

```

. 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
>
> Stata matrix basic generation and matrix slicing
>
> 1. Generate Matrix
> 2. Replace single cell values from matrix
> 3. Replace subset of matrix by row or column array
> 4. Row and Column Names
> 5. Retrieve matrix row and column values
>
> */
.
. ///--- Start log
> set more off

. capture log close

.
. cd "${root_log}"
C:\Users\fan\Documents\Dropbox (UH-ECON)\Profile Paper\Paper Profile April 2016\stata

. global curlogfile "~\Stata4Econ\matrix\define\basic"

. log using "${curlogfile}" , replace
(note: file C:\Users\fan\Stata4Econ\matrix\define\basic.smcl not found)


---


name: <unnamed>
log: C:\Users\fan\Stata4Econ\matrix\define\basic.smcl
log type: smcl
opened on: 24 Aug 2019, 16:27:13

. log on
(log already on)

.
. ///--- Generate matrix with all 0
> scalar it_rowcnt = 4

.
. scalar it_colcnt = 6

.
. scalar bl_fillval = 0

.
. matrix mt_bl_estd = J(it_rowcnt, it_colcnt, bl_fillval)

.
. ///--- Give Matrix Row and Column Names
> matrix rownames mt_bl_estd = hhfe vilfe provfe morecontrols

.
. matrix colnames mt_bl_estd = reg1 reg2 reg3 reg4 reg5 reg6

.
. ///--- Assign value to matrix cell single
> matrix mt_bl_estd[rownumb(mt_bl_estd, "hhfe"), colnumb(mt_bl_estd, "reg1")] = 1

.
. matrix mt_bl_estd[2,2] = 3

.
. ///--- Assign value to 4th row, 3rd to 6th
> matrix mt_bl_estd[4,3] = (9,8,7,6)

.
. ///--- Assign value to 4th column, 2nd 3rd values
> matrix mt_bl_estd[2,4] = (-3\ -44.3)

.
. ///--- Obtain value from matrix
> scalar bl_hhfe_reg1 = mt_bl_estd[rownumb(mt_bl_estd, "hhfe"), colnumb(mt_bl_estd, "reg1")]

.
. di bl_hhfe_reg1
1

```

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. Saturday August 24 16:27:14 2019 Page 2
. di el(mt_bl_estd, rownumb(mt_bl_estd, "hhfe"), colnumb(mt_bl_estd, "reg1"))
1

.
. ///--- Select a column from matrix
> matrix mt_bl_estd_colreg1 = mt_bl_estd[1..., colnumb(mt_bl_estd, "reg1")]

. matrix list mt_bl_estd_colreg1

mt_bl_estd_colreg1[4,1]
      reg1
      hhfe    1
      vilfe    0
      provfe    0
morecontrols    0

.
. ///--- Get Row and Column Names
> global st_colnames : colnames mt_bl_estd

. di "${st_colnames}"
reg1 reg2 reg3 reg4 reg5 reg6

. global st_rownames : rownames mt_bl_estd

. di "${st_rownames}"
hhfe vilfe provfe morecontrols

.
. ///--- Show Matrix
> matrix list mt_bl_estd

mt_bl_estd[4,6]
      reg1    reg2    reg3    reg4    reg5    reg6
      hhfe    1      0      0      0      0      0
      vilfe    0      3      0      -3     0      0
      provfe    0      0      0    -44.3    0      0
morecontrols    0      0      9      8      7      6

.
. ///--- End Log and to HTML
> log close
name: <unnamed>
log: C:\Users\fan\Stata4Econ\matrix\define\basic.smcl
log type: smcl
closed on: 24 Aug 2019, 16:27:13

```

```

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

HTML log file ~\Stata4Econ\matrix\define\basic.html created
. }

```

```

. ///--- to PDF
> capture noisily {
.   // translator query Results2pdf
.   translator set Results2pdf logo off
.   translator set Results2pdf fontsize 8
.   translator set Results2pdf pagesize letter
.   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)
. }

```