

Stata pour débutant

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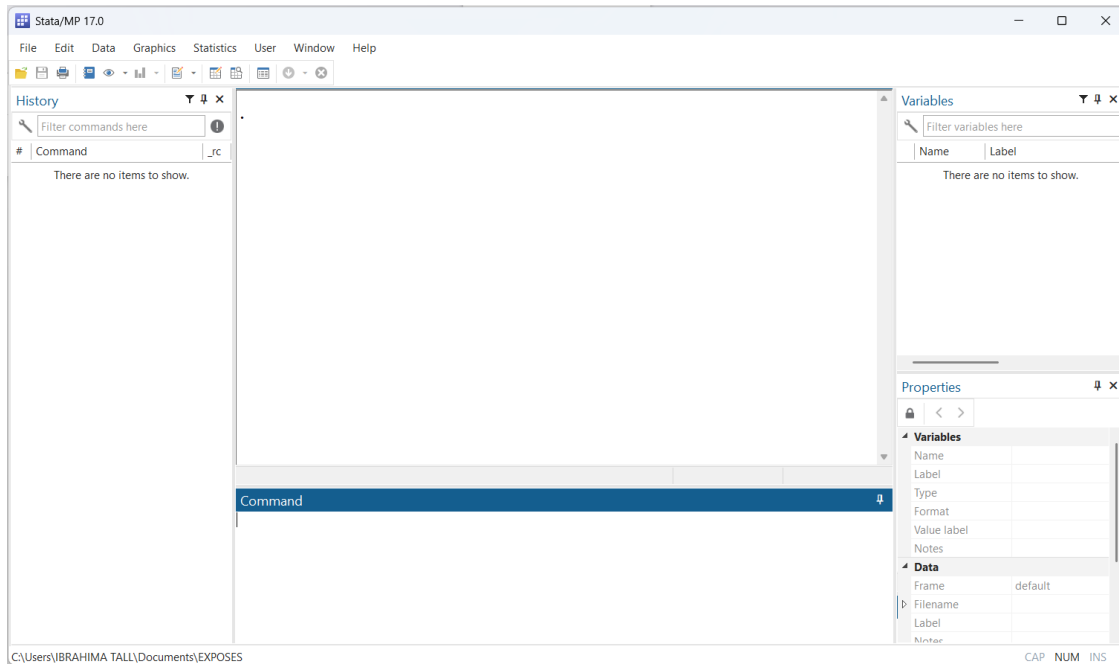
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1 Introduction du logiciel

Un logiciel commercial de traitement statistique et de modélisation économétrique. La première version est sortie en Janvier 1985 et à la date d'écriture de ces lignes, le logiciel en est à sa version 18. Dans ce tutoriel, c'est la version 17 qui est utilisée.

1.1 Fenêtres de l'interface



1.2 Commande stata

```
help compare
```

```
search tabout
```

```
ssc install gsample
```

```
checking gsample consistency and verifying not already installed...  
all files already exist and are up to date.
```

```
net install gsample
```

```
checking gsample consistency and verifying not already installed...  
all files already exist and are up to date.
```

1.3 Calculatrice

```
display as txt "La somme est de S = " as res 1+6
```

```
La somme est de S = 7
```

```
display as res 7-5
```

2

```
display 2*7
```

14

```
display 17/3
```

5.6666667

```
display int(17/3)
```

5

```
display mod(17,3)
```

2

```
display 2^3
```

8

```
display exp(1)
```

2.7182818

```
display sin(_pi/2)
```

1

```
display comb(10,2)
```

45

```
mata: factorial(3)
```

6

1.4 Commandes système

```
dir
```

```
<dir>  3/26/25 22:22  .
<dir>  2/11/25 10:34  ..
<dir>  3/23/25 10:39  .ipynb_checkpoints
0.0k   3/09/25 16:12  .Rhistory
6.2k   3/26/25 15:27  Calcul.xlsx
0.0k   3/26/25 15:26  Monfichier.txt
10.3k  10/05/24  1:41  MPN.png
```

```
ls *.png
```

```
10.3k 10/05/24 1:41 MPN.png
```

```
findfile MPN.png
```

```
./MPN.png
```

```
copy MPN.png PMN_new.png
```

```
ls stata*
```

```
file not found
```

```
rm PMN_new.png // erase
```

```
sysdir
```

```
STATA: C:\Program Files\Stata17\  
BASE: C:\Program Files\Stata17\ado\base\  
SITE: C:\Program Files\Stata17\ado\site\  
PLUS: C:\Users\IBRAHIMA TALL\ado\plus\  
PERSONAL: C:\Users\IBRAHIMA TALL\ado\personal\  
OLDPLACE: c:\ado\
```

```
pwd
```

```
C:\Users\IBRAHIMA TALL\Documents
```

```
cd ..
```

```
C:\Users\IBRAHIMA TALL
```

```
cd "C:\Users\IBRAHIMA TALL\Documents"
```

```
C:\Users\IBRAHIMA TALL\Documents
```

```
mkdir EXPOSESR
```

```
mkdir mondoc
```

```
rmdir mondoc
```

```
cd ./EXPOSES
```

```
C:\Users\IBRAHIMA TALL\Documents\EXPOSES
```

