

semmcci: Internal Tests

Ivan Jacob Agaloos Pesigan

Tests

```
#> test-semmcci-mc-latent-med-defined-none
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-latent-med-defined

#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-latent-med-std-defined-none

#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-latent-med-std-defined

#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-moment

#> Test passed

#> test-semmcci-mc-simple-med-defined-equality

#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-defined-inequality

#> Test passed
#> Test passed
#> Test passed
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```
#> test-semmcci-mc-simple-med-defined-meanstructure
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-defined-mi-amelia
#> Test passed

#> test-semmcci-mc-simple-med-defined-mi-list
#> Test passed

#> test-semmcci-mc-simple-med-defined-mi-mice
#> Test passed

#> test-semmcci-mc-simple-med-defined-none
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-defined
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-std-defined-meanstructure
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-std-defined-none-random-x
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-std-defined-none
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-mc-simple-med-std-defined
#> Test passed
#> Test passed
#> Test passed
```

```
#> test-semccci-mc-methods
```

```
#> Monte Carlo Confidence Intervals
```

#>	est	se	R	0.05%	0.5%	2.5%	97.5%	99.5%	99.95%
#> visual=~x1	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> visual=~x2	0.5535	0.0940	100	0.3341	0.3450	0.3717	0.7312	0.7844	0.8194
#> visual=~x3	0.7294	0.1038	100	0.3874	0.4510	0.5523	0.9398	1.0114	1.0329
#> textual=~x4	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> textual=~x5	1.1131	0.0625	100	0.9533	0.9551	0.9716	1.2121	1.2365	1.2406
#> textual=~x6	0.9261	0.0466	100	0.8194	0.8257	0.8402	1.0015	1.0445	1.0622
#> speed=~x7	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> speed=~x8	1.1800	0.1508	100	0.8155	0.8484	0.9070	1.5139	1.6205	1.6353
#> speed=~x9	1.0815	0.1440	100	0.7509	0.7764	0.8274	1.3451	1.3588	1.3639
#> x1~~x1	0.5491	0.1084	100	0.3084	0.3236	0.3475	0.7958	0.8159	0.8246
#> x2~~x2	1.1338	0.0997	100	0.8412	0.8459	0.9355	1.2915	1.3490	1.3657
#> x3~~x3	0.8443	0.0926	100	0.5741	0.6008	0.6736	0.9867	1.0189	1.0290
#> x4~~x4	0.3712	0.0457	100	0.2643	0.2673	0.2800	0.4643	0.4795	0.4844
#> x5~~x5	0.4463	0.0620	100	0.2948	0.2958	0.3339	0.5623	0.5813	0.5830
#> x6~~x6	0.3562	0.0408	100	0.2595	0.2640	0.2722	0.4393	0.4445	0.4449
#> x7~~x7	0.7994	0.0872	100	0.6080	0.6229	0.6806	0.9983	1.0275	1.0336
#> x8~~x8	0.4877	0.0746	100	0.3098	0.3196	0.3413	0.6050	0.6455	0.6536
#> x9~~x9	0.5661	0.0791	100	0.3736	0.3814	0.3962	0.7064	0.7180	0.7239
#> visual~~visual	0.8093	0.1272	100	0.3042	0.3668	0.5955	1.0370	1.0670	1.0778
#> textual~~textual	0.9795	0.1135	100	0.6952	0.7269	0.8112	1.2173	1.2863	1.3059
#> speed~~speed	0.3837	0.0860	100	0.1316	0.1378	0.1874	0.5361	0.5571	0.5735
#> visual~~textual	0.4082	0.0783	100	0.2113	0.2157	0.2500	0.5630	0.5845	0.5885
#> visual~~speed	0.2622	0.0558	100	0.0957	0.1079	0.1480	0.3386	0.3701	0.3856
#> textual~~speed	0.1735	0.0504	100	0.0401	0.0428	0.0633	0.2775	0.2910	0.2923

```
#> Monte Carlo Confidence Intervals (Multiple Imputation Estimates)
```

