BISR: gait

Date: 2016-11-15

## Legend

* Cov(Slopes) = raw covariance
* Corr(Slopes)Est = correlation , ESTimated in Mplus
* CI(Slopes)Est = Confidence intervals estimated in Mplus
* Corr(Slopes)Comp = correlation, computed outside of Mplus

Note: cases in which restricted (co)variances or insufficient decimals prevent the computation of correlations are marked by ---

Raw covariance and estimated correlations are reported in the form : est(se) pval star  
where  
- est is the covariance estimate on the original metric  
- se is the standard error on the original metric  
- pval is the p-value associated with the raw covariance  
- star is significance indicator associated with corresponding covariance estimate, with ., \*, \*\*, and \*\*\* indicating significance at .10, .05, .01, and .001 alpha levels, respectively

Confidence intervals for estimated correlations are reported in the form: (low,high) where - low - bottom boundry of the 95% confidence interval - high - top boundry of the 95% confidence interval

Computed correlations are reported in the form: est(low, high)  
where  
- est is the correlation coefficient computed from raw (co)variances using Fisher transfrom  
- low and high are the 95% confidence intervals associated with the computed correlations

# male

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Cov(Levels) | Corr(Levels)Est | CI(Levels)Est | Corr(Levels)Comp | Cov(Slopes) | Corr(Slopes)Est | CI(Slopes)Est | Corr(Slopes)Comp | Cov(Residuals) | Corr(Resid)Est | CI(Resid)Est | Corr(Residuals)Comp |
| attention | map | grip | digit\_f | 351 | 1.36(1.60), =.40 | --- | --- | .06(-.04, .17) | -.02( .09), =.86 | --- | --- | -.07(-.17, .03) | .40( .34), =.25 | --- | --- | .06(-.05, .16) |
| attention | octo | grip | digit\_f | 139 | -.29( .26), =.27 | -.15( .13), =.24 | (-.40, .10) | -.15(-.31, .01) | .00( .01), =.50 | .24( .36), =.51 | (-.47, .95) | .23( .07, .38) | -.07( .06), =.30 | -.07( .07), =.30 | (-.21, .06) | -.07(-.24, .09) |
| attention | satsa | grip | digit\_f | 299 | .92( .62), =.14 | .19( .12), =.12 | (-.05, .43) | .19( .08, .30) | .00( .00), =.61 | .40( .77), =.60 | (-1.11,1.92) | --- | .17( .25), =.49 | .04( .05), =.49 | (-.06, .13) | .04(-.07, .15) |
| attention | hrs | grip | serial7 | 3288 | .82( .21), <.01 \*\*\* | .15( .04), <.01 \*\*\* | ( .08, .23) | .16( .12, .19) | .02( .01), <.01 \*\* | .30( .11), =.01 \*\* | ( .08, .52) | .31( .28, .34) | -.17( .12), =.17 | -.04( .03), =.17 | (-.09, .01) | -.04(-.07,-.00) |
| episodic memory | map | grip | bstory\_de | 351 | 2.48(1.81), =.17 | --- | --- | .12( .02, .22) | -.09( .13), =.49 | --- | --- | -.45(-.53,-.36) | .39( .43), =.36 | --- | --- | .04(-.06, .14) |
| episodic memory | satsa | grip | information | 410 | 2.57(2.39), =.28 | .10( .10), =.28 | (-.08, .29) | .10( .01, .20) | .03( .01), =.03 \* | .65( .25), =.01 \*\* | ( .16,1.14) | .64( .58, .69) | .85( .57), =.14 | .05( .04), =.13 | (-.02, .12) | .05(-.04, .15) |
| episodic memory | map | grip | logic\_de | 351 | -1.43(4.18), =.73 | --- | --- | -.03(-.13, .08) | -.26( .22), =.23 | --- | --- | -.25(-.34,-.15) | 1.09( .62), =.08 . | --- | --- | .08(-.02, .18) |
| episodic memory | eas | grip | logic\_tot | 72 | -4.23(11.27), =.71 | -.15( .43), =.72 | (-.99, .68) | -.15(-.37, .08) | -.25( .82), =.76 | -.46(1.40), =.74 | (-3.21,2.28) | -.46(-.63,-.26) | 2.49(2.79), =.37 | .16( .18), =.38 | (-.20, .52) | .16(-.07, .38) |
| episodic memory | ilse | grip | waisgeneral | 252 | 7.82(6.86), =.26 | .12( .11), =.25 | (-.09, .33) | .12(-.00, .24) | .01( .06), =.82 | .23(1.11), =.83 | (-1.94,2.41) | .22( .10, .34) | -.87(1.91), =.65 | -.04( .08), =.65 | (-.20, .12) | -.04(-.16, .09) |
| executive function | eas | grip | trailsb | 72 | 61.76(90.45), =.49 | .31( .42), =.47 | (-.53,1.14) | .31( .08, .50) | 1.81(7.92), =.82 | .62(2.71), =.82 | (-4.68,5.92) | .62( .45, .74) | -14.59(35.12), =.68 | -.08( .20), =.68 | (-.49, .32) | -.08(-.31, .15) |
| fluency | eas | grip | categories | 72 | -8.80(13.33), =.51 | -.22( .32), =.49 | (-.84, .41) | -.22(-.43, .01) | -.37( .82), =.65 | -.60(1.22), =.62 | (-2.99,1.79) | -.60(-.73,-.43) | 1.81(2.72), =.51 | .09( .14), =.51 | (-.19, .37) | .09(-.14, .32) |
