

Basic Growth model using the two-intercept approach that estimates separate values for men and women but does not test those sex differences.

```
MIXED SexSat WITH yearC ActNegEmoC PartNegEmoC man woman gender
  /FIXED=man woman yearC*man yearC*woman | SSTYPE(3) noint
  /METHOD=REML
  /PRINT=SOLUTION TESTCOV
  /RANDOM=man woman yearC*man yearC*woman | SUBJECT(DYADID) COVTYPE(UN)
  /REPEATED=personid | SUBJECT(DYADID*Time) COVTYPE(CSH).
```

Mixed Model Analysis

Model Dimension^a

	Number of Levels	Covariance Structure	Number of Parameters	Subject Variables
Fixed Effects	1		1	
man	1		1	
woman	1		1	
yearC * man	1		1	
yearC * woman	1		1	
Random Effects	4	Unstructured	10	DYADID
man + woman + yearC * man + yearC * woman ^b	2	Heterogeneous Compound Symmetry	3	DYADID * Time
Repeated Effects	10			
personid				
Total			17	

Model Dimension^a

	Number of Subjects
Fixed Effects man woman yearC * man yearC * woman	
Random Effects man + woman + yearC * man + yearC * woman ^b	
Repeated Effects personid	871
Total	

a. Dependent Variable: SexSat.

b. As of version 11.5, the syntax rules for the RANDOM subcommand have changed. Your command syntax may yield results that differ from those produced by prior versions. If you are using version 11 syntax, please consult the current syntax reference guide for more information.

Information Criteria^a

-2 Restricted Log Likelihood	2497.952
Akaike's Information Criterion (AIC)	2523.952
Hurvich and Tsai's Criterion (AICC)	2524.164
Bozdogan's Criterion (CAIC)	2607.924
Schwarz's Bayesian Criterion (BIC)	2594.924

The information criteria are displayed in smaller-is-better form.

a. Dependent Variable: SexSat.

Fixed Effects

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
man	1	216.977	9124.087	.000
woman	1	216.959	9036.571	.000
yearC * man	1	216.481	7.719	.006
yearC * woman	1	217.046	13.750	.000

a. Dependent Variable: SexSat.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
man	3.369857	.035279	216.977	95.520	.000	3.300324	3.439391
woman	3.366184	.035411	216.959	95.061	.000	3.296391	3.435977
yearC * man	-.019796	.007125	216.481	-2.778	.006	-.033839	-.005752
yearC * woman	-.026306	.007094	217.046	-3.708	.000	-.040289	-.012324

a. Dependent Variable: SexSat.

Covariance Parameters

Estimates of Covariance Parameters^a

Parameter	Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Repeated Measures	.150371	.010199	14.744	.000	.131653	.171750
Var: [personid=1]	.168082	.011406	14.737	.000	.147151	.191992
Var: [personid=2]	.532217	.034382	15.479	.000	.461498	.596214
CSH rho	.233623	.026174	8.926	.000	.187565	.290991
man + woman + yearC *	.142960	.021690	6.591	.000	.100448	.185471
man + yearC * woman	.231230	.026402	8.758	.000	.184865	.289225
[subject = DYADID]	.007030	.003757	1.871	.061	-.000333	.014393
UN (3,1)	.002824	.003743	.755	.451	-.004512	.010161
UN (3,2)	.005429	.001130	4.805	.000	.003610	.008163
UN (3,3)	8.875481E-5	.003703	.024	.981	-.007169	.007347
UN (4,1)	-.003834	.003726	-1.029	.304	-.011136	.003469
UN (4,2)	.003970	.000948	4.189	.000	.002112	.005827
UN (4,3)	.004687	.001136	4.125	.000	.002914	.007537
UN (4,4)						

a. Dependent Variable: SexSat.

The two runs below are run using ML so they can be used for a deviance test to determine whether we can drop the 4 intercept-slope covariances. The deviance for the more complex model is 2471.11 with 17 parameters and the deviance for the simpler model is 2479.22 with 13 parameters. So the chi-square with df = 4 is 8.11, p = .088 so we will drop those four covariances from the model by

creating two random statements as is done in the next model.

```

MIXED SexSat WITH yearC ActNegEmoC PartNegEmoC man woman gender
  /FIXED=man woman yearC*man yearC*woman | SSTYPE(3) noint
  /METHOD=ML
  /PRINT=SOLUTION TESTCOV
  /RANDOM=man woman yearC*man yearC*woman | SUBJECT(DYADID) COVTYPE(UN)
  /REPEATED=personid | SUBJECT(DYADID*Time) COVTYPE(CSH).