#>	est	se	R	0.05%	0.5%	2.5%	97.5%	99.5%	99.95%
#> visual=~x1	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> visual=~x2	0.5535	0.1066	100	0.2448	0.2575	0.3289	0.7349	0.7752	0.7895
#> visual=~x3	0.7294	0.1323	100	0.4097	0.4198	0.4594	0.9936	1.0678	1.1102
#> textual=~x4	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> textual=~x5	1.1131	0.0555	100	0.9893	0.9905	1.0175	1.2157	1.2474	1.2731
#> textual=~x6	0.9261	0.0436	100	0.8078	0.8140	0.8493	1.0155	1.0264	1.0270
#> speed=~x7	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> speed=~x8	1.1800	0.1516	100	0.7780	0.7993	0.8876	1.4625	1.5228	1.5280
#> speed=~x9	1.0815	0.1397	100	0.7604	0.7617	0.8090	1.3351	1.3637	1.3695
#> x1~~x1	0.5491	0.1244	100	0.1596	0.2026	0.3255	0.7726	0.8013	0.8063
#> x2~~x2	1.1338	0.0904	100	0.9443	0.9475	0.9576	1.2877	1.3586	1.3618
#> x3~~x3	0.8443	0.0939	100	0.6466	0.6583	0.7107	1.0445	1.1341	1.1774
#> x4~~x4	0.3712	0.0478	100	0.2475	0.2491	0.2609	0.4450	0.4677	0.4848
#> x5~~x5	0.4463	0.0605	100	0.3160	0.3208	0.3385	0.5723	0.5904	0.5925
#> x6~~x6	0.3562	0.0397	100	0.2629	0.2719	0.2894	0.4362	0.4527	0.4555
#> x7~~x7	0.7994	0.0808	100	0.6136	0.6229	0.6404	0.9868	1.0175	1.0206

