semmcci: Internal Tests

Ivan Jacob Agaloos Pesigan

Tests

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#> Test passed
#> 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=~x2      0.5535 0.1038 100 0.2569 0.2718 0.3115 0.7273 0.7682 0.7801
#> visual=~x3      0.7294 0.1025 100 0.4512 0.4673 0.5210 0.9148 0.9359 0.9411
#> textual=~x5     1.1131 0.0665 100 0.9383 0.9554 0.9868 1.2475 1.2660 1.2732
#> textual=~x6     0.9261 0.0495 100 0.8288 0.8304 0.8391 1.0327 1.0555 1.0645
#> speed=~x8       1.1800 0.1683 100 0.7761 0.7961 0.8324 1.4817 1.5984 1.6622
#> speed=~x9       1.0815 0.1693 100 0.6298 0.6547 0.7586 1.3783 1.5034 1.5576
```

```
#> x1~~x1          0.5491 0.1125 100 0.2256 0.2381 0.3178 0.7079 0.7624 0.7706
#> x2~~x2          1.1338 0.0887 100 0.9037 0.9207 0.9527 1.3015 1.3129 1.3154
#> x3~~x3          0.8443 0.0856 100 0.6154 0.6521 0.7143 1.0313 1.0914 1.1016
#> x4~~x4          0.3712 0.0558 100 0.2231 0.2386 0.2643 0.4616 0.4961 0.5149
#> x5~~x5          0.4463 0.0609 100 0.2719 0.2881 0.3242 0.5560 0.6163 0.6292
#> x6~~x6          0.3562 0.0434 100 0.2436 0.2481 0.2747 0.4401 0.4621 0.4686
#> x7~~x7          0.7994 0.0800 100 0.6047 0.6076 0.6375 0.9513 0.9740 0.9777
#> x8~~x8          0.4877 0.0689 100 0.3444 0.3449 0.3632 0.6204 0.6399 0.6507
#> x9~~x9          0.5661 0.0680 100 0.3585 0.3805 0.4320 0.6575 0.7357 0.7707
#> visual~~visual   0.8093 0.1388 100 0.5387 0.5506 0.5662 1.1172 1.2236 1.2619
#> textual~~textual 0.9795 0.1101 100 0.7738 0.7744 0.8030 1.2205 1.3133 1.3830
#> speed~~speed     0.3837 0.0984 100 0.1975 0.2020 0.2098 0.6088 0.6392 0.6446
#> visual~~textual  0.4082 0.0711 100 0.2358 0.2375 0.2899 0.5572 0.5965 0.6084
#> visual~~speed    0.2622 0.0615 100 0.1148 0.1218 0.1395 0.3891 0.4218 0.4294
#> textual~~speed   0.1735 0.0530 100 0.0258 0.0413 0.0791 0.2618 0.2921 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
#> Monte Carlo Confidence Intervals
#> Standardized Monte Carlo Confidence Intervals

#> test-semmcci-mvn

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#> Test passed

#> test-semmcci-mvn

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#> test-semmcci-mvn

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#> test-semmcci-npd

#> Test passed
#> Test passed
#> Test passed
#> [[1]]
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#> [[1]][[1]]$value[[1]]
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#>
#>
#> [[1]][[1]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[2]]
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#>
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#>
#>
#> [[1]][[3]]
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```

```
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#> 
#> [[1]][[4]]
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#> 
#> 
#> [[1]][[5]]
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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
#> [1] TRUE
#> 
#> 
```

```
#> [[1]][[8]]
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#> [[1]][[8]]$value[[1]]
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#>
#> [[1]][[8]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[9]]
#> [[1]][[9]]$value
#> [[1]][[9]]$value[[1]]
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#>
#>
#> [[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]]
#>                        2.5%      97.5%
#> visual=~x2        0.2897874 0.5203873
```

```
#> visual=~x3       0.4646159 0.6765250
#> textual=~x5      0.8002979 0.9019032
#> textual=~x6      0.7954116 0.8787872
#> speed=~x8        0.6143520 0.7928503
#> speed=~x9        0.5533531 0.7513261
#> x1~~x1           0.2258972 0.5315962