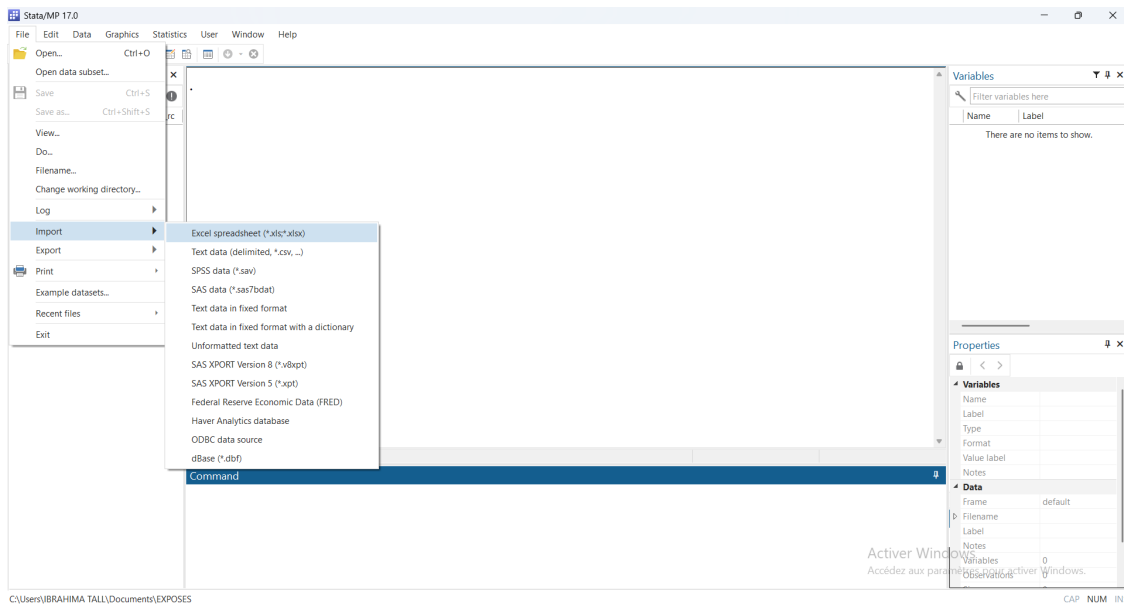
```
which display
```

```
built-in command: display
```

2 Importation et exportation de données

Il est possible d'importer ou d'exporter des données via l'interface ou d'utiliser des commandes. L'interface est plus comode lorsque l'emplacement du fichier n'est pas précis. Dans le cas où le dossier de travail est le répertoire courant, la commande est seulement suivi du nom du fichier.

2.1 Importation de données



Les modes d'importation dépendent des types de fichiers de données: 1. fichier de type stata (.dta): pour ce dernier type, les données peuvent être sur disque ou dans le système de stata: - en mémoire: use ; - en système: sysuse dir (la liste) et sysuse; - en ligne: webuse. 1. fichier de type texte: import excel ; 2. fichier de type excel: import delimited ; 3. fichier de type SPSS (.sav): import spss.

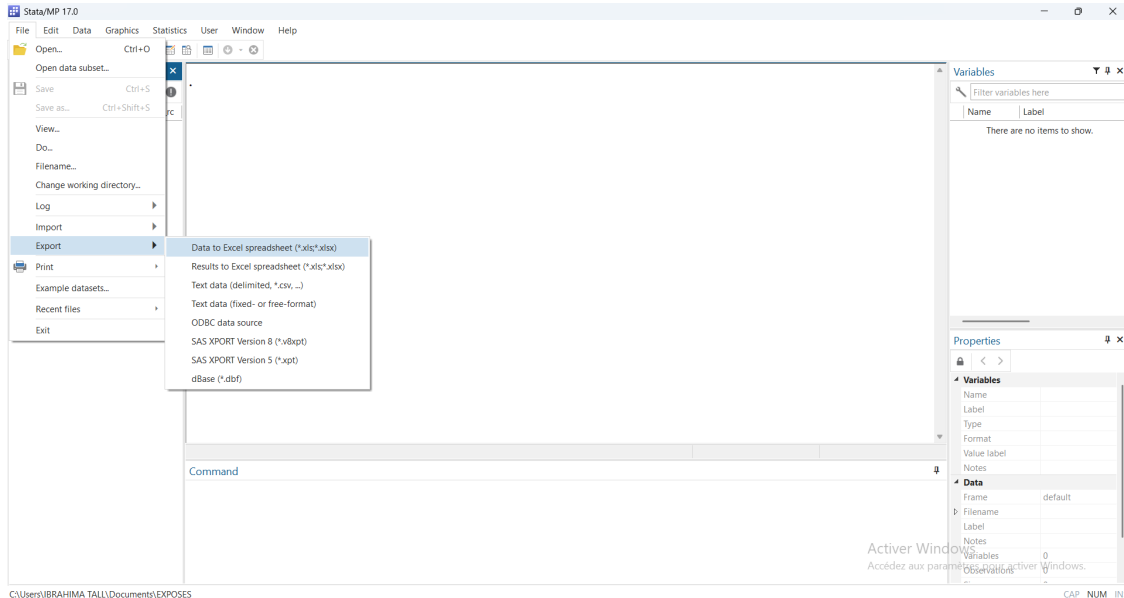
```
sysuse dir
```

auto.dta	census.dta	network1.dta	surface.dta
auto16.dta	citytemp.dta	network1a.dta	tsline1.dta
auto2.dta	citytemp4.dta	nls88.dta	tsline2.dta
autornd.dta	educ99gdp.dta	nlswide1.dta	uslifeexp.dta
bplong.dta	gnp96.dta	pop2000.dta	uslifeexp2.dta
bpwide.dta	lifeexp.dta	sandstone.dta	voter.dta
cancer.dta	mabase.dta	sp500.dta	xtline1.dta

```
sysuse auto, clear
```

(1978 automobile data)

2.2 Exportation de données



L'exportation est faite en remplaçant export à la place de import. L'exportation au format .sav (SPSS) n'est pas disponible dans la version 17. Pour les données de type stata, l'exportation correspond à une sauvegarde avec la commande save.

```
rm mabase.dta
save mabase, replace
```

```
(file mabase.dta not found)
file mabase.dta saved
```

3 Exploitation de la base

```
use mabase, clear
```

(1978 automobile data)

Les commentaires sont expliqués par l'asterix (*), le double (//) et triple (///) slash.

