

INT0101 Stata Interface

Stata's interface has a variety of windows, tabs, and menus used for different purposes.

Results – prints out results

Command – space used to enter Stata syntax as instructions to interact with the data

History – a collection of all commands that have been executed during a Stata session

Variables – displays variable names and labels

Properties – displays variable properties such as data type

Data – describes the currently loaded dataset e.g., dataset-name

Data Editor – displays loaded data

Variables Manager – dedicated for variable properties

Do-file Editor – Stata text editor for coding and storing code.

The screenshot shows the Stata 17.0 interface with the following components labeled:

- Data Editor (Edit)**: Points to the top-left icon.
- Data Editor (Browse)**: Points to the top-right icon.
- Do-file Editor**: Points to the top-left icon.
- Variables Manager**: Points to the top-right icon.
- Results**: Points to the top-right icon.
- History**: Points to the left panel showing a list of commands.
- Command**: Points to the bottom panel where commands are entered.
- Variables**: Points to the right panel showing a list of variables and their labels.
- Properties**: Points to the bottom-right panel showing variable properties.
- Data**: Points to the bottom-right panel showing dataset information.

The main window displays the following commands and results:

```
. sysuse auto, clear  
(1978 automobile data)  
  
. tabstat mpg price rep78 weight, s(N min mean median max sd)
```

Stats	mpg	price	rep78	weight
N	74	74	69	74
Min	12	3291	1	1760
Mean	21.2973	6165.257	3.405797	3019.459
p50	20	5006.5	3	3190
Max	41	15906	5	4840
SD	5.785503	2949.496	.9899323	777.1936

Do-file

```

visualisations.do
stata > scripts > visualisations.do

111 // Scatterplot by Group
112
113 sysuse auto, clear
114
115 /*
116 Sometimes we require scatterplots to show us
117 data by groups.
118 This can be done in the same layering style
119 that was seen above.
120
121 In the code below, you will find that a local
122 is being generated
123 to draft a scatterplot code for each group,
124 followed by plotting
125 using twoway.
126 */
127
128 levelsof foreign, local(foreign)
129 foreach category of local foreign {
130     local scatter `scatter' scatter price
131     mpg ///
132     if foreign == `category', ///
133     mcolor(%60) mlwidth(0) ||
134 }
135 twoway `scatter'(lowess price mpg), ///
136 title("{bf}Scatterplot", pos(11) size(2.
137 75)) ///
138 subtitle("Price Vs. MPG", pos(11) size(2.
139 5)) ///
140 legend(order(1 "Domestic" 2 "Foreign") size
141 (2)) ///
142 scheme(white_tableau)
143
144 // Jitter Plot
145
146 /*
147 Using datasets present on GitHub, we will now
148 look at an
149 interesting case scenario which will create a
150 scatterplot
151 superimposed with a line of best fit (not
152 Lowess).
153 */

```

Data Editor

Data Editor (Browse) - [auto.dta]

File Edit View Data Tools

make[1] AMC Concord

	make	price	mpg	rep78	headroom	trunk
1	AMC Concord	4,099	22	3	2.5	11
2	AMC Pacer	4,749	17	3	3.0	11
3	AMC Spirit	3,799	22	.	3.0	12
4	Buick Century	4,816	20	3	4.5	16
5	Buick Electra	7,827	15	4	4.0	20
6	Buick LeSabre	5,788	18	3	4.0	21
7	Buick Opel	4,453	26	.	3.0	10
8	Buick Regal	5,189	20	3	2.0	16
9	Buick Riviera	10,372	16	3	3.5	17
10	Buick Skylark	4,082	19	3	3.5	13
11	Cad. Deville	11,385	14	3	4.0	20
12	Cad. Eldorado	14,500	14	2	3.5	16
13	Cad. Seville	15,906	21	3	3.0	13
14	Chev. Chevette	3,299	29	3	2.5	9
15	Chev. Impala	5,705	16	4	4.0	20
16	Chev. Malibu	4,504	22	3	3.5	17
17	Chev. Monte Carlo	5,104	22	2	2.0	16
18	Chev. Monza	3,667	24	2	2.0	7
19	Chev. Nova	3,955	19	3	3.5	13
20	Dodge Colt	3,984	30	5	2.0	8
21	Dodge Diplomat	4,010	18	2	4.0	17
22	Dodge Magnum	5,886	16	2	4.0	17
23	Dodge St. Regis	6,342	17	2	4.5	21
24	Ford Fiesta	4,389	28	4	1.5	9
25	Ford Mustang	4,187	21	3	2.0	10
26	Linc. Continental	11,497	12	3	3.5	22
27	Linc. Mark V	13,594	12	3	2.5	18
28	Linc. Versailles	13,466	14	3	3.5	15
29	Merc. Bobcat	3,829	22	4	3.0	9
30	Merc. Cougar	5,379	14	4	3.5	16
31	Merc. Marquis	6,165	15	3	3.5	23
32	Merc. Monarch	4,516	18	3	3.0	15

length: 18 Vars: 12 Order Dataset Obs: 74 Filter: Off Mode: Browse CAP