

## Correlation Matrix

Correlation Matrix

		boredom_0	boredom_1	boredom_2
boredom_0	Pearson's r	—		
	p-value	—		
boredom_1	Pearson's r	0.65 <sup>***</sup>	—	
	p-value	< .001	—	
boredom_2	Pearson's r	0.57 <sup>***</sup>	0.68 <sup>***</sup>	—
	p-value	< .001	< .001	—
KC27ph_T	Pearson's r	-0.23 <sup>***</sup>	-0.18 <sup>***</sup>	-0.24 <sup>***</sup>
	p-value	< .001	< .001	< .001
KC27pw_T	Pearson's r	-0.27 <sup>***</sup>	-0.27 <sup>***</sup>	-0.29 <sup>***</sup>
	p-value	< .001	< .001	< .001
KC27pa_T	Pearson's r	-0.18 <sup>***</sup>	-0.18 <sup>***</sup>	-0.21 <sup>***</sup>
	p-value	< .001	< .001	< .001
KC27pe_T	Pearson's r	-0.12 <sup>***</sup>	-0.07 <sup>*</sup>	-0.08 <sup>**</sup>
	p-value	< .001	0.016	0.005
KC27sc_T	Pearson's r	-0.39 <sup>***</sup>	-0.39 <sup>***</sup>	-0.46 <sup>***</sup>
	p-value	< .001	< .001	< .001

All correlations negative

Small effect sizes

Note. \* p < .05, \*\* p < .01, \*\*\* p < .001

## Latent Strong Boredom Correlations

lavaan 0.6-7 ended normally after 221 iterations

Estimator	ML
Optimization method	NLMINB
Number of free parameters	104
Number of equality constraints	24
Number of observations	1227
Number of missing patterns	40

Model Test User Model:

	Standard	Robust
Test Statistic	2676.202	2247.156
Degrees of freedom	219	219
P-value (Chi-square)	0.000	0.000
Scaling correction factor		1.191
Yuan-Bentler correction (Mplus variant)		

Parameter Estimates:

Standard errors	Sandwich
Information bread	Observed
Observed information based on	Hessian

Latent Variables:

	Estimate	Std.Err	z-value	P(> z )
boredom_0 =~				
bos1_0 (lmb1)	0.315	0.056	5.639	0.000
bos2_0 (lmb2)	0.342	0.060	5.689	0.000
bos3_0 (lmb3)	0.318	0.056	5.675	0.000
bos4_0 (lmb4)	0.386	0.069	5.604	0.000
bos5_0 (lmb5)	0.359	0.064	5.577	0.000
bos6_0 (lmb6)	0.348	0.063	5.537	0.000
boredom_1 =~				
bos1_1 (lmb1)	0.315	0.056	5.639	0.000
bos2_1 (lmb2)	0.342	0.060	5.689	0.000
bos3_1 (lmb3)	0.318	0.056	5.675	0.000
bos4_1 (lmb4)	0.386	0.069	5.604	0.000
bos5_1 (lmb5)	0.359	0.064	5.577	0.000
bos6_1 (lmb6)	0.348	0.063	5.537	0.000
boredom_2 =~				
bos1_2 (lmb1)	0.315	0.056	5.639	0.000
bos2_2 (lmb2)	0.342	0.060	5.689	0.000
bos3_2 (lmb3)	0.318	0.056	5.675	0.000
bos4_2 (lmb4)	0.386	0.069	5.604	0.000
bos5_2 (lmb5)	0.359	0.064	5.577	0.000
bos6_2 (lmb6)	0.348	0.063	5.537	0.000
i =~				
bordm_0	1.000			
bordm_1	1.000			
bordm_2	1.000			
s =~				
bordm_0	0.000			
bordm_1	1.000			

bordm\_2 2.000

Covariances:

