

```

. 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. given a discrete variable
>   2. recode the discrete variable to reduce the number of categories, generate larger category
>
> */
.
. ///--- Start log
> set more off

. capture log close _all

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

. global st_link "/gen/replace/fs_recode"

. 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\replace/fs_recode.smcl not found)

name:   stata_recode_discrete_subset
log:    C:\Users\fan\Stata4Econ\gen\replace/fs_recode.smcl
log type: smcl
opened on: 6 Oct 2019, 20:10:08

. 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 Recode a Discrete Variable with Alternative Labels and Values Subgroups"

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

. sysuse auto, clear
(1978 Automobile Data)

.
. capture drop turn_m5

. recode turn ///
>   (min/35 = 1 "Turn <35") ///
>   (36 = 2 "Turn = 36") ///
>   (37 = 3 "Turn = 37") ///
>   (38/45 = 4 "Turn 38 to 45") ///
>   (46/max = 5 "Turn > 45") ///
>   (else =. ) ///
>   , gen(turn_m5)
(74 differences between turn and turn_m5)

```

```
. ///--- Summarize
> codebook turn*
```

turn

```

      type:  numeric (int)
      range:  [31,51]
unique values: 18
      units:  1
      missing.: 0/74

      mean:   39.6486
      std. dev: 4.39935

percentiles:      10%      25%      50%      75%      90%
                  34       36       40       43       45

```

turn\_m5 RECODE

```

      type:  numeric (int)
      label:  turn_m5

      range:  [1,5]
unique values: 5
      units:  1
      missing.: 0/74

      tabulation:  Freq.  Numeric  Label
                   16         1  Turn <35
                   9         2  Turn = 36
                   4         3  Turn = 37
                  39         4  Turn 38 to 45
                   6         5  Turn > 45

```

```
. tab turn_m5
```

RECODE of turn (Turn Circle (ft.) )	Freq.	Percent	Cum.
Turn <35	16	21.62	21.62
Turn = 36	9	12.16	33.78
Turn = 37	4	5.41	39.19
Turn 38 to 45	39	52.70	91.89
Turn > 45	6	8.11	100.00
Total	74	100.00	

```
. tab turn turn_m5
```

Turn Circle (ft.)	RECODE of turn (Turn Circle (ft.) )					Total
	Turn <35	Turn = 36	Turn = 37	Turn 38 t	Turn > 45	
31	1	0	0	0	0	1
32	1	0	0	0	0	1
33	2	0	0	0	0	2
34	6	0	0	0	0	6
35	6	0	0	0	0	6
36	0	9	0	0	0	9
37	0	0	4	0	0	4
38	0	0	0	3	0	3
39	0	0	0	1	0	1
40	0	0	0	6	0	6
41	0	0	0	4	0	4
42	0	0	0	7	0	7
43	0	0	0	12	0	12
44	0	0	0	3	0	3
45	0	0	0	3	0	3
46	0	0	0	0	3	3
48	0	0	0	0	2	2
51	0	0	0	0	1	1
Total	16	9	4	39	6	74

```
.  
. //--- End Log and to HTML  
> log close _all  
      name: stata_recode_discrete_subset  
      log:  C:\Users\fan\Stata4Econ\gen\replace\fs_recode.smcl  
      log type: smcl  
closed on:  6 Oct 2019, 20:10:08
```

---

```
. 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/gen/replace/fs_recode.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)
```