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#> x8~~x8          0.4877 0.0738 100 0.3471 0.3471 0.3606 0.6371 0.6888 0.6975
#> x9~~x9          0.5661 0.0749 100 0.3825 0.4100 0.4502 0.7046 0.7396 0.7509
#> visual~~visual  0.8093 0.1651 100 0.4019 0.4325 0.4955 1.1436 1.1835 1.2009
#> textual~~textual 0.9795 0.1116 100 0.7018 0.7248 0.7833 1.2239 1.2825 1.3054
#> speed~~speed    0.3837 0.0846 100 0.1920 0.1936 0.2205 0.5452 0.6006 0.6011
#> visual~~textual  0.4082 0.0684 100 0.2617 0.2641 0.2778 0.5531 0.5621 0.5655
#> visual~~speed    0.2622 0.0556 100 0.1116 0.1239 0.1557 0.3728 0.4260 0.4371
#> textual~~speed   0.1735 0.0480 100 0.0636 0.0699 0.0852 0.2684 0.3325 0.3429
#> Standardized Monte Carlo Confidence Intervals
#>           est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x1      0.7719 0.0534 100 0.5267 0.5620 0.6717 0.8515 0.8723 0.8766
#> visual=~x2      0.4236 0.0655 100 0.2608 0.2664 0.2839 0.5478 0.5716 0.5851
#> visual=~x3      0.5811 0.0567 100 0.3882 0.4031 0.4725 0.6900 0.6972 0.6996
#> textual=~x4      0.8516 0.0213 100 0.7996 0.8003 0.8066 0.8869 0.8940 0.8962
#> textual=~x5      0.8551 0.0242 100 0.7934 0.7940 0.8062 0.8948 0.9105 0.9122
#> textual=~x6      0.8380 0.0228 100 0.7829 0.7833 0.7913 0.8817 0.8852 0.8863
#> speed=~x7        0.5695 0.0612 100 0.3482 0.3741 0.4165 0.6539 0.6725 0.6845
#> speed=~x8        0.7230 0.0543 100 0.6000 0.6001 0.6176 0.8322 0.8503 0.8518
#> speed=~x9        0.6650 0.0564 100 0.5325 0.5331 0.5400 0.7721 0.7898 0.7940
#> x1~~x1           0.4042 0.0789 100 0.2315 0.2391 0.2750 0.5488 0.6826 0.7223
#> x2~~x2           0.8206 0.0551 100 0.6576 0.6731 0.6999 0.9194 0.9290 0.9320
#> x3~~x3           0.6623 0.0645 100 0.5106 0.5139 0.5239 0.7766 0.8373 0.8492
#> x4~~x4           0.2748 0.0363 100 0.1969 0.2007 0.2134 0.3494 0.3595 0.3606
#> x5~~x5           0.2689 0.0413 100 0.1679 0.1710 0.1993 0.3501 0.3696 0.3705
#> x6~~x6           0.2977 0.0381 100 0.2145 0.2164 0.2227 0.3738 0.3865 0.3871
#> x7~~x7           0.6757 0.0651 100 0.5314 0.5476 0.5724 0.8264 0.8592 0.8786
#> x8~~x8           0.4772 0.0784 100 0.2745 0.2770 0.3075 0.6186 0.6399 0.6400
#> x9~~x9           0.5578 0.0739 100 0.3695 0.3762 0.4037 0.7084 0.7158 0.7164
#> visual~~visual   1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> textual~~textual 1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> speed~~speed     1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> visual~~textual  0.4585 0.0631 100 0.2713 0.2755 0.3299 0.5604 0.5752 0.5877
#> visual~~speed    0.4705 0.0768 100 0.3126 0.3175 0.3259 0.6030 0.6389 0.6642
#> textual~~speed   0.2830 0.0718 100 0.1097 0.1113 0.1395 0.4571 0.4688 0.4772
#> Standardized Monte Carlo Confidence Intervals
#>           est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x1      0.7719 0.0635 100 0.5774 0.5990 0.6303 0.8751 0.9221 0.9367
#> visual=~x2      0.4236 0.0623 100 0.2205 0.2370 0.2776 0.5242 0.5586 0.5881
#> visual=~x3      0.5811 0.0598 100 0.4008 0.4030 0.4228 0.6797 0.7034 0.7046
#> textual=~x4      0.8516 0.0228 100 0.7941 0.7953 0.8070 0.8935 0.8973 0.8976
#> textual=~x5      0.8551 0.0210 100 0.8041 0.8055 0.8116 0.8903 0.8927 0.8937
#> textual=~x6      0.8380 0.0209 100 0.7808 0.7817 0.7852 0.8726 0.8785 0.8796
#> speed=~x7        0.5695 0.0563 100 0.4066 0.4132 0.4357 0.6524 0.6609 0.6643
#> speed=~x8        0.7230 0.0480 100 0.5905 0.5966 0.6185 0.7886 0.8065 0.8159
#> speed=~x9        0.6650 0.0570 100 0.5085 0.5155 0.5297 0.7354 0.7568 0.7573
#> x1~~x1           0.4042 0.0970 100 0.1226 0.1494 0.2341 0.6027 0.6407 0.6665

```

