

```
. clear

. /*
> Back to Fan's Stata4Econ or other repositories:
> - http://fanwangecon.github.io
> - http://fanwangecon.github.io/Stata4Econ
> - http://fanwangecon.github.io/R4Econ
> - http://fanwangecon.github.io/M4Econ
> - http://fanwangecon.github.io/CodeDynaAsset/
> - http://fanwangecon.github.io/Math4Econ/
> - http://fanwangecon.github.io/Stat4Econ/
> - http://fanwangecon.github.io/TeX4Econ
>
> 1. drop a random subset of values
>
> */
.
. ///--- Start log
> set more off

. capture log close _all

. cd "${root_log}"
C:\Program Files (x86)\Stata14

. global st_link "/rand/basic/fs_droprand"

. global curlogfile "~/Stata4Econ/${st_link}"

. global st_logname "drop_random_subset"

. log using "${curlogfile}" , replace name($st_logname)
(note: file C:\Users\fan/Stata4Econ//rand/basic/fs_droprand.smcl not found)

name:    drop_random_subset
log:     C:\Users\fan/Stata4Econ//rand/basic/fs_droprand.smcl
log type: smcl
opened on: 6 Oct 2019, 18:50:13

. log on $st_logname
(log already on)

.
. ///-- Site Link: Fan's Project Reusable Stata Codes Table of Content
> di "https://fanwangecon.github.io/"
https://fanwangecon.github.io/

. di "https://fanwangecon.github.io/Stata4Econ/"
https://fanwangecon.github.io/Stata4Econ/

.
. ///-- File Title
> global filetitle "Stata Drop a Random Subset of Observations"

.
. ///--- Load Data
> set more off

. sysuse auto, clear
(1978 Automobile Data)

.
. ///--- Generating Index for Dropping
> set seed 987

. scalar it_drop_frac = 3
```

`gen row_idx_rand = round(it_drop_frac*uniform())`

`./-- drop when row_idx_it == row_idx_rand, if it_drop_frac set at 3`  
`list make price mpg row_idx_it row_idx_rand, ab(20)`

	make	price	mpg	row_idx_it	row_idx_rand
1.	AMC Concord	4,099	22	0	0
2.	AMC Pacer	4,749	17	0	2
3.	AMC Spirit	3,799	22	0	1
4.	Buick Century	4,816	20	0	3
5.	Buick Electra	7,827	15	0	1
6.	Buick LeSabre	5,788	18	0	1
7.	Buick Opel	4,453	26	0	2
8.	Buick Regal	5,189	20	0	2
9.	Buick Riviera	10,372	16	0	1
10.	Buick Skylark	4,082	19	0	2
11.	Cad. Deville	11,385	14	0	1
12.	Cad. Eldorado	14,500	14	0	2
13.	Cad. Seville	15,906	21	1	1
14.	Chev. Chevette	3,299	29	1	2
15.	Chev. Impala	5,705	16	1	1
16.	Chev. Malibu	4,504	22	1	2
17.	Chev. Monte Carlo	5,104	22	1	2
18.	Chev. Monza	3,667	24	1	2
19.	Chev. Nova	3,955	19	1	3
20.	Dodge Colt	3,984	30	1	1
21.	Dodge Diplomat	4,010	18	1	2
22.	Dodge Magnum	5,886	16	1	2
23.	Dodge St. Regis	6,342	17	1	1
24.	Ford Fiesta	4,389	28	1	0
25.	Ford Mustang	4,187	21	1	1
26.	Linc. Continental	11,497	12	1	3
27.	Linc. Mark V	13,594	12	1	2
28.	Linc. Versailles	13,466	14	1	2
29.	Merc. Bobcat	3,829	22	1	3
30.	Merc. Cougar	5,379	14	1	2
31.	Merc. Marquis	6,165	15	1	1
32.	Merc. Monarch	4,516	18	1	3
33.	Merc. XR-7	6,303	14	1	2
34.	Merc. Zephyr	3,291	20	1	1
35.	Olds 98	8,814	21	1	1
36.	Olds Cutl Supr	5,172	19	1	1
37.	Olds Cutlass	4,733	19	2	1
38.	Olds Delta 88	4,890	18	2	1
39.	Olds Omega	4,181	19	2	1
40.	Olds Starfire	4,195	24	2	1
41.	Olds Toronado	10,371	16	2	3
42.	Plym. Arrow	4,647	28	2	1
43.	Plym. Champ	4,425	34	2	0
44.	Plym. Horizon	4,482	25	2	1
45.	Plym. Sapporo	6,486	26	2	2
46.	Plym. Volare	4,060	18	2	1
47.	Pont. Catalina	5,798	18	2	2
48.	Pont. Firebird	4,934	18	2	1
49.	Pont. Grand Prix	5,222	19	2	1
50.	Pont. Le Mans	4,723	19	2	2
51.	Pont. Phoenix	4,424	19	2	1
52.	Pont. Sunbird	4,172	24	2	2
53.	Audi 5000	9,690	17	2	3
54.	Audi Fox	6,295	23	2	2
55.	BMW 320i	9,735	25	2	2
56.	Datsun 200	6,229	23	2	1
57.	Datsun 210	4,589	35	2	3
58.	Datsun 510	5,079	24	2	2
59.	Datsun 810	8,129	21	2	3



