BISR: pulmonary (focus)

Date: 2017-01-27

Parsed with column specification:  
cols(  
 domain = col\_character(),  
 domain\_new = col\_character(),  
 cognitive = col\_character(),  
 study = col\_character(),  
 variable\_study\_name = col\_character(),  
 physical = col\_character()  
)

Joining, by = c("domain", "study", "physical", "cognitive")

Parsed with column specification:  
cols(  
 domain = col\_character(),  
 domain\_new = col\_character(),  
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 variable\_study\_name = col\_character(),  
 physical = col\_character()  
)

Joining, by = c("domain", "study", "physical", "cognitive")

## Legend

* Corr(Levels)Est = correlation between intercepts (factor scores) of two processes
* Corr(Slopes)Est = correlation between linear slopes (factor scores) of two processes
* Corr(Resid)Est = correlation between residuals of two processes

Correlations have been computed withing Mplus.

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

**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

# Group by domain

## male

Parsed with column specification:  
cols(  
 domain = col\_character(),  
 domain\_new = col\_character(),  
 cognitive = col\_character(),  
 study = col\_character(),  
 variable\_study\_name = col\_character(),  
 physical = col\_character()  
)

Joining, by = c("domain", "study", "physical", "cognitive")

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Corr(Levels)Est | Corr(Slopes)Est | Corr(Residuals)Est |
| memory | eas | pef | digit\_tot | 324 | .01( .12), =.92 | .26( .55), =.63 | .07( .06), =.28 |
| memory | eas | pef | logic\_tot | 324 | .07( .12), =.57 | .30( .46), =.51 | -.03( .07), =.63 |
| memory | eas | pef | trailsb | 324 | -.42( .11), <.01 \*\*\* | -.96( .55), =.08 . | .00( .07), =.98 |
| memory | eas | pef | word\_im | 324 | .07( .12), =.57 | .38( .42), =.37 | .03( .08), =.68 |
| memory | elsa | fev | word\_de | 3091 | .06( .04), =.16 | -.22( .39), =.58 | .03( .03), =.27 |
| memory | elsa | fev | word\_im | 3091 | .06( .04), =.15 | -.11( .18), =.53 | .05( .02), =.06 . |
| memory | hrs | pef | serial7 | 3287 | .16( .04), <.01 \*\*\* | .21( .13), =.10 . | .03( .03), =.24 |
| memory | hrs | pef | word\_de | 3288 | .27( .03), <.01 \*\*\* | .70( .54), =.19 | .03( .02), =.28 |
| memory | hrs | pef | word\_im | 3288 | .26( .03), <.01 \*\*\* | .37( .59), =.53 | .04( .02), =.12 |
| memory | lasa | pef | word\_im | 800 | .10( .05), =.04 \* | .11( .44), =.80 | .10( .03), <.01 \*\*\* |
| memory | map | fev | bstory\_de | 321 | .13( .10), =.21 | .64(2.09), =.76 | -.02( .05), =.66 |
| memory | map | fev | bstory\_im | 321 | .16( .11), =.14 | .80(1.12), =.47 | -.05( .05), =.29 |
| memory | map | fev | digit\_b | 321 | .16( .07), =.03 \* | -.43( .98), =.66 | -.01( .04), =.77 |
| memory | map | fev | digit\_f | 321 | .08( .07), =.27 | .26(1.03), =.80 | -.02( .04), =.56 |
| memory | map | fev | digit\_o | 321 | -.02( .08), =.74 | .09(1.68), =.96 | .00( .05), =.95 |
| memory | map | fev | logic\_de | 321 | .14( .07), =.04 \* | .05( .44), =.90 | -.01( .04), =.76 |
| memory | map | fev | logic\_im | 321 | .11( .07), =.14 | .12(1.05), =.91 | -.01( .04), =.78 |
| memory | map | fev | word\_de | 321 | .10( .08), =.25 | .69(1.04), =.50 | .00( .05), =.92 |
| memory | map | fev | word\_im | 321 | .05( .08), =.56 | .54( .97), =.58 | .10( .05), =.04 \* |
| memory | map | fev | word\_rec | 321 | .01( .08), =.93 | -.58( .43), =.18 | .06( .05), =.17 |
| memory | octo | pef | digit\_b | 138 | .31( .13), =.02 \* | .46( .40), =.25 | -.10( .08), =.23 |
| memory | octo | pef | digit\_f | 138 | -.09( .14), =.52 | .63( .17), <.01 \*\*\* | .01( .06), =.86 |
| memory | octo | pef | mir | 137 | .58( .12), <.01 \*\*\* | .43( .17), =.01 \*\* | -.02( .09), =.85 |
| memory | octo | pef | mir\_recog | 137 | .51( .17), <.01 \*\* | .28( .60), =.65 | .04( .06), =.46 |
| memory | octo | pef | prose\_im | 136 | .22( .13), =.10 . | -.26( .53), =.62 | .10( .14), =.47 |
| memory | satsa | fev | digit\_b | 299 | .20( .09), =.03 \* | -.50( .69), =.47 | -.03( .04), =.42 |
| memory | satsa | fev | digit\_f | 299 | .15( .09), =.11 | .20( .61), =.75 | .05( .05), =.36 |
| memory | satsa | fev | fig\_mem | 298 | .23( .09), =.01 \*\* | .05( .38), =.89 | .01( .04), =.82 |
