There were 413 divergent transitions after warmup. See

http://mc-stan.org/misc/warnings.html#divergent-transitions-after-warmup

to find out why this is a problem and how to eliminate them.Examine the pairs() plot to diagnose sampling problems

Computing posterior predictives...

Computing posterior predictives...

blavaan NOTE: Posterior predictives with missing data are currently very slow.

Consider setting test="none".

There were 857 divergent transitions after warmup. See

http://mc-stan.org/misc/warnings.html#divergent-transitions-after-warmup

to find out why this is a problem and how to eliminate them.Examine the pairs() plot to diagnose sampling problems

Bulk Effective Samples Size (ESS) is too low, indicating posterior means and medians may be unreliable.

Running the chains for more iterations may help. See

http://mc-stan.org/misc/warnings.html#bulk-essTail Effective Samples Size (ESS) is too low, indicating posterior variances and tail quantiles may be unreliable.

Running the chains for more iterations may help. See

http://mc-stan.org/misc/warnings.html#tail-essComputing posterior predictives...

blavaan NOTE: Posterior predictives with missing data are currently very slow.

Consider setting test="none".

Computing posterior predictives...

blavaan NOTE: Posterior predictives with missing data are currently very slow.

Consider setting test="none".

There were 558 divergent transitions after warmup. See

http://mc-stan.org/misc/warnings.html#divergent-transitions-after-warmup

to find out why this is a problem and how to eliminate them.Examine the pairs() plot to diagnose sampling problems

Tail Effective Samples Size (ESS) is too low, indicating posterior variances and tail quantiles may be unreliable.

Running the chains for more iterations may help. See

http://mc-stan.org/misc/warnings.html#tail-essComputing posterior predictives...

blavaan NOTE: Posterior predictives with missing data are currently very slow.

Consider setting test="none".

Computing posterior predictives...

3 (5.7%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

4 (7.5%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

WAIC estimates:

object1: 457.369

object2: 457.167

WAIC difference & SE:

-0.101 1.077

LOO estimates:

object1: 457.423

object2: 457.283

LOO difference & SE:

-0.070 1.085

Laplace approximation to the log-Bayes factor

(experimental; positive values favor object1): 2.153

C:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\1CF02D78.tmpC:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\253E8A46.tmpC:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\9963D644.tmp

5 (9.4%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

WAIC estimates:

object1: 447.901

object2: 446.598

WAIC difference & SE:

-0.652 1.366

LOO estimates:

object1: 447.933

object2: 446.673

LOO difference & SE:

-0.630 1.375

Laplace approximation to the log-Bayes factor

(experimental; positive values favor object1): 0.486

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2 (3.8%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

WAIC estimates:

object1: 445.086

object2: 445.611

WAIC difference & SE:

-0.262 0.458

LOO estimates:

object1: 445.121

object2: 445.699

LOO difference & SE:

-0.289 0.464

Laplace approximation to the log-Bayes factor

(experimental; positive values favor object1): 0.145

C:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\40B7481C.tmpC:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\E122108A.tmpC:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\E1B7E928.tmp

4 (7.5%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

3 (5.7%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

5 (9.4%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

2 (3.8%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

C:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\B30CB176.tmpC:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\2F10F4F4.tmpC:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\ABB2CB22.tmp

4 (7.5%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

3 (5.7%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

5 (9.4%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

2 (3.8%) p\_waic estimates greater than 0.4. We recommend trying loo instead.

C:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\1791B780.tmpC:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\913D898E.tmpC:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\D8383CCC.tmp

npar logl ppp bic dic p\_dic waic p\_waic se\_waic looic p\_loo se\_loo

fm.WM 9 -222.2580 0.53850 480.0772 454.9338 5.208892 457.1666 7.017875 19.79877 457.2847 7.076940 19.83600

fm.WM.null 6 -222.7357 0.41245 469.1789 457.0910 5.809794 457.3686 5.787242 19.75288 457.4232 5.814548 19.76679

fm.Inhibition 9 -217.1480 0.30555 469.8572 443.7803 4.742132 446.5979 7.183079 18.24353 446.6723 7.220272 18.25892

fm.Inhibition.null 6 -218.4747 0.10875 460.6569 448.4277 5.739118 447.9014 5.002335 19.01205 447.9335 5.018367 19.01846