```

#> x2~~x2      0.8206 0.0508 100 0.6540 0.6868 0.7252 0.9226 0.9435 0.9513
#> x3~~x3      0.6623 0.0668 100 0.5036 0.5052 0.5380 0.8211 0.8376 0.8394
#> x4~~x4      0.2748 0.0388 100 0.1944 0.1949 0.2016 0.3487 0.3675 0.3694
#> x5~~x5      0.2689 0.0358 100 0.2012 0.2031 0.2073 0.3413 0.3511 0.3534
#> x6~~x6      0.2977 0.0348 100 0.2263 0.2282 0.2385 0.3835 0.3889 0.3903
#> x7~~x7      0.6757 0.0620 100 0.5587 0.5631 0.5743 0.8101 0.8292 0.8347
#> x8~~x8      0.4772 0.0678 100 0.3343 0.3495 0.3781 0.6175 0.6440 0.6514
#> x9~~x9      0.5578 0.0730 100 0.4265 0.4272 0.4592 0.7194 0.7342 0.7414
#> visual~~visual 1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> textual~~textual 1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> speed~~speed   1.0000 0.0000 100 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
#> visual~~textual 0.4585 0.0688 100 0.3243 0.3262 0.3385 0.6001 0.6548 0.6859
#> visual~~speed   0.4705 0.0729 100 0.2380 0.2642 0.3248 0.6010 0.6242 0.6422
#> textual~~speed   0.2830 0.0672 100 0.1303 0.1391 0.1555 0.4286 0.4556 0.4716
#> Monte Carlo Confidence Intervals
#> Monte Carlo Confidence Intervals (Multiple Imputation Estimates)
#> Standardized Monte Carlo Confidence Intervals
#> Standardized Monte Carlo Confidence Intervals

#> test-semmcci-npd

#> Test passed
#> Test passed
#> Test passed
#> Test passed

#> test-semmcci-zzz-coverage
#> test-semmcci-zzz-heywood

#> lavaan 0.6.16 ended normally after 18 iterations
#>
#> Estimator ML
#> Optimization method NLMINB
#> Number of model parameters 8
#>
#> Number of observations 50
#>
#> Model Test User Model:
#>
#> Test statistic 0.000
#> Degrees of freedom 2
#> P-value (Chi-square) 1.000
#>
#> Parameter Estimates:
#>
#> Standard errors Standard
#> Information Expected

```

```

#> Information saturated (h1) model          Structured
#>
#> Latent Variables:
#>           Estimate Std.Err  z-value  P(>|z|)
#>   eta1 =~
#>     y1           1.000
#>     y2           0.991    0.152    6.524    0.000
#>     y3           0.901    0.138    6.537    0.000
#>     y4           1.399    0.143    9.814    0.000
#>
#> Variances:
#>           Estimate Std.Err  z-value  P(>|z|)
#>   .y1           0.000    0.055    0.000    1.000
#>   .y2           0.980    0.203    4.822    0.000
#>   .y3           0.807    0.167    4.820    0.000
#>   .y4           0.696    0.176    3.960    0.000
#>   eta1          0.980    0.204    4.815    0.000
#>
#> Standardized Monte Carlo Confidence Intervals
#>           est se R 0.05% 0.5% 2.5% 97.5% 99.5% 99.95%
#> eta1=~y1  1.0000 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y2  0.7039 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y3  0.7047 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y4  0.8566 NA 0    NA    NA    NA    NA    NA    NA
#> y1~~y1    0.0000 NA 0    NA    NA    NA    NA    NA    NA
#> y2~~y2    0.5045 NA 0    NA    NA    NA    NA    NA    NA
#> y3~~y3    0.5034 NA 0    NA    NA    NA    NA    NA    NA
#> y4~~y4    0.2662 NA 0    NA    NA    NA    NA    NA    NA
#> eta1~~eta1 1.0000 NA 0    NA    NA    NA    NA    NA    NA
#> [[1]]
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#> [[1]][[1]]$value
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#>
#>
#> [[1]][[1]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[2]]
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#> [1] TRUE
#>

```