| fluency | map | grip | categories | 351 | 8.73(7.63), =.25 | --- | --- | .08(-.02, .19) | .20( .38), =.60 | --- | --- | .18( .08, .28) | .53(1.25), =.67 | --- | --- | .02(-.08, .12) |
| fluency | eas | grip | fas | 72 | -15.30(17.41), =.38 | -.32( .34), =.34 | (-.98, .34) | -.32(-.51,-.10) | -.22( .88), =.80 | -.48(1.71), =.78 | (-3.83,2.88) | -.48(-.64,-.28) | -.58(4.16), =.89 | -.03( .19), =.89 | (-.40, .35) | -.03(-.26, .21) |
| fluency | ilse | grip | fluency | 252 | 9.48(13.28), =.47 | .07( .10), =.47 | (-.13, .27) | .07(-.05, .20) | .04( .15), =.80 | .19( .76), =.80 | (-1.30,1.69) | .19( .07, .31) | 13.29(5.00), =.01 \*\* | .21( .07), <.01 \*\* | ( .06, .35) | .21( .09, .32) |
| fluid reasoning | satsa | grip | analogies | 299 | 1.99(1.84), =.28 | .13( .11), =.27 | (-.10, .35) | .13( .01, .24) | .01( .01), =.15 | .69( .53), =.19 | (-.35,1.73) | .67( .60, .73) | 2.35( .69), <.01 \*\*\* | .17( .05), <.01 \*\*\* | ( .07, .26) | .17( .06, .28) |
| fluid reasoning | eas | grip | block | 72 | 5.53(15.77), =.73 | .16( .48), =.74 | (-.79,1.11) | .16(-.07, .38) | .23(1.01), =.82 | .79(3.83), =.84 | (-6.72,8.29) | .78( .67, .86) | .10(3.87), =.98 | .00( .19), =.98 | (-.37, .38) | .01(-.23, .24) |
| fluid reasoning | octo | grip | block | 139 | 3.62(1.22), <.01 \*\* | .30( .09), <.01 \*\*\* | ( .13, .47) | .30( .14, .45) | -.01( .03), =.74 | -.25(1.03), =.80 | (-2.26,1.76) | -.25(-.40,-.08) | .52( .24), =.03 \* | .14( .06), =.02 \* | ( .02, .26) | .14(-.03, .30) |
| fluid reasoning | satsa | grip | block | 298 | 13.31(3.74), <.01 \*\*\* | .40( .09), <.01 \*\*\* | ( .23, .58) | .40( .30, .49) | .03( .01), =.05 \* | .79( .44), =.07 . | (-.08,1.66) | .78( .73, .82) | 2.52( .90), <.01 \*\* | .14( .05), <.01 \*\* | ( .04, .23) | .12( .01, .23) |
| fluid reasoning | map | grip | matrices | 351 | 4.88(2.38), =.04 \* | --- | --- | .18( .08, .28) | .28( .13), =.03 \* | --- | --- | .61( .54, .67) | -.06( .58), =.92 | --- | --- | -.01(-.11, .10) |
| fluid reasoning | lasa | grip | raven | 800 | 2.65( .89), <.01 \*\* | .17( .05), <.01 \*\* | ( .06, .27) | .17( .10, .23) | .02( .01), =.02 \* | .93( .69), =.18 | (-.43,2.28) | .92( .91, .93) | .70( .31), =.03 \* | .07( .03), =.02 \* | ( .01, .14) | .08( .01, .14) |
| fluid reasoning | satsa | grip | rotate | 299 | 32.45(9.82), <.01 \*\*\* | .36( .09), <.01 \*\*\* | ( .18, .54) | .36( .25, .45) | -.01( .05), =.80 | -.13( .55), =.81 | (-1.20, .94) | -.13(-.24,-.02) | 6.04(3.15), =.06 . | .10( .05), =.05 . | (-.00, .20) | .10(-.02, .21) |
| fluid reasoning | ilse | grip | spatial\_ab | 252 | 18.41(9.77), =.06 . | .18( .10), =.06 . | (-.01, .38) | .18( .06, .30) | .17( .14), =.22 | .41( .33), =.21 | (-.23,1.06) | .41( .30, .51) | -1.59(2.61), =.54 | -.04( .07), =.54 | (-.18, .09) | -.04(-.17, .08) |
| mental status | nuage | grip | mmms | 847 | 5.49(2.04), =.01 \*\* | .13( .05), =.01 \*\* | ( .04, .22) | .13( .06, .20) | .33( .23), =.16 | .28( .21), =.19 | (-.14, .70) | .28( .22, .34) | -.71( .47), =.13 | -.04( .02), =.13 | (-.08, .01) | -.04(-.10, .03) |
| mental status | eas | grip | mmse | 72 | -.09(2.03), =.96 | -.03( .71), =.96 | (-1.42,1.35) | -.03(-.26, .20) | .06( .15), =.66 | .65(1.59), =.68 | (-2.46,3.76) | .64( .48, .76) | .07( .42), =.87 | .02( .13), =.87 | (-.23, .27) | .02(-.21, .25) |
| mental status | map | grip | mmse | 351 | 4.58(2.18), =.04 \* | --- | --- | .19( .08, .28) | .25( .20), =.21 | --- | --- | .33( .23, .42) | .16( .42), =.71 | --- | --- | .02(-.09, .12) |
| mental status | nuage | grip | mmse | 847 | 2.28( .74), <.01 \*\* | .18( .06), <.01 \*\* | ( .07, .30) | .18( .12, .25) | .13( .11), =.23 | .30( .25), =.23 | (-.19, .79) | .30( .24, .36) | .02( .22), =.92 | .00( .03), =.92 | (-.05, .06) | .00(-.06, .07) |
| mental status | satsa | grip | mmse | 299 | 2.17(1.12), =.05 . | .27( .13), =.04 \* | ( .01, .52) | .27( .16, .37) | .01( .01), =.31 | .34( .30), =.27 | (-.26, .93) | .33( .23, .43) | 1.04( .41), =.01 \* | .13( .05), =.01 \*\* | ( .03, .22) | .13( .02, .24) |
