

# semmcci: Internal Tests

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## 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
```

```
#> 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-semmcci-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	0.0973	100	0.3178	0.3230	0.3566	0.7203	0.7952	0.8296
#> visual=~x3	0.7294	0.1095	100	0.4361	0.4561	0.5451	0.9560	1.0412	1.0416
#> textual=~x4	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> textual=~x5	1.1131	0.0540	100	0.9709	0.9788	0.9972	1.2071	1.2337	1.2370
#> textual=~x6	0.9261	0.0559	100	0.7780	0.7950	0.8400	1.0431	1.0916	1.1180
#> 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	0.7845	0.7982	0.8794	1.4643	1.4771	1.4777
#> speed=~x9	1.0815	0.1650	100	0.7367	0.7583	0.7865	1.4200	1.4886	1.5074
#> x1~~x1	0.5491	0.1024	100	0.2890	0.3185	0.3611	0.7484	0.7724	0.7824
#> x2~~x2	1.1338	0.1109	100	0.8520	0.8807	0.9499	1.3319	1.3641	1.3722
#> x3~~x3	0.8443	0.0943	100	0.6870	0.6899	0.7154	1.0764	1.1177	1.1185
#> x4~~x4	0.3712	0.0481	100	0.2795	0.2816	0.2867	0.4701	0.4943	0.4960
#> x5~~x5	0.4463	0.0604	100	0.2509	0.2727	0.3286	0.5683	0.5890	0.5903
#> x6~~x6	0.3562	0.0459	100	0.2454	0.2524	0.2697	0.4208	0.4697	0.4807
#> x7~~x7	0.7994	0.0763	100	0.6350	0.6366	0.6466	0.9517	0.9563	0.9597
#> x8~~x8	0.4877	0.0718	100	0.3412	0.3519	0.3695	0.6255	0.6777	0.6853
#> x9~~x9	0.5661	0.0724	100	0.3764	0.3983	0.4324	0.7013	0.7180	0.7189
#> visual~~visual	0.8093	0.1416	100	0.4626	0.4736	0.5013	1.0419	1.1411	1.1689
#> textual~~textual	0.9795	0.1186	100	0.6991	0.7206	0.7673	1.2058	1.2788	1.2963
#> speed~~speed	0.3837	0.0880	100	0.1588	0.1651	0.1822	0.5439	0.5688	0.5767
#> visual~~textual	0.4082	0.0767	100	0.1576	0.1594	0.2257	0.5639	0.5772	0.5820
#> visual~~speed	0.2622	0.0557	100	0.0902	0.1155	0.1562	0.3654	0.4020	0.4027
#> textual~~speed	0.1735	0.0430	100	0.0408	0.0553	0.0911	0.2523	0.2901	0.3038

```
#> 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	0.1022	100	0.1847	0.2648	0.3737	0.7451	0.7536	0.7564
#> visual=~x3	0.7294	0.1124	100	0.4261	0.4402	0.5099	0.9173	1.0068	1.0492
#> textual=~x4	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> textual=~x5	1.1131	0.0691	100	0.9355	0.9423	0.9661	1.2354	1.2662	1.2769
#> textual=~x6	0.9261	0.0607	100	0.7745	0.7776	0.7943	1.0268	1.0433	1.0506
#> speed=~x7	1.0000	0.0000	100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
#> speed=~x8	1.1800	0.1501	100	0.8082	0.8419	0.9293	1.5239	1.5609	1.5760
#> speed=~x9	1.0815	0.1362	100	0.6502	0.6734	0.8603	1.3590	1.4368	1.4733
#> x1~~x1	0.5491	0.1067	100	0.1789	0.2272	0.3808	0.7901	0.8397	0.8628
#> x2~~x2	1.1338	0.0999	100	0.8986	0.9140	0.9474	1.3019	1.3412	1.3555
#> x3~~x3	0.8443	0.0936	100	0.6335	0.6376	0.6741	1.0162	1.0517	1.0757
#> x4~~x4	0.3712	0.0475	100	0.2268	0.2395	0.2669	0.4454	0.4600	0.4674
#> x5~~x5	0.4463	0.0564	100	0.3104	0.3128	0.3248	0.5478	0.5645	0.5784
#> x6~~x6	0.3562	0.0419	100	0.2451	0.2538	0.2762	0.4460	0.4726	0.4726
#> x7~~x7	0.7994	0.0811	100	0.5975	0.6151	0.6461	0.9433	0.9568	0.9638

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#> x8~~x8          0.4877 0.0701 100 0.3152 0.3169 0.3302 0.6237 0.6493 0.6631
#> x9~~x9          0.5661 0.0656 100 0.4493 0.4537 0.4679 0.6999 0.7303 0.7517
#> visual~~visual  0.8093 0.1470 100 0.4303 0.4314 0.5227 1.1130 1.1964 1.2017