#> x2~~x2           0.7291958 0.9158788
#> x3~~x3           0.5422806 0.7841317
#> x4~~x4           0.1801977 0.3432245
#> x5~~x5           0.1865401 0.3595047
#> x6~~x6           0.2277287 0.3673203
#> x7~~x7           0.5381230 0.7974247
#> x8~~x8           0.3713578 0.6225555
#> x9~~x9           0.4355037 0.6937509
#> visual~~visual   1.0000000 1.0000000
#> textual~~textual 1.0000000 1.0000000
#> speed~~speed     1.0000000 1.0000000
#> visual~~textual  0.3524238 0.5908821
#> visual~~speed    0.3321714 0.5928531
#> textual~~speed   0.1338109 0.4106239
#>
#>
#> [[1]][[12]]$visible
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#>
#> [[1]][[13]]
#> [[1]][[13]]$value
#> [[1]][[13]]$value[[1]]
#> [1] TRUE
#>
#> [[1]][[13]]$value[[2]]
#> [1] TRUE
#>
#> [[1]][[13]]$value[[3]]
#> [1] TRUE
#>
#>
#> [[1]][[13]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[14]]
#> [[1]][[14]]$value
#> [[1]][[14]]$value[[1]]
#> [[1]][[14]]$value[[1]]$thetahatstar
```

```
#>                     y1              y2              y3
#>    [1,]   1.7970756905   2.863941859   4.506806294
#>    [2,]   1.8110674524   3.342076472   5.961401220
#>    [3,]   1.6404839610   2.872316084   4.065886805
#>    [4,]  -1.1584024141  -1.558403238  -0.645703837
#>    [5,]   1.0654343110   0.555884319   0.568526405
#>    [6,]  -1.8976944298  -1.430929395  -1.970417146
#>    [7,]  -0.5970157141  -0.108327205   0.638613604
#>    [8,]   1.3674059735   2.287867811   2.406862865
#>    [9,]   1.0422544947   0.589594076   1.236499425
#>   [10,]  -0.1312050501  -1.979032586  -3.340345641
#>   [11,]   1.3384999182   1.441961482   1.754542220
#>   [12,]  -0.7871261152  -2.364689561  -2.595624630
#>   [13,]  -0.1937486521   0.295082123   1.434664404
#>   [14,]   0.9684725285   0.514116723  -0.104805869
#>   [15,]   1.3244928289   2.944296638   4.279806246
#>   [16,]   0.0930376802  -0.116608789   0.627367032
#>   [17,]   0.7033506903   1.974366524   2.247790718
#>   [18,]  -0.0102597182  -1.037425667  -2.400847890
#>   [19,]   0.7871206840   1.748608512   1.340706331
#>   [20,]   0.4810447345   0.480712301   0.297136938
#>   [21,]   0.4287002891  -1.685372417  -1.517956579
#>   [22,]   0.9305393395   1.854531351   1.088136227
#>   [23,]   0.8945198312   1.861332584   3.255001002
#>   [24,]   0.0224009198  -0.068675362   1.008259587
#>   [25,]   0.1611362801   0.387797634   1.304428433
#>   [26,]   1.7132911728   1.697877480   2.297207621
#>   [27,]  -1.2687181250  -2.055217971  -2.672374781
#>   [28,]   0.3597009416   0.279420206   0.358737823
#>   [29,]  -0.8003044051  -2.617409965  -3.390366625
#>   [30,]  -0.4009045681  -0.473888660  -1.246917880
#>   [31,]  -0.0228437018  -1.164526975  -2.366883373
#>   [32,]   0.5276068060   1.621507209   2.439200514
#>   [33,]  -0.1605805048  -0.851740688  -0.548675322
#>   [34,]  -0.5440131732  -0.572395043   0.284984102
#>   [35,]   0.5775100206   0.093689748  -1.687672397
#>   [36,]  -0.1206618380   0.932956997   1.469027248
#>   [37,]   3.2800836881   5.926811147   6.788453563
#>   [38,]   0.0853579787   0.200745896   0.899359143
#>   [39,]  -0.3917050541   0.435340063   1.146817020
#>   [40,]   0.6174115178   2.192497679   2.458897357
#>   [41,]  -0.9888090972  -0.563164677  -0.395498406
#>   [42,]   0.0256573824  -0.056829503  -0.018806521
#>   [43,]   0.4740193861  -0.242767041  -0.210049259
#>   [44,]  -0.0678271981   0.801435680   1.633659674
#>   [45,]   1.1744944961   1.915610549   2.022045337
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```
#>    [46,]   1.4537455154   3.082426847   5.017368070
#>    [47,]   1.0276334790   1.601038506   2.418975164
#>    [48,]  -1.4205320630  -3.530284474  -5.644186157