```

Mixed Model Analysis

Model Dimension^a

	Number of Levels	Covariance Structure	Number of Parameters	Subject Variables
Fixed Effects	1		1	
man	1		1	
woman	1		1	
yearC * man	1		1	
yearC * woman	1		1	
Random Effects	4	Unstructured	10	DYADID
man + woman + yearC *				
man + yearC * woman ^b				
Repeated Effects	2	Heterogeneous Compound Symmetry	3	DYADID * Time
personid				
Total	10		17	

Model Dimension^a

	Number of Subjects
Fixed Effects	man woman yearC * man yearC * woman
Random Effects	man + woman + yearC * man + yearC * woman ^b
Repeated Effects	personid
Total	871

a. Dependent Variable: SexSat.

b. As of version 11.5, the syntax rules for the RANDOM subcommand have changed. Your command syntax may yield results that differ from those produced by prior versions. If you are using version 11 syntax, please consult the current syntax reference guide for more information.

Information Criteria^a

-2 Log Likelihood	2471.107
Akaike's Information Criterion (AIC)	2505.107
Hurvich and Tsai's Criterion (AICC)	2505.462
Bozdogan's Criterion (CAIC)	2614.955
Schwarz's Bayesian Criterion (BIC)	2597.955

The information criteria are displayed in smaller-is-better form.

a. Dependent Variable: SexSat.

Fixed Effects

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
man	1	217.977	9166.165	.000
woman	1	217.959	9078.226	.000
yearC * man	1	217.479	7.755	.006
yearC * woman	1	218.047	13.814	.000

a. Dependent Variable: SexSat.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
man	3.369856	.035198	217.977	95.740	.000	3.300484	3.439228
woman	3.366183	.035329	217.959	95.280	.000	3.296552	3.435814
yearC * man	-.019796	.007109	217.479	-2.785	.006	-.033807	-.005785
yearC * woman	-.026306	.007078	218.047	-3.717	.000	-.040256	-.012356

a. Dependent Variable: SexSat.

Covariance Parameters

Estimates of Covariance Parameters^a

Parameter	Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Repeated Measures	.150370	.010199	14.744	.000	.131652	.171750
Var: [personid=1]	.168083	.011406	14.737	.000	.147151	.191992
Var: [personid=2]	.532217	.034382	15.479	.000	.461499	.596214
CSH rho	.232377	.025996	8.939	.000	.186626	.289345
man + woman + yearC *	.142206	.021542	6.601	.000	.099984	.184428
man + yearC * woman	.229976	.026223	8.770	.000	.183918	.287567
[subject = DYADID]	.006997	.003731	1.876	.061	-.000315	.014310
UN (3,1)	.002811	.003717	.756	.450	-.004475	.010097
UN (3,2)	.005378	.001123	4.790	.000	.003572	.008097
UN (3,3)	8.827142E-5	.003678	.024	.981	-.007120	.007296
UN (4,1)	-.003816	.003700	-1.031	.302	-.011069	.003437
UN (4,2)	.003937	.000942	4.180	.000	.002091	.005783
UN (4,3)	.004636	.001129	4.105	.000	.002876	.007474

a. Dependent Variable: SexSat.

The model with simplified random effects is below - estimated with ML

```
MIXED SexSat WITH yearC ActNegEmoC PartNegEmoC man woman gender
/FIXED=man yearC*man yearC*woman | SSTYPE(3) noint
/METHOD=ML
/PRINT=SOLUTION TESTCOV
/RANDOM=man woman | SUBJECT(DYADID) COVTYPE(CSH)
/RANDOM= yearC*man yearC*woman | SUBJECT(DYADID) COVTYPE(CSH)
/REPEATED=personid | SUBJECT(DYADID*Time) COVTYPE(CSH).
```

Mixed Model Analysis

Model Dimension^a

	Fixed Effects	Number of Levels	Covariance Structure	Number of Parameters	Subject Variables
Fixed Effects	man	1		1	
	woman	1		1	
	yearC * man	1		1	
	yearC * woman	1		1	
Random Effects	man + woman	2	Heterogeneous Compound Symmetry	3	DYADID
	yearC * man + yearC * woman	2	Heterogeneous Compound Symmetry	3	DYADID
Repeated Effects	personid	2	Heterogeneous Compound Symmetry	3	DYADID * Time
		10		13	
Total					

Model Dimension^a

	Number of Subjects
Fixed Effects man woman yearC * man yearC * woman	
Random Effects man + woman	
Repeated Effects yearC * man + yearC * woman personid	871
Total	

a. Dependent Variable: SexSat.

Information Criteria^a

-2 Log Likelihood	2479.216
Akaike's Information Criterion (AIC)	2505.216
Hurvich and Tsai's Criterion (AICC)	2505.427
Bozdogan's Criterion (CAIC)	2589.217
Schwarz's Bayesian Criterion (BIC)	2576.217

The information criteria are displayed in smaller-is-better form.

a. Dependent Variable: SexSat.

Fixed Effects

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
man	1	217.991	9170.762	.000
woman	1	217.958	9077.950	.000
yearC * man	1	217.680	7.813	.006
yearC * woman	1	218.047	13.814	.000

a. Dependent Variable: SexSat.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
man	3.369739	.035188	217.991	95.764	.000	3.300387	3.439091
woman	3.366179	.035330	217.958	95.278	.000	3.296547	3.435812
yearC * man	-.019858	.007104	217.680	-2.795	.006	-.033859	-.005856
yearC * woman	-.026307	.007078	218.047	-3.717	.000	-.040257	-.012357

a. Dependent Variable: SexSat.