| mental status | hrs | grip | tics | 507 | .67(1.48), =.65 | --- | --- | .13( .04, .21) | .06( .06), =.31 | --- | --- | .11( .02, .20) | -1.11( .97), =.25 | --- | --- | -.10(-.18,-.01) |
| perceptual speed | lasa | grip | letter | 800 | 3.28(1.69), =.05 . | .10( .05), =.05 \* | ( .00, .20) | .10( .03, .17) | .03( .02), =.09 . | .61( .41), =.13 | (-.18,1.41) | .60( .55, .64) | .96( .39), =.01 \* | .09( .03), =.01 \* | ( .02, .15) | .09( .02, .16) |
| perceptual speed | map | grip | num\_comp | 351 | 7.35(5.94), =.22 | --- | --- | .08(-.02, .18) | .03( .34), =.93 | --- | --- | .03(-.08, .13) | -.18( .97), =.85 | --- | --- | -.01(-.11, .10) |
| perceptual speed | eas | grip | symbol | 72 | -5.88(15.44), =.70 | -.13( .34), =.69 | (-.79, .53) | -.13(-.35, .10) | .82(1.08), =.45 | .70( .87), =.42 | (-1.01,2.42) | .70( .56, .80) | 1.46(3.34), =.66 | .07( .16), =.66 | (-.25, .39) | .07(-.16, .30) |
| perceptual speed | ilse | grip | symbol | 252 | -14.22(16.99), =.40 | -.08( .10), =.41 | (-.27, .11) | -.08(-.20, .04) | -.04( .20), =.85 | -.07( .36), =.85 | (-.77, .63) | -.07(-.19, .06) | 3.40(4.14), =.41 | .06( .08), =.40 | (-.09, .22) | .07(-.06, .19) |
| perceptual speed | map | grip | symbol | 351 | 21.22(9.18), =.02 \* | --- | --- | .17( .07, .27) | .53( .48), =.28 | --- | --- | .40( .30, .48) | .95(1.22), =.43 | --- | --- | .04(-.07, .14) |
| perceptual speed | octo | grip | symbol | 138 | 4.32(1.88), =.02 \* | .24( .10), =.01 \* | ( .05, .43) | .24( .07, .39) | -.01( .06), =.85 | -.08( .44), =.86 | (-.94, .78) | -.08(-.24, .09) | .76( .46), =.09 . | .15( .09), =.08 . | (-.02, .32) | .15(-.02, .31) |
| perceptual speed | satsa | grip | symbol | 299 | 15.98(4.96), <.01 \*\*\* | .32( .09), <.01 \*\*\* | ( .14, .49) | .32( .21, .42) | .00( .02), =.92 | .04( .44), =.92 | (-.81, .90) | .04(-.07, .16) | 4.53(1.42), <.01 \*\*\* | .16( .05), <.01 \*\*\* | ( .06, .26) | .15( .03, .25) |
| semantic memory | eas | grip | bnt | 72 | -1.26(4.31), =.77 | -.18( .61), =.77 | (-1.37,1.01) | -.18(-.40, .05) | -.01( .24), =.98 | -.06(1.95), =.98 | (-3.88,3.77) | -.06(-.29, .18) | -.02( .78), =.98 | -.00( .15), =.98 | (-.29, .28) | -.00(-.24, .23) |
| semantic memory | map | grip | bnt | 351 | 4.31(1.42), <.01 \*\* | --- | --- | .27( .17, .36) | .02( .05), =.69 | --- | --- | .15( .04, .25) | .05( .16), =.77 | --- | --- | .01(-.09, .12) |
| semantic memory | map | grip | nart | 351 | 1.44(1.76), =.41 | --- | --- | .05(-.05, .16) | .06( .07), =.34 | --- | --- | .34( .25, .43) | -.04( .26), =.88 | --- | --- | -.01(-.11, .10) |
| semantic memory | satsa | grip | synonyms | 299 | 5.13(2.75), =.06 . | .19( .10), =.05 . | (-.00, .38) | .19( .08, .30) | -.01( .01), =.37 | -.42( .51), =.41 | (-1.42, .58) | -.39(-.48,-.29) | .15( .55), =.79 | .01( .05), =.79 | (-.08, .10) | .01(-.10, .13) |
| semantic memory | eas | grip | waisvocab | 72 | -4.11(16.87), =.81 | -.12( .48), =.81 | (-1.05, .82) | -.12(-.34, .12) | .38( .90), =.68 | .69(1.87), =.71 | (-2.98,4.36) | .69( .54, .79) | -1.59(5.91), =.79 | -.06( .22), =.79 | (-.49, .37) | -.06(-.29, .17) |
| semantic memory | elsa | grip | word\_de | 3091 | .34( .26), =.20 | .05( .04), =.20 | (-.02, .12) | .05( .01, .08) | -.00( .00), =.18 | -.48( .42), =.26 | (-1.31, .35) | -.43(-.46,-.40) | .12( .13), =.33 | .02( .02), =.33 | (-.02, .07) | .02(-.01, .06) |
| semantic memory | elsa | grip | word\_de | 3091 | .34( .26), =.20 | .05( .04), =.20 | (-.02, .12) | .05( .01, .08) | -.00( .00), =.18 | -.48( .42), =.26 | (-1.31, .35) | -.43(-.46,-.40) | .12( .13), =.33 | .02( .02), =.33 | (-.02, .07) | .02(-.01, .06) |
| semantic memory | hrs | grip | word\_de | 3290 | 1.04( .23), <.01 \*\*\* | .15( .03), <.01 \*\*\* | ( .09, .21) | .15( .12, .18) | .00( .01), =.39 | .28( .35), =.42 | (-.40, .96) | .29( .26, .32) | .14( .12), =.22 | .03( .02), =.22 | (-.02, .07) | .03(-.01, .06) |
| semantic memory | map | grip | word\_de | 351 | 1.42(1.83), =.44 | --- | --- | .06(-.04, .17) | .02( .12), =.87 | --- | --- | .08(-.02, .18) | -.15( .33), =.64 | --- | --- | -.02(-.12, .08) |