3.1 Observation de la base

```
* Noms de variables
describe, simple
```

make	rep78	weight	displacement
price	headroom	length	gear_ratio
mpg	trunk	turn	foreign

```
* Description de la base
describe
```

Contains data from mabase.dta

```
Observations:      74      1978 automobile data
Variables:         12      26 Mar 2025 22:23
                        (_dta has notes)
```

```
-----
Variable      Storage  Display  Value
   name        type    format   label      Variable label
-----
make          str18    %-18s           Make and model
price         int      %8.0gc          Price
mpg           int      %8.0g           Mileage (mpg)
rep78         int      %8.0g           Repair record 1978
headroom      float    %6.1f           Headroom (in.)
trunk         int      %8.0g           Trunk space (cu. ft.)
weight        int      %8.0gc          Weight (lbs.)
length        int      %8.0g           Length (in.)
turn          int      %8.0g           Turn circle (ft.)
displacement  int      %8.0g           Displacement (cu. in.)
gear_ratio    float    %6.2f           Gear ratio
foreign       byte     %8.0g      origin    Car origin
-----
```

Sorted by: foreign

```
codebook price
```

```
-----
price                                                    Price
-----
```

Type: Numeric (int)

Range: [3291,15906]

Units: 1

Unique values: 74

Missing .: 0/74

Mean: 6165.26

Std. dev.: 2949.5

Percentiles:	10%	25%	50%	75%	90%
	3895	4195	5006.5	6342	11385

```
list price mpg rep78 headroom trunk weight length in 1/7
```

```
+-----+
| price    mpg    rep78    headroom    trunk    weight    length |
+-----+
1. | 4,099     22      3        2.5        11     2,930     186 |
2. | 4,749     17      3        3.0        11     3,350     173 |
3. | 3,799     22      .        3.0        12     2,640     168 |
4. | 4,816     20      3        4.5        16     3,250     196 |
5. | 7,827     15      4        4.0        20     4,080     222 |
+-----+
6. | 5,788     18      3        4.0        21     3,670     218 |
7. | 4,453     26      .        3.0        10     2,230     170 |
+-----+
```

```
browse // Ou edit
```

make	price	mpg	rep78	headroom	trunk	weight	length	turn	displacement	gear_ratio	foreign
1 AMC Concord	4,099	22	3	2.5	11	2,930	186	40	121	3.58	Domestic
2 AMC Pacer	4,749	17	3	3.0	11	3,350	173	40	258	2.53	Domestic
3 AMC Spirit	3,799	22	.	3.0	12	2,640	168	35	121	3.80	Domestic
4 Buick Century	4,816	20	3	4.5	16	3,250	196	40	196	2.93	Domestic
5 Buick Electra	7,827	15	4	4.0	20	4,080	222	43	350	2.41	Domestic
6 Buick LeSabre	5,788	18	3	4.0	21	3,670	218	43	231	2.73	Domestic
7 Buick Opel	4,453	26	.	3.0	10	2,230	170	34	304	2.87	Domestic
8 Buick Regal	5,189	20	3	2.0	16	3,200	200	42	196	2.93	Domestic
9 Buick Riviera	10,372	16	3	3.5	17	3,800	207	43	231	2.93	Domestic
10 Buick Skylark	4,882	19	3	3.5	13	3,400	200	42	231	3.80	Domestic
11 Cad. Deville	11,385	14	3	4.0	20	4,330	221	44	425	2.28	Domestic
12 Cad. Eldorado	14,500	14	2	3.5	16	3,900	204	43	350	2.19	Domestic
13 Cad. Seville	15,006	21	3	3.0	13	4,290	204	45	350	2.24	Domestic
14 Chev. Chevette	3,299	29	3	2.5	9	2,110	163	34	231	2.93	Domestic
15 Chev. Impala	5,705	16	4	4.0	20	3,690	212	43	258	2.56	Domestic
16 Chev. Malibu	4,504	22	3	3.5	17	3,180	193	31	200	2.73	Domestic
17 Chev. Monte Carlo	5,104	22	2	2.0	16	3,220	200	41	200	2.73	Domestic
18 Chev. Monza	3,607	24	2	2.0	7	2,750	179	40	151	2.73	Domestic
19 Chev. Nova	3,955	19	3	3.5	13	3,430	197	43	250	2.56	Domestic
20 Dodge Colt	3,984	30	5	2.0	8	2,120	163	35	98	3.54	Domestic
21 Dodge Diplomat	4,818	18	2	4.0	17	3,600	206	46	318	2.47	Domestic
22 Dodge Magnum	5,886	16	2	4.0	17	3,600	206	46	318	2.47	Domestic
23 Dodge St. Regis	6,342	17	2	4.5	21	3,740	220	46	225	2.94	Domestic
24 Ford Fiesta	4,389	28	4	1.5	9	1,800	147	33	98	3.15	Domestic
25 Ford Mustang	4,187	21	3	2.0	10	2,650	179	43	140	3.80	Domestic
26 Linc. Continental	11,497	12	3	3.5	22	4,840	233	51	400	2.47	Domestic
27 Linc. Mark V	13,584	12	3	2.5	18	4,720	230	48	400	2.47	Domestic
28 Linc. Versailles	13,466	14	3	3.5	15	3,830	201	41	302	2.47	Domestic
29 Merc. Bobcat	3,839	22	4	3.0	9	2,580	169	39	140	2.73	Domestic
30 Merc. Cougar	5,379	14	4	3.5	16	4,000	221	48	302	2.75	Domestic
31 Merc. Marquis	6,165	15	3	3.5	23	3,720	212	44	302	2.26	Domestic
32 Merc. Monarch	4,516	18	3	3.0	15	3,370	198	41	250	2.43	Domestic