| mental status | eas | pef | mmse | 324 | .31( .16), =.05 \* | .76(1.10), =.49 | -.05( .06), =.42 |
| mental status | map | fev | ideas | 321 | -.02( .08), =.82 | -.36( .38), =.34 | .04( .05), =.42 |
| mental status | map | fev | mmse | 321 | .04( .08), =.66 | -.58( .79), =.46 | .02( .05), =.72 |
| mental status | octo | pef | clock | 138 | .27( .14), =.06 . | -.17( .53), =.74 | .04( .11), =.72 |
| mental status | octo | pef | mmse | 140 | .66( .14), <.01 \*\*\* | .15( .37), =.69 | .14( .16), =.38 |
| mental status | satsa | fev | mmse | 299 | .16( .12), =.18 | .35( .30), =.24 | .05( .05), =.28 |
| perceptual speed | eas | pef | symbol | 324 | .40( .10), <.01 \*\*\* | .67( .32), =.04 \* | -.13( .07), =.04 \* |
| perceptual speed | lasa | pef | letter | 800 | .16( .04), <.01 \*\*\* | .18( .12), =.13 | .12( .03), <.01 \*\*\* |
| perceptual speed | map | fev | num\_comp | 321 | .02( .07), =.77 | -.75( .49), =.13 | .02( .04), =.64 |
| perceptual speed | map | fev | symbol | 321 | .16( .07), =.02 \* | -.36( .81), =.65 | .06( .05), =.17 |
| perceptual speed | octo | pef | psif | 127 | .36( .12), <.01 \*\* | .51( .29), =.08 . | -.09( .10), =.39 |
| perceptual speed | octo | pef | symbol | 133 | .31( .11), <.01 \*\* | .73( .14), <.01 \*\*\* | -.04( .07), =.57 |
| perceptual speed | satsa | fev | symbol | 299 | .20( .08), =.01 \* | .07( .27), =.80 | .01( .06), =.82 |
| verbal knowledge | eas | pef | bnt | 324 | .04( .14), =.79 | .16(1.40), =.91 | .05( .06), =.40 |
| verbal knowledge | eas | pef | categories | 324 | .07( .11), =.54 | .30( .28), =.29 | .02( .06), =.70 |
| verbal knowledge | eas | pef | fas | 324 | .14( .11), =.17 | -.42(1.79), =.81 | .02( .07), =.79 |
| verbal knowledge | eas | pef | waisvocab | 324 | -.01( .13), =.91 | -.58( .72), =.42 | -.02( .07), =.81 |
| verbal knowledge | map | fev | bnt | 321 | .07( .08), =.35 | .16(1.34), =.90 | -.04( .06), =.53 |
| verbal knowledge | map | fev | categories | 321 | .16( .07), =.02 \* | .17( .50), =.73 | -.01( .05), =.76 |
| verbal knowledge | map | fev | nart | 321 | .11( .06), =.07 . | -.01( .59), =.98 | -.02( .05), =.70 |
| verbal knowledge | octo | pef | information | 138 | .06( .12), =.59 | -.07( .39), =.86 | .05( .08), =.53 |
| verbal knowledge | octo | pef | synonyms | 132 | .11( .13), =.38 | .10( .48), =.83 | .05( .10), =.64 |
| verbal knowledge | satsa | fev | analogies | 299 | .11( .10), =.29 | -.04( .62), =.95 | .06( .05), =.25 |
| verbal knowledge | satsa | fev | information | 299 | .11( .08), =.18 | -.03( .30), =.93 | .11( .05), =.03 \* |
| verbal knowledge | satsa | fev | synonyms | 299 | .13( .08), =.13 | .10( .41), =.81 | .04( .05), =.34 |
| visualization | eas | pef | block | 324 | .31( .11), <.01 \*\* | .58( .72), =.42 | -.11( .07), =.11 |
| visualization | lasa | pef | raven | 800 | .18( .05), <.01 \*\*\* | .54( .19), <.01 \*\* | .03( .03), =.25 |
| visualization | map | fev | line | 321 | .15( .08), =.04 \* | .39( .74), =.60 | -.02( .04), =.68 |
| visualization | map | fev | matrices | 308 | .08( .08), =.28 | .43( .68), =.52 | -.02( .04), =.70 |
| visualization | octo | pef | block | 136 | .30( .12), =.01 \*\* | .75( .18), <.01 \*\*\* | .11( .07), =.08 . |
| visualization | octo | pef | fig\_logic | 133 | .29( .13), =.03 \* | .79( .14), <.01 \*\*\* | .01( .08), =.87 |
| visualization | satsa | fev | block | 299 | .20( .08), =.01 \*\* | .14( .21), =.49 | .01( .05), =.89 |
| visualization | satsa | fev | rotate | 298 | .19( .08), =.02 \* | .14( .38), =.72 | .02( .05), =.69 |
| NA | nas | fev | animals | 1131 | -.05( .05), =.26 | -.03( .17), =.87 | .03( .03), =.30 |
| NA | nas | fev | digit\_b | 1131 | .04( .05), =.52 | .51( .67), =.45 | .03( .03), =.26 |
| NA | nas | fev | digit\_b\_tot | 1131 | .03( .05), =.59 | .10( .30), =.73 | .04( .03), =.19 |
| NA | nas | fev | fig\_copy | 1131 | .19( .06), <.01 \*\*\* | .52( .43), =.23 | -.09( .03), <.01 \*\* |
| NA | nas | fev | mmse | 1131 | .20( .07), =.01 \*\* | -.12( .23), =.61 | -.02( .03), =.44 |
| NA | nas | fev | pat\_comp | 1131 | -.01( .06), =.86 | -.25( .28), =.37 | .03( .03), =.44 |
| NA | nas | fev | word\_de | 1131 | .08( .05), =.07 . | -.03( .12), =.77 | .02( .03), =.50 |
| NA | nas | fev | word\_im | 1131 | .11( .05), =.03 \* | .15( .18), =.39 | -.03( .03), =.23 |