Covariance Parameters

Estimates of Covariance Parameters^a

Parameter	Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Repeated Measures	.150398	.010201	14.744	.000	.131677	.171781
Var: [personid=1]	.168084	.011405	14.737	.000	.147152	.191993
Var: [personid=2]	.532012	.034394	15.468	.000	.461271	.596032
CSH rho	.232218	.025980	8.938	.000	.186494	.289153
man + woman [subject = DYADID]	.229983	.026223	8.770	.000	.183924	.287576
Var: woman	.615000	.050309	12.224	.000	.506743	.704162
CSH rho	.005363	.001121	4.783	.000	.003560	.008079
yearC * man + yearC * woman [subject = DYADID]	.004636	.001129	4.105	.000	.002876	.007474
CSH rho	.788560	.084279	9.357	.000	.558616	.905941

a. Dependent Variable: SexSat.

Basic Growth Model using the interaction approach that tests for sex differences. Note that NOINT is removed from the FIXED statement

```
MIXED SexSat WITH yearC ActNegEmoC PartNegEmoC man woman gender
  /FIXED= gender yearc gender*yearc | SSTYPE(3)
  /METHOD=REML
  /PRINT=SOLUTION TESTCOV
  /RANDOM=man woman | SUBJECT(DYADID) COVTYPE(CSH)
  /RANDOM= yearC*man yearC*woman | SUBJECT(DYADID) COVTYPE(CSH)
  /REPEATED=personid | SUBJECT(DYADID*Time) COVTYPE(CSH).
```

Mixed Model Analysis

Model Dimension^a

	Fixed Effects	Number of Levels	Covariance Structure	Number of Parameters	Subject Variables
	Intercept	1		1	
	gender	1		1	
	yearC	1		1	
	yearC * gender	1		1	
Random Effects	man + woman	2	Heterogeneous Compound Symmetry	3	DYADID
	yearC * man + yearC * woman	2	Heterogeneous Compound Symmetry	3	DYADID
Repeated Effects	personid	2	Heterogeneous Compound Symmetry	3	DYADID * Time
Total		10		13	

Model Dimension^a

	Number of Subjects
Fixed Effects	
Intercept	
gender	
yearC	
yearC * gender	
man + woman	
Random Effects	
yearC * man + yearC * woman	
Repeated Effects	871
personid	
Total	

a. Dependent Variable: SexSat.

Information Criteria^a

-2 Restricted Log Likelihood	2508.797
Akaike's Information Criterion (AIC)	2526.797
Hurvich and Tsai's Criterion (AICC)	2526.902
Bozdogan's Criterion (CAIC)	2584.931
Schwarz's Bayesian Criterion (BIC)	2575.931

The information criteria are displayed in smaller-is-better form.

a. Dependent Variable: SexSat.

Fixed Effects

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	217.039	11334.745	.000
gender	1	216.848	.013	.910
yearC	1	216.969	12.806	.000
yearC * gender	1	217.241	1.167	.281

a. Dependent Variable: SexSat.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Intercept	3.367960	.031635	217.039	106.465	.000	3.305610	3.430310
gender	.001780	.015754	216.848	.113	.910	-.029271	.032831
yearC	-.023082	.006450	216.969	-3.578	.000	-.035795	-.010369
yearC * gender	.003225	.002985	217.241	1.080	.281	-.002658	.009108

a. Dependent Variable: SexSat.

Covariance Parameters

Estimates of Covariance Parameters^a

Parameter	Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Repeated Measures						
	Var: [personid=1]	.150398	14.744	.000	.131677	.171781
	Var: [personid=2]	.168083	14.737	.000	.147152	.191992
	CSH rho	.532012	15.468	.000	.461271	.596032
man + woman [subject =	Var: man	.233463	8.925	.000	.187432	.290798
DYADID]	Var: woman	.231237	8.758	.000	.184870	.289233
	CSH rho	.614933	12.205	.000	.506504	.704216
yearC * man + yearC *	Var: yearC * man	.005413	4.799	.000	.003598	.008144
woman [subject =	Var: yearC * woman	.004687	4.125	.000	.002914	.007537
DYADID]	CSH rho	.787133	9.375	.000	.558925	.904502

a. Dependent Variable: SexSat.

Interaction model with actor and partner effects for negative emotionality (grand mean centered). Note that I

had to increase the number of iterations for this model to converge.

```
MIXED SexSat WITH yearC ActNegEmoC PartNegEmoC man woman gender
  /CRITERIA=CIN(95) MXITER(200) MXSTEP(10) SCORING(1) SINGULAR(0.0000000000001) HCONVERGE(0,
    ABSOLUTE) LCONVERGE(0, ABSOLUTE) PCONVERGE(0.000001, ABSOLUTE)
  /FIXED= gender yearC gender*yearC ActNegEmoC PartNegEmoC
ActNegEmoC*gender PartNegEmoC*gender
ActNegEmoC*yearC PartNegEmoC*yearC ActNegEmoC*gender*yearC