3.2 Informations sur les données

```
notes list
```

```
_dta:
```

1. From Consumer Reports with permission

```
notes: Les voitures américaines
```

```
notes make: La marque et la serie de la voiture
```



```
notes
```

```
_dta:  
  1. From Consumer Reports with permission  
  2. Les voitures américaines
```

```
make:  
  1. La marque et la serie de la voiture
```

```
notes replace _dta in 2: Les voitures d'occasion
```

```
(note 2 for _dta replaced)
```

```
notes _dta
```

```
_dta:  
  1. From Consumer Reports with permission  
  2. Les voitures d'occasion
```

```
notes search voiture
```

```
_dta:  
  2. Les voitures d'occasion
```

```
make:  
  1. La marque et la serie de la voiture
```

```
notes drop _dta in 2
```

```
(1 note dropped)
```

```
notes list
```

```
_dta:  
  1. From Consumer Reports with permission
```

```
make:  
  1. La marque et la serie de la voiture
```

3.3 Rangement de la base

```
sort make
```

```
gsort foreign -price
```

```
order turn foreign, after(make)
```

```
order foreign, last
```

3.4 Commandes logique

```
assert inrange(price,0, 100000)
```

```
isid make
```

3.5 Doublons sur les observations

```
* Ajout d'une ligne  
set obs 75
```

Number of observations (_N) was 74, now 75.

```
insobs 2, before(20)
```

(2 observations added)

```
expand 2 in 66/74
```

(9 observations created)

```
duplicates report make
```

Duplicates in terms of make

```
-----  
      Copies | Observations      Surplus  
-----+-----  
          1 |           65         0  
          2 |           18         9  
          3 |            3         2  
-----
```

```
duplicates list make
```

Duplicates in terms of make

```
+-----+  
| Group  Obs   make      |  
|-----|  
|    1    20      |  
|    1    21      |  
|    1    77      |  
|    2    70  Datsun 210  |  
|    2    82  Datsun 210  |  
|-----|  
|    3    68  Datsun 510  |  
|    3    80  Datsun 510  |  
+-----+
```

```
duplicates tag make, generate(repeted)
```

Duplicates in terms of make

```
list make price foreign if repeated == 1
```

```
+-----+
| make           price  foreign |
+-----+
66. | Toyota Corona   5,719  Foreign |
67. | VW Diesel      5,397  Foreign |
68. | Datsun 510     5,079  Foreign |
69. | VW Rabbit      4,697  Foreign |
70. | Datsun 210     4,589  Foreign |
+-----+
71. | Honda Civic    4,499  Foreign |
72. | Fiat Strada   4,296  Foreign |
73. | Mazda GLC     3,995  Foreign |
74. | Renault Le Car 3,895  Foreign |
78. | Toyota Corona   5,719  Foreign |
+-----+
79. | VW Diesel      5,397  Foreign |
80. | Datsun 510     5,079  Foreign |
81. | VW Rabbit      4,697  Foreign |
82. | Datsun 210     4,589  Foreign |
83. | Honda Civic    4,499  Foreign |
+-----+
84. | Fiat Strada   4,296  Foreign |
85. | Mazda GLC     3,995  Foreign |
86. | Renault Le Car 3,895  Foreign |
+-----+
```

```
duplicates drop make, force
```

Duplicates in terms of make

(11 observations deleted)

3.6 Recherche de variables

```
lookfor "in."
```

Variable name	Storage type	Display format	Value label	Variable label
headroom	float	%6.1f		Headroom (in.)
length	int	%8.0g		Length (in.)
displacement	int	%8.0g		Displacement (cu. in.)

```
ds, has(vallabel origin)
```

foreign

```
ds, has(varlabel *in.*)
```

headroom length displacement

```
ds, not(type numeric)
```

make

3.7 Statistiques usuelles

```
count if price <= 5000
```

37

```
by foreign, sort: count if price <= 5000
```

-> foreign = Domestic

29

-> foreign = Foreign

8

-> foreign = .