#> textual~~textual 0.9795 0.1093 100 0.7356 0.7551 0.8072 1.2074 1.2693 1.2987
#> speed~~speed    0.3837 0.0786 100 0.1279 0.1422 0.2017 0.5071 0.5854 0.5968
#> visual~~textual  0.4082 0.0770 100 0.2405 0.2479 0.2686 0.5634 0.6058 0.6221
#> visual~~speed    0.2622 0.0589 100 0.0995 0.1090 0.1541 0.3530 0.4046 0.4284
#> textual~~speed   0.1735 0.0445 100 0.0601 0.0679 0.0853 0.2662 0.2697 0.2713
#> Standardized Monte Carlo Confidence Intervals
#>           est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x1      0.7719 0.0524 100 0.6278 0.6298 0.6465 0.8540 0.8747 0.8853
#> visual=~x2      0.4236 0.0635 100 0.2564 0.2671 0.3067 0.5498 0.5609 0.5636
#> visual=~x3      0.5811 0.0541 100 0.4320 0.4378 0.4826 0.6687 0.7143 0.7235
#> textual=~x4      0.8516 0.0235 100 0.7863 0.7888 0.8000 0.8898 0.8985 0.8990
#> textual=~x5      0.8551 0.0220 100 0.7894 0.7946 0.8122 0.8990 0.9117 0.9210
#> textual=~x6      0.8380 0.0233 100 0.7674 0.7759 0.7875 0.8750 0.8792 0.8813
#> speed=~x7       0.5695 0.0585 100 0.3836 0.3934 0.4088 0.6593 0.6750 0.6827
#> speed=~x8       0.7230 0.0514 100 0.5540 0.5652 0.5968 0.8051 0.8129 0.8150
#> speed=~x9       0.6650 0.0542 100 0.5381 0.5434 0.5524 0.7541 0.7753 0.7880
#> x1~~x1          0.4042 0.0792 100 0.2162 0.2347 0.2707 0.5820 0.6034 0.6059
#> x2~~x2          0.8206 0.0543 100 0.6824 0.6854 0.6977 0.9059 0.9285 0.9342
#> x3~~x3          0.6623 0.0624 100 0.4765 0.4896 0.5528 0.7670 0.8083 0.8134
#> x4~~x4          0.2748 0.0398 100 0.1919 0.1926 0.2081 0.3601 0.3777 0.3817
#> x5~~x5          0.2689 0.0375 100 0.1518 0.1687 0.1919 0.3403 0.3686 0.3769
#> x6~~x6          0.2977 0.0388 100 0.2233 0.2271 0.2344 0.3798 0.3979 0.4111
#> x7~~x7          0.6757 0.0633 100 0.5339 0.5443 0.5653 0.8329 0.8451 0.8528
#> x8~~x8          0.4772 0.0723 100 0.3358 0.3392 0.3517 0.6438 0.6804 0.6930
#> x9~~x9          0.5578 0.0710 100 0.3791 0.3987 0.4313 0.6949 0.7047 0.7104
#> 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 0.0677 100 0.2314 0.2377 0.3143 0.5651 0.6240 0.6467
#> visual~~speed    0.4705 0.0707 100 0.2389 0.2759 0.3286 0.6091 0.6393 0.6533
#> textual~~speed   0.2830 0.0625 100 0.1128 0.1175 0.1868 0.3942 0.4207 0.4213
#> Standardized Monte Carlo Confidence Intervals
#>           est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x1      0.7719 0.0551 100 0.5899 0.5965 0.6351 0.8582 0.9153 0.9323
#> visual=~x2      0.4236 0.0617 100 0.1689 0.2264 0.3157 0.5320 0.5497 0.5537
#> visual=~x3      0.5811 0.0611 100 0.4106 0.4200 0.4397 0.6754 0.6954 0.7034
#> textual=~x4      0.8516 0.0213 100 0.7923 0.7955 0.8115 0.8980 0.9068 0.9070
#> textual=~x5      0.8551 0.0220 100 0.8007 0.8065 0.8181 0.8993 0.9127 0.9175
#> textual=~x6      0.8380 0.0237 100 0.7720 0.7766 0.7839 0.8837 0.8954 0.9006
#> speed=~x7       0.5695 0.0548 100 0.3543 0.3673 0.4226 0.6450 0.6943 0.6995
#> speed=~x8       0.7230 0.0461 100 0.5937 0.5998 0.6368 0.8182 0.8343 0.8380
#> speed=~x9       0.6650 0.0509 100 0.5190 0.5198 0.5503 0.7477 0.7575 0.7583
#> x1~~x1          0.4042 0.0831 100 0.1307 0.1619 0.2635 0.5960 0.6441 0.6520

```

```

#> x2~~x2      0.8206 0.0500 100 0.6934 0.6978 0.7169 0.9002 0.9446 0.9707
#> x3~~x3      0.6623 0.0688 100 0.5052 0.5163 0.5438 0.8067 0.8235 0.8314
