```
1
     *cd "C:\Users\stellalong\OneDrive - CUHK-Shenzhen\econ 3211 policy evaluation\Tut 3"
 2
3
     //APPENDING NEW DATA
4
     webuse odd1.dta, clear
5
     save odd1, replace
     *browse
6
7
     webuse even, clear
8
     *browse
9
     append using "odd1.dta", gen(filenum) //"filenum" tracks the origin
10
     *compare with the example in the pdf.
11
     //MERGING TWO DATASETS TOGETHER
12
13
     webuse autosize, clear
14
     save autosize, replace
15
     webuse autoexpense, clear
     * ctrl + D = click Do button
16
17
     merge 1:1 make using "autosize.dta", gen(filenum)
18
     *browse
19
     *draw a venn graph here to show the comparison between append and merge
20
     *many-to-one merge (only changes 1:1 into m:1)
21
22
     *see the graph in pdf.
23
24
     //Data visualization
25
     sysuse auto, clear
26
     *mpg is a variable.
27
     *foreign and rep78 are variables.
28
29
     //single variable, continuous
30
     histogram mpg, width(5) freq kdensity kdenopts(bwidth(5))
31
32
     kdensity mpg, bwidth(3)
33
34
     //single variable, discrete
35
     graph bar (count), over(foreign, gap(*0.5)) intensity(*0.5)
36
37
     graph bar (percent), over(rep78) over(foreign)
38
39
     //two+ variables, continuous
40
     graph matrix mpg price weight, half
41
42
     twoway scatter mpg weight, jitter(7)
43
44
     twoway scatter mpg weight, mlabel(mpg)
45
46
     twoway connected mpg price, sort(price)
47
48
     twoway area mpg price, sort(price)
49
     *don't worry. click click
50
51
     //Plot regression coefficients
52
     *sysuse auto, clear
53
     ssc install coefplot
     regress price mpg headroom trunk length turn // we could define local marco here if the variables
54
     are utilized frequently
55
     coefplot, drop(_cons) xline(0)
56
57
58
     //Juxtapose and Overlaying graphs (plot placement)
59
     twoway scatter mpg price, by(foreign, norescale)
60
     graph twoway scatter mpg price in 27/74 || scatter mpg weight //combine twoway plots using ||
61
62
63
     graph combine plot1.gph plot2.gph //combine two or more saved graphs into a single plot
64
65
     scatter y3 y2 y1 x, msymbol(i o i) mlabel(var3 var2 var1) //plot several y values for a single x
     value
66
```

## tut 3-stella - Printed on 2021/10/11 19:57:56

```
//The Graph Editor
68
     *1. right click the graph to change anything you like to change Or
69
     twoway scatter mpg price, play(graphEditorTheme) //2. by option , play(graphEditorTheme)
70
71
72
     //Save plots
73
     *Click in the graph window to save the picture/ export to PDF Or
74
     *Below learn by yourself
     graph twoway scatter y x, saving("myPlot.gph") replace //1. drawing and saving at one time
75
     graph save "myPlot.gph", replace //2. plotting first then save
76
     graph export "myPlot.pdf", as(.pdf) //3. export to PDF
77
```