0

```
inspect price
```

price: Price

Number of observations

		Number of observations		
		Total	Integers	Nonintegers
#	Negative	-	-	-
#	Zero	-	-	-
#	Positive	74	74	-
#		-----	-----	-----
#	Total	74	74	-
# # . . .	Missing	1		
+-----		-----		
3291	15906	75		
(74 unique values)				

```
summarize weight
```

Variable	Obs	Mean	Std. dev.	Min	Max
weight	74	3019.459	777.1936	1760	4840

```
summarize weight, detail
```

```

                    Weight (lbs.)
-----
Percentiles      Smallest
1%              1760      1760
5%              1830      1800
10%             2020      1800      Obs              74
25%             2240      1830      Sum of wgt.        74

50%             3190
                    Largest      Mean              3019.459
75%             3600      4290      Std. dev.        777.1936
90%             4060      4330      Variance         604029.8
95%             4290      4720      Skewness          .1481164
99%             4840      4840      Kurtosis          2.118403
```

```
bysort foreign: summarize price
```

```
-----
-> foreign = Domestic

Variable |      Obs      Mean   Std. dev.   Min     Max
-----+-----
price |      52   6072.423   3097.104   3291   15906

-----
-> foreign = Foreign

Variable |      Obs      Mean   Std. dev.   Min     Max
-----+-----
price |      22   6384.682   2621.915   3748   12990

-----
-> foreign = .

Variable |      Obs      Mean   Std. dev.   Min     Max
-----+-----
price |       0
```

4 Tableaux de statistiques

4.1 Tableaux univariés

```
tabulate foreign, sort
```

Car origin	Freq.	Percent	Cum.
Domestic	52	70.27	70.27
Foreign	22	29.73	100.00
Total	74	100.00	

```
tabulate foreign, summarize(price)
```

Summary of Price			
Car origin	Mean	Std. dev.	Freq.
Domestic	6,072.423	3,097.104	52
Foreign	6,384.682	2,621.915	22
Total	6,165.257	2,949.496	74

```
tabstat price weight mpg, by(foreign) statistics(mean)
```

Summary statistics: Mean

Group variable: foreign (Car origin)

foreign	price	weight	mpg
Domestic	6072.423	3317.115	19.82692
Foreign	6384.682	2315.909	24.77273
Total	6165.257	3019.459	21.2973

```
tab1 foreign rep78 repeted
```

-> tabulation of foreign

Car origin	Freq.	Percent	Cum.
Domestic	52	70.27	70.27
Foreign	22	29.73	100.00
Total	74	100.00	

-> tabulation of rep78

Repair record 1978	Freq.	Percent	Cum.
-----+-----			
1	2	2.90	2.90
2	8	11.59	14.49
3	30	43.48	57.97
4	18	26.09	84.06
5	11	15.94	100.00
-----+-----			
Total	69	100.00	

-> tabulation of repeted

repeted	Freq.	Percent	Cum.
-----+-----			
0	65	86.67	86.67
1	9	12.00	98.67
2	1	1.33	100.00
-----+-----			
Total	75	100.00	

4.2 Tableaux bivariés

```
tab2 rep78 repeted foreign
```

-> tabulation of rep78 by repeted

Repair record	repeted		
1978	0	1	Total
-----+-----			
1	2	0	2
2	8	0	8
3	28	2	30
4	14	4	18
5	8	3	11
-----+-----			
Total	60	9	69

-> tabulation of rep78 by foreign

Repair record	Car origin		
1978	Domestic	Foreign	Total
-----+-----			
1	2	0	2
2	8	0	8
3	27	3	30

4		9	9		18
5		2	9		11
-----+-----+-----					
Total		48	21		69

-> tabulation of repeted by foreign

		Car origin		
repeted		Domestic	Foreign	Total
-----+-----+-----				
0		52	13	65
1		0	9	9
-----+-----+-----				
Total		52	22	74

```
tabulate rep78 foreign, row nofreq
```

Repair		Car origin		
record		Domestic	Foreign	Total
1978				
-----+-----+-----				
1		100.00	0.00	100.00
2		100.00	0.00	100.00
3		90.00	10.00	100.00
4		50.00	50.00	100.00
5		18.18	81.82	100.00
-----+-----+-----				
Total		69.57	30.43	100.00

```
tabulate rep78 foreign, summarize(price) means
```

Means of Price

Repair		Car origin		
record		Domestic	Foreign	Total
1978				
-----+-----+-----				
1		4,564.5	.	4,564.5
2		5,967.625	.	5,967.625
3		6,607.074	4,828.667	6,429.233
4		5,881.556	6,261.444	6,071.5
5		4,204.5	6,292.667	5,913
-----+-----+-----				
Total		6,179.25	6,070.143	6,146.043

4.3 Tableaux de statistiques

```
mean price weight, over(foreign)
```

Mean estimation

Number of obs = 74

	Mean	Std. err.	[95% conf. interval]	
c.price@foreign				
Domestic	6072.423	429.4911	5216.449	6928.398
Foreign	6384.682	558.9942	5270.608	7498.756
c.weight@foreign				
Domestic	3317.115	96.4296	3124.931	3509.299
Foreign	2315.909	92.31665	2131.922	2499.896

```
total price weight, over(foreign)
```

Total estimation

Number of obs = 74

	Total	Std. err.	[95% conf. interval]	
c.price@foreign				
Domestic	315766	22333.54	271255.3	360276.7
Foreign	140463	12297.87	115953.4	164972.6
c.weight@foreign				
Domestic	172490	5014.339	162496.4	182483.6
Foreign	50950	2030.966	46902.29	54997.71

```
proportion repeted, over(foreign)
```