```

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#>
#>
#> [[1]][[3]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[4]]
#> [[1]][[4]]$value
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#> [1] TRUE
#>
#>
#> [[1]][[4]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[5]]
#> [[1]][[5]]$value
#> [[1]][[5]]$value[[1]]
#> Monte Carlo Confidence Intervals
#>
#>
#>      est      se      R      0.05%      0.5%      2.5%
#> ses=~education      1.0000  0.0000 20000      1.0000      1.0000      1.0000
#> ses=~sei      5.2195  0.4169 20000      3.8014      4.1309      4.4058
#> alien67=~anomia67      1.0000  0.0000 20000      1.0000      1.0000      1.0000
#> alien67=~powerless67      0.9787  0.0615 20000      0.7775      0.8217      0.8579
#> alien71=~anomia71      1.0000  0.0000 20000      1.0000      1.0000      1.0000
#> alien71=~powerless71      0.9221  0.0588 20000      0.7345      0.7722      0.8083
#> alien71~alien67      0.6070  0.0504 20000      0.4442      0.4762      0.5076
#> alien71~ses      -0.2268  0.0521 20000     -0.3984     -0.3587     -0.3287
#> alien67~ses      -0.5750  0.0561 20000     -0.7639     -0.7190     -0.6843
#> anomia67~~anomia71      1.6229  0.3136 20000      0.6383      0.8243      1.0140
#> powerless67~~powerless71      0.3387  0.2590 20000     -0.5000     -0.3360     -0.1677
#> education~~education      2.8013  0.5028 20000      1.1253      1.4505      1.8033
#> sei~~sei      264.5971 18.0932 20000    204.4367    217.6900    229.2996
#> anomia67~~anomia67      4.7307  0.4515 20000      3.2552      3.5638      3.8408
#> powerless67~~powerless67      2.5634  0.4004 20000      1.2316      1.5184      1.7782
#> anomia71~~anomia71      4.3992  0.5096 20000      2.7642      3.0948      3.4052

```

```

#> powerless71~~powerless71 3.0699 0.4299 20000 1.6952 1.9767 2.2169
#> ses~~ses 6.7983 0.6492 20000 4.6783 5.1251 5.5393
#> alien67~~alien67 4.8415 0.4678 20000 3.2404 3.6214 3.9266
#> alien71~~alien71 4.0832 0.4037 20000 2.8045 3.0500 3.2964
#> 97.5% 99.5% 99.95%
#> ses=~education 1.0000 1.0000 1.0000
#> ses=~sei 6.0405 6.2937 6.5785
#> alien67=~anomia67 1.0000 1.0000 1.0000
#> alien67=~powerless67 1.0993 1.1387 1.1771
#> alien71=~anomia71 1.0000 1.0000 1.0000
#> alien71=~powerless71 1.0384 1.0757 1.1105
#> alien71~alien67 0.7057 0.7383 0.7656
#> alien71~ses -0.1242 -0.0943 -0.0603
#> alien67~ses -0.4645 -0.4276 -0.3739
#> anomia67~~anomia71 2.2386 2.4389 2.6630
#> powerless67~~powerless71 0.8482 1.0098 1.1625
#> education~~education 3.7767 4.0984 4.4851
#> sei~~sei 300.0216 312.0341 322.3460
#> anomia67~~anomia67 5.6204 5.8799 6.2104
#> powerless67~~powerless67 3.3500 3.6001 3.8787
#> anomia71~~anomia71 5.4034 5.7121 6.0442
#> powerless71~~powerless71 3.9043 4.1677 4.4824
#> ses~~ses 8.0723 8.5075 9.0094
#> alien67~~alien67 5.7722 6.0460 6.3281
#> alien71~~alien71 4.8903 5.1288 5.3997
#>
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#>
#> [[1]][[7]]
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#> [[1]][[7]]$value[[1]]
#> [1] TRUE
#>

```



```

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#>
#> [[1]][[8]]
#> [[1]][[8]]$value
#> [[1]][[8]]$value[[1]]
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#>
#> [[1]][[8]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[9]]
#> [[1]][[9]]$value
#> [[1]][[9]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[9]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[10]]
#> [[1]][[10]]$value
#> [[1]][[10]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[10]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[11]]
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#> [1] TRUE
#>
#>
#> [[1]][[11]]$visible
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#>
#> [[1]][[12]]