	Estimate	Std.Err	z-value	P(> z )
.bos1_0 ~~				
.bos1_1	0.156	0.028	5.530	0.000
.bos1_2	0.098	0.026	3.840	0.000
.bos1_1 ~~				
.bos1_2	0.149	0.027	5.513	0.000
.bos2_0 ~~				
.bos2_1	0.077	0.027	2.828	0.005
.bos2_2	0.083	0.026	3.232	0.001
.bos2_1 ~~				
.bos2_2	0.117	0.024	4.899	0.000
.bos3_0 ~~				
.bos3_1	0.096	0.024	4.081	0.000
.bos3_2	0.087	0.024	3.693	0.000
.bos3_1 ~~				
.bos3_2	0.114	0.024	4.848	0.000
.bos4_0 ~~				
.bos4_1	0.169	0.032	5.205	0.000
.bos4_2	0.158	0.029	5.364	0.000
.bos4_1 ~~				
.bos4_2	0.205	0.032	6.374	0.000
.bos5_0 ~~				
.bos5_1	0.419	0.045	9.362	0.000
.bos5_2	0.307	0.039	7.826	0.000
.bos5_1 ~~				
.bos5_2	0.434	0.044	9.917	0.000
.bos6_0 ~~				
.bos6_1	0.247	0.037	6.752	0.000
.bos6_2	0.235	0.033	7.038	0.000
.bos6_1 ~~				
.bos6_2	0.267	0.038	6.966	0.000
.boredom_0 ~~				
KC27ph_T	-2.227	1.100	-2.024	0.043
KC27pw_T	-2.210	1.551	-1.425	0.154
KC27pa_T	1.331	1.091	1.219	0.223
KC27pe_T	1.129	1.037	1.088	0.276
KC27sc_T	-9.553	1.915	-4.989	0.000
.boredom_1 ~~				
KC27ph_T	0.451	1.152	0.391	0.696
KC27pw_T	-3.130	1.687	-1.856	0.064
KC27pa_T	0.025	1.129	0.022	0.982
KC27pe_T	2.563	1.191	2.152	0.031
KC27sc_T	-11.311	2.468	-4.583	0.000
.boredom_2 ~~				
KC27ph_T	-1.845	1.174	-1.571	0.116
KC27pw_T	-2.238	1.509	-1.483	0.138
KC27pa_T	0.292	1.132	0.258	0.796
KC27pe_T	3.893	1.202	3.240	0.001
KC27sc_T	-13.480	2.655	-5.077	0.000
i ~~				
s	-0.575	0.385	-1.494	0.135

positive?

## Intercepts:

		Estimate	Std.Err	z-value	P(> z )
.bos1_0	(i1)	2.441	0.017	141.248	0.000
.bos2_0	(i2)	2.074	0.016	126.610	0.000
.bos3_0	(i3)	1.891	0.016	118.678	0.000
.bos4_0	(i4)	2.838	0.019	152.235	0.000
.bos5_0	(i5)	2.786	0.022	127.775	0.000
.bos6_0	(i6)	2.293	0.018	124.243	0.000
.bos1_1	(i1)	2.441	0.017	141.248	0.000
.bos2_1	(i2)	2.074	0.016	126.610	0.000
.bos3_1	(i3)	1.891	0.016	118.678	0.000
.bos4_1	(i4)	2.838	0.019	152.235	0.000
.bos5_1	(i5)	2.786	0.022	127.775	0.000
.bos6_1	(i6)	2.293	0.018	124.243	0.000
.bos1_2	(i1)	2.441	0.017	141.248	0.000
.bos2_2	(i2)	2.074	0.016	126.610	0.000
.bos3_2	(i3)	1.891	0.016	118.678	0.000
.bos4_2	(i4)	2.838	0.019	152.235	0.000
.bos5_2	(i5)	2.786	0.022	127.775	0.000
.bos6_2	(i6)	2.293	0.018	124.243	0.000
.boredom_0		0.000			
.boredom_1		0.000			
.boredom_2		0.000			
i		0.002	0.054	0.040	0.968
s		0.126	0.047	2.693	0.007
KC27ph_T		48.531	0.335	144.848	0.000
KC27pw_T		48.648	0.364	133.484	0.000
KC27pa_T		53.645	0.324	165.631	0.000
KC27pe_T		52.286	0.332	157.308	0.000
KC27sc_T		49.723	0.302	164.642	0.000

## Variances:

		Estimate	Std.Err	z-value	P(> z )
.bos1_0		0.717	0.037	19.136	0.000
.bos2_0		0.655	0.038	17.179	0.000
.bos3_0		0.542	0.032	16.840	0.000
.bos4_0		0.723	0.042	17.179	0.000
.bos5_0		1.034	0.057	17.990	0.000
.bos6_0		0.783	0.046	17.009	0.000
.bos1_1		0.713	0.038	18.733	0.000
.bos2_1		0.577	0.038	15.336	0.000
.bos3_1		0.567	0.038	14.910	0.000
.bos4_1		0.787	0.044	18.056	0.000
.bos5_1		1.018	0.055	18.358	0.000
.bos6_1		0.804	0.049	16.491	0.000
.bos1_2		0.691	0.036	19.271	0.000
.bos2_2		0.539	0.035	15.506	0.000
.bos3_2		0.607	0.040	15.269	0.000
.bos4_2		0.727	0.041	17.913	0.000
.bos5_2		1.022	0.052	19.603	0.000
.bos6_2		0.714	0.041	17.446	0.000
.boredom_0		1.000			
.boredom_1		2.328	0.915	2.544	0.011