#>    [49,]  -1.3436111619  -2.669728365  -4.599090980
#>    [50,]  -0.3743928365  -1.588277767  -1.078519486
#>    [51,]  -3.0311257697  -4.743833330  -5.511472062
#>    [52,]   2.6611282480   2.480458237   1.640591792
#>    [53,]   1.1880034848   2.258617082   1.235084712
#>    [54,]  -1.2589544496  -1.057195780  -1.360421728
#>    [55,]  -0.6100599999  -1.295505490  -1.116811617
#>    [56,]  -0.7776999837  -2.143454352  -3.692915301
#>    [57,]  -1.1129697131  -0.571576160  -1.950050307
#>    [58,]  -0.4712967650  -0.511691029  -0.076507902
#>    [59,]   1.6556004738   1.470539553   1.105633336
#>    [60,]  -1.5317621826  -2.642844946  -1.767523450
#>    [61,]  -0.5401308207  -1.666679786  -2.600115235
#>    [62,]   1.1150673427   2.597067235   4.106722957
#>    [63,]  -0.9409377666  -1.116914355  -1.672099308
#>    [64,]   0.4657358724   1.107576508   1.808758552
#>    [65,]   0.1599484966   0.089543556   1.080110187
#>    [66,]  -1.0555235411  -0.567044320  -0.225014438
#>    [67,]  -2.1160435840  -5.042335227  -6.519063848
#>    [68,]   3.1889156395   3.604075735   3.835641747
#>    [69,]   1.0540938249   1.953930600   1.513879860
#>    [70,]  -3.0525837990  -5.701730692  -7.747219980
#>    [71,]   1.2298496055   1.591617381   1.681007937
#>    [72,]   3.0713241780   5.287868387   5.787697388
#>    [73,]  -1.2298484210  -1.906953232  -1.574497023
#>    [74,]   1.1221376156   0.728184324   1.103831322
#>    [75,]  -0.4636280986  -1.304441314  -2.565684228
#>    [76,]  -3.2444980869  -5.954000796  -6.335791277
#>    [77,]  -0.5382464361  -0.908592395  -2.158505083
#>    [78,]  -2.0982597455  -3.443323126  -2.881228334
#>    [79,]   1.8403553383   3.754687592   5.690374284
#>    [80,]   1.0187007593  -0.093018710   0.396097464
#>    [81,]   0.6361047335  -0.193279461  -1.617082211
#>    [82,]   1.0299842546   1.493987463   2.047769110
#>    [83,]  -0.7704705862  -3.061970737  -3.222302479
#>    [84,]   0.4489869464   1.167308764   0.904558849
#>    [85,]   0.3593714799   0.466376323   1.736486083
#>    [86,]   0.5936085563   2.407506710   3.685370521
#>    [87,]   1.2980023524   2.437059594   3.303123252
#>    [88,]   0.4647400150   1.980689904   4.299133891
#>    [89,]  -0.9109884857  -1.320121448  -2.045882905
#>    [90,]   4.4536799350   6.468168299   6.694781333
```

```
#>    [91,]   0.6797137750   2.972286405   2.242582248
#>    [92,]   0.6962889071   0.885919696   0.164107472
#>    [93,]   1.5283055469   0.936562653   1.146234830
#>    [94,]   0.8627672881   1.827795193   1.177267836
#>    [95,]   0.0119975352  -1.460929564  -2.055958713
#>    [96,]   1.4260672359   2.734785778   3.587873631
#>    [97,]  -0.2918112100   0.258382411  -1.037048173
#>    [98,]   0.9998473601   1.189122638   1.643912163
#>    [99,]   0.7615916534  -0.113021996   0.295828594
#>   [100,]  -1.1500461383  -2.428786713  -2.236692784
#>   [101,]  -1.1123743309  -1.315415047  -1.318188941
#>   [102,]   0.9671868724   1.660194596   2.414442967
#>   [103,]  -0.8174565267  -0.783978229  -2.020544861
#>   [104,]  -2.8372520048  -4.409486593  -3.488310955
#>   [105,]  -2.3992236167  -2.859318540  -1.999684715
#>   [106,]   1.7438351201   0.280591880   1.716610940
#>   [107,]  -0.7831253669  -1.730642571  -1.784083991
#>   [108,]  -1.7778638122  -1.229263667  -1.193490324
#>   [109,]  -0.8295708879  -1.104226955  -0.704099726
#>   [110,]  -1.2864385860  -2.567297949  -2.806579077
#>   [111,]  -0.7131253077  -1.920988078  -2.504066008
#>   [112,]   1.7436167305   0.992191173   1.535803967
#>   [113,]  -1.3696959084  -2.388490652  -1.448417267
#>   [114,]   0.8244099706   1.377602744   2.339424801
#>   [115,]   2.0502033319   3.844537939   3.390245332