## female

Parsed with column specification:  
cols(  
 domain = col\_character(),  
 domain\_new = col\_character(),  
 cognitive = col\_character(),  
 study = col\_character(),  
 variable\_study\_name = col\_character(),  
 physical = col\_character()  
)  
Joining, by = c("domain", "study", "physical", "cognitive")

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Corr(Levels)Est | Corr(Slopes)Est | Corr(Residuals)Est |
| memory | eas | pef | digit\_tot | 545 | .13( .09), =.15 | .44( .31), =.15 | -.03( .05), =.57 |
| memory | eas | pef | logic\_tot | 324 | .07( .12), =.57 | .30( .46), =.51 | -.03( .07), =.63 |
| memory | eas | pef | trailsb | 545 | -.13( .09), =.12 | .28( .66), =.66 | -.02( .05), =.73 |
| memory | eas | pef | word\_im | 545 | .29( .10), <.01 \*\* | .64( .53), =.23 | -.04( .05), =.41 |
| memory | elsa | fev | word\_de | 3511 | .05( .04), =.25 | -.43(1.05), =.68 | .01( .03), =.56 |
| memory | elsa | fev | word\_im | 3511 | .07( .04), =.09 . | -.16( .43), =.71 | .02( .02), =.28 |
| memory | hrs | pef | serial7 | 4608 | .13( .03), <.01 \*\*\* | .38( .13), <.01 \*\* | -.02( .02), =.22 |
| memory | hrs | pef | word\_de | 4611 | .28( .03), <.01 \*\*\* | .69( .50), =.17 | .04( .02), =.05 . |
| memory | hrs | pef | word\_im | 4612 | .31( .03), <.01 \*\*\* | .44( .55), =.43 | .04( .02), =.04 \* |
| memory | lasa | pef | word\_im | 782 | .16( .05), <.01 \*\* | .10( .57), =.86 | .14( .02), <.01 \*\*\* |
| memory | map | fev | bstory\_de | 935 | .02( .06), =.74 | -.02( .47), =.97 | -.04( .03), =.17 |
| memory | map | fev | bstory\_im | 935 | .09( .06), =.12 | .11( .60), =.85 | -.03( .03), =.22 |
| memory | map | fev | digit\_b | 935 | .12( .04), =.01 \*\* | .68( .53), =.20 | -.04( .03), =.18 |
| memory | map | fev | digit\_f | 935 | .13( .04), <.01 \*\* | .01( .60), =.98 | .02( .03), =.46 |
| memory | map | fev | digit\_o | 935 | .18( .05), <.01 \*\*\* | -.20( .57), =.72 | .03( .03), =.28 |
| memory | map | fev | logic\_de | 935 | .05( .04), =.31 | -.60( .79), =.44 | .01( .03), =.78 |
| memory | map | fev | logic\_im | 935 | .04( .05), =.33 | -.11( .47), =.81 | .00( .03), =.91 |
| memory | map | fev | word\_de | 935 | .04( .05), =.41 | -.58( .84), =.49 | .02( .03), =.53 |
| memory | map | fev | word\_im | 935 | .11( .04), =.02 \* | -.55( .43), =.19 | .03( .03), =.33 |
| memory | map | fev | word\_rec | 935 | .02( .04), =.68 | .08(1.14), =.95 | .00( .03), =.89 |
| memory | octo | pef | digit\_b | 276 | .18( .13), =.16 | .16( .50), =.76 | .02( .05), =.75 |
| memory | octo | pef | digit\_f | 276 | -.00( .10), =.99 | -.30( .25), =.24 | .01( .05), =.80 |
| memory | octo | pef | mir | 271 | .13( .10), =.20 | .18( .28), =.53 | .06( .06), =.35 |
| memory | octo | pef | mir\_recog | 271 | .07( .07), =.30 | .52( .32), =.10 | .15( .06), =.02 \* |
| memory | octo | pef | prose\_im | 268 | .15( .09), =.11 | -.06( .37), =.87 | .07( .06), =.24 |
| memory | satsa | fev | digit\_b | 409 | .31( .10), <.01 \*\*\* | .34( .24), =.17 | -.03( .05), =.51 |
| memory | satsa | fev | digit\_f | 409 | .09( .10), =.37 | .06( .61), =.92 | .11( .04), =.01 \*\* |
| memory | satsa | fev | fig\_mem | 409 | .10( .08), =.25 | .25( .24), =.29 | .06( .04), =.21 |
| mental status | eas | pef | mmse | 545 | .18( .10), =.09 . | .07( .73), =.92 | -.01( .05), =.82 |
| mental status | map | fev | ideas | 935 | .19( .06), <.01 \*\*\* | -.24( .56), =.66 | .02( .03), =.46 |
| mental status | map | fev | mmse | 935 | .02( .06), =.71 | -.20( .57), =.72 | .05( .03), =.07 . |