Proportion estimation

Number of obs = 74

	Proportion	Std. err.	[95% conf. interval]	
repeted@foreign				
0 Domestic	1	0	.	.
0 Foreign	.5909091	.1048236	.3783643	.774159
1 Domestic	0	(no observations)		
1 Foreign	.4090909	.1048236	.225841	.6216357
2 Domestic	0	(no observations)		
2 Foreign	0	(no observations)		

```
ratio ppoids: price/weight, over(foreign)
```

Ratio estimation

Number of obs = 74

ppoids: price/weight

		Linearized		
		Ratio	std. err.	[95% conf. interval]
c.ppoids@foreign				
Domestic		1.830634	.1016378	1.62807 2.033198
Foreign		2.756879	.1528363	2.452277 3.061482

4.4 Tableaux généralisés

```
table (rep78)(foreign), statistic(mean price) statistic(median weight)
```

		Car origin	
		Domestic	Foreign
Repair record 1978			
1			
Mean			
Price		4564.5	4564.5
Median			
Weight (lbs.)		3100	3100
2			
Mean			
Price		5967.625	5967.625
Median			
Weight (lbs.)		3465	3465
3			
Mean			
Price		6607.074	4828.667
Median			
Weight (lbs.)		3350	2070
4			
Mean			
Price		5881.556	6261.444
Median			
Weight (lbs.)		3700	2160
5			
Mean			

Price		4204.5	6292.667	5913
Median				
Weight (lbs.)		1960	2240	2200
Total				
Mean				
Price		6179.25	6070.143	6146.043
Median				
Weight (lbs.)		3370	2160	3200

5 Création et modification de variables

6 Création de variables

```
generate cout = rep78 * 12500
```

(6 missing values generated)

```
generate loi = uniform()
```

```
generate marque = word(make, 1)
```

(1 missing value generated)

```
bysort rep78 foreign: egen vprice = mean(price)
```

(1 missing value generated)

6.1 Étiquettes (labels) de variables

```
label variable cout "Le coût de réparation"
```

```
ssc install elabel
```

checking elabel consistency and verifying not already installed...
all files already exist and are up to date.

```
elabel variable (loi marque)("Loi Uniforme" "La marque de la voiture")
```

6.2 Modifier une variable

```
replace loi = rnormal()
```

(75 real changes made)

```
ssc install ereplace
```

checking ereplace consistency and verifying not already installed...
all files already exist and are up to date.

```
bysort rep78 foreign: ereplace vprice = total(price)
```

(74 real changes made)

6.3 Transformation en variables catégorielles

```
egen prix_cl = cut(price), at(3291, 5000, 10000, 15906) icodes
```

```
egen mpg_cl = cut(mpg), group(3)
```

(1 missing value generated)

```
generate weight_cl = autocode(weight, 4, 1760, 4840)
```

(1 missing value generated)

6.4 Étiquettes des valeurs

```
label define prix_cod 0 "Moins cher" 1 Abordable 2 Cher 3 "Très Cher"
```

```
label values prix_cl prix_cod
```

```
recode weight_cl (2530 = 1 "Légère")(3300 = 2 "Moins lourde") ///  
(4070 = 3 "Lourde")(else = 4 "Très lourde"), generate(new_weight)
```

(75 differences between weight_cl and new_weight)

6.5 Transformation texte et numérique

```
decode foreign, generate(foreigntxt) maxlength(7)
```

```
label define fcode 1 Domesti 2 Foreign  
encode foreigntxt, generate(foreigncod) label(fcode)
```

```
tostring gear_ratio, generate(geartxt) force
```

geartxt generated as str11

geartxt was forced to string; some loss of information

```
destring geartxt, generate(gearnum) ignore("." "/" ) force
```

geartxt: character . removed; gearnum generated as double

(1 missing value generated)

6.6 Suppression de variables et observations

```
drop cout loi
```

```
keep make price mpg marque prix_cl foreign rep78
```

```
keep if !missing(price)
```

(1 observation deleted)

```
drop in 1/22
```

(22 observations deleted)

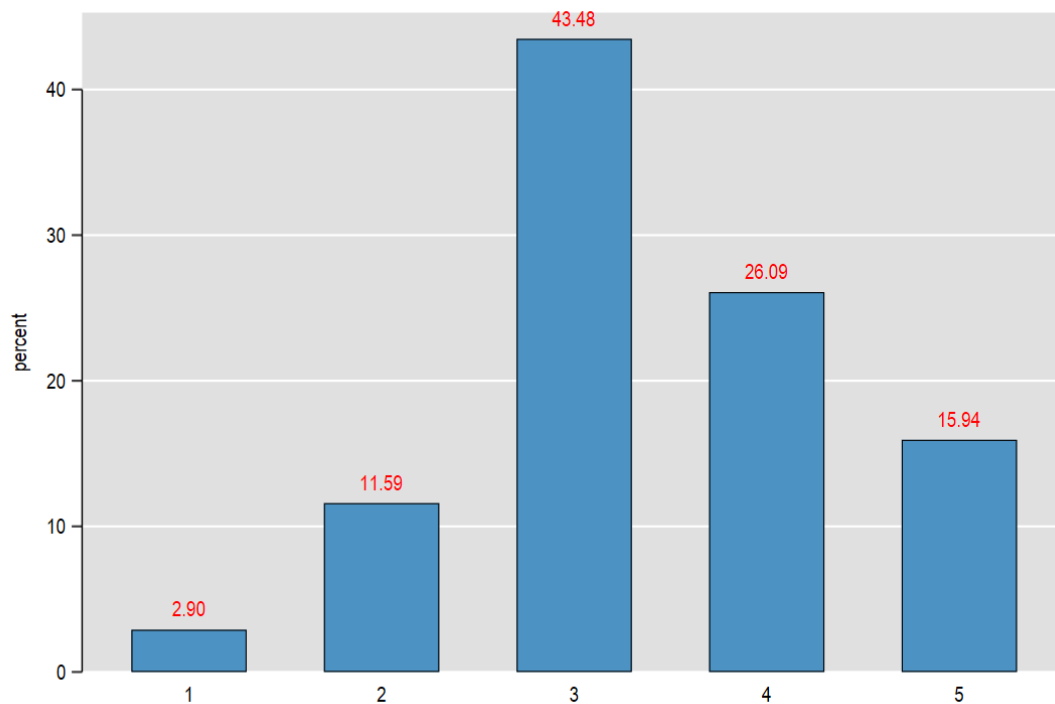
7 Illustration graphique

```
ssc install schemepack, replace
```