#>   [116,]  -2.3701371594  -3.979483190  -4.767279320
#>   [117,]  -1.2128688775  -2.557158724  -3.507851224
#>   [118,]   0.2559481784  -0.909715851  -1.764015687
#>   [119,]   2.6210921214   4.298396038   4.182789556
#>   [120,]   1.4453842158   1.839267197   2.932435644
#>   [121,]  -2.2277307097  -2.688310644  -3.346420866
#>   [122,]  -0.0880879919  -0.537096828   0.641793066
#>   [123,]   0.6704916931   0.733873025   1.170846533
#>   [124,]  -0.7346312565  -0.775959272   0.002146935
#>   [125,]  -1.2283912946  -0.999827978  -1.275169070
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#>   [650,] -2.4807523167 -5.484302798 -8.048086413
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#>   [655,]  1.2478822958  1.617186743  1.615842420
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#>   [657,] -0.7112807742 -1.026169166 -2.228336039
#>   [658,]  0.1719436200 -0.745357020 -1.159275643
#>   [659,]  3.3042180938  5.111385518  6.397576212
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#>   [661,] -0.9844844639 -2.273111261 -2.651823788
#>   [662,] -0.5429566916 -1.037460984  0.416944807
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#>   [673,] -1.3827081555 -2.323001473 -1.781990293
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#> [1170,]  -0.8100967853 -1.098005619 -0.241002622
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#> [1173,] -0.0386200296 -1.076541847 -1.106531295
#> [1174,]   0.8693575796  0.389755231  0.425006377
#> [1175,]   4.3433045048  4.485741736  5.311448869
#> [1176,]   2.3790861375  3.995223589  5.157888515
#> [1177,]   1.4865975645  2.326723952  3.880205936
#> [1178,]   0.9836206077  1.538871088  1.903927064
#> [1179,] -0.4841823280 -1.974050367 -2.847618967
#> [1180,]   0.1286244414 -0.026654460  0.660442749
#> [1181,]   0.8516558929  2.057845279  2.503447116
#> [1182,] -1.0567556842  0.386087720  2.412744568
#> [1183,]   1.7225961342  1.195309464 -0.167664848
#> [1184,]   1.2567022763  0.918163456 -0.122457375
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#> [1186,] -1.5041659068 -3.738364024 -3.852834336
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#> [1194,] -0.2606613575 -1.516958132 -1.287253583
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#> [1196,]   0.4919738709  2.391314562  2.347882436
#> [1197,]   1.1971736052  1.486696460  1.040081466
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#> [1204,] -1.9197390922 -2.880916643 -2.578781114
#> [1205,] -2.8447733218 -4.254098722 -4.639357865
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#> [1207,] -2.8036207928 -4.878397853 -7.021651484
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#> [1215,] -1.2506814187 -0.462257519 -0.921620553
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#> [1221,] -1.4086696323 -1.331981101 -1.160114904
#> [1222,] -0.0390672189 -0.483819212  0.037701781
#> [1223,] -0.3309459645 -0.395231435 -0.448626037
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#> [1270,]   3.0339085147   2.229974443  3.065628203
#> [1271,] -1.0493481557 -0.356332201 -1.386944848
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#> [1435,]   2.6510987443   3.583966865   4.767483118
#> [1436,]  -1.0850497277  -1.572445083  -1.602716248
#> [1437,]   0.4270027456   3.875048496   6.240900834
#> [1438,]  -0.7071502224   0.086998835   1.338088978
#> [1439,]  -0.5048688422  -1.213539178  -2.255567126
#> [1440,]  -1.2871293241  -1.948954729  -3.347771087
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#> [1441,]   1.1002878698   2.244959866   2.569852348
#> [1442,]   0.4399699050   1.037809181   0.854243028
#> [1443,]   0.6148223003   0.028083502  -0.243188203