| mental status | octo | pef | clock | 275 | .24( .11), =.03 \* | .11( .31), =.72 | .09( .09), =.30 |
| mental status | octo | pef | mmse | 276 | .10( .13), =.42 | .20( .32), =.52 | .20( .07), <.01 \*\* |
| mental status | satsa | fev | mmse | 411 | -.07( .18), =.72 | .36( .20), =.07 . | .14( .05), <.01 \*\* |
| perceptual speed | eas | pef | symbol | 545 | .26( .08), <.01 \*\*\* | .46( .25), =.07 . | .02( .05), =.66 |
| perceptual speed | lasa | pef | letter | 782 | .22( .04), <.01 \*\*\* | -.03( .30), =.92 | .11( .03), <.01 \*\*\* |
| perceptual speed | map | fev | num\_comp | 934 | .17( .04), <.01 \*\*\* | -.10( .60), =.86 | -.01( .03), =.59 |
| perceptual speed | map | fev | symbol | 934 | .19( .04), <.01 \*\*\* | .12( .39), =.76 | .05( .03), =.12 |
| perceptual speed | octo | pef | psif | 254 | .13( .11), =.25 | .07( .35), =.84 | .03( .08), =.72 |
| perceptual speed | octo | pef | symbol | 264 | .38( .08), <.01 \*\*\* | .66( .17), <.01 \*\*\* | .03( .06), =.55 |
| perceptual speed | satsa | fev | symbol | 408 | .10( .08), =.22 | -.16( .20), =.42 | .04( .05), =.38 |
| verbal knowledge | eas | pef | bnt | 545 | .17( .09), =.06 . | .16( .81), =.84 | -.06( .05), =.24 |
| verbal knowledge | eas | pef | categories | 545 | .26( .09), <.01 \*\* | .53( .74), =.47 | -.09( .06), =.10 |
| verbal knowledge | eas | pef | fas | 545 | .19( .08), =.02 \* | .10( .38), =.79 | .02( .05), =.64 |
| verbal knowledge | eas | pef | waisvocab | 545 | .03( .09), =.78 | -.70( .40), =.08 . | -.04( .05), =.41 |
| verbal knowledge | map | fev | bnt | 934 | .08( .05), =.10 | -.04( .43), =.92 | -.03( .03), =.35 |
| verbal knowledge | map | fev | categories | 935 | .23( .04), <.01 \*\*\* | -.35( .44), =.42 | -.04( .03), =.10 |
| verbal knowledge | map | fev | nart | 932 | .15( .04), <.01 \*\*\* | .32( .63), =.61 | .01( .03), =.72 |
| verbal knowledge | octo | pef | information | 275 | .11( .09), =.23 | .20( .30), =.51 | .06( .06), =.33 |
| verbal knowledge | octo | pef | synonyms | 265 | .16( .10), =.09 . | .27( .32), =.40 | -.06( .06), =.30 |
| verbal knowledge | satsa | fev | analogies | 407 | .27( .10), <.01 \*\* | .17( .19), =.37 | .02( .04), =.65 |
| verbal knowledge | satsa | fev | information | 410 | .03( .07), =.66 | .31( .16), =.06 . | .11( .04), =.01 \*\* |
| verbal knowledge | satsa | fev | synonyms | 409 | .18( .07), =.01 \* | .33( .25), =.18 | .08( .04), =.08 . |
| visualization | eas | pef | block | 545 | .25( .10), =.01 \*\* | .31( .36), =.40 | -.01( .05), =.81 |
| visualization | lasa | pef | raven | 782 | .29( .05), <.01 \*\*\* | -.14( .45), =.75 | .00( .03), =.85 |
| visualization | map | fev | line | 934 | .14( .05), <.01 \*\* | -.32( .87), =.72 | -.04( .03), =.11 |
| visualization | map | fev | matrices | 920 | .18( .05), <.01 \*\*\* | .64( .82), =.44 | -.05( .03), =.08 . |
| visualization | octo | pef | block | 272 | .24( .09), =.01 \*\* | .02( .32), =.94 | .15( .06), =.01 \* |
| visualization | octo | pef | fig\_logic | 268 | .20( .12), =.10 . | .18( .43), =.67 | .01( .06), =.81 |
| visualization | satsa | fev | block | 408 | .24( .09), <.01 \*\* | .19( .24), =.43 | .07( .04), =.09 . |
| visualization | satsa | fev | rotate | 407 | .29( .08), <.01 \*\*\* | .03(1.72), =.99 | .01( .04), =.81 |

# Grouped by study

## male

Parsed with column specification:  
cols(  
 domain = col\_character(),  
 domain\_new = col\_character(),  
 cognitive = col\_character(),  
 study = col\_character(),  
 variable\_study\_name = col\_character(),  
 physical = col\_character()  
)  
Joining, by = c("domain", "study", "physical", "cognitive")