examples:

```
""
"Cad. Deville"
"Mazda GLC"
```

warning: variable has embedded blanks

```
. summ mpg* price*
```

Variable	Obs	Mean	Std. Dev.	Min	Max
mpg	74	21.2973	5.785503	12	41
mpg_wth_mi~g	53	21.15094	6.41931	12	41
price	74	6165.257	2949.496	3291	15906
price_wth_~g	58	6254.069	3219.379	3291	15906

```
. list make* mpg* price*
```

	make	make_wth_mimssing	mpg	mpg_wt~g	price	price_~g
1.	AMC Concord		22	.	4,099	.
2.	AMC Pacer	AMC Pacer	17	17	4,749	4,749
3.	AMC Spirit	AMC Spirit	22	22	3,799	3,799
4.	Buick Century	Buick Century	20	20	4,816	4,816
5.	Buick Electra	Buick Electra	15	15	7,827	7,827
6.	Buick LeSabre	Buick LeSabre	18	18	5,788	5,788
7.	Buick Opel	Buick Opel	26	26	4,453	4,453
8.	Buick Regal	Buick Regal	20	20	5,189	5,189
9.	Buick Riviera	Buick Riviera	16	16	10,372	.
10.	Buick Skylark	Buick Skylark	19	19	4,082	4,082
11.	Cad. Deville	Cad. Deville	14	14	11,385	11,385
12.	Cad. Eldorado	Cad. Eldorado	14	14	14,500	14,500
13.	Cad. Seville	Cad. Seville	21	.	15,906	15,906
14.	Chev. Chevette	Chev. Chevette	29	29	3,299	3,299
15.	Chev. Impala	Chev. Impala	16	.	5,705	5,705
16.	Chev. Malibu	Chev. Malibu	22	22	4,504	4,504
17.	Chev. Monte Carlo	Chev. Monte Carlo	22	22	5,104	5,104
18.	Chev. Monza	Chev. Monza	24	24	3,667	3,667
19.	Chev. Nova	Chev. Nova	19	19	3,955	3,955
20.	Dodge Colt		30	.	3,984	3,984
21.	Dodge Diplomat		18	18	4,010	4,010
22.	Dodge Magnum		16	16	5,886	5,886
23.	Dodge St. Regis		17	.	6,342	.
24.	Ford Fiesta	Ford Fiesta	28	28	4,389	4,389
25.	Ford Mustang	Ford Mustang	21	.	4,187	4,187
26.	Linc. Continental	Linc. Continental	12	12	11,497	11,497
27.	Linc. Mark V		12	12	13,594	13,594
28.	Linc. Versailles		14	14	13,466	13,466
29.	Merc. Bobcat	Merc. Bobcat	22	22	3,829	3,829
30.	Merc. Cougar		14	14	5,379	5,379
31.	Merc. Marquis		15	.	6,165	.
32.	Merc. Monarch	Merc. Monarch	18	18	4,516	4,516
33.	Merc. XR-7		14	14	6,303	6,303
34.	Merc. Zephyr	Merc. Zephyr	20	.	3,291	3,291
35.	Olds 98	Olds 98	21	.	8,814	8,814
36.	Olds Cutl Supr		19	.	5,172	.
37.	Olds Cutlass	Olds Cutlass	19	19	4,733	4,733
38.	Olds Delta 88		18	18	4,890	4,890
39.	Olds Omega		19	19	4,181	4,181
40.	Olds Starfire		24	24	4,195	4,195
41.	Olds Toronado	Olds Toronado	16	16	10,371	10,371
42.	Plym. Arrow	Plym. Arrow	28	28	4,647	4,647
43.	Plym. Champ	Plym. Champ	34	34	4,425	4,425
44.	Plym. Horizon		25	25	4,482	4,482
45.	Plym. Sapporo		26	.	6,486	.
46.	Plym. Volare		18	18	4,060	4,060
47.	Pont. Catalina		18	.	5,798	.
48.	Pont. Firebird		18	18	4,934	4,934
49.	Pont. Grand Prix		19	19	5,222	5,222
50.	Pont. Le Mans		19	.	4,723	.

