

```

. clear

. macro drop _all

.
. /*
> 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/REconTools
> - http://fanwangecon.github.io/M4Econ
> - http://fanwangecon.github.io/Tex4Econ
> - http://fanwangecon.github.io/CodeDynaAsset/
> - http://fanwangecon.github.io/Math4Econ/
> - http://fanwangecon.github.io/Stat4Econ/
>
> The file works out a variety of within group operations.
>
> 1. spread and populate within group value to all elements of the group
> */

. ///--- Start log
> set more off

. capture log close _all

. cd "${root_log}"
C:\Users\fan\Documents\Dropbox (UH-ECON)\Project Emily Minority Survey\Data2020

. global st_link "/gen/group/fs_group"

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

. global st_logname "stata_recode_discrete_subset"

. log using "${curlogfile}" , replace name($st_logname)
(note: file C:\Users\fan\Stata4Econ\gen\group\fs_group.smcl not found)

```

---

```

    name:  stata_recode_discrete_subset
    log:   C:\Users\fan\Stata4Econ\gen\group\fs_group.smcl
log type: smcl
opened on: 5 May 2020, 19:56:12

. 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 By Group Fill Missing Values by Nonmissing Values"

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

. sysuse auto, clear
(1978 Automobile Data)

```

```
. //////////////////////////////////////
> ///--- Fill Missing Values with NonMissing Min
> //////////////////////////////////////
>
. ///--- there are 18 trunk categories
> codebook trunk
```

**trunk**

```

      type:  numeric (int)
      range:  [5,23]
unique values: 18
      units:  1
      missing.: 0/74

      mean:    13.7568
      std. dev: 4.2774

percentiles:      10%      25%      50%      75%      90%
                  8        10        14        17        20
```

```
.
. * generate some random variable
. gen var_one_val_in_group = uniform()

.
. * keep one only value each group, all else null
. * keep lowest weight length not null
. bys trunk (weight length): replace var_one_val_in_group =. if _n != 1
(56 real changes made, 56 to missing)

.
. * now populate this randomly selected value within each trunk group to all in group
. * sort by var_test, the non-missing value shows up first
. bys trunk (var_one_val_in_group): gen var_test_fill = var_one_val_in_group[1]

.
. sort trunk price

. list trunk price weight length var_one_val_in_group var_test_fill, sepby(trunk)
```

	trunk	price	weight	length	var_one_val_in_group	var_test_fill
1.	5	4,499	1,760	149	.3369739	.3369739
2.	6	6,229	2,370	170	.357423	.357423
3.	7	3,667	2,750	179	.	.6775706
4.	7	4,172	2,690	179	.6775706	.6775706
5.	7	4,934	3,470	198	.	.6775706
6.	8	3,984	2,120	163	.	.566447
7.	8	4,589	2,020	165	.566447	.566447
8.	8	5,079	2,280	170	.	.566447
9.	8	6,486	2,520	182	.	.566447
10.	8	8,129	2,750	184	.	.566447
11.	9	3,299	2,110	163	.	.90876
12.	9	3,748	2,200	165	.	.90876
13.	9	3,829	2,580	169	.	.90876
14.	9	4,389	1,800	147	.90876	.90876
15.	10	3,895	1,830	142	.4374087	.4374087
16.	10	4,187	2,650	179	.	.4374087
17.	10	4,195	2,730	180	.	.4374087
18.	10	4,453	2,230	170	.	.4374087
19.	10	5,799	2,240	172	.	.4374087
20.	11	3,798	2,050	164	.	.8544706
21.	11	3,995	1,980	154	.	.8544706
22.	11	4,099	2,930	186	.	.8544706
23.	11	4,425	1,800	157	.8544706	.8544706
24.	11	4,647	3,260	170	.	.8544706
25.	11	4,749	3,350	173	.	.8544706
26.	11	5,719	2,670	175	.	.8544706
27.	11	6,295	2,070	174	.	.8544706
28.	12	3,799	2,640	168	.	.6315421

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29.	12	7,140	2,160	172	.6315421	.6315421
30.	12	9,735	2,650	177	.	.6315421
31.	13	3,955	3,430	197	.	.7253782
32.	13	4,082	3,400	200	.7253782	.7253782
33.	13	4,424	3,420	203	.	.7253782
34.	13	15,906	4,290	204	.	.7253782
35.	14	4,181	3,370	200	.	.742014
36.	14	5,899	2,410	174	.742014	.742014
37.	14	11,995	3,170	193	.	.742014
38.	14	12,990	3,420	192	.	.742014
39.	15	4,516	3,370	198	.	.9405864
40.	15	4,697	1,930	155	.9405864	.9405864
41.	15	5,397	2,040	155	.	.9405864
42.	15	9,690	2,830	189	.	.9405864
43.	15	13,466	3,830	201	.	.9405864
44.	16	4,060	3,330	201	.	.8831605
45.	16	4,296	2,130	161	.	.8831605
46.	16	4,733	3,300	198	.	.8831605
47.	16	4,816	3,250	196	.	.8831605
48.	16	5,104	3,220	200	.	.8831605
49.	16	5,172	3,310	198	.	.8831605
50.	16	5,189	3,280	200	.	.8831605
51.	16	5,222	3,210	201	.	.8831605
52.	16	5,379	4,060	221	.	.8831605
53.	16	6,303	4,130	217	.	.8831605
54.	16	6,850	1,990	156	.8831605	.8831605
55.	16	14,500	3,900	204	.	.8831605
56.	17	3,291	2,830	195	.	.0850656
57.	17	4,010	3,600	206	.	.0850656
58.	17	4,482	2,200	165	.0850656	.0850656
59.	17	4,504	3,180	193	.	.0850656
60.	17	4,723	3,200	199	.	.0850656
61.	17	5,886	3,600	206	.	.0850656
62.	17	10,371	4,030	206	.	.0850656
63.	17	10,372	3,880	207	.	.0850656
64.	18	13,594	4,720	230	.2557557	.2557557
65.	20	4,890	3,690	218	.	.1477107
66.	20	5,705	3,690	212	.1477107	.1477107
67.	20	5,798	3,700	214	.	.1477107
68.	20	7,827	4,080	222	.	.1477107
69.	20	8,814	4,060	220	.	.1477107
70.	20	11,385	4,330	221	.	.1477107
71.	21	5,788	3,670	218	.7502809	.7502809
72.	21	6,342	3,740	220	.	.7502809
73.	22	11,497	4,840	233	.337951	.337951
74.	23	6,165	3,720	212	.7360283	.7360283

```

. ///--- End Log and to HTML
> log close _all
   name: stata_recode_discrete_subset
   log:  C:\Users\fan\Stata4Econ//gen/group/fs_group.smcl
 log type: smcl
closed on:  5 May 2020, 19:56:12

```

```

. capture noisily {
.   log2html "${curlogfile}", replace title($filetitle (<a href="https://github.com/FanWang
> f="https://fanwangecon.github.io/">Fan</a> and <a href="https://fanwangecon.github.io/Stata4Eco

```

HTML log file ~/Stata4Econ//gen/group/fs\_group.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)
```