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Corr(Levels)Est | Corr(Slopes)Est | Corr(Residuals)Est |
| memory | eas | pef | digit\_tot | 324 | .01( .12), =.92 | .26( .55), =.63 | .07( .06), =.28 |
| memory | eas | pef | logic\_tot | 324 | .07( .12), =.57 | .30( .46), =.51 | -.03( .07), =.63 |
| memory | eas | pef | trailsb | 324 | -.42( .11), <.01 \*\*\* | -.96( .55), =.08 . | .00( .07), =.98 |
| memory | eas | pef | word\_im | 324 | .07( .12), =.57 | .38( .42), =.37 | .03( .08), =.68 |
| mental status | eas | pef | mmse | 324 | .31( .16), =.05 \* | .76(1.10), =.49 | -.05( .06), =.42 |
| perceptual speed | eas | pef | symbol | 324 | .40( .10), <.01 \*\*\* | .67( .32), =.04 \* | -.13( .07), =.04 \* |
| verbal knowledge | eas | pef | bnt | 324 | .04( .14), =.79 | .16(1.40), =.91 | .05( .06), =.40 |
| verbal knowledge | eas | pef | categories | 324 | .07( .11), =.54 | .30( .28), =.29 | .02( .06), =.70 |
| verbal knowledge | eas | pef | fas | 324 | .14( .11), =.17 | -.42(1.79), =.81 | .02( .07), =.79 |
| verbal knowledge | eas | pef | waisvocab | 324 | -.01( .13), =.91 | -.58( .72), =.42 | -.02( .07), =.81 |
| visualization | eas | pef | block | 324 | .31( .11), <.01 \*\* | .58( .72), =.42 | -.11( .07), =.11 |
| memory | elsa | fev | word\_de | 3091 | .06( .04), =.16 | -.22( .39), =.58 | .03( .03), =.27 |
| memory | elsa | fev | word\_im | 3091 | .06( .04), =.15 | -.11( .18), =.53 | .05( .02), =.06 . |
| memory | hrs | pef | serial7 | 3287 | .16( .04), <.01 \*\*\* | .21( .13), =.10 . | .03( .03), =.24 |
| memory | hrs | pef | word\_de | 3288 | .27( .03), <.01 \*\*\* | .70( .54), =.19 | .03( .02), =.28 |
| memory | hrs | pef | word\_im | 3288 | .26( .03), <.01 \*\*\* | .37( .59), =.53 | .04( .02), =.12 |
| memory | lasa | pef | word\_im | 800 | .10( .05), =.04 \* | .11( .44), =.80 | .10( .03), <.01 \*\*\* |
| perceptual speed | lasa | pef | letter | 800 | .16( .04), <.01 \*\*\* | .18( .12), =.13 | .12( .03), <.01 \*\*\* |
| visualization | lasa | pef | raven | 800 | .18( .05), <.01 \*\*\* | .54( .19), <.01 \*\* | .03( .03), =.25 |
| memory | map | fev | bstory\_de | 321 | .13( .10), =.21 | .64(2.09), =.76 | -.02( .05), =.66 |
| memory | map | fev | bstory\_im | 321 | .16( .11), =.14 | .80(1.12), =.47 | -.05( .05), =.29 |
| memory | map | fev | digit\_b | 321 | .16( .07), =.03 \* | -.43( .98), =.66 | -.01( .04), =.77 |
| memory | map | fev | digit\_f | 321 | .08( .07), =.27 | .26(1.03), =.80 | -.02( .04), =.56 |
| memory | map | fev | digit\_o | 321 | -.02( .08), =.74 | .09(1.68), =.96 | .00( .05), =.95 |
| memory | map | fev | logic\_de | 321 | .14( .07), =.04 \* | .05( .44), =.90 | -.01( .04), =.76 |
| memory | map | fev | logic\_im | 321 | .11( .07), =.14 | .12(1.05), =.91 | -.01( .04), =.78 |
| memory | map | fev | word\_de | 321 | .10( .08), =.25 | .69(1.04), =.50 | .00( .05), =.92 |
| memory | map | fev | word\_im | 321 | .05( .08), =.56 | .54( .97), =.58 | .10( .05), =.04 \* |
| memory | map | fev | word\_rec | 321 | .01( .08), =.93 | -.58( .43), =.18 | .06( .05), =.17 |
| mental status | map | fev | ideas | 321 | -.02( .08), =.82 | -.36( .38), =.34 | .04( .05), =.42 |
| mental status | map | fev | mmse | 321 | .04( .08), =.66 | -.58( .79), =.46 | .02( .05), =.72 |
| perceptual speed | map | fev | num\_comp | 321 | .02( .07), =.77 | -.75( .49), =.13 | .02( .04), =.64 |
| perceptual speed | map | fev | symbol | 321 | .16( .07), =.02 \* | -.36( .81), =.65 | .06( .05), =.17 |
| verbal knowledge | map | fev | bnt | 321 | .07( .08), =.35 | .16(1.34), =.90 | -.04( .06), =.53 |
