

```

. 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/
>
> Generate loops in Stata
>
> */
.
. ///--- 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 "/prog/basics/fs_label"

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

. global st_logname "stata_fs_label"

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

```

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```

      name:  stata_fs_label
      log:   C:\Users\fan\Stata4Econ\prog\basics/fs_label.smcl
log type:  smcl
opened on:  7 May 2020, 20:28:04

. 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 "Labeling Stata Variables, and Get Label and all Value Labels from Variables"

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

. sysuse auto, clear
(1978 Automobile Data)

.

```

```

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. //////////////////////////////////////
> ///--- Labeling
> //////////////////////////////////////
>
. label variable make "Make and Model from the mtcars dataset"

.

. label define foreign_lab 0 "domestic made" 1 "foreign made", modify

. label values foreign foreign_lab

.
. //////////////////////////////////////
> ///--- Get Label Values
> //////////////////////////////////////
>
. ///--- Variable Labels show
> labelbook foreign_lab, d

```

---

```

value label foreign_lab

```

---

values	labels
range: [0,1]	string length: [12,13]
N: 2	unique at full length: <b>yes</b>
gaps: <b>no</b>	unique at length 12: <b>yes</b>
missing .*: 0	null string: <b>no</b>
	leading/trailing blanks: <b>no</b>
	numeric -> numeric: <b>no</b>

**definition**

0	<b><u>domestic made</u></b>
1	<b><u>foreign made</u></b>

variables: **foreign**

```

.
. ///--- Get Variable Label and Values hard-coded
> local st_var_label : variable label foreign

. local st_foreign_val_0_lab : label foreign_lab 0

. local st_foreign_val_1_lab : label foreign_lab 1

.
. di "st_var_label:`st_var_label'"
st_var_label:Car type

. di "st_foreign_val_0_lab:`st_foreign_val_0_lab'"
st_foreign_val_0_lab:domestic made

. di "st_foreign_val_1_lab:`st_foreign_val_1_lab'"
st_foreign_val_1_lab:foreign made

.
. ///--- Get Variable Label and Values more Automated
> /*
> For automated value printing etc:
> Given Variable Name:
> 1. get the label of the variable
> 2. get all label values
> */

.
. * 0. Var name
. global st_var "foreign"

.
. * 1. get variable label
. local st_var_label : variable label ${st_var}

```

```
. global st_var_label `st_var_label'

. * 2. all values of foreign label
. local st_var_val_lab_name: value label `${st_var}

. levelsof `${st_var}', local(ls_var_levels) clean
0 1

. di "`st_var_val_lab_name'"
foreign_lab

. di "`ls_var_levels'"
0 1

. * 3. all label values
. global st_var_val_labs ""

. local it_ctr = 0

. foreach it_foreign_lvl of numlist `ls_var_levels' {
2.     local foreign_lvl_lab : label `st_var_val_lab_name' `it_foreign_lvl'
3.     di "`it_foreign_lvl':`foreign_lvl_lab'"
4.     local it_ctr = `it_ctr' + 1
5.     if (`it_ctr' > 1 ){
6.         global st_var_val_labs `${st_var_val_labs}, "
7.     }
8.     global st_var_val_labs `${st_var_val_labs}`it_foreign_lvl'=`foreign_lvl_lab'"
9. }
0:domestic made
1:foreign made

. * 4. final outputs
. di "${st_var_label}"
Car type

. di "For Outcome `${st_var_label}': `${st_var_val_labs}"
For Outcome Car type: 0=domestic made, 1=foreign made
```

```
.
.
. ///--- End Log and to HTML
> log close _all
    name: stata_fs_label
    log: C:\Users\Fan\Stata4Econ\prog\basics\fs_label.smcl
    log type: smcl
closed on: 7 May 2020, 20:28:04
```

```
. 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/Stata4Econ

HTML log file ~/Stata4Econ\prog\basics\fs_label.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)
```