| semantic memory | map | grip | word\_rec | 351 | 1.59(1.16), =.17 | --- | --- | .11( .00, .21) | .02( .07), =.75 | --- | --- | .06(-.04, .17) | -.06( .23), =.81 | --- | --- | -.01(-.12, .09) |
| short-term memory | map | grip | bstory\_im | 351 | 2.01(1.58), =.20 | --- | --- | .12( .02, .22) | -.14( .11), =.23 | --- | --- | -.50(-.58,-.42) | .20( .34), =.55 | --- | --- | .02(-.08, .13) |
| short-term memory | eas | grip | digit\_tot | 72 | 2.33(5.34), =.66 | .14( .31), =.66 | (-.47, .74) | .14(-.10, .36) | -.06( .28), =.83 | -.23( .98), =.81 | (-2.15,1.69) | -.23(-.44, .00) | -.02( .92), =.98 | -.00( .14), =.98 | (-.27, .26) | -.00(-.24, .23) |
| short-term memory | satsa | grip | fig\_mem | 299 | 4.79(2.55), =.06 . | .24( .12), =.04 \* | ( .01, .46) | .24( .13, .34) | .01( .01), =.39 | .50( .50), =.32 | (-.49,1.49) | .50( .41, .58) | 1.91( .81), =.02 \* | .12( .05), =.02 \* | ( .02, .21) | .12( .00, .23) |
| short-term memory | map | grip | logic\_im | 351 | -4.02(3.71), =.28 | --- | --- | -.09(-.19, .01) | -.44( .13), <.01 \*\*\* | --- | --- | -.76(-.80,-.72) | .85( .62), =.17 | --- | --- | .06(-.05, .16) |
| short-term memory | octo | grip | prose\_im | 139 | 2.38( .78), <.01 \*\* | .35( .10), <.01 \*\*\* | ( .16, .54) | .35( .20, .49) | -.01( .05), =.79 | -.38(2.68), =.89 | (-5.63,4.87) | -.37(-.51,-.22) | .35( .25), =.16 | .14( .09), =.14 | (-.04, .32) | .14(-.03, .30) |
| short-term memory | elsa | grip | word\_im | 3091 | .13( .23), =.57 | .02( .04), =.57 | (-.05, .10) | .02(-.01, .06) | -.00( .00), =.14 | -.42( .34), =.22 | (-1.10, .26) | -.41(-.43,-.38) | .29( .12), =.02 \* | .06( .02), =.02 \* | ( .01, .11) | .06( .02, .09) |
| short-term memory | hrs | grip | word\_im | 3290 | .81( .20), <.01 \*\*\* | .14( .03), <.01 \*\*\* | ( .07, .21) | .14( .11, .17) | .00( .00), =.85 | .08( .40), =.84 | (-.70, .85) | .08( .05, .12) | .25( .10), =.01 \* | .06( .02), =.01 \* | ( .01, .10) | .06( .02, .09) |
| short-term memory | lasa | grip | word\_im | 800 | 1.76(1.54), =.25 | .07( .06), =.25 | (-.05, .20) | .07( .00, .14) | .00( .01), =.84 | .16( .80), =.84 | (-1.39,1.72) | .17( .11, .24) | 2.25( .53), <.01 \*\*\* | .14( .03), <.01 \*\*\* | ( .08, .20) | .14( .07, .20) |
| short-term memory | map | grip | word\_im | 351 | 4.08(3.29), =.21 | --- | --- | .11( .00, .21) | -.03( .22), =.90 | --- | --- | -.06(-.16, .05) | .83( .76), =.27 | --- | --- | .06(-.05, .16) |
| verbal comprehension | map | grip | ideas | 351 | 1.08( .60), =.07 . | --- | --- | .18( .08, .28) | .08( .06), =.16 | --- | --- | .29( .20, .39) | .02( .10), =.82 | --- | --- | .01(-.10, .11) |
| visual discrimination | map | grip | line | 351 | 3.49(2.22), =.12 | --- | --- | .11( .00, .21) | .01( .16), =.92 | --- | --- | .04(-.07, .14) | -.34( .53), =.53 | --- | --- | -.03(-.14, .07) |
| visual discrimination | ilse | grip | piccomp | 252 | 11.62(6.45), =.07 . | .22( .12), =.06 . | (-.01, .45) | .22( .10, .34) | .08( .10), =.43 | .43( .48), =.37 | (-.51,1.37) | .43( .32, .52) | 4.11(2.57), =.11 | .16( .09), =.09 . | (-.02, .34) | .16( .04, .28) |
| working memory | map | grip | digit\_b | 351 | -.45(1.87), =.81 | --- | --- | -.02(-.13, .08) | .06( .11), =.55 | --- | --- | .18( .08, .28) | 1.21( .33), <.01 \*\*\* | --- | --- | .17( .06, .27) |
| working memory | octo | grip | digit\_b | 139 | .12( .23), =.60 | .06( .11), =.60 | (-.15, .26) | .06(-.11, .22) | .00( .01), =.68 | .20( .49), =.69 | (-.76,1.15) | .19( .03, .35) | -.16( .10), =.10 . | -.13( .07), =.08 . | (-.27, .02) | -.13(-.29, .04) |
| working memory | satsa | grip | digit\_b | 299 | 1.36( .62), =.03 \* | .29( .13), =.02 \* | ( .04, .54) | .29( .18, .39) | .00( .00), =.75 | .36(1.13), =.75 | (-1.85,2.57) | --- | -.11( .26), =.67 | -.02( .05), =.67 | (-.11, .07) | -.02(-.13, .10) |
| working memory | map | grip | digit\_o | 351 | 1.37(1.48), =.35 | --- | --- | .09(-.02, .19) | .02( .09), =.84 | --- | --- | .12( .02, .22) | .01( .29), =.98 | --- | --- | .00(-.10, .11) |
| NA | eas | grip | NA | 72 | -4.90(6.49), =.45 | -.31( .40), =.43 | (-1.09, .46) | -.31(-.51,-.09) | -.04( .60), =.95 | -.16(2.47), =.95 | (-5.00,4.68) | -.16(-.38, .08) | 1.26(2.19), =.56 | .09( .16), =.57 | (-.23, .41) | .09(-.14, .32) |

