Matrix

Matrix - Text Output - May 16, 2019

```
Run MATRIX procedure:

*************** PROCESS Procedure for SPSS Version 3.3 ******************

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    Documentation available in Hayes (2018). www.guilford.com/p/hayes3

**************************************************************************
Model  : 4
    Y  : voting_i
    X  : microtar
   M1  : positive
   M2  : negative
   M3  : cognitio

Sample
Size:  599

Coding of categorical X variable for analysis:
 microtar       X1       X2
     ,000     ,000     ,000
    1,000    1,000     ,000
    2,000     ,000    1,000

**************************************************************************
OUTCOME VARIABLE:
 positive

Model Summary
          R       R-sq        MSE          F        df1        df2          p
       ,029       ,001       ,956       ,256      2,000    596,000       ,775

Model
              coeff         se          t          p       LLCI       ULCI
constant      2,878       ,088     32,645       ,000      2,705      3,051
X1            -,088       ,125      -,703       ,482      -,333       ,157
X2            -,033       ,102      -,327       ,744      -,234       ,168

Standardized coefficients
        coeff
X1      -,090
X2      -,034

**************************************************************************
OUTCOME VARIABLE:
 negative

Model Summary
          R       R-sq        MSE          F        df1        df2          p
       ,160       ,026      1,220      7,825      2,000    596,000       ,000

Model
              coeff         se          t          p       LLCI       ULCI
constant      3,925       ,100     39,420       ,000      3,730      4,121
X1            -,220       ,141     -1,561       ,119      -,497       ,057
X2            -,443       ,116     -3,835       ,000      -,670      -,216

Standardized coefficients
        coeff
X1      -,197
X2      -,397

**************************************************************************
OUTCOME VARIABLE:
 cognitio
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X2              ,061        ,111        ,540        ,565       -,157        ,276


Standardized coefficients
        coeff
X1       ,124
X2       ,057

************************************************************************
OUTCOME VARIABLE:
 voting_i

Model Summary
          R       R-sq        MSE          F        df1        df2          p
       ,479       ,229      1,075     35,309      5,000    593,000       ,000

Model
             coeff         se          t          p       LLCI       ULCI
constant     1,529       ,207      7,373       ,000      1,122      1,936
X1           -,304       ,133     -2,283       ,023       -,566      -,042
X2           -,060       ,110       -,547       ,584       -,276       ,156
positive      ,559       ,057      9,842       ,000       ,448       ,671
negative     -,098       ,039     -2,527       ,012       -,175      -,022
cognitio      ,014       ,052       ,276       ,782       -,088       ,117

Standardized coefficients
             coeff
X1           -,258
X2           -,051
positive      ,464
negative     -,093
cognitio      ,013

************************* TOTAL EFFECT MODEL ****************************
OUTCOME VARIABLE:
 voting_i

Model Summary
          R       R-sq        MSE          F        df1        df2          p
       ,105       ,011      1,373      3,310      2,000    596,000       ,037

Model
             coeff         se          t          p       LLCI       ULCI
constant     2,789       ,106     26,392       ,000      2,581      2,996
X1           -,330       ,150     -2,201       ,028       -,624      -,036
X2           -,034       ,123       -,280       ,779       -,275       ,206

Standardized coefficients
        coeff
X1       -,280
X2       -,029

************** TOTAL, DIRECT, AND INDIRECT EFFECTS OF X ON Y **************

Relative total effects of X on Y:
       Effect         se          t          p       LLCI       ULCI       c_ps
X1       -,330       ,150     -2,201       ,028       -,624      -,036       -,280
X2       -,034       ,123       -,280       ,779       -,275       ,206       -,029

Omnibus test of total effect of X on Y:
    R2-chng          F        df1        df2          p
       ,011      3,310      2,000    596,000       ,037
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Relative direct effects of X on Y
       Effect         se          t          p       LLCI       ULCI      c'_ps
X1       -,304       ,133     -2,283       ,023       -,566      -,042       -,258
X2       -,060       ,110       -,547       ,584       -,276       ,156       -,051
```

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```
 microtar    ->    positive    ->    voting_i


       Effect     BootSE   BootLLCI   BootULCI
X1      -,049       ,068      -,184       ,084
X2      -,019       ,058      -,133       ,096

 microtar    ->    negative    ->    voting_i

       Effect     BootSE   BootLLCI   BootULCI
X1       ,022       ,018      -,006       ,066
X2       ,044       ,023       ,007       ,096

 microtar    ->    cognitio    ->    voting_i

       Effect     BootSE   BootLLCI   BootULCI
X1       ,002       ,011      -,020       ,029
X2       ,001       ,007      -,014       ,019

Partially standardized relative indirect effect(s) of X on Y:

 microtar    ->    positive    ->    voting_i

       Effect     BootSE   BootLLCI   BootULCI
X1      -,042       ,058      -,157       ,072
X2      -,016       ,049      -,114       ,082

 microtar    ->    negative    ->    voting_i

       Effect     BootSE   BootLLCI   BootULCI
X1       ,018       ,016      -,005       ,056
X2       ,037       ,019       ,006       ,081

 microtar    ->    cognitio    ->    voting_i

       Effect     BootSE   BootLLCI   BootULCI
X1       ,002       ,010      -,017       ,025
X2       ,001       ,006      -,012       ,016

************************ ANALYSIS NOTES AND ERRORS ************************

Level of confidence for all confidence intervals in output:
  95,0000

Number of bootstrap samples for percentile bootstrap confidence intervals:
  5000

NOTE: Standardized coefficients for dichotomous or multicategorical X are in
      partially standardized form.

NOTE: Variables names longer than eight characters can produce incorrect output.
      Shorter variable names are recommended.

------ END MATRIX -----
```