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#>
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#> [1] TRUE
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#> [[1]][[19]]
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#>
#>          y1          y2          y3
#> [1,]  1.0017115722  2.0341246894  2.377967937
#> [2,] -0.0680318258 -0.5307233538 -0.379363540
#> [3,] -0.5354302235  0.2287413015 -0.540728723
#> [4,] -0.4334351575 -1.1940134434 -1.203112271
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#> [8,] -2.1728382533 -3.3213540083 -4.552697401
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#> [11,] 0.4954339043  0.6253320843  0.964829099
#> [12,] -2.2140585773 -3.6865464124 -4.806764798
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#> [14,] -0.1543474112  0.9633069427  0.342126948
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#> [32,] -1.3918743862 -2.3155961927 -3.020697908
#> [33,] -1.5085841240 -1.0049430586 -2.438874956
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#> [37,] 2.3493177732  4.6093641439  5.487555461

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#> [1940,] -0.4221949524 0.2511202926 -0.387107246
#> [1941,] 0.4859472923 -0.4381949957 0.362786486
#> [1942,] -0.8679968033 -1.6740341495 -2.011393174
#> [1943,] -2.9669069715 -5.2139365100 -6.593188946
#> [1944,] 1.1311318515 3.1655986280 3.167273049
#> [1945,] 0.8023809496 2.2932080041 2.273187109
#> [1946,] 0.6346146964 -0.0051558865 0.788490281
#> [1947,] -1.1398504340 -1.3161832570 -2.151796844
#> [1948,] 1.1331523840 2.2908249887 2.684329867
#> [1949,] -0.6656574814 -1.1087003286 -1.445343566
#> [1950,] -0.1843539919 -0.3201047895 -0.407530424
#> [1951,] 0.4332177548 0.0001074762 0.540273349
#> [1952,] 1.1427249651 1.2689745257 2.129182457
#> [1953,] 1.1964519735 2.7182554544 3.000469177
#> [1954,] 0.5201982081 0.9025243797 1.149539799
#> [1955,] -0.4700010681 0.9838954585 -0.040060960
#> [1956,] 0.0578055380 1.4608252126 0.882779158
#> [1957,] 0.5056026244 0.6011950625 0.964114249
#> [1958,] -1.1966350146 -1.3332095144 -2.232054918
#> [1959,] -0.4395067721 -1.1572779826 -1.190296808
#> [1960,] 0.5162055507 1.0441458186 1.223155006
#> [1961,] -0.1255945874 0.9319921645 0.360602742
#> [1962,] 0.4999578762 -0.0401893028 0.601133894
#> [1963,] 0.4645672640 1.6090676927 1.472271104
#> [1964,] -2.5566926059 -4.0566100000 -5.439392241
#> [1965,] 1.6406983089 3.4343738752 3.951851038
#> [1966,] -0.0197025847 -1.2631379961 -0.725557424
#> [1967,] -0.0483105634 1.0824605153 0.540477978
#> [1968,] -0.2760743914 -1.3508228968 -1.093909287
#> [1969,] -0.9036504595 0.5122932294 -0.842532398
#> [1970,] -0.8166985493 -1.7750625426 -2.003491826
#> [1971,] 0.8680788362 0.8015130011 1.527282761
#> [1972,] -1.6127051440 -1.9597976727 -3.098616077

```