| verbal knowledge | map | fev | categories | 321 | .16( .07), =.02 \* | .17( .50), =.73 | -.01( .05), =.76 |
| verbal knowledge | map | fev | nart | 321 | .11( .06), =.07 . | -.01( .59), =.98 | -.02( .05), =.70 |
| visualization | map | fev | line | 321 | .15( .08), =.04 \* | .39( .74), =.60 | -.02( .04), =.68 |
| visualization | map | fev | matrices | 308 | .08( .08), =.28 | .43( .68), =.52 | -.02( .04), =.70 |
| NA | nas | fev | animals | 1131 | -.05( .05), =.26 | -.03( .17), =.87 | .03( .03), =.30 |
| NA | nas | fev | digit\_b | 1131 | .04( .05), =.52 | .51( .67), =.45 | .03( .03), =.26 |
| NA | nas | fev | digit\_b\_tot | 1131 | .03( .05), =.59 | .10( .30), =.73 | .04( .03), =.19 |
| NA | nas | fev | fig\_copy | 1131 | .19( .06), <.01 \*\*\* | .52( .43), =.23 | -.09( .03), <.01 \*\* |
| NA | nas | fev | mmse | 1131 | .20( .07), =.01 \*\* | -.12( .23), =.61 | -.02( .03), =.44 |
| NA | nas | fev | pat\_comp | 1131 | -.01( .06), =.86 | -.25( .28), =.37 | .03( .03), =.44 |
| NA | nas | fev | word\_de | 1131 | .08( .05), =.07 . | -.03( .12), =.77 | .02( .03), =.50 |
| NA | nas | fev | word\_im | 1131 | .11( .05), =.03 \* | .15( .18), =.39 | -.03( .03), =.23 |
| memory | octo | pef | digit\_b | 138 | .31( .13), =.02 \* | .46( .40), =.25 | -.10( .08), =.23 |
| memory | octo | pef | digit\_f | 138 | -.09( .14), =.52 | .63( .17), <.01 \*\*\* | .01( .06), =.86 |
| memory | octo | pef | mir | 137 | .58( .12), <.01 \*\*\* | .43( .17), =.01 \*\* | -.02( .09), =.85 |
| memory | octo | pef | mir\_recog | 137 | .51( .17), <.01 \*\* | .28( .60), =.65 | .04( .06), =.46 |
| memory | octo | pef | prose\_im | 136 | .22( .13), =.10 . | -.26( .53), =.62 | .10( .14), =.47 |
| mental status | octo | pef | clock | 138 | .27( .14), =.06 . | -.17( .53), =.74 | .04( .11), =.72 |
| mental status | octo | pef | mmse | 140 | .66( .14), <.01 \*\*\* | .15( .37), =.69 | .14( .16), =.38 |
| perceptual speed | octo | pef | psif | 127 | .36( .12), <.01 \*\* | .51( .29), =.08 . | -.09( .10), =.39 |
| perceptual speed | octo | pef | symbol | 133 | .31( .11), <.01 \*\* | .73( .14), <.01 \*\*\* | -.04( .07), =.57 |
| verbal knowledge | octo | pef | information | 138 | .06( .12), =.59 | -.07( .39), =.86 | .05( .08), =.53 |
| verbal knowledge | octo | pef | synonyms | 132 | .11( .13), =.38 | .10( .48), =.83 | .05( .10), =.64 |
| visualization | octo | pef | block | 136 | .30( .12), =.01 \*\* | .75( .18), <.01 \*\*\* | .11( .07), =.08 . |
| visualization | octo | pef | fig\_logic | 133 | .29( .13), =.03 \* | .79( .14), <.01 \*\*\* | .01( .08), =.87 |
| memory | satsa | fev | digit\_b | 299 | .20( .09), =.03 \* | -.50( .69), =.47 | -.03( .04), =.42 |
| memory | satsa | fev | digit\_f | 299 | .15( .09), =.11 | .20( .61), =.75 | .05( .05), =.36 |
| memory | satsa | fev | fig\_mem | 298 | .23( .09), =.01 \*\* | .05( .38), =.89 | .01( .04), =.82 |
| mental status | satsa | fev | mmse | 299 | .16( .12), =.18 | .35( .30), =.24 | .05( .05), =.28 |
| perceptual speed | satsa | fev | symbol | 299 | .20( .08), =.01 \* | .07( .27), =.80 | .01( .06), =.82 |
| verbal knowledge | satsa | fev | analogies | 299 | .11( .10), =.29 | -.04( .62), =.95 | .06( .05), =.25 |
| verbal knowledge | satsa | fev | information | 299 | .11( .08), =.18 | -.03( .30), =.93 | .11( .05), =.03 \* |
| verbal knowledge | satsa | fev | synonyms | 299 | .13( .08), =.13 | .10( .41), =.81 | .04( .05), =.34 |
| visualization | satsa | fev | block | 299 | .20( .08), =.01 \*\* | .14( .21), =.49 | .01( .05), =.89 |
| visualization | satsa | fev | rotate | 298 | .19( .08), =.02 \* | .14( .38), =.72 | .02( .05), =.69 |

