```
. 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. boolean control in stata
> */
.
. ///--- Start log
> set more off

. capture log close

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

. global curlogfile "~\Stata4Econ\prog\define\fs_boolean"

. log using "${curlogfile}" , replace
(note: file C:\Users\fan\Stata4Econ\prog\define\fs_boolean.smcl not found)
-------------------------------------------------------------------------------
      name:  <unnamed>
       log:  C:\Users\fan\Stata4Econ\prog\define\fs_boolean.smcl
  log type:  smcl
 opened on:  20 Sep 2019, 14:19:00

. log on
(log already on)

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

. sysuse auto, clear
(1978 Automobile Data)

.
.
. ///--- Control
> local bl_includereg1 = 1

. local bl_includereg2 = 0

. global bl_includereg3 = 0

. global bl_includereg4 = 1

.
. ///--- Define Multiple Variables as global in delimit
>         #delimit;
delimiter now ;
.         global vars_rhs "
>                 mpg
>                 ib1.rep78
>                 headroom trunk
>                 weight
>           ";

.         #delimit cr
delimiter now cr
.
.         di `"$vars_rhs"'
              mpg                ib1.rep78                 headroom trunk                  weight

.
. ///--- Define String with Quotes
>         #delimit;
delimiter now ;
.         global st_coef_label "
>                 mpg "mpg variable"
>                 1.rep78 "BASE GROUP CONSTANT = rep78 is 1"
>                 2.rep78 "rep78 is 2"
>                 3.rep78 "rep78 is 3"
>                 4.rep78 "rep78 is 4"
>                 5.rep78 "rep78 is 5"
>                 headroom "headroom variable"
>                 trunk "this is the trunk variable"
>                 weight "and here the weight variable"
>           ";

.         #delimit cr
delimiter now cr
.
.         di `"$st_coef_label"'
              mpg "mpg variable"                1.rep78 "BASE GROUP CONSTANT = rep78 is 1"                2.rep78 "rep78 is 2"
> 5.rep78 "rep78 is 5"                headroom "headroom variable"                trunk "this is the trunk variable"                wei

.
. ///--- Describe and Summarize
>         d $rhs_vars_list, f

Contains data from C:\Program Files (x86)\Stata14\ado\base/a/auto.dta
  obs:            74                          1978 Automobile Data
 vars:            12                          13 Apr 2014 17:45
 size:         3,182                          (_dta has notes)
-------------------------------------------------------------------------------
              storage   display    value
variable 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 type**

Sorted by: **foreign**

```
.         summ $rhs_vars_list
```

Variable	Obs	Mean	Std. Dev.	Min	Max
make	**0**				
price	**74**	**6165.257**	**2949.496**	**3291**	**15906**
mpg	**74**	**21.2973**	**5.785503**	**12**	**41**
rep78	**69**	**3.405797**	**.9899323**	**1**	**5**
headroom	**74**	**2.993243**	**.8459948**	**1.5**	**5**
trunk	**74**	**13.75676**	**4.277404**	**5**	**23**
weight	**74**	**3019.459**	**777.1936**	**1760**	**4840**
length	**74**	**187.9324**	**22.26634**	**142**	**233**
turn	**74**	**39.64865**	**4.399354**	**31**	**51**
displacement	**74**	**197.2973**	**91.83722**	**79**	**425**
gear_ratio	**74**	**3.014865**	**.4562871**	**2.19**	**3.89**
foreign	**74**	**.2972973**	**.4601885**	**0**	**1**