.boredom_2	0.878	0.384	2.287	0.022
i	5.249	2.150	2.441	0.015
s	0.889	0.463	1.920	0.055
KC27ph_T	138.415	5.610	24.674	0.000
KC27pw_T	162.549	6.628	24.526	0.000
KC27pa_T	128.655	5.807	22.157	0.000
KC27pe_T	135.527	5.742	23.604	0.000
KC27sc_T	111.828	5.050	22.143	0.000

## Latent Boredom Growth Correlations

lavaan 0.6-7 ended normally after 170 iterations

Estimator	ML
Optimization method	NLMINB
Number of free parameters	99
Number of equality constraints	24
Number of observations	1227
Number of missing patterns	40

Model Test User Model:

	Standard	Robust
Test Statistic	2685.285	2256.938
Degrees of freedom	224	224
P-value (Chi-square)	0.000	0.000
Scaling correction factor		1.190
Yuan-Bentler correction (Mplus variant)		

Parameter Estimates:

Standard errors	Sandwich
Information bread	Observed
Observed information based on	Hessian

Latent Variables:

	Estimate	Std.Err	z-value	P(> z )
boredom_0 =~				
bos1_0 (lmb1)	0.303	0.056	5.436	0.000
bos2_0 (lmb2)	0.329	0.060	5.472	0.000
bos3_0 (lmb3)	0.306	0.056	5.469	0.000
bos4_0 (lmb4)	0.371	0.069	5.414	0.000
bos5_0 (lmb5)	0.345	0.064	5.364	0.000
bos6_0 (lmb6)	0.335	0.063	5.332	0.000
boredom_1 =~				
bos1_1 (lmb1)	0.303	0.056	5.436	0.000
bos2_1 (lmb2)	0.329	0.060	5.472	0.000
bos3_1 (lmb3)	0.306	0.056	5.469	0.000
bos4_1 (lmb4)	0.371	0.069	5.414	0.000
bos5_1 (lmb5)	0.345	0.064	5.364	0.000
bos6_1 (lmb6)	0.335	0.063	5.332	0.000
boredom_2 =~				
bos1_2 (lmb1)	0.303	0.056	5.436	0.000
bos2_2 (lmb2)	0.329	0.060	5.472	0.000
bos3_2 (lmb3)	0.306	0.056	5.469	0.000
bos4_2 (lmb4)	0.371	0.069	5.414	0.000
bos5_2 (lmb5)	0.345	0.064	5.364	0.000
bos6_2 (lmb6)	0.335	0.063	5.332	0.000
i =~				
bordm_0	1.000			
bordm_1	1.000			
bordm_2	1.000			
s =~				
bordm_0	0.000			
bordm_1	1.000			

bordm_2		2.000			
Covariances:					
		Estimate	Std.Err	z-value	P(> z )
.bos1_0 ~					
.bos1_1		0.156	0.028	5.528	0.000
.bos1_2		0.099	0.026	3.847	0.000
.bos1_1 ~					
.bos1_2		0.150	0.027	5.539	0.000
.bos2_0 ~					
.bos2_1		0.077	0.027	2.850	0.004
.bos2_2		0.083	0.026	3.221	0.001
.bos2_1 ~					
.bos2_2		0.117	0.024	4.901	0.000
.bos3_0 ~					
.bos3_1		0.097	0.024	4.093	0.000
.bos3_2		0.087	0.024	3.672	0.000
.bos3_1 ~					
.bos3_2		0.115	0.024	4.866	0.000
.bos4_0 ~					
.bos4_1		0.168	0.032	5.185	0.000
.bos4_2		0.158	0.029	5.382	0.000
.bos4_1 ~					
.bos4_2		0.204	0.032	6.329	0.000
.bos5_0 ~					
.bos5_1		0.419	0.045	9.358	0.000
.bos5_2		0.307	0.039	7.840	0.000
.bos5_1 ~					
.bos5_2		0.434	0.044	9.922	0.000
.bos6_0 ~					
.bos6_1		0.247	0.037	6.752	0.000
.bos6_2		0.235	0.033	7.032	0.000
.bos6_1 ~					
.bos6_2		0.267	0.038	6.963	0.000
i ~					
KC27ph_T		-1.750	1.142	-1.532	0.126
KC27pw_T		-2.517	1.582	-1.592	0.111
KC27pa_T		1.211	1.124	1.077	0.281
KC27pe_T		1.197	1.061	1.127	0.260
KC27sc_T		<b>-9.878</b>	2.114	-4.673	<b>0.000</b>
s ~					
KC27ph_T		0.121	0.636	0.190	0.849
KC27pw_T		0.022	0.772	0.029	0.977
KC27pa_T		-0.517	0.607	-0.852	0.394
KC27pe_T		<b>1.431</b>	0.639	2.241	<b>0.025</b>
KC27sc_T		<b>-2.051</b>	0.730	-2.811	<b>0.005</b>
i ~					
s		-0.659	0.432	-1.524	0.127
Intercepts:					
		Estimate	Std.Err	z-value	P(> z )
.bos1_0	(i1)	2.469	0.018	139.555	0.000
.bos2_0	(i2)	2.105	0.017	124.754	0.000
.bos3_0	(i3)	1.919	0.017	116.274	0.000