# female

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Cov(Levels) | Corr(Levels)Est | CI(Levels)Est | Corr(Levels)Comp | Cov(Slopes) | Corr(Slopes)Est | CI(Slopes)Est | Corr(Slopes)Comp | Cov(Residuals) | Corr(Resid)Est | CI(Resid)Est | Corr(Residuals)Comp |
| attention | map | grip | digit\_f | 1010 | .11( .63), =.86 | --- | --- | .01(-.05, .07) | .02( .05), =.59 | --- | --- | .22( .16, .28) | .20( .15), =.19 | --- | --- | .04(-.03, .10) |
| attention | octo | grip | digit\_f | 275 | -.07( .12), =.53 | -.06( .09), =.53 | (-.23, .12) | -.06(-.17, .06) | .00( .00), =.70 | .13( .33), =.70 | (-.52, .78) | .11(-.01, .23) | .04( .04), =.37 | .04( .05), =.38 | (-.05, .14) | .05(-.07, .16) |
| attention | satsa | grip | digit\_f | 409 | -.04( .32), =.90 | -.01( .10), =.90 | (-.21, .18) | -.01(-.11, .08) | .00( .00), =.38 | .59( .78), =.45 | (-.94,2.12) | --- | .09( .12), =.44 | .02( .03), =.44 | (-.04, .09) | .03(-.07, .12) |
| attention | hrs | grip | serial7 | 4604 | .13( .13), =.32 | .03( .03), =.32 | (-.03, .08) | .03(-.00, .06) | .01( .00), <.01 \*\*\* | .45( .13), <.01 \*\*\* | ( .20, .70) | .47( .44, .49) | -.08( .06), =.18 | -.03( .02), =.18 | (-.07, .01) | -.03(-.06, .00) |
| episodic memory | map | grip | bstory\_de | 1010 | -.06( .61), =.92 | --- | --- | -.01(-.07, .06) | .06( .06), =.36 | --- | --- | .24( .18, .30) | .05( .19), =.78 | --- | --- | .01(-.05, .07) |
| episodic memory | satsa | grip | information | 410 | 2.57(2.39), =.28 | .10( .10), =.28 | (-.08, .29) | .10( .01, .20) | .03( .01), =.03 \* | .65( .25), =.01 \*\* | ( .16,1.14) | .64( .58, .69) | .85( .57), =.14 | .05( .04), =.13 | (-.02, .12) | .05(-.04, .15) |
| episodic memory | map | grip | logic\_de | 1010 | -.22(1.33), =.87 | --- | --- | -.01(-.07, .05) | .20( .10), =.05 \* | --- | --- | .43( .38, .48) | .09( .30), =.78 | --- | --- | .01(-.05, .07) |
| episodic memory | eas | grip | logic\_tot | 150 | 1.47(4.61), =.75 | .06( .19), =.75 | (-.32, .44) | .06(-.10, .22) | -.03( .19), =.86 | -.20(1.14), =.86 | (-2.44,2.03) | -.21(-.35,-.05) | .53( .87), =.54 | .06( .10), =.54 | (-.13, .24) | .06(-.10, .22) |
| episodic memory | ilse | grip | waisgeneral | 225 | 2.20(7.03), =.75 | .03( .09), =.75 | (-.15, .21) | .03(-.10, .16) | .11( .10), =.27 | .42( .42), =.32 | (-.40,1.23) | .43( .31, .53) | -1.78(1.78), =.32 | -.08( .08), =.31 | (-.23, .07) | -.08(-.21, .05) |
| executive function | eas | grip | trailsb | 150 | -75.27(41.82), =.07 . | -.33( .17), =.05 \* | (-.66,-.00) | -.33(-.47,-.18) | -.63(1.80), =.73 | -.69(2.50), =.78 | (-5.58,4.20) | -.69(-.77,-.60) | 12.47(8.16), =.13 | .13( .09), =.12 | (-.03, .30) | .13(-.03, .29) |
| fluency | eas | grip | categories | 150 | 5.04(5.90), =.39 | .14( .16), =.39 | (-.17, .44) | .14(-.03, .29) | .11( .22), =.61 | .27( .51), =.60 | (-.73,1.27) | .27( .11, .41) | -.38( .68), =.58 | -.04( .07), =.58 | (-.18, .10) | -.04(-.20, .12) |
| fluency | map | grip | categories | 1010 | 3.97(2.77), =.15 | --- | --- | .06(-.00, .12) | .24( .19), =.19 | --- | --- | .25( .19, .31) | .71( .58), =.22 | --- | --- | .03(-.03, .10) |
| fluency | eas | grip | fas | 150 | 8.63(9.23), =.35 | .17( .17), =.33 | (-.17, .51) | .17( .01, .32) | -.08( .19), =.67 | -.33( .84), =.69 | (-1.97,1.31) | -.33(-.47,-.18) | .93(1.07), =.38 | .08( .09), =.38 | (-.10, .25) | .08(-.08, .23) |
| fluency | ilse | grip | fluency | 225 | 13.64(14.92), =.36 | .10( .11), =.35 | (-.11, .32) | .10(-.03, .23) | .24( .27), =.38 | .58( .72), =.43 | (-.84,2.00) | .57( .48, .66) | 9.98(5.52), =.07 . | .15( .08), =.06 . | (-.01, .31) | .15( .02, .28) |
| fluid reasoning | satsa | grip | analogies | 409 | .08( .96), =.93 | .01( .10), =.93 | (-.19, .21) | .01(-.09, .11) | .01( .00), =.18 | .41( .31), =.18 | (-.19,1.02) | .45( .36, .52) | 1.24( .43), <.01 \*\* | .12( .04), <.01 \*\* | ( .04, .19) | .12( .02, .21) |
| fluid reasoning | eas | grip | block | 150 | 4.48(5.49), =.41 | .13( .16), =.40 | (-.18, .44) | .13(-.03, .29) | -.04( .12), =.72 | -.31( .84), =.71 | (-1.96,1.35) | -.31(-.45,-.16) | -.06(1.18), =.96 | -.01( .11), =.96 | (-.22, .21) | -.01(-.17, .15) |
| fluid reasoning | octo | grip | block | 274 | 3.10( .84), <.01 \*\*\* | .31( .08), <.01 \*\*\* | ( .15, .47) | .31( .20, .41) | .05( .02), <.01 \*\* | .76( .28), =.01 \*\* | ( .21,1.32) | .76( .71, .81) | .18( .19), =.35 | .05( .05), =.35 | (-.05, .15) | .05(-.07, .17) |
| fluid reasoning | satsa | grip | block | 409 | 4.99(2.09), =.02 \* | .22( .09), =.01 \* | ( .05, .40) | .22( .13, .31) | .00( .01), =.68 | .15( .36), =.68 | (-.55, .85) | .16( .07, .26) | 2.10( .61), <.01 \*\*\* | .14( .04), <.01 \*\*\* | ( .06, .21) | .13( .04, .23) |
| fluid reasoning | map | grip | matrices | 1010 | 1.56( .90), =.08 . | --- | --- | .09( .03, .15) | .05( .07), =.43 | --- | --- | .39( .34, .44) | -.04( .26), =.87 | --- | --- | -.01(-.07, .06) |