## female

Parsed with column specification:  
cols(  
 domain = col\_character(),  
 domain\_new = col\_character(),  
 cognitive = col\_character(),  
 study = col\_character(),  
 variable\_study\_name = col\_character(),  
 physical = col\_character()  
)  
Joining, by = c("domain", "study", "physical", "cognitive")

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Corr(Levels)Est | Corr(Slopes)Est | Corr(Residuals)Est |
| memory | eas | pef | digit\_tot | 545 | .13( .09), =.15 | .44( .31), =.15 | -.03( .05), =.57 |
| memory | eas | pef | logic\_tot | 324 | .07( .12), =.57 | .30( .46), =.51 | -.03( .07), =.63 |
| memory | eas | pef | trailsb | 545 | -.13( .09), =.12 | .28( .66), =.66 | -.02( .05), =.73 |
| memory | eas | pef | word\_im | 545 | .29( .10), <.01 \*\* | .64( .53), =.23 | -.04( .05), =.41 |
| mental status | eas | pef | mmse | 545 | .18( .10), =.09 . | .07( .73), =.92 | -.01( .05), =.82 |
| perceptual speed | eas | pef | symbol | 545 | .26( .08), <.01 \*\*\* | .46( .25), =.07 . | .02( .05), =.66 |
| verbal knowledge | eas | pef | bnt | 545 | .17( .09), =.06 . | .16( .81), =.84 | -.06( .05), =.24 |
| verbal knowledge | eas | pef | categories | 545 | .26( .09), <.01 \*\* | .53( .74), =.47 | -.09( .06), =.10 |
| verbal knowledge | eas | pef | fas | 545 | .19( .08), =.02 \* | .10( .38), =.79 | .02( .05), =.64 |
| verbal knowledge | eas | pef | waisvocab | 545 | .03( .09), =.78 | -.70( .40), =.08 . | -.04( .05), =.41 |
| visualization | eas | pef | block | 545 | .25( .10), =.01 \*\* | .31( .36), =.40 | -.01( .05), =.81 |
| memory | elsa | fev | word\_de | 3511 | .05( .04), =.25 | -.43(1.05), =.68 | .01( .03), =.56 |
| memory | elsa | fev | word\_im | 3511 | .07( .04), =.09 . | -.16( .43), =.71 | .02( .02), =.28 |
| memory | hrs | pef | serial7 | 4608 | .13( .03), <.01 \*\*\* | .38( .13), <.01 \*\* | -.02( .02), =.22 |
| memory | hrs | pef | word\_de | 4611 | .28( .03), <.01 \*\*\* | .69( .50), =.17 | .04( .02), =.05 . |
| memory | hrs | pef | word\_im | 4612 | .31( .03), <.01 \*\*\* | .44( .55), =.43 | .04( .02), =.04 \* |
| memory | lasa | pef | word\_im | 782 | .16( .05), <.01 \*\* | .10( .57), =.86 | .14( .02), <.01 \*\*\* |
| perceptual speed | lasa | pef | letter | 782 | .22( .04), <.01 \*\*\* | -.03( .30), =.92 | .11( .03), <.01 \*\*\* |
| visualization | lasa | pef | raven | 782 | .29( .05), <.01 \*\*\* | -.14( .45), =.75 | .00( .03), =.85 |
| memory | map | fev | bstory\_de | 935 | .02( .06), =.74 | -.02( .47), =.97 | -.04( .03), =.17 |
| memory | map | fev | bstory\_im | 935 | .09( .06), =.12 | .11( .60), =.85 | -.03( .03), =.22 |
| memory | map | fev | digit\_b | 935 | .12( .04), =.01 \*\* | .68( .53), =.20 | -.04( .03), =.18 |
| memory | map | fev | digit\_f | 935 | .13( .04), <.01 \*\* | .01( .60), =.98 | .02( .03), =.46 |
| memory | map | fev | digit\_o | 935 | .18( .05), <.01 \*\*\* | -.20( .57), =.72 | .03( .03), =.28 |
| memory | map | fev | logic\_de | 935 | .05( .04), =.31 | -.60( .79), =.44 | .01( .03), =.78 |
| memory | map | fev | logic\_im | 935 | .04( .05), =.33 | -.11( .47), =.81 | .00( .03), =.91 |
| memory | map | fev | word\_de | 935 | .04( .05), =.41 | -.58( .84), =.49 | .02( .03), =.53 |
| memory | map | fev | word\_im | 935 | .11( .04), =.02 \* | -.55( .43), =.19 | .03( .03), =.33 |
| memory | map | fev | word\_rec | 935 | .02( .04), =.68 | .08(1.14), =.95 | .00( .03), =.89 |
| mental status | map | fev | ideas | 935 | .19( .06), <.01 \*\*\* | -.24( .56), =.66 | .02( .03), =.46 |
| mental status | map | fev | mmse | 935 | .02( .06), =.71 | -.20( .57), =.72 | .05( .03), =.07 . |
| perceptual speed | map | fev | num\_comp | 934 | .17( .04), <.01 \*\*\* | -.10( .60), =.86 | -.01( .03), =.59 |
| perceptual speed | map | fev | symbol | 934 | .19( .04), <.01 \*\*\* | .12( .39), =.76 | .05( .03), =.12 |
| verbal knowledge | map | fev | bnt | 934 | .08( .05), =.10 | -.04( .43), =.92 | -.03( .03), =.35 |
| verbal knowledge | map | fev | categories | 935 | .23( .04), <.01 \*\*\* | -.35( .44), =.42 | -.04( .03), =.10 |
| verbal knowledge | map | fev | nart | 932 | .15( .04), <.01 \*\*\* | .32( .63), =.61 | .01( .03), =.72 |
| visualization | map | fev | line | 934 | .14( .05), <.01 \*\* | -.32( .87), =.72 | -.04( .03), =.11 |
| visualization | map | fev | matrices | 920 | .18( .05), <.01 \*\*\* | .64( .82), =.44 | -.05( .03), =.08 . |
| memory | octo | pef | digit\_b | 276 | .18( .13), =.16 | .16( .50), =.76 | .02( .05), =.75 |
| memory | octo | pef | digit\_f | 276 | -.00( .10), =.99 | -.30( .25), =.24 | .01( .05), =.80 |
| memory | octo | pef | mir | 271 | .13( .10), =.20 | .18( .28), =.53 | .06( .06), =.35 |
| memory | octo | pef | mir\_recog | 271 | .07( .07), =.30 | .52( .32), =.10 | .15( .06), =.02 \* |
| memory | octo | pef | prose\_im | 268 | .15( .09), =.11 | -.06( .37), =.87 | .07( .06), =.24 |
| mental status | octo | pef | clock | 275 | .24( .11), =.03 \* | .11( .31), =.72 | .09( .09), =.30 |
| mental status | octo | pef | mmse | 276 | .10( .13), =.42 | .20( .32), =.52 | .20( .07), <.01 \*\* |
| perceptual speed | octo | pef | psif | 254 | .13( .11), =.25 | .07( .35), =.84 | .03( .08), =.72 |
| perceptual speed | octo | pef | symbol | 264 | .38( .08), <.01 \*\*\* | .66( .17), <.01 \*\*\* | .03( .06), =.55 |
| verbal knowledge | octo | pef | information | 275 | .11( .09), =.23 | .20( .30), =.51 | .06( .06), =.33 |
| verbal knowledge | octo | pef | synonyms | 265 | .16( .10), =.09 . | .27( .32), =.40 | -.06( .06), =.30 |
| visualization | octo | pef | block | 272 | .24( .09), =.01 \*\* | .02( .32), =.94 | .15( .06), =.01 \* |
| visualization | octo | pef | fig\_logic | 268 | .20( .12), =.10 . | .18( .43), =.67 | .01( .06), =.81 |
| memory | satsa | fev | digit\_b | 409 | .31( .10), <.01 \*\*\* | .34( .24), =.17 | -.03( .05), =.51 |
| memory | satsa | fev | digit\_f | 409 | .09( .10), =.37 | .06( .61), =.92 | .11( .04), =.01 \*\* |
| memory | satsa | fev | fig\_mem | 409 | .10( .08), =.25 | .25( .24), =.29 | .06( .04), =.21 |
| mental status | satsa | fev | mmse | 411 | -.07( .18), =.72 | .36( .20), =.07 . | .14( .05), <.01 \*\* |
| perceptual speed | satsa | fev | symbol | 408 | .10( .08), =.22 | -.16( .20), =.42 | .04( .05), =.38 |
| verbal knowledge | satsa | fev | analogies | 407 | .27( .10), <.01 \*\* | .17( .19), =.37 | .02( .04), =.65 |
| verbal knowledge | satsa | fev | information | 410 | .03( .07), =.66 | .31( .16), =.06 . | .11( .04), =.01 \*\* |
| verbal knowledge | satsa | fev | synonyms | 409 | .18( .07), =.01 \* | .33( .25), =.18 | .08( .04), =.08 . |
| visualization | satsa | fev | block | 408 | .24( .09), <.01 \*\* | .19( .24), =.43 | .07( .04), =.09 . |
| visualization | satsa | fev | rotate | 407 | .29( .08), <.01 \*\*\* | .03(1.72), =.99 | .01( .04), =.81 |

