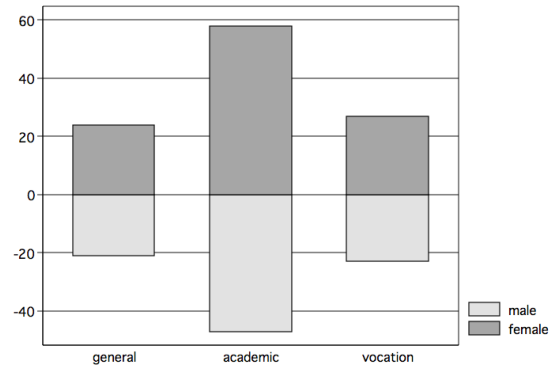
```
skewplot math
```



---

slideplot -- sliding bar plots

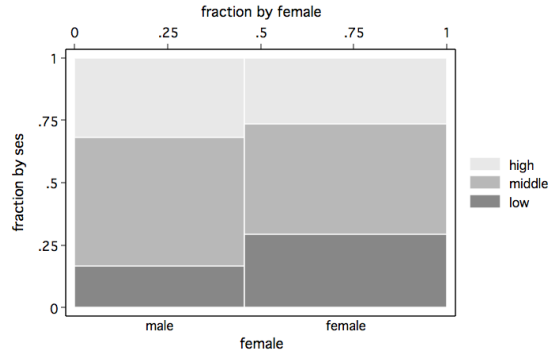
```
slideplot bar female, pos(1) neg(0) by(prog)
```



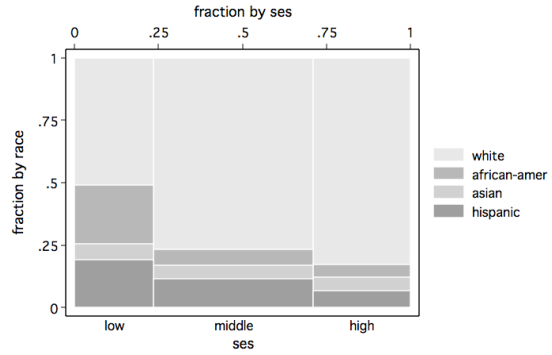
---

spineplot -- spine plots for two-way categorical data

```
spineplot ses femalespineplot ses female, bar1(color(gs14)) bar2(color(gs10)) bar3(color(gs6))
```

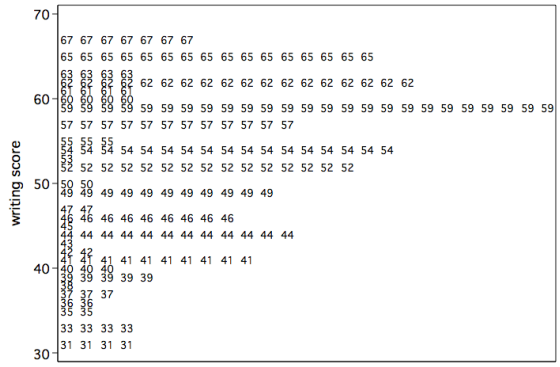



```
spineplot race ses
```

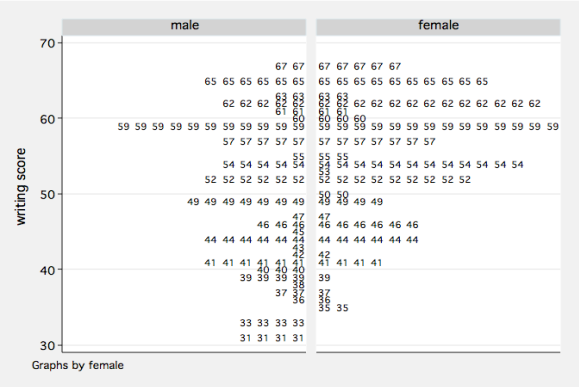


stemplotplot -- stem-and-leaf plots

```
stemplot ses female
```

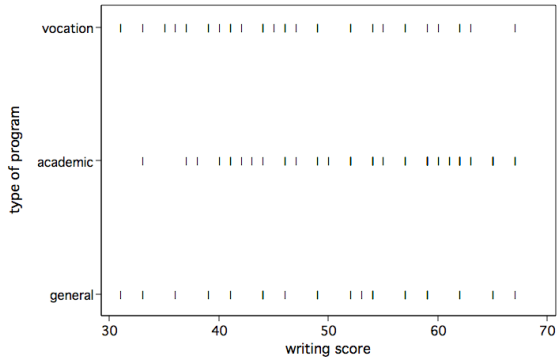



```
stemplot write, d(2) by(female) back scheme(s2mono)
```



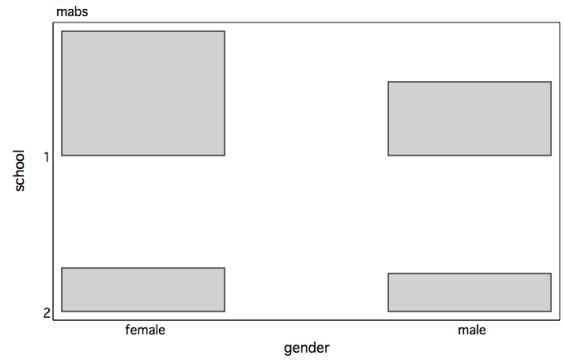
stripplot -- strip plots

```
generate pipe = "|"
stripplot write, over(prog) mlabel(pipe) mlabpos(0) msymbol(i)
```



tableplot -- graphical display in two-way table format

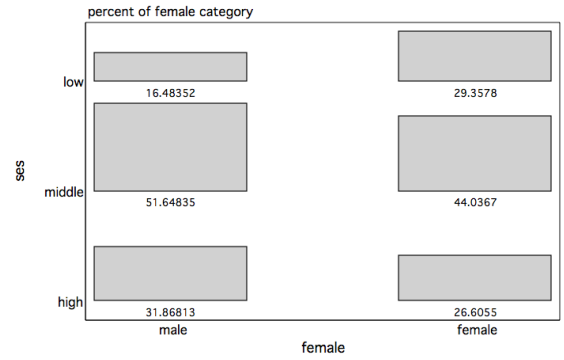
```
use http://www.ats.ucla.edu/stat/stata/notes/lahigh
egen mabs = mean(daysabs), by(school gender)
tableplot rbar mabs school gender
```



---

tabplot -- two-way table shown as table of bars

```
tabplot ses female, showval percent(female)
```



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