.bos4_0	(i4)	2.873	0.019	150.363	0.000
.bos5_0	(i5)	2.819	0.022	127.810	0.000
.bos6_0	(i6)	2.325	0.019	122.009	0.000
.bos1_1	(i1)	2.469	0.018	139.555	0.000
.bos2_1	(i2)	2.105	0.017	124.754	0.000
.bos3_1	(i3)	1.919	0.017	116.274	0.000
.bos4_1	(i4)	2.873	0.019	150.363	0.000
.bos5_1	(i5)	2.819	0.022	127.810	0.000
.bos6_1	(i6)	2.325	0.019	122.009	0.000
.bos1_2	(i1)	2.469	0.018	139.555	0.000
.bos2_2	(i2)	2.105	0.017	124.754	0.000
.bos3_2	(i3)	1.919	0.017	116.274	0.000
.bos4_2	(i4)	2.873	0.019	150.363	0.000
.bos5_2	(i5)	2.819	0.022	127.810	0.000
.bos6_2	(i6)	2.325	0.019	122.009	0.000
.boredom_0		0.000			
.boredom_1		0.000			
.boredom_2		0.000			
i		-0.091	0.057	-1.606	0.108
s		0.130	0.049	2.675	0.007
KC27ph_T		48.538	0.336	144.515	0.000
KC27pw_T		48.645	0.364	133.652	0.000
KC27pa_T		53.643	0.324	165.662	0.000
KC27pe_T		52.287	0.332	157.326	0.000
KC27sc_T		49.724	0.302	164.640	0.000

Variances:

	Estimate	Std.Err	z-value	P(> z )
.bos1_0	0.718	0.038	19.137	0.000
.bos2_0	0.654	0.038	17.187	0.000
.bos3_0	0.542	0.032	16.832	0.000
.bos4_0	0.723	0.042	17.200	0.000
.bos5_0	1.034	0.057	17.992	0.000
.bos6_0	0.783	0.046	17.004	0.000
.bos1_1	0.711	0.038	18.738	0.000
.bos2_1	0.577	0.038	15.322	0.000
.bos3_1	0.568	0.038	14.950	0.000
.bos4_1	0.788	0.044	17.978	0.000
.bos5_1	1.019	0.055	18.397	0.000
.bos6_1	0.805	0.049	16.504	0.000
.bos1_2	0.691	0.036	19.276	0.000
.bos2_2	0.539	0.035	15.537	0.000
.bos3_2	0.606	0.040	15.261	0.000
.bos4_2	0.728	0.041	17.910	0.000
.bos5_2	1.022	0.052	19.592	0.000
.bos6_2	0.714	0.041	17.443	0.000
.boredom_0	1.000			
.boredom_1	2.532	1.010	2.508	0.012
.boredom_2	0.875	0.402	2.174	0.030
i	5.728	2.426	2.361	0.018
s	0.999	0.507	1.970	0.049
KC27ph_T	138.416	5.610	24.674	0.000
KC27pw_T	162.542	6.627	24.527	0.000
KC27pa_T	128.654	5.806	22.157	0.000

KC27pe_T	135.527	5.742	23.604	0.000
KC27sc_T	111.833	5.050	22.143	0.000