#> [1444,]   0.4107970183   0.010780024  -1.042049801
#> [1445,]   0.4791462119   2.198460869   3.041646584
#> [1446,]  -0.0021017941  -1.400518223  -1.759358281
#> [1447,]   0.7620480990  -0.691835114  -2.024620452
#> [1448,]  -0.1707898447   0.156339175  -0.475265833
#> [1449,]  -0.4656052280  -2.121530734  -1.968172480
#> [1450,]   0.4359139379  -0.335531998  -2.559715089
#> [1451,]  -0.3903053148  -0.209959284  -1.177658259
#> [1452,]  -1.5344058049  -1.872739940  -2.800755423
#> [1453,]  -0.5063634659  -0.897049405  -1.469489040
#> [1454,]  -1.1222179818  -0.947790158  -0.066821632
#> [1455,]  -0.4277215236  -0.367123740  -1.925695990
#> [1456,]  -0.7760468310  -2.344758060  -2.442494627
#> [1457,]   0.4928543429   0.031971193   0.001199221
#> [1458,]  -0.4637346286  -1.008289647  -1.774571933
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#> [1460,]  -0.1862773421   0.261685836   0.324671103
#> [1461,]  -0.3161887023  -0.764782201   0.001317752
#> [1462,]   1.1532477816   1.429551725   2.450626080
#> [1463,]  -2.1321326195  -2.514948488  -3.529779601
#> [1464,]  -0.8885424624  -2.688295290  -2.766745033
#> [1465,]  -1.2695410529  -1.629383921  -1.699240991
#> [1466,]   0.7157057514   2.478032392   3.298214242
#> [1467,]   1.3412768279   0.372012995  -0.938321231
#> [1468,]   1.5094371680   1.612167582   1.369756049
#> [1469,]   0.3850935822  -0.310244016  -1.570919372
#> [1470,]   1.6184236547   2.741403191   3.475741424
#> [1471,]   0.3081946659   1.767972305   2.586602524
#> [1472,]   0.3290598187  -0.084788878   0.685908542
#> [1473,]   1.6852557460   3.591897878   3.128628766
#> [1474,]  -2.8393145806  -5.032137861  -3.692350594
#> [1475,]  -0.4552380836  -0.801386829   0.176757144
#> [1476,]  -0.1114372590  -0.463355667  -2.335391424
#> [1477,]   0.3231646354  -0.401304268   0.718793267
#> [1478,]   0.1858186896   0.668906674  -0.849979528
#> [1479,]   0.8918114059   1.246564765   0.500656170
#> [1480,]   0.5996181750   1.889055351   3.074879458
#> [1481,]  -0.4717370813  -1.790907279  -1.148906764
#> [1482,]  -0.9724700373  -2.216707066  -3.332887523
#> [1483,]  -1.1100607744  -1.086278014  -0.298673903
#> [1484,]   1.9806073734   2.238288563   1.483875849
#> [1485,]   0.6807699753   1.316171592   1.229558361
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#> [1486,]   0.0795050362 -0.462692156 -1.658657028
#> [1487,]   0.5585182676  0.006586312  1.264624787
#> [1488,] -0.7240292856 -0.173603570 -0.066077266
#> [1489,] -0.3071086804  1.231712996  2.617479963
#> [1490,] -3.2059381039 -3.639638677 -4.151773878
#> [1491,]   1.8491117436  2.340789775  3.500328959
#> [1492,]   0.6211898964  1.234578962  0.266752847
#> [1493,] -2.3200936305 -2.180747176 -2.618795595
#> [1494,] -0.6249104156 -1.475742541 -2.037925736
#> [1495,] -0.4209609390  0.353711231  1.022272237
#> [1496,]   2.2096422081  2.938215142  2.442906366
#> [1497,]   1.2502791871  1.241656884 -0.090123380
#> [1498,]   1.4183995094  0.896824861  0.590475923
#> [1499,]   1.9819835288  2.916916316  3.146698101
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#> [1501,] -0.4353197415  0.005223954 -0.267234514
#> [1502,]   0.3426646961  1.487753489  3.137990373
#> [1503,] -0.5298191052 -0.261889382  1.618075859
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#> [1509,] -0.8736885768  0.035315312 -0.531556906
#> [1510,]   0.0513113124 -0.650857578  0.547259231
#> [1511,]   1.7050197743  2.242133933  2.162811626
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#> [1513,]   1.2143204727  2.107673113  3.444417167
#> [1514,] -0.7255572866 -0.930066581 -2.266804004
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#> [1516,]   0.0987462114 -1.052110294 -0.713936303