fm.Shifting 9 -215.5313 0.40535 466.6238 447.2398 8.088597 445.6107 6.141584 16.79703 445.6986 6.185575 16.81780

fm.Shifting.null 6 -217.0609 0.34395 457.8292 445.6973 5.787764 445.0864 4.961104 16.58832 445.1212 4.978483 16.59529

margloglik

fm.WM -246.7163

fm.WM.null -244.5636

fm.Inhibition -240.7826

fm.Inhibition.null -240.2967

fm.Shifting -238.9729

fm.Shifting.null -238.8281

C:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\93B2D8BA.tmpC:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\E5BD50D8.tmpC:\Users\voelterc\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\CA6164A6.tmp

blavaan (0.3-10) results of 5000 samples after 2500 adapt/burnin iterations

Number of observations 53

Number of missing patterns 3

Statistic MargLogLik PPP

Value -238.973 0.405

Latent Variables:

Estimate Post.SD pi.lower pi.upper Rhat neff Prior

F1 =~

CD\_all 1.000 NA NA

Shelf 0.392 6.507 -14.828 14.754 1.001 2437.108 normal(0,10)

Tray 2.360 6.808 -13.887 16.353 1.001 5204.795 normal(0,10)

Intercepts:

Estimate Post.SD pi.lower pi.upper Rhat neff Prior

.CD\_all 0.000 0.138 -0.272 0.273 1.002 5690.898 normal(0,32)

.Shelf -0.000 0.144 -0.275 0.284 1.001 4009.892 normal(0,32)

.Tray -0.004 0.142 -0.284 0.273 1.000 4007.125 normal(0,32)

F1 0.000 NA NA

Variances:

Estimate Post.SD pi.lower pi.upper Rhat neff Prior

.CD\_all 0.978 0.232 0.616 1.47 1.010 424.258 gamma(1,.5)[sd]

.Shelf 0.923 0.318 0.048 1.507 1.001 1432.032 gamma(1,.5)[sd]

.Tray 0.735 0.404 0.003 1.425 1.009 927.496 gamma(1,.5)[sd]

F1 0.044 0.116 0 0.311 1.040 115.381 gamma(1,.5)[sd]

There were 699 divergent transitions after warmup. See

http://mc-stan.org/misc/warnings.html#divergent-transitions-after-warmup

to find out why this is a problem and how to eliminate them.Examine the pairs() plot to diagnose sampling problems

Bulk Effective Samples Size (ESS) is too low, indicating posterior means and medians may be unreliable.

Running the chains for more iterations may help. See

http://mc-stan.org/misc/warnings.html#bulk-essTail Effective Samples Size (ESS) is too low, indicating posterior variances and tail quantiles may be unreliable.

Running the chains for more iterations may help. See

http://mc-stan.org/misc/warnings.html#tail-essComputing posterior predictives...

Computing posterior predictives...

blavaan NOTE: Posterior predictives with missing data are currently very slow.

Consider setting test="none".

There were 997 divergent transitions after warmup. See

http://mc-stan.org/misc/warnings.html#divergent-transitions-after-warmup

to find out why this is a problem and how to eliminate them.Examine the pairs() plot to diagnose sampling problems

Computing posterior predictives...

blavaan NOTE: Posterior predictives with missing data are currently very slow.

Consider setting test="none".

Computing posterior predictives...

blavaan NOTE: Posterior predictives with missing data are currently very slow.

Consider setting test="none".

There were 554 divergent transitions after warmup. See

http://mc-stan.org/misc/warnings.html#divergent-transitions-after-warmup

to find out why this is a problem and how to eliminate them.Examine the pairs() plot to diagnose sampling problems

Bulk Effective Samples Size (ESS) is too low, indicating posterior means and medians may be unreliable.

Running the chains for more iterations may help. See

http://mc-stan.org/misc/warnings.html#bulk-essTail Effective Samples Size (ESS) is too low, indicating posterior variances and tail quantiles may be unreliable.

Running the chains for more iterations may help. See

http://mc-stan.org/misc/warnings.html#tail-essComputing posterior predictives...

blavaan NOTE: Posterior predictives with missing data are currently very slow.

Consider setting test="none".

Computing posterior predictives...