```
.
. ///--- Run Regression
>
.         eststo clear

. if (`bl_includereg1') {
.         eststo, title("reg1"): regress price $vars_rhs if foreign == 0
```

Source	SS	df	MS		
				Number of obs	= **48**
				F(8, 39)	= **6.08**
Model	**265270208**	**8**	**33158776**	Prob > F	= **0.0000**
Residual	**212697489**	**39**	**5453781.76**	R-squared	= **0.5550**
				Adj R-squared	= **0.4637**
Total	**477967697**	**47**	**10169525.5**	Root MSE	= **2335.3**

price	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
mpg	**92.54338**	**163.0892**	**0.57**	**0.574**	**-237.3357**	**422.4224**
rep78						
2	**1582.106**	**1987.532**	**0.80**	**0.431**	**-2438.058**	**5602.269**
3	**1832.208**	**1869.079**	**0.98**	**0.333**	**-1948.361**	**5612.776**
4	**921.8792**	**2015.345**	**0.46**	**0.650**	**-3154.542**	**4998.3**
5	**4172.732**	**2681.573**	**1.56**	**0.128**	**-1251.261**	**9596.725**
headroom	**-436.3395**	**519.777**	**-0.84**	**0.406**	**-1487.688**	**615.0087**
trunk	**-76.14985**	**136.1647**	**-0.56**	**0.579**	**-351.5689**	**199.2692**
weight	**4.610868**	**1.053809**	**4.38**	**0.000**	**2.479338**	**6.742399**
_cons	**-10261.73**	**6562.752**	**-1.56**	**0.126**	**-23536.15**	**3012.686**

(**est1** stored)
```
. }

. if (`bl_includereg2') {
.         eststo, title("reg2"): regress price $vars_rhs if foreign == 1
. }

. if ($bl_includereg3) {
.     eststo, title("reg3"): regress price $vars_rhs if foreign == 1
. }

. if ($bl_includereg4) {
.     eststo, title("reg4"): regress price $vars_rhs if foreign == 1
note: 1b.rep78 identifies no observations in the sample
note: 5.rep78 omitted because of collinearity
```

Source	SS	df	MS		
				Number of obs	= **21**
				F(6, 14)	= **8.35**
Model	**77099791.3**	**6**	**12849965.2**	Prob > F	= **0.0006**
Residual	**21555563.2**	**14**	**1539683.09**	R-squared	= **0.7815**
				Adj R-squared	= **0.6879**
Total	**98655354.6**	**20**	**4932767.73**	Root MSE	= **1240.8**

price	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
mpg	**41.78335**	**69.31091**	**0.60**	**0.556**	**-106.8738**	**190.4405**
rep78						
1	**0**	(empty)				
3	**866.061**	**1060.461**	**0.82**	**0.428**	**-1408.402**	**3140.524**
4	**1367.986**	**686.8411**	**1.99**	**0.066**	**-105.1419**	**2841.114**
5	**0**	(omitted)				
headroom	**-237.1521**	**660.3787**	**-0.36**	**0.725**	**-1653.524**	**1179.219**
trunk	**155.15**	**94.41051**	**1.64**	**0.123**	**-47.34039**	**357.6404**
weight	**5.747012**	**1.259762**	**4.56**	**0.000**	**3.045091**	**8.448933**
_cons	**-9844.945**	**4889.272**	**-2.01**	**0.064**	**-20331.39**	**641.4998**

(**est2** stored)
```
. }

.         esttab, title("include reg 1 2 and 4 but not 4") ///
>                 mtitle ///
>                 coeflabels($st_coef_label) ///
>                 varwidth(50)
```

include reg 1 2 and 4 but not 4

	(1) reg1	(2) reg4
mpg variable	**92.54**	**41.78**
	(**0.57**)	(**0.60**)
BASE GROUP CONSTANT = rep78 is 1	**0**	**0**
	(.)	(.)

rep78 is 2	**1582.1**	
	(**0.80**)	
rep78 is 3	**1832.2**	**866.1**
	(**0.98**)	(**0.82**)
rep78 is 4	**921.9**	**1368.0**
	(**0.46**)	(**1.99**)
rep78 is 5	**4172.7**	**0**
	(**1.56**)	(.)
headroom variable	**-436.3**	**-237.2**
	(**-0.84**)	(**-0.36**)
this is the trunk variable	**-76.15**	**155.2**
	(**-0.56**)	(**1.64**)
and here the weight variable	**4.611*** **	**5.747*** **
	(**4.38**)	(**4.56**)
_cons	**-10261.7**	**-9844.9**
	(**-1.56**)	(**-2.01**)
N	**48**	**21**

t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001

```
.
. ///--- End Log and to HTML
> log close
      name:  <unnamed>
       log:  C:\Users\fan\Stata4Econ\prog\define\fs_boolean.smcl
  log type:  smcl
 closed on:  20 Sep 2019, 14:19:04
```

```
. capture noisily {
.   log2html "${curlogfile}", replace

HTML log file ~\Stata4Econ\prog\define\fs_boolean.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 11.69
.         translator set Results2pdf pageheight 16.53
.         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)
```