```
. 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:\Program Files (x86)\Stata14

. 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:  13 Oct 2019, 14:24:15

. 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

. scalar bl_includereg5 = 0

. scalar bl_includereg6 = 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"          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"

.
. ///--- 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)
```

variable name	storage type	display format	value 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		
Model	265270208	8	33158776	Number of obs = 48
Residual	212697489	39	5453781.76	F(8, 39) = 6.08
				Prob > F = 0.0000
				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		
Model	77099791.3	6	12849965.2	Number of obs = 21
Residual	21555563.2	14	1539683.09	F(6, 14) = 8.35
				Prob > F = 0.0006
				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)

```
. if (bl_includereg5) {
.     eststo, title("reg5"): regress price $vars_rhs if foreign == 1
. }

. if (bl_includereg6) {
.     eststo, title("reg6"): 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		
Model	77099791.3	6	12849965.2	Number of obs = 21
Residual	21555563.2	14	1539683.09	F(6, 14) = 8.35
				Prob > F = 0.0006
				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

```
(est3 stored)
. }

.     esttab, title("include reg 1 2 and 4 but not 3, and 6 but not 5.") ///
>         mtitle ///
>         coeflabels($st_coef_label) ///
>         varwidth(50)

include reg 1 2 and 4 but not 3, and 6 but not 5.
```

	(1) reg1	(2) reg4	(3) reg6
mpg variable	92.54 (0.57)	41.78 (0.60)	41.78 (0.60)
BASE GROUP CONSTANT = rep78 is 1	0 (.)	0 (.)	0 (.)
rep78 is 2	1582.1 (0.80)		
rep78 is 3	1832.2 (0.98)	866.1 (0.82)	866.1 (0.82)
rep78 is 4	921.9 (0.46)	1368.0 (1.99)	1368.0 (1.99)
rep78 is 5	4172.7 (1.56)	0 (.)	0 (.)
headroom variable	-436.3 (-0.84)	-237.2 (-0.36)	-237.2 (-0.36)
this is the trunk variable	-76.15 (-0.56)	155.2 (1.64)	155.2 (1.64)
and here the weight variable	4.611*** (4.38)	5.747*** (4.56)	5.747*** (4.56)
_cons	-10261.7 (-1.56)	-9844.9 (-2.01)	-9844.9 (-2.01)
N	48	21	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:  13 Oct 2019, 14:24:16
```

```
. 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)
```