#> x4~~x4      0.2748 0.0363 100 0.1773 0.1778 0.1936 0.3415 0.3672 0.3722
#> x5~~x5      0.2689 0.0377 100 0.1582 0.1670 0.1912 0.3307 0.3495 0.3589
#> x6~~x6      0.2977 0.0396 100 0.1889 0.1982 0.2191 0.3855 0.3969 0.4040
#> x7~~x7      0.6757 0.0591 100 0.5106 0.5179 0.5839 0.8207 0.8649 0.8744
#> x8~~x8      0.4772 0.0666 100 0.2977 0.3040 0.3305 0.5945 0.6402 0.6475
#> x9~~x9      0.5578 0.0659 100 0.4249 0.4262 0.4409 0.6971 0.7298 0.7307
#> 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 0.0616 100 0.3206 0.3220 0.3251 0.5531 0.5915 0.5927
#> visual~~speed   0.4705 0.0841 100 0.2779 0.2887 0.3301 0.6325 0.6636 0.6856
#> textual~~speed   0.2830 0.0601 100 0.1054 0.1247 0.1557 0.3980 0.4065 0.4101
#> 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 0.6.15 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]]$value
#> [[1]][[1]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[1]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[2]]
#> [[1]][[2]]$value
#> [[1]][[2]]$value[[1]]
#> [1] TRUE
#>

```

```

#>
#> [[1]][[2]]$visible
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#>
#>
#> [[1]][[3]]
#> [[1]][[3]]$value
#> [[1]][[3]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[3]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[4]]
#> [[1]][[4]]$value
#> [[1]][[4]]$value[[1]]
#> [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  0.4232 20000    3.8828    4.1184    4.3741
#> alien67=~anomia67    1.0000  0.0000 20000    1.0000    1.0000    1.0000
#> alien67=~powerless67 0.9787  0.0612 20000    0.7699    0.8226    0.8595
#> alien71=~anomia71    1.0000  0.0000 20000    1.0000    1.0000    1.0000
#> alien71=~powerless71 0.9221  0.0594 20000    0.7296    0.7644    0.8055
#> alien71~alien67      0.6070  0.0510 20000    0.4394    0.4740    0.5068
#> alien71~ses         -0.2268  0.0520 20000   -0.3938   -0.3590   -0.3278
#> alien67~ses         -0.5750  0.0567 20000   -0.7560   -0.7198   -0.6863
#> anomia67~~anomia71    1.6229  0.3127 20000    0.6033    0.8064    1.0090
#> powerless67~~powerless71 0.3387  0.2617 20000   -0.5115   -0.3273   -0.1725
#> education~~education  2.8013  0.5068 20000    1.1849    1.4774    1.8123
#> sei~~sei           264.5971 18.1160 20000  206.1547  218.5036  228.8329
#> anomia67~~anomia67    4.7307  0.4520 20000    3.1829    3.5861    3.8506
#> powerless67~~powerless67 2.5634  0.4036 20000    1.2203    1.5411    1.7731
#> anomia71~~anomia71    4.3992  0.5157 20000    2.7146    3.0598    3.3779

```

```

#> powerless71~~powerless71 3.0699 0.4317 20000 1.5903 1.9643 2.2321
#> ses~~ses 6.7983 0.6516 20000 4.6039 5.1251 5.5390
#> alien67~~alien67 4.8415 0.4641 20000 3.3676 3.6626 3.9277
#> alien71~~alien71 4.0832 0.4024 20000 2.7322 3.0197 3.2953
#> 97.5% 99.5% 99.95%
#> ses=~education 1.0000 1.0000 1.0000
#> ses=~sei 6.0434 6.2930 6.5633
#> alien67=~anomia67 1.0000 1.0000 1.0000
#> alien67=~powerless67 1.0989 1.1343 1.1748
#> alien71=~anomia71 1.0000 1.0000 1.0000
#> alien71=~powerless71 1.0382 1.0744 1.1123
#> alien71~alien67 0.7055 0.7365 0.7755
#> alien71~ses -0.1254 -0.0916 -0.0525
#> alien67~ses -0.4644 -0.4281 -0.3826
#> anomia67~~anomia71 2.2347 2.4094 2.6354
#> powerless67~~powerless71 0.8546 1.0078 1.1826
#> education~~education 3.7745 4.0930 4.4314