```

#> [1973,] 0.5004953713 0.5216143661 0.913581654
#> [1974,] -1.4736413798 -2.1401310348 -3.025283865
#> [1975,] -0.9033119918 -1.9274595329 -2.196070972
#> [1976,] 1.7157534273 4.0056062306 4.362453280
#> [1977,] 1.3382565747 2.1715296021 2.873886665
#> [1978,] -1.0624864809 -2.1404682900 -2.512769255
#> [1979,] -1.4750656873 -2.1374736837 -3.025585229
#> [1980,] -2.2514140584 -3.8672699611 -4.953640324
#> [1981,] 0.5652457672 1.2386889846 1.392270468
#> [1982,] -0.2632573310 -0.2251425149 -0.453221192
#> [1983,] 0.0591282133 0.4302450191 0.312499648
#> [1984,] 2.5362410770 4.5741353007 5.701094475
#> [1985,] 1.9267730909 3.7648888446 4.492002426
#> [1986,] 1.4564267911 2.3328869530 3.110789089
#> [1987,] -0.4967888327 -0.8675738924 -1.100952729
#> [1988,] 0.5861531675 1.6395992396 1.640829976
#> [1989,] 1.8490225241 2.4232498724 3.650495597
#> [1990,] -0.3258290825 -0.5084980051 -0.688497323
#> [1991,] 1.3054862523 3.9497142580 3.819840776
#> [1992,] -0.0480918466 0.5104975033 0.223335189
#> [1993,] 0.7052181462 1.5463983612 1.737578990
#> [1994,] 0.4702071205 2.0444148123 1.720903314
#> [1995,] -2.1763181673 -4.8994652497 -5.432822449
#> [1996,] -1.5843863747 -1.5264926561 -2.822837007
#> [1997,] 1.8529086261 2.5392240723 3.719702312
#> [1998,] 2.3243894645 2.7903233385 4.446978881
#> [1999,] -1.6749951452 -3.0981221441 -3.808012860
#> [2000,] 0.5213917151 0.6950798252 1.035905036
#>
#> [[1]][[19]]$value[[1]]$decomposition
#> [1] "eigen"
#>
#>
#>
#> [[1]][[19]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[20]]
#> [[1]][[20]]$value
#> [[1]][[20]]$value[[1]]
#> [[1]][[20]]$value[[1]]$M
#> [1] 2
#>
#> [[1]][[20]]$value[[1]]$est

```



```

#> [1] 0 0 0
#>
#> [[1]][[20]]$value[[1]]$within
#>      [,1] [,2] [,3]
#> [1,]    1    0    0
#> [2,]    0    1    0
#> [3,]    0    0    1
#>
#> [[1]][[20]]$value[[1]]$between
#>      [,1] [,2] [,3]
#> [1,]    0    0    0
#> [2,]    0    0    0
#> [3,]    0    0    0
#>
#> [[1]][[20]]$value[[1]]$total
#>      [,1] [,2] [,3]
#> [1,]    1    0    0
#> [2,]    0    1    0
#> [3,]    0    0    1
#>
#> [[1]][[20]]$value[[1]]$ariv
#> [1] NA
#>
#> [[1]][[20]]$value[[1]]$total_adj
#> [1] NA
#>
#>
#>
#> [[1]][[20]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[21]]
#> [[1]][[21]]$value
#> [[1]][[21]]$value[[1]]
#>
#>      est se R 0.05% 0.5% 2.5% 97.5% 99.5% 99.95%
#> eta1=~y1  1.0000 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y2  0.7039 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y3  0.7047 NA 0    NA    NA    NA    NA    NA    NA
#> eta1=~y4  0.8566 NA 0    NA    NA    NA    NA    NA    NA
#> y1~~y1    0.0000 NA 0    NA    NA    NA    NA    NA    NA
#> y2~~y2    0.5045 NA 0    NA    NA    NA    NA    NA    NA
#> y3~~y3    0.5034 NA 0    NA    NA    NA    NA    NA    NA
#> y4~~y4    0.2662 NA 0    NA    NA    NA    NA    NA    NA
#> eta1~~eta1 1.0000 NA 0    NA    NA    NA    NA    NA    NA

```

```
#>  
#>  
#> [[1]][[21]]$visible  
#> [1] TRUE
```

Environment

```
ls()  
#> [1] "i"      "root"   "tex_file"
```

Class

```
#> [[1]]  
#> [1] "character"  
#>  
#> [[2]]  
#> [1] "root_criterion"  
#>  
#> [[3]]  
#> [1] "character"
```

References

- Pesigan, I. J. A., & Cheung, S. F. (2023). Monte Carlo confidence intervals for the indirect effect with missing data. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-023-02114-4>
- R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>