| fluid reasoning | lasa | grip | raven | 782 | .29( .66), =.66 | .03( .07), =.66 | (-.10, .16) | .03(-.04, .10) | .00( .01), =.77 | .32(1.66), =.85 | (-2.93,3.57) | .33( .27, .39) | .09( .24), =.70 | .01( .03), =.70 | (-.05, .07) | .01(-.06, .08) |
| fluid reasoning | satsa | grip | rotate | 409 | 7.00(5.21), =.18 | .14( .10), =.17 | (-.06, .34) | .14( .04, .23) | .01( .03), =.65 | .31( .69), =.65 | (-1.03,1.66) | .33( .24, .41) | 4.87(2.00), =.01 \* | .10( .04), =.01 \* | ( .02, .18) | .10( .00, .19) |
| fluid reasoning | ilse | grip | spatial\_ab | 225 | .80(11.07), =.94 | .01( .10), =.94 | (-.19, .20) | .01(-.12, .14) | .08( .16), =.59 | .37( .79), =.64 | (-1.17,1.91) | .37( .26, .48) | -.37(3.83), =.92 | -.01( .09), =.92 | (-.18, .16) | -.01(-.14, .12) |
| mental status | nuage | grip | mmms | 934 | 1.64(1.87), =.38 | .04( .05), =.38 | (-.05, .14) | .04(-.02, .11) | .40( .28), =.15 | .28( .16), =.09 . | (-.04, .59) | .28( .22, .34) | .39( .41), =.34 | .02( .02), =.34 | (-.02, .07) | .02(-.04, .09) |
| mental status | eas | grip | mmse | 150 | 1.20( .91), =.19 | .24( .18), =.17 | (-.11, .60) | .24( .09, .39) | -.01( .03), =.73 | -.40(1.25), =.75 | (-2.85,2.04) | -.38(-.51,-.24) | -.01( .19), =.96 | -.00( .11), =.96 | (-.21, .20) | -.00(-.17, .16) |
| mental status | map | grip | mmse | 1010 | -.00( .55), =.99 | --- | --- | -.00(-.06, .06) | .13( .07), =.06 . | --- | --- | .54( .49, .58) | .12( .15), =.41 | --- | --- | .02(-.04, .08) |
| mental status | nuage | grip | mmse | 934 | .86( .65), =.18 | .08( .06), =.20 | (-.04, .20) | .08( .02, .14) | .05( .10), =.60 | .16( .33), =.62 | (-.48, .80) | .16( .10, .22) | -.02( .19), =.92 | -.00( .02), =.92 | (-.05, .05) | -.00(-.07, .06) |
| mental status | satsa | grip | mmse | 411 | .18( .63), =.77 | .06( .19), =.77 | (-.32, .43) | .06(-.04, .15) | .01( .01), =.34 | .29( .28), =.29 | (-.25, .84) | .28( .19, .37) | 1.08( .30), <.01 \*\*\* | .13( .04), <.01 \*\*\* | ( .06, .20) | .13( .04, .23) |
| mental status | hrs | grip | tics | 641 | 2.48(1.40), =.08 . | --- | --- | .16( .08, .24) | .10( .06), =.08 . | --- | --- | .16( .08, .23) | -.40( .46), =.39 | --- | --- | -.04(-.12, .04) |
| perceptual speed | lasa | grip | letter | 782 | .70(1.29), =.59 | .03( .06), =.59 | (-.08, .15) | .03(-.04, .10) | .01( .01), =.40 | .40( .93), =.67 | (-1.43,2.22) | .41( .35, .47) | .65( .23), <.01 \*\* | .08( .03), <.01 \*\* | ( .02, .13) | .08( .01, .15) |
| perceptual speed | map | grip | num\_comp | 1010 | 2.42(2.53), =.34 | --- | --- | .04(-.02, .10) | .17( .14), =.22 | --- | --- | .31( .26, .37) | .23( .45), =.61 | --- | --- | .01(-.05, .07) |
| perceptual speed | eas | grip | symbol | 150 | 15.52(8.40), =.06 . | .31( .15), =.04 \* | ( .02, .60) | .31( .16, .45) | .13( .22), =.57 | .67(1.15), =.56 | (-1.59,2.92) | .66( .56, .74) | -1.39(1.15), =.23 | -.11( .09), =.22 | (-.28, .06) | -.11(-.26, .05) |
| perceptual speed | ilse | grip | symbol | 225 | -48.56(20.52), =.02 \* | -.25( .09), =.01 \*\* | (-.43,-.06) | -.25(-.37,-.12) | .12( .17), =.48 | .21( .30), =.48 | (-.38, .80) | .21( .08, .33) | -.64(3.70), =.86 | -.01( .07), =.86 | (-.16, .13) | -.01(-.14, .12) |
| perceptual speed | map | grip | symbol | 1010 | 6.24(3.52), =.08 . | --- | --- | .08( .02, .14) | -.06( .21), =.79 | --- | --- | -.06(-.12,-.00) | .04( .61), =.95 | --- | --- | .00(-.06, .06) |
| perceptual speed | octo | grip | symbol | 271 | 2.62(1.18), =.03 \* | .18( .08), =.02 \* | ( .02, .34) | .18( .06, .29) | .01( .02), =.59 | .17( .31), =.58 | (-.43, .77) | .16( .04, .27) | .72( .32), =.02 \* | .12( .05), =.02 \* | ( .02, .22) | .12( .00, .24) |
| perceptual speed | satsa | grip | symbol | 409 | 8.61(3.14), =.01 \*\* | .26( .09), <.01 \*\* | ( .09, .44) | .26( .17, .35) | .02( .01), =.11 | .46( .24), =.05 \* | ( .00, .93) | .47( .39, .54) | 2.51(1.00), =.01 \* | .10( .04), =.01 \* | ( .02, .18) | .11( .02, .21) |
| semantic memory | eas | grip | bnt | 150 | 2.71(1.56), =.08 . | .33( .17), =.05 \* | ( .00, .65) | .33( .18, .46) | .02( .08), =.80 | .26(1.00), =.80 | (-1.70,2.22) | .25( .10, .40) | .03( .22), =.89 | .01( .07), =.89 | (-.13, .15) | .01(-.15, .17) |
| semantic memory | map | grip | bnt | 1010 | .90( .49), =.07 . | --- | --- | .08( .02, .14) | .02( .03), =.62 | --- | --- | .09( .03, .15) | -.07( .08), =.37 | --- | --- | -.02(-.09, .04) |
| semantic memory | map | grip | nart | 1010 | -.09( .72), =.90 | --- | --- | -.01(-.07, .06) | -.00( .03), =.97 | --- | --- | -.01(-.07, .05) | -.02( .11), =.88 | --- | --- | -.00(-.07, .06) |
| semantic memory | satsa | grip | synonyms | 409 | 1.86(1.41), =.19 | .12( .09), =.18 | (-.05, .29) | .12( .02, .21) | .00( .01), =.52 | .26( .42), =.53 | (-.56,1.08) | .29( .20, .38) | .63( .38), =.10 . | .06( .04), =.10 . | (-.01, .14) | .06(-.03, .16) |
| semantic memory | eas | grip | waisvocab | 150 | 6.83(7.03), =.33 | .15( .15), =.32 | (-.15, .45) | .15(-.01, .30) | .11( .28), =.71 | .58(1.60), =.72 | (-2.56,3.71) | .58( .46, .68) | -1.10(1.24), =.38 | -.08( .09), =.37 | (-.27, .10) | -.08(-.24, .08) |