#> sei~~sei 300.0111 311.2744 319.9201
#> anomia67~~anomia67 5.6109 5.8839 6.1559
#> powerless67~~powerless67 3.3519 3.5803 3.8756
#> anomia71~~anomia71 5.4108 5.7206 5.9856
#> powerless71~~powerless71 3.9155 4.1995 4.4629
#> ses~~ses 8.0985 8.4878 8.8915
#> alien67~~alien67 5.7609 6.0407 6.3632
#> alien71~~alien71 4.8799 5.1285 5.3654
#>
#>
#> [[1]][[5]]$visible
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#>
#> [[1]][[6]]$visible
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#>
#>
#> [[1]][[7]]
#> [[1]][[7]]$value
#> [[1]][[7]]$value[[1]]
#> [1] TRUE
#>

```



```

#>
#> [[1]][[7]]$visible
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#>
#> [[1]][[8]]
#> [[1]][[8]]$value
#> [[1]][[8]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[8]]$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]]
#> [[1]][[11]]$value
#> [[1]][[11]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[11]]$visible
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#>
#>
#> [[1]][[12]]

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#>
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#>
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#>
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#> [[1]][[14]]
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#>
#> [[1]][[14]]$visible
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#> [1] TRUE
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#>
#> [[1]][[19]]
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#> [[1]][[19]]$value[[1]]$thetahatstar
#>
#>          y1          y2          y3
#> [1,] -2.6001236307 -5.5235033836 -6.307614255
#> [2,]  2.7958106449  5.7486427694  6.676574903
#> [3,] -1.3490250113 -1.7481985611 -2.652383682
#> [4,] -0.1845664211  0.2198428621 -0.108146979
#> [5,]  0.1080557616  0.2179788531  0.255712468
#> [6,]  0.4064903110  1.8298210579  1.522359203
#> [7,]  1.5901993583  3.8339554639  4.110630928
#> [8,]  0.3314161139 -1.1344719289 -0.216315288
#> [9,] -0.4723543843 -1.2946761893 -1.307507363
#> [10,] 1.1221499392  2.6163960022  2.851288325
#> [11,] -1.5221524361 -2.0645942362 -3.043856402
#> [12,] -0.1826326049 -1.6744293789 -1.156977334
#> [13,]  0.7319530051  1.3255736838  1.648368364
#> [14,] -1.0034469953 -3.2006721213 -3.027516958
#> [15,] -0.8177743548 -1.7326732435 -1.981309048
#> [16,]  1.7128645903  3.9197458048  4.311202018
#> [17,] -2.0885660471 -4.3342048940 -5.009701514
#> [18,]  1.5804514918  1.5950995164  2.856004223
#> [19,]  0.7276659109  1.8374721180  1.927104644
#> [20,]  0.9744839032  2.6276419093  2.673392797
#> [21,]  0.3212999300 -0.1678095760  0.307527170
#> [22,]  1.1639154517  1.0900995289  2.056338427
#> [23,]  0.6655015945  0.6047944158  1.165502494
#> [24,] -0.6570743437 -1.9056021587 -1.876887719
#> [25,] -0.2641608429 -0.7244227579 -0.731427484
#> [26,]  1.7647883444  1.1703016981  2.850123515
#> [27,]  0.3714253104  0.3106552467  0.635560442
#> [28,]  2.1092258124  2.9793623517  4.283582933
#> [29,] -0.6253292404 -1.8182503605 -1.788825632
#> [30,]  0.3726993255  0.0771441126  0.507560210
#> [31,] -2.1715324142 -3.6445646778 -4.730437435
#> [32,] -1.9343120800 -3.3960805499 -4.296730229
#> [33,] -0.0076223224 -0.4550968065 -0.262064554