# 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 2017-01-27, 15:12 -0500

R version 3.3.2 (2016-10-31)  
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] grid stats graphics grDevices utils datasets methods base   
  
other attached packages:  
[1] knitr\_1.15.1 IalsaSynthesis\_0.1.8.9000 MplusAutomation\_0.6-4 ggplot2\_2.2.1   
[5] forestplot\_1.7 checkmate\_1.8.2 magrittr\_1.5   
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.8 plyr\_1.8.4 highr\_0.6 tools\_3.3.2 boot\_1.3-18 digest\_0.6.11   
 [7] jsonlite\_1.2 evaluate\_0.10 tibble\_1.2 gtable\_0.2.0 lattice\_0.20-34 texreg\_1.36.18   
[13] DBI\_0.5-1 yaml\_2.1.14 proto\_1.0.0 coda\_0.19-1 dplyr\_0.5.0 stringr\_1.1.0   
[19] htmlwidgets\_0.8 rprojroot\_1.1 DT\_0.2 R6\_2.2.0 rmarkdown\_1.3 gsubfn\_0.6-6   
[25] pander\_0.6.0 tidyr\_0.6.1 readr\_1.0.0 backports\_1.0.4 scales\_0.4.1 htmltools\_0.3.5   
[31] assertthat\_0.1 testit\_0.6 colorspace\_1.3-2 xtable\_1.8-2 stringi\_1.1.2 lazyeval\_0.2.0   
[37] munsell\_0.4.3