51.	Pont. Phoenix	Pont. Phoenix	19	19	4,424	4,424
52.	Pont. Sunbird		24	.	4,172	.
53.	Audi 5000	Audi 5000	17	17	9,690	9,690
54.	Audi Fox		23	.	6,295	.
55.	BMW 320i		25	.	9,735	9,735
56.	Datsun 200	Datsun 200	23	23	6,229	6,229
57.	Datsun 210		35	35	4,589	4,589
58.	Datsun 510	Datsun 510	24	.	5,079	5,079
59.	Datsun 810		21	21	8,129	.
60.	Fiat Strada	Fiat Strada	21	21	4,296	4,296
61.	Honda Accord		25	25	5,799	.
62.	Honda Civic		28	28	4,499	.
63.	Mazda GLC	Mazda GLC	30	30	3,995	3,995
64.	Peugeot 604	Peugeot 604	14	14	12,990	12,990
65.	Renault Le Car		26	.	3,895	.
66.	Subaru	Subaru	35	35	3,798	3,798
67.	Toyota Celica		18	.	5,899	5,899
68.	Toyota Corolla	Toyota Corolla	31	31	3,748	3,748
69.	Toyota Corona	Toyota Corona	18	18	5,719	5,719
70.	VW Dasher	VW Dasher	23	23	7,140	7,140
71.	VW Diesel	VW Diesel	41	41	5,397	5,397
72.	VW Rabbit		25	.	4,697	.
73.	VW Scirocco		25	.	6,850	.
74.	Volvo 260		17	17	11,995	11,995

```
.
. ///--- End Log and to HTML
> log close _all
   name: drop_random_subset
   log: C:\Users\fan\Stata4Econ\rand\basic\fs_droprand.smcl
   log type: smcl
closed on: 6 Oct 2019, 18:50:13
```

```
. capture noisily {
.   log2html "${curlogfile}", replace title($filetitle (<a href="https://github.com/FanWangEcon/S
> nk).do">DO</a>, more see: <a href="https://fanwangecon.github.io/">Fan</a> and <a href="https://
> 4Econ">Stata4Econ</a>))
```

```
HTML log file ~/Stata4Econ\rand\basic\fs_droprand.html created
. }
```

```
.
. ///--- to PDF
> capture noisily {
.   translator set Results2pdf logo off
.   translator set Results2pdf fontsize 10
.   translator set Results2pdf pagesize custom
.   translator set Results2pdf pagewidth 8.27
.   translator set Results2pdf pageheight 11.69
.   translator set Results2pdf lmargin 0.2
.   translator set Results2pdf rmargin 0.2
.   translator set Results2pdf tmargin 0.2
.   translator set Results2pdf bmargin 0.2
.   translate @Results "${curlogfile}.pdf", replace translator(Results2pdf)
```