#> [1517,]   0.3078444427  0.223123734  1.524116423
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#> [1519,]   0.2705954936 -0.668686949 -1.258791316
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#> [1522,]   0.7220523692  0.921583937  2.320266032
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#> [1528,] -2.0309495960 -1.269558220 -0.632810051
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#> [1530,]   0.1115058719  0.255046340 -0.818655246
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#> [1531,]  -0.4829642831  -1.163655553  -0.585762348
#> [1532,]  -1.0727409807  -1.042167748  -0.453331097
#> [1533,]   0.3617616469   0.110462693   1.220235772
#> [1534,]  -0.0663444648  -2.239770215  -1.100322064
#> [1535,]  -0.2653934878  -0.833378545  -0.874759076
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#> [1537,]  -0.8255648469  -1.543363110  -1.488604692
#> [1538,]   1.2382381487   2.462803977   4.064928928
#> [1539,]  -0.2634407394  -0.296488872   0.101679968
#> [1540,]  -0.5762507095   0.332535501   1.486446178
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#> [1542,]  -1.0307741127  -0.255152172  -0.059088785
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#> [1575,]   0.6293171093   0.082216746   0.349362843
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#> [1576,]  0.8694105153  1.644768750  1.960094097
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#> [1642,]  -0.8780619106   0.892833180   0.889904141
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#> [1647,]   0.5691729180   0.885602535   1.539933244
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#> [1649,]   0.8997991180   1.865581374   3.599294797
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#> [1697,]  -0.7812107052 -1.846230895 -2.312291204
#> [1698,]  -1.1567526792 -1.351998406 -2.280138615
#> [1699,]  -1.4565944274 -2.877173799 -2.575682246
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#> [1702,]  -2.2183861523 -3.939841210 -5.741300436
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#> [1704,]  -0.1065425739 -0.089329075  0.164453273
#> [1705,]   1.0055362619  2.238791888  3.082010676
#> [1706,]   1.3793011431  1.054685873  0.846373223
#> [1707,]  -0.3517108174 -1.390074705 -1.870919699
#> [1708,]   0.0130804893 -1.751056697 -1.398120025
#> [1709,]   0.0472645855  0.606800201  1.816973234
#> [1710,]  -0.9055639417 -1.537884010 -2.915240456
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#> [1712,] -1.4773321824 -3.007654624 -4.100595496
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#> [1726,]  2.0563189755  2.521882182  3.225403502
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#> [1865,]  -1.1869352720  -3.534541318  -6.042650193
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#> [1871,]   0.8390949034   0.573110308   1.064396389
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#> [1875,]   1.8457148089   1.701146410   0.755884695
#> [1876,]   0.0670161332   0.323684528  -0.323927063
#> [1877,]   2.7006715761   3.724918810   2.875885363
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#> [1879,]  -1.9017728628  -2.467963281  -2.683898387
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#> [1888,]   1.2639862037   1.209719168   0.782417781
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#> [1908,]   2.1167317887   1.933031610   1.596508183
#> [1909,]  -0.4293192201  -0.522043972  -3.353038895
#> [1910,]   1.4592866875   2.524227170   1.866567680
#> [1911,]  -0.7704144309  -1.341222878  -2.037027731
#> [1912,]  -0.7077634121  -0.169288137  -0.809654681
#> [1913,]   0.3708442224   0.460836648   0.574472312