| semantic memory | elsa | grip | word\_de | 3511 | .68( .17), <.01 \*\*\* | .13( .03), <.01 \*\*\* | ( .07, .20) | .13( .10, .17) | .00( .00), =.97 | -.02( .57), =.97 | (-1.15,1.10) | .00(-.03, .03) | .09( .09), =.30 | .02( .02), =.30 | (-.02, .07) | .02(-.01, .06) |
| semantic memory | elsa | grip | word\_de | 3511 | .68( .17), <.01 \*\*\* | .13( .03), <.01 \*\*\* | ( .07, .20) | .13( .10, .17) | .00( .00), =.97 | -.02( .57), =.97 | (-1.15,1.10) | .00(-.03, .03) | .09( .09), =.30 | .02( .02), =.30 | (-.02, .07) | .02(-.01, .06) |
| semantic memory | hrs | grip | word\_de | 4612 | .49( .15), <.01 \*\*\* | .09( .03), <.01 \*\*\* | ( .04, .15) | .09( .06, .12) | .00( .00), =.92 | .04( .41), =.92 | (-.75, .84) | .00(-.03, .03) | .17( .07), =.01 \* | .05( .02), =.01 \* | ( .01, .08) | .05( .02, .08) |
| semantic memory | map | grip | word\_de | 1010 | 2.81( .68), <.01 \*\*\* | --- | --- | .17( .11, .23) | .05( .04), =.25 | --- | --- | .25( .19, .30) | .00( .16), =.97 | --- | --- | .00(-.06, .06) |
| short-term memory | map | grip | bstory\_im | 1010 | .03( .02), =.13 | --- | --- | .08( .02, .14) | -.00( .00), =.40 | --- | --- | --- | -.01( .01), =.12 | --- | --- | -.04(-.10, .02) |
| short-term memory | eas | grip | digit\_tot | 150 | -1.79(1.83), =.33 | -.15( .15), =.33 | (-.45, .15) | -.15(-.30, .01) | -.04( .08), =.64 | -.39( .81), =.63 | (-1.98,1.20) | -.39(-.52,-.25) | .09( .33), =.78 | .02( .09), =.78 | (-.15, .20) | .03(-.14, .18) |
| short-term memory | satsa | grip | fig\_mem | 409 | .30(1.20), =.80 | .02( .10), =.80 | (-.17, .21) | .02(-.07, .12) | .00( .01), =.77 | .12( .41), =.76 | (-.67, .92) | .12( .02, .21) | 1.60( .53), <.01 \*\* | .13( .04), <.01 \*\* | ( .05, .22) | .13( .03, .22) |
| short-term memory | map | grip | logic\_im | 1010 | -.86(1.32), =.51 | --- | --- | -.03(-.09, .03) | .14( .09), =.12 | --- | --- | .34( .28, .39) | -.17( .31), =.59 | --- | --- | -.02(-.08, .05) |
| short-term memory | octo | grip | prose\_im | 272 | .68( .38), =.08 . | .14( .07), =.07 . | (-.01, .28) | .14( .02, .25) | .01( .01), =.31 | .37( .35), =.29 | (-.31,1.05) | .36( .25, .46) | .14( .16), =.39 | .06( .07), =.38 | (-.07, .19) | .06(-.06, .18) |
| short-term memory | elsa | grip | word\_im | 3511 | .51( .16), <.01 \*\*\* | .12( .04), <.01 \*\*\* | ( .05, .20) | .12( .09, .15) | .00( .00), =.91 | -.03( .28), =.91 | (-.58, .51) | .00(-.03, .03) | .06( .08), =.49 | .02( .02), =.49 | (-.03, .06) | .02(-.02, .05) |
| short-term memory | hrs | grip | word\_im | 4612 | .58( .12), <.01 \*\*\* | .14( .03), <.01 \*\*\* | ( .09, .20) | .14( .12, .17) | .00( .00), =.46 | .32( .51), =.53 | (-.68,1.32) | .28( .25, .30) | .09( .06), =.14 | .03( .02), =.14 | (-.01, .07) | .03(-.00, .06) |
| short-term memory | lasa | grip | word\_im | 782 | 1.75(1.09), =.11 | .11( .07), =.10 | (-.02, .25) | .11( .04, .18) | .00( .01), =.90 | .23(2.09), =.91 | (-3.86,4.32) | .15( .09, .22) | 1.68( .38), <.01 \*\*\* | .12( .03), <.01 \*\*\* | ( .07, .17) | .12( .05, .19) |
| short-term memory | map | grip | word\_im | 1010 | 5.26(1.32), <.01 \*\*\* | --- | --- | .17( .11, .23) | .14( .10), =.18 | --- | --- | .26( .20, .32) | .36( .31), =.24 | --- | --- | .03(-.03, .09) |
| verbal comprehension | map | grip | ideas | 1010 | -.02( .21), =.92 | --- | --- | -.01(-.07, .06) | .01( .02), =.71 | --- | --- | .13( .06, .19) | .04( .05), =.45 | --- | --- | .02(-.04, .08) |
| visual discrimination | map | grip | line | 1010 | 1.48(1.08), =.17 | --- | --- | .07( .01, .13) | .06( .07), =.39 | --- | --- | .72( .69, .75) | .21( .22), =.34 | --- | --- | .02(-.04, .09) |
| visual discrimination | ilse | grip | piccomp | 225 | 2.07(6.71), =.76 | .04( .12), =.76 | (-.20, .27) | .04(-.09, .17) | .07( .12), =.57 | .26( .48), =.59 | (-.67,1.19) | .26( .13, .38) | .36(2.76), =.90 | .01( .08), =.90 | (-.15, .17) | .01(-.12, .14) |
| working memory | map | grip | digit\_b | 1010 | .08( .02), <.01 \*\*\* | --- | --- | .15( .09, .21) | .00( .00), =.10 | --- | --- | .51( .47, .56) | -.01( .01), =.11 | --- | --- | -.04(-.11, .02) |
| working memory | octo | grip | digit\_b | 275 | -.00( .13), =.98 | -.00( .10), =.98 | (-.20, .20) | -.00(-.12, .12) | -.00( .00), =.40 | -.44( .64), =.49 | (-1.69, .81) | -.49(-.57,-.39) | .06( .06), =.35 | .05( .05), =.35 | (-.05, .14) | .05(-.07, .16) |
| working memory | satsa | grip | digit\_b | 409 | .45( .40), =.26 | .13( .12), =.26 | (-.10, .36) | .13( .03, .22) | .00( .00), =.29 | .31( .28), =.26 | (-.23, .85) | .29( .20, .38) | .25( .18), =.16 | .05( .04), =.16 | (-.02, .12) | .06(-.04, .16) |
| working memory | map | grip | digit\_o | 1010 | .49( .52), =.35 | --- | --- | .05(-.01, .11) | .02( .04), =.57 | --- | --- | .19( .13, .25) | .10( .14), =.49 | --- | --- | .02(-.04, .08) |
| NA | eas | grip | NA | 150 | 2.62(3.41), =.44 | .15( .19), =.44 | (-.23, .53) | .15(-.01, .30) | .03( .16), =.86 | .15( .86), =.86 | (-1.54,1.84) | .15(-.01, .30) | .16( .66), =.81 | .02( .09), =.81 | (-.15, .19) | .02(-.14, .18) |

