

# semmcci: Internal Tests

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## Tests

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

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

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

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

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

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

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

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

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

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

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

```

#> Test passed

#> test-semmcci-mvn

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

#> test-semmcci-mvn

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

#> test-semmcci-mvn

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

#> test-semmcci-mc-print

#> Monte Carlo Confidence Intervals
#>

```

	est	se	R	0.05%	0.5%	2.5%	97.5%	99.5%
#> visual=~x2	0.5535	0.10379	100	0.25685	0.27180	0.31151	0.7273	0.7682
#> visual=~x3	0.7294	0.10254	100	0.45120	0.46728	0.52101	0.9148	0.9359
#> textual=~x5	1.1131	0.06653	100	0.93835	0.95545	0.98682	1.2475	1.2660
#> textual=~x6	0.9261	0.04952	100	0.82884	0.83039	0.83911	1.0327	1.0555
#> speed=~x8	1.1800	0.16828	100	0.77609	0.79612	0.83240	1.4817	1.5984
#> speed=~x9	1.0815	0.16935	100	0.62978	0.65466	0.75856	1.3783	1.5034
#> x1~~x1	0.5491	0.11254	100	0.22562	0.23811	0.31783	0.7079	0.7624
#> x2~~x2	1.1338	0.08869	100	0.90371	0.92071	0.95269	1.3015	1.3129
#> x3~~x3	0.8443	0.08565	100	0.61537	0.65206	0.71426	1.0313	1.0914
#> x4~~x4	0.3712	0.05583	100	0.22310	0.23856	0.26429	0.4616	0.4961
#> x5~~x5	0.4463	0.06091	100	0.27190	0.28812	0.32424	0.5560	0.6163
#> x6~~x6	0.3562	0.04342	100	0.24364	0.24815	0.27468	0.4401	0.4621
#> x7~~x7	0.7994	0.08003	100	0.60473	0.60763	0.63754	0.9513	0.9740
#> x8~~x8	0.4877	0.06886	100	0.34436	0.34493	0.36318	0.6204	0.6399
#> x9~~x9	0.5661	0.06799	100	0.35846	0.38048	0.43200	0.6575	0.7357
#> visual~~visual	0.8093	0.13876	100	0.53874	0.55059	0.56616	1.1172	1.2236
#> textual~~textual	0.9795	0.11010	100	0.77381	0.77435	0.80297	1.2205	1.3133
#> speed~~speed	0.3837	0.09845	100	0.19752	0.20201	0.20982	0.6088	0.6392
#> visual~~textual	0.4082	0.07110	100	0.23580	0.23753	0.28995	0.5572	0.5965
#> visual~~speed	0.2622	0.06150	100	0.11483	0.12179	0.13950	0.3891	0.4218
#> textual~~speed	0.1735	0.05302	100	0.02585	0.04126	0.07912	0.2618	0.2921
#>	99.95%							

```

#> visual=~x2      0.7801
#> visual=~x3      0.9411
#> textual=~x5     1.2732
#> textual=~x6     1.0645
#> speed=~x8       1.6622
#> speed=~x9       1.5576
#> x1~~x1          0.7706
#> x2~~x2          1.3154
#> x3~~x3          1.1016
#> x4~~x4          0.5149
#> x5~~x5          0.6292
#> x6~~x6          0.4686
#> x7~~x7          0.9777
#> x8~~x8          0.6507
#> x9~~x9          0.7707
#> visual~~visual  1.2619
#> textual~~textual 1.3830
#> speed~~speed    0.6446
#> visual~~textual 0.6084
#> visual~~speed   0.4294
#> textual~~speed  0.2937
#> Standardized Monte Carlo Confidence Intervals
#>
#>      est      se    R  0.05%   0.5%   2.5%  97.5%  99.5% 99.95%
#> visual=~x2      0.4236 0.0613 100 0.2099 0.2152 0.2898 0.5204 0.5431 0.5538
#> visual=~x3      0.5811 0.0536 100 0.4535 0.4578 0.4646 0.6765 0.6924 0.6985
#> textual=~x5     0.8551 0.0246 100 0.7739 0.7794 0.8003 0.9019 0.9155 0.9223
#> textual=~x6     0.8380 0.0221 100 0.7917 0.7931 0.7954 0.8788 0.8922 0.8924
#> speed=~x8       0.7230 0.0489 100 0.5749 0.5855 0.6144 0.7929 0.8028 0.8051
#> speed=~x9       0.6650 0.0546 100 0.5226 0.5330 0.5534 0.7513 0.7680 0.7681
#> x1~~x1          0.4042 0.0817 100 0.1868 0.1961 0.2259 0.5316 0.5423 0.5448
#> x2~~x2          0.8206 0.0497 100 0.6932 0.7049 0.7292 0.9159 0.9537 0.9559
#> x3~~x3          0.6623 0.0613 100 0.5121 0.5205 0.5423 0.7841 0.7904 0.7943
#> x4~~x4          0.2748 0.0423 100 0.1537 0.1583 0.1802 0.3432 0.3490 0.3504
#> x5~~x5          0.2689 0.0419 100 0.1493 0.1619 0.1865 0.3595 0.3926 0.4011
#> x6~~x6          0.2977 0.0371 100 0.2037 0.2040 0.2277 0.3673 0.3710 0.3731
#> x7~~x7          0.6757 0.0669 100 0.4884 0.5067 0.5381 0.7974 0.8103 0.8151
#> x8~~x8          0.4772 0.0688 100 0.3519 0.3555 0.3714 0.6226 0.6571 0.6694
#> x9~~x9          0.5578 0.0713 100 0.4100 0.4102 0.4355 0.6938 0.7157 0.7269
#> 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 0.0645 100 0.3101 0.3130 0.3524 0.5909 0.6207 0.6261
#> visual~~speed   0.4705 0.0728 100 0.3025 0.3134 0.3322 0.5929 0.6311 0.6469
#> textual~~speed  0.2830 0.0743 100 0.0505 0.0791 0.1338 0.4106 0.4621 0.4880
#> [[1]]
#> [[1]][[1]]