#> [1914,]  -1.1971859483  -0.514915915   0.084362509
#> [1915,]  -0.1881103838   1.517997473   2.093172339
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#> [1917,]  -1.1271019779  -1.756956508  -1.840751870
#> [1918,]   1.9509859704   2.422924586   2.172126866
#> [1919,]  -0.6253036771  -0.817081085  -1.923125208
#> [1920,]   1.6946841177   2.454879692   3.033769365
#> [1921,]   0.0005261961  -0.729553640  -0.058718380
#> [1922,]   2.0095187997   2.609928788   3.105744217
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#> [1930,]  -1.4681541395  -2.273886595  -1.227362852
#> [1931,]  -1.3776940224  -1.726924491  -1.702140346
#> [1932,]   0.1580465423   0.623075915  -1.806975340
#> [1933,]  -1.1421408293  -1.867961549  -3.026039644
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#> [1941,]  -0.8799810973  -1.881505854  -0.919308271
#> [1942,]  -0.7817909486  -0.090623736  -0.386402117
#> [1943,]   0.3279460759   0.263358093   1.724529418
#> [1944,]  -0.4273120068   1.058851626   1.403624730
#> [1945,]  -1.7700312075  -1.981668562  -2.566460864
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#> [1947,]   1.0517768787   2.034641390   4.083213967
#> [1948,]  -2.1988512007  -0.963917017   1.138479038
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#> [1958,]  -2.4735450302  -3.378823003  -3.917717190
#> [1959,]   2.0012113499   2.599272923   2.792684100
#> [1960,]  -1.4713105606  -1.604501291  -2.281149020
#> [1961,]   0.5959266364   0.106950747   0.711511573
#> [1962,]  -2.3551765208  -3.369395241  -3.083997579
#> [1963,]   0.4835983454   1.864377471   2.103130025
#> [1964,]  -0.5804446670  -0.594878792  -1.520692611
#> [1965,]   2.0731216034   1.172163539   0.615938996
#> [1966,]  -0.0748730917  -0.198699829  -0.092937311
#> [1967,]   0.0030181892   1.690494600   2.291511033
#> [1968,]   0.3941931382   0.391623677  -0.237581897
#> [1969,]  -0.3786953361  -0.827884626   0.640306665
#> [1970,]   0.0363047436   0.295481468  -1.243342864
#> [1971,]  -2.5658824817  -3.195870961  -3.563978327
#> [1972,]   1.5124280265   0.456545466   0.692701975
#> [1973,]   0.5875640121   0.913219950   1.011374665
#> [1974,]  -1.9227474579  -3.101965346  -4.025448430
#> [1975,]   0.3906448755   0.020140479  -0.346645936
#> [1976,]  -0.7267618249  -0.918146585  -0.765408931
#> [1977,]  -1.1267728347  -0.773882366  -1.003888122
#> [1978,]   1.3108190044   1.672563844   3.958969876
#> [1979,]   0.1293144636   0.343913817   1.869083714
#> [1980,]   0.0248654486   0.446291366  -0.127150940
```

```
#> [1981,] -1.1202400186 -1.296962573 -1.154477640
#> [1982,]  1.6762555618  2.185465189  3.327591110
#> [1983,]  0.2098630746  0.844255934  0.289856784
#> [1984,]  0.4801420556  0.893044285  0.277253270
#> [1985,]  0.7254871916 -0.563561117 -0.915652725
#> [1986,]  1.7654946174  2.312313074  2.753821375
#> [1987,] -0.8933879930  0.140976252  0.020467567
#> [1988,] -2.8159676402 -3.811131053 -4.221463213
#> [1989,]  0.4818093968  0.826428387  0.788616619
#> [1990,] -1.4569069646 -3.633436242 -3.489365233
#> [1991,]  0.4137585355 -0.182568589  0.602477942
#> [1992,] -0.3291566019 -1.058891630 -1.819936253
#> [1993,]  0.8981001349  2.464222453  3.028634400
#> [1994,]  0.8763355912  2.076480594  1.220959819
#> [1995,]  1.2061845056  0.962020290  1.160663037
#> [1996,] -1.3531900368 -1.455068046 -0.983696032
#> [1997,] -1.2004023291 -3.255841102 -4.277137962
#> [1998,]  0.2371050212  0.580201283  1.357305784
#> [1999,] -0.5525050394 -0.065386261  0.359972403
#> [2000,]  0.3408727449  1.037329727  0.812564449
#>
#> [[1]][[14]]$value[[1]]$decomposition
#> [1] "svd"
#>
#>
#>
#> [[1]][[14]]$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/