

```

    name: <unnamed>
    log: C:\Users\fan\Stata4Econ\matrix\define\basic.smcl
    log type: smcl
opened on: 12 Aug 2019, 17:01:36

1 . log on
(log already on)

2 .
3 . ///--- Generate matrix with all 0
> scalar it_rowcnt = 4

4 . scalar it_colcnt = 6

5 . scalar bl_fillval = 0

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

7 .
8 . ///--- Give Matrix Row and Column Names
> matrix rownames mt_bl_estd = hhfe vilfe provfe morecontrols

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

10.
11. ///--- Assign value to matrix cell single
> matrix mt_bl_estd[rownumb(mt_bl_estd, "hhfe"), colnumb(mt_bl_estd, "reg1")] = 1

12. matrix mt_bl_estd[2,2] = 3

13.
14. ///--- Assign value to 4th row, 3nd to 6th
> matrix mt_bl_estd[4,3] = (9,8,7,6)

15.
16. ///--- Assign value to 4th column, 2nd 3rd values
> matrix mt_bl_estd[2,4] = (-3\ -44.3)

17.
18. ///--- Obtain value from matrix
> scalar bl_hhfe_reg1 = mt_bl_estd[rownumb(mt_bl_estd, "hhfe"), colnumb(mt_bl_estd, "reg1")]

19. di bl_hhfe_reg1
1

20. di el(mt_bl_estd, rownumb(mt_bl_estd, "hhfe"), colnumb(mt_bl_estd, "reg1"))
1

21.
22. ///--- Select a column from matrix
> matrix mt_bl_estd_colreg1 = mt_bl_estd[1..., colnumb(mt_bl_estd, "reg1")]

23. matrix list mt_bl_estd_colreg1

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

24.
25. ///--- Get Row and Column Names
> global st_colnames : colnames mt_bl_estd

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

27. global st_rownames : rownames mt_bl_estd

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

29.
30. ///--- Show Matrix
> matrix list mt_bl_estd

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

31.
32. ///--- End Log and to HTML
> log close
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