#> [34,]  0.1254645516  0.8159810936  0.609287080
#> [35,] -1.7661100512 -1.6682811841 -3.128129422
#> [36,] -1.2486265227 -3.1483799850 -3.304230882
#> [37,]  0.0453821113 -0.3506397696 -0.137999824

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#> [38,] -1.4521109649 -1.9515367583 -2.893773950
#> [39,] -1.0552318802 -1.2086355790 -1.986594775
#> [40,]  0.8413715089  0.8847655854  1.540180967
#> [41,] -1.1476852739 -2.3331635368 -2.725948206
#> [42,] -1.8024480840 -2.6959693301 -3.743766101
#> [43,]  1.6866477857  3.4649576385  4.026121806
#> [44,]  0.6232984530  1.4977652138  1.608437443
#> [45,] -0.3042688359 -0.5169629995 -0.666309853
#> [46,] -0.4715317828 -0.0908855736 -0.638428204
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#> [48,]  1.2563944142  2.1887152282  2.781343523
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#> [68,]  0.3091945496  1.6388053822  1.295027671
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#> [70,] -1.7209897921 -3.5601199132 -4.121756666
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#> [72,] -0.0107594229 -1.0974521625 -0.622456783
#> [73,]  1.1363897220  2.0562545043  2.558189964
#> [74,]  0.3151647861  1.3266175954  1.129221283
#> [75,] -0.4525032697 -1.6784716684 -1.495743850
#> [76,] -1.4079276043 -2.1611465486 -2.955002858
#> [77,]  0.3945455802  0.3176068604  0.668248801
#> [78,]  0.0760841487 -1.5487650237 -0.764624363
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#> [80,]  0.5327965322  0.3162973833  0.839918214
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#> [82,] -0.3783464568 -1.3782864577 -1.236681593

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#> [84,] 0.0709988588 -0.6769033759 -0.287118904
#> [85,] -2.2159709578 -4.1216607114 -5.050619716
#> [86,] 2.3019495336 3.4462050837 4.782983653
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#> [89,] 1.9238243593 2.4492430888 3.758197107
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#> [119,] -1.6547846903 -2.9136019536 -3.680409855
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#> [127,] 0.9799734821 1.1631895906 1.867528467

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#> [172,]  1.0574068690  1.4261547576  2.110020979

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#> [173,] -0.1302098330 1.4316349175 0.632128434
#> [174,] 1.1639432444 2.0844097367 2.608173620
#> [175,] 0.3339594910 0.0856999965 0.464000584
#> [176,] 0.2474698223 -0.3272361650 0.126987450
#> [177,] -1.1950293847 -1.3426361334 -2.235284109
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#> [179,] -0.3860372858 -0.2012254920 -0.593052345
#> [180,] -0.0887570192 -0.5817394590 -0.433519236
#> [181,] -0.7896756656 -1.8044148953 -1.986084168
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#> [189,] -1.1692232608 -1.4483601976 -2.261776828
#> [190,] 1.0459684844 0.9124591026 1.810677965
#> [191,] 0.7810308739 0.7513093134 1.390874783
#> [192,] -1.2320823776 -1.8231198635 -2.548136789
#> [193,] -0.2373758580 -0.2690568372 -0.445318133
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#> [201,] 0.9059928071 1.9688929817 2.222407723
#> [202,] -0.5090300958 -1.0775689914 -1.232755822
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#> [218,] 1.3156797994 2.1051709200 2.808907596