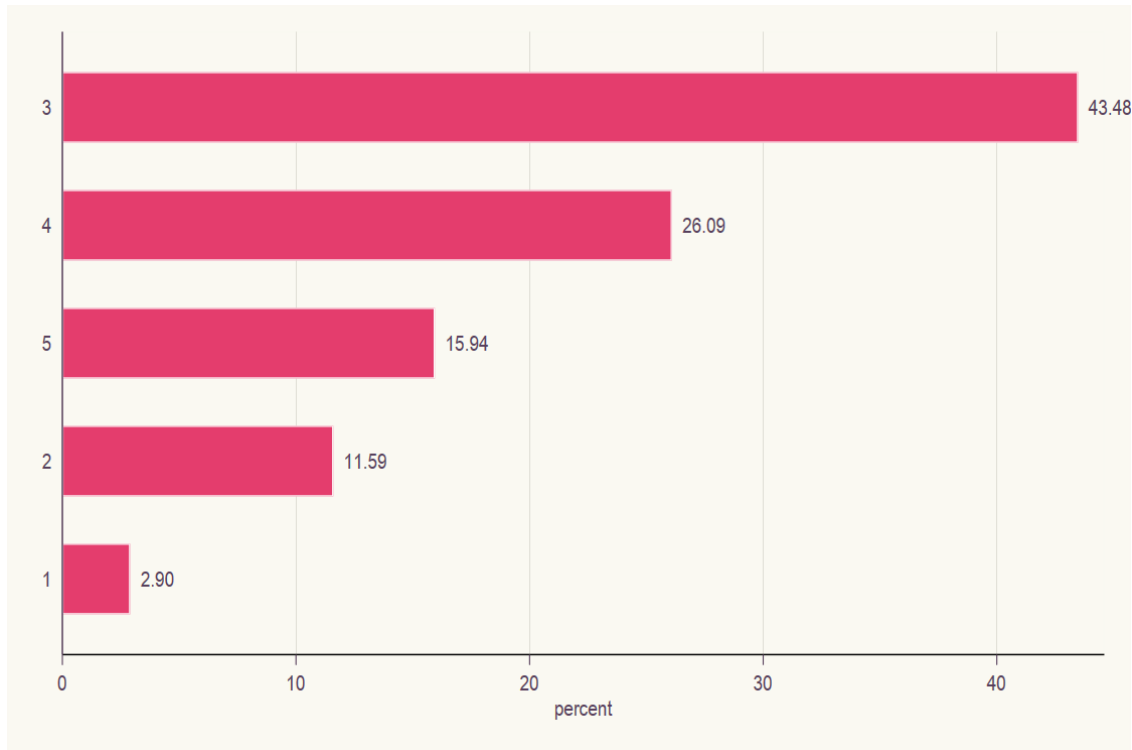
checking schemepack consistency and verifying not already installed...
all files already exist and are up to date.

```
set scheme gg_tableau
```

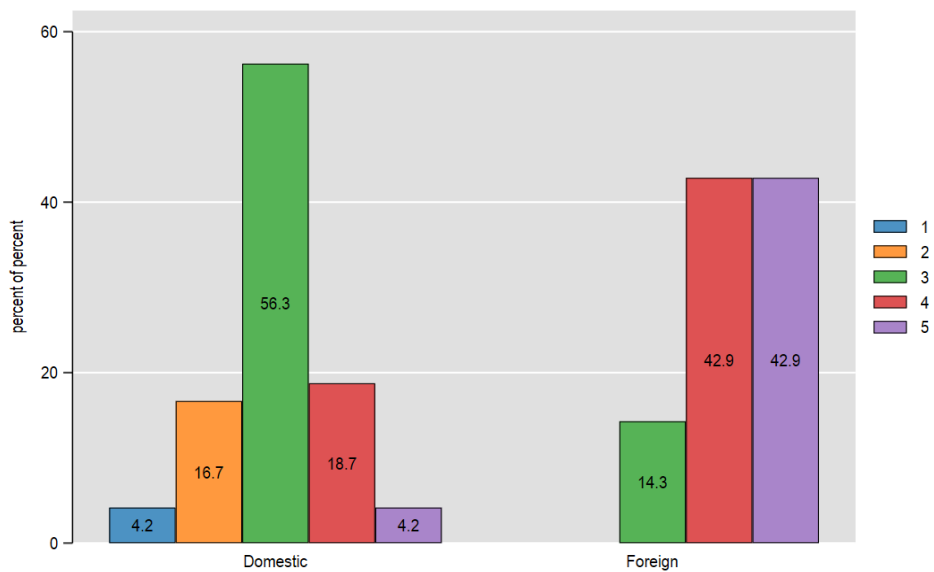
```
graph bar (percent), over(rep78) blabel(bar, format(%9.2f) color(red))
```