# Session Information

For the sake of documentation and reproducibility, the current report was rendered on a system using the following software.

Report rendered by koval\_000 at 2016-11-15, 09:05 -0500

R version 3.3.1 (2016-06-21)  
Platform: x86\_64-w64-mingw32/x64 (64-bit)  
Running under: Windows >= 8 x64 (build 9200)  
  
locale:  
[1] LC\_COLLATE=English\_United States.1252 LC\_CTYPE=English\_United States.1252 LC\_MONETARY=English\_United States.1252  
[4] LC\_NUMERIC=C LC\_TIME=English\_United States.1252   
  
attached base packages:  
[1] stats graphics grDevices utils datasets methods base   
  
other attached packages:  
[1] knitr\_1.14 ggplot2\_2.1.0 IalsaSynthesis\_0.1.8.9000 MplusAutomation\_0.6-4   
[5] magrittr\_1.5   
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.7 formatR\_1.4 plyr\_1.8.4 highr\_0.6 tools\_3.3.1 boot\_1.3-18   
 [7] digest\_0.6.10 evaluate\_0.10 tibble\_1.2 gtable\_0.2.0 lattice\_0.20-34 texreg\_1.36.7   
[13] DBI\_0.5-1 yaml\_2.1.13 proto\_0.3-10 coda\_0.18-1 dplyr\_0.5.0 stringr\_1.1.0   
[19] htmlwidgets\_0.7 grid\_3.3.1 DT\_0.2 R6\_2.2.0 gsubfn\_0.6-6 rmarkdown\_1.1   
[25] pander\_0.6.0 tidyr\_0.6.0 readr\_1.0.0 scales\_0.4.1 htmltools\_0.3.5 rsconnect\_0.5   
[31] assertthat\_0.1 testit\_0.5 xtable\_1.8-2 colorspace\_1.2-7 stringi\_1.1.2 lazyeval\_0.2.0   
[37] munsell\_0.4.3