#> [219,] -0.1496401473 -1.2211145975 -0.864265688
#> [220,] -1.4253978111 -1.6360816351 -2.685398806
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#> [233,] 2.2070076026 4.2095677777 5.088227337
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#> [239,] 1.1568120954 3.3003616819 3.274083643
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#> [263,] -0.5249980364 0.0486563503 -0.627659606
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#> [1949,]  2.2636814862  2.8355611733  4.396382375
#> [1950,]  0.1306208661 -0.3055170570 -0.006667619
#> [1951,] -1.0475676864 -1.4820384878 -2.128764849
#> [1952,] -1.0068219748 -0.9056104184 -1.758062333
#> [1953,] -0.4144773652 -0.3190212675 -0.693888267
#> [1954,] -1.2514498426 -1.4246871607 -2.351174154
#> [1955,]  0.9057230206  1.8051193206  2.131183780
#> [1956,]  0.7758935362  0.9552682205  1.497657282
#> [1957,]  0.4079673609  0.1570159657  0.595864265
#> [1958,]  1.7000307585  3.0097636013  3.790196468
#> [1959,] -1.8483542500 -2.4556209022 -3.667626839
#> [1960,] -1.6073980164 -3.2274767085 -3.795506987
#> [1961,] -0.9750441588 -0.9947281151 -1.767892635
#> [1962,]  1.4834252040  3.5641623425  3.827761849
#> [1963,] -0.0046653408  0.9609758940  0.527483802
#> [1964,]  0.4622681515  1.1879709596  1.235713101
#> [1965,]  0.7559000175  0.5552504719  1.250732669
#> [1966,]  0.6825836919  1.3456195026  1.597930427
#> [1967,] -0.0704729869  0.5850942223  0.236824419
#> [1968,]  1.1059085414  0.5353794756  1.676158588
#> [1969,]  1.3436382875  0.7878604462  2.112719101
#> [1970,]  0.3756009265  0.4652349305  0.726552603
#> [1971,] -1.4141921351 -2.5145927952 -3.158962469
#> [1972,]  0.7077590621  0.5464848409  1.185837321

```

```

#> [1973,] -1.8961379943 -2.3043601252 -3.643268795
#> [1974,] -2.0907802620 -4.0386942679 -4.848466570
#> [1975,] -0.2519051571 -1.1940913445 -0.976791295
#> [1976,] -0.2519214189 -1.1318443350 -0.942267089
#> [1977,] -1.4765672395 -1.5355961329 -2.693440793
#> [1978,] 0.1839527971 0.1993272214 0.340003648
#> [1979,] 0.4121118231 0.4471606709 0.762050489
#> [1980,] -2.2747168106 -3.8165647078 -4.954559088
#> [1981,] 0.5474098377 0.7368576832 1.091534066
#> [1982,] 1.3408120588 2.5147184254 3.067528730
#> [1983,] 0.8606111656 2.3239325773 2.362849852
#> [1984,] -0.3952879871 -0.0302444861 -0.509700481
#> [1985,] -0.8256779076 -2.1590779139 -2.227801356
#> [1986,] -0.3982895496 -0.2204104298 -0.618977505
#> [1987,] 0.0160825894 0.3140852364 0.194358817
#> [1988,] 0.9811442288 2.1096334225 2.394225065
#> [1989,] -1.4529874687 -2.6125761912 -3.261716141
#> [1990,] -0.3411170980 -2.3818582814 -1.747197686
#> [1991,] -0.5932736422 -1.5140663921 -1.580043588
#> [1992,] 1.4150083673 0.0819251688 1.809951612
#> [1993,] -2.9310194622 -5.1484271779 -6.512083017
#> [1994,] 0.0647917609 -0.0994841263 0.025584479
#> [1995,] -0.1155251041 0.4710988763 0.117382704
#> [1996,] -0.3103117538 -1.0497282133 -0.969507636
#> [1997,] 0.0547716814 0.5502168808 0.373646502
#> [1998,] -0.6987672578 0.2475284914 -0.733980569
#> [1999,] -0.4087722269 0.6153220090 -0.168252677
#> [2000,] 0.9827909947 0.6984867718 1.613151239
#>
#> [[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

R Core Team. (2023). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>