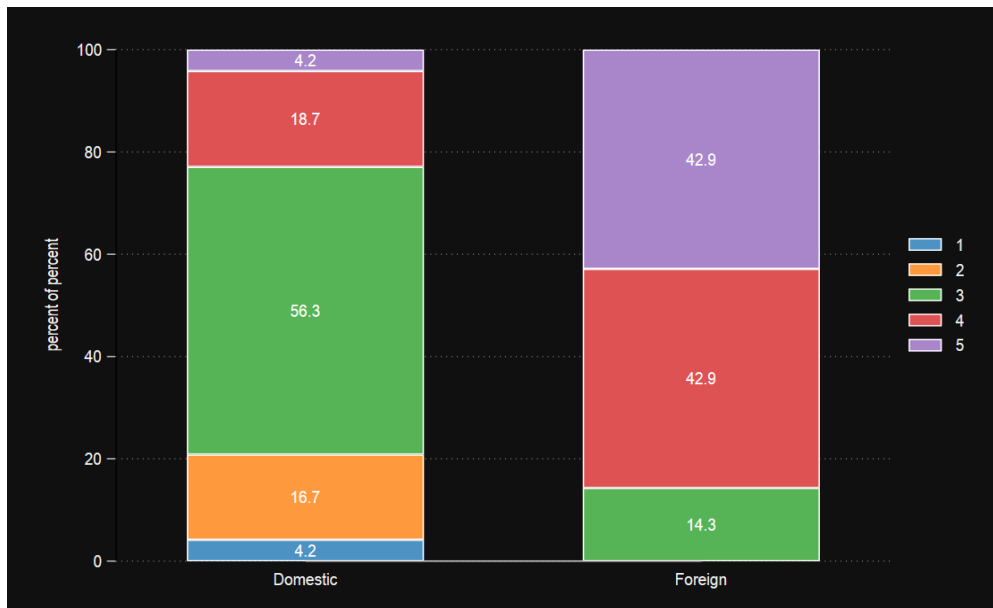
```
graph hbar (percent), over(rep78) blabel(bar, format(%9.2f)) scheme(swift_red)
```



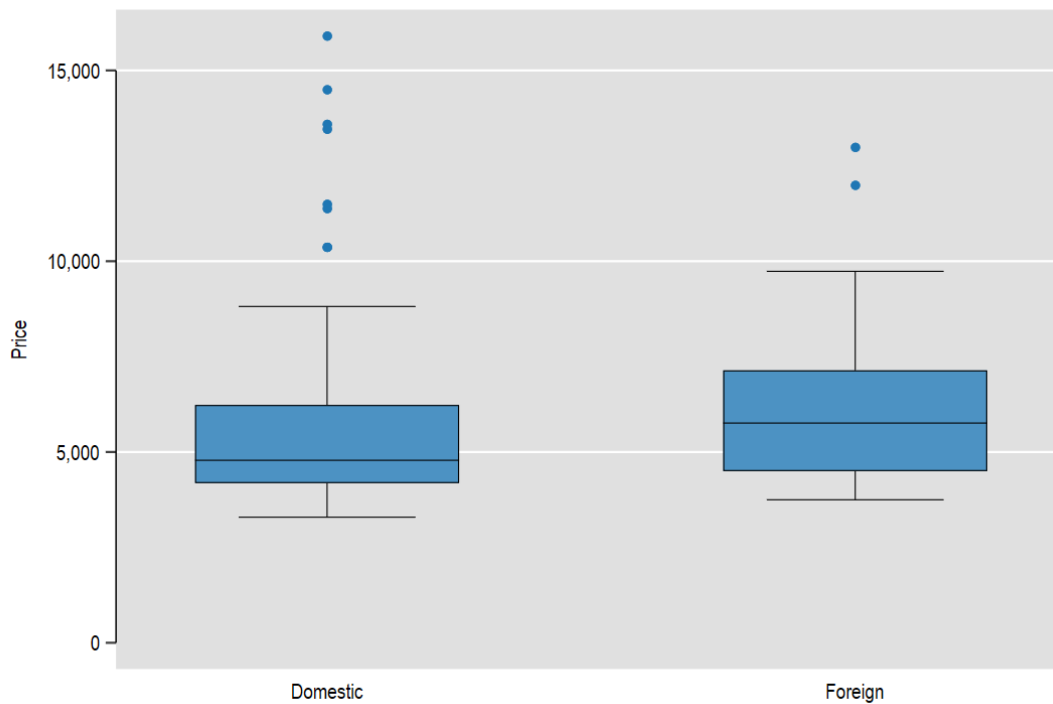
```
graph bar (percent), over(rep78) over(foreign) asyvars percentages ///
blabel(bar, position(center) format(%9.1f))
```



```
graph bar (percent), over(rep78) over(foreign) asyvars percentages stack ///
  blabel(bar, position(center) format(%9.1f)) scheme(black_tableau)
```



```
graph box price, over(foreign)
```



```
graph pie, over(rep78) pie(_all, explode(10)) ///  
plabel(_all percent, color(blue) format(%4.1f))
```