```

```

#> [[1]][[1]]$value
#> [[1]][[1]]$value[[1]]
#> [1] TRUE
#>
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#> [[1]][[1]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[2]]
#> [[1]][[2]]$value
#> [[1]][[2]]$value[[1]]
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#> [[1]][[2]]$visible
#> [1] TRUE
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#>
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#> [[1]][[4]]$visible
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#>
#> [[1]][[5]]
#> [[1]][[5]]$value
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#>
#>

```

```

#> [[1]][[5]]$visible
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#> [[1]][[6]]
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#> [[1]][[6]]$value[[1]]
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#>
#> [[1]][[6]]$visible
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#>
#>
#> [[1]][[7]]
#> [[1]][[7]]$value
#> [[1]][[7]]$value[[1]]
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#>
#>
#> [[1]][[7]]$visible
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#>
#>
#> [[1]][[8]]
#> [[1]][[8]]$value
#> [[1]][[8]]$value[[1]]
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#>
#> [[1]][[8]]$visible
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#>
#>
#> [[1]][[9]]
#> [[1]][[9]]$value
#> [[1]][[9]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[9]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[10]]

```

```

#> [[1]][[10]]$value
#> [[1]][[10]]$value[[1]]
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#>
#>
#> [[1]][[10]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[11]]
#> [[1]][[11]]$value
#> [[1]][[11]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[11]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[12]]
#> [[1]][[12]]$value
#> [[1]][[12]]$value[[1]]
#> [1] TRUE
#>
#> [[1]][[12]]$value[[2]]
#> [1] TRUE
#>
#> [[1]][[12]]$value[[3]]
#> [1] TRUE
#>
#>
#> [[1]][[12]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[13]]
#> [[1]][[13]]$value
#> [[1]][[13]]$value[[1]]
#>

```

	est	se	R	0.05%	0.5%	2.5%	97.5%	99.5%	99.95%
#> visual=~x2	0.4236	0.0613	100	0.2099	0.2152	0.2898	0.5204	0.5431	0.5538
#> visual=~x3	0.5811	0.0536	100	0.4535	0.4578	0.4646	0.6765	0.6924	0.6985
#> textual=~x5	0.8551	0.0246	100	0.7739	0.7794	0.8003	0.9019	0.9155	0.9223
#> textual=~x6	0.8380	0.0221	100	0.7917	0.7931	0.7954	0.8788	0.8922	0.8924
#> speed=~x8	0.7230	0.0489	100	0.5749	0.5855	0.6144	0.7929	0.8028	0.8051
#> speed=~x9	0.6650	0.0546	100	0.5226	0.5330	0.5534	0.7513	0.7680	0.7681

```

#> x1~~x1      0.4042 0.0817 100 0.1868 0.1961 0.2259 0.5316 0.5423 0.5448
#> x2~~x2      0.8206 0.0497 100 0.6932 0.7049 0.7292 0.9159 0.9537 0.9559
#> x3~~x3      0.6623 0.0613 100 0.5121 0.5205 0.5423 0.7841 0.7904 0.7943
#> x4~~x4      0.2748 0.0423 100 0.1537 0.1583 0.1802 0.3432 0.3490 0.3504
#> x5~~x5      0.2689 0.0419 100 0.1493 0.1619 0.1865 0.3595 0.3926 0.4011
#> x6~~x6      0.2977 0.0371 100 0.2037 0.2040 0.2277 0.3673 0.3710 0.3731
#> x7~~x7      0.6757 0.0669 100 0.4884 0.5067 0.5381 0.7974 0.8103 0.8151
#> x8~~x8      0.4772 0.0688 100 0.3519 0.3555 0.3714 0.6226 0.6571 0.6694
#> x9~~x9      0.5578 0.0713 100 0.4100 0.4102 0.4355 0.6938 0.7157 0.7269
#> 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 0.0645 100 0.3101 0.3130 0.3524 0.5909 0.6207 0.6261
#> visual~~speed   0.4705 0.0728 100 0.3025 0.3134 0.3322 0.5929 0.6311 0.6469
#> textual~~speed   0.2830 0.0743 100 0.0505 0.0791 0.1338 0.4106 0.4621 0.4880
#>
#>
#> [[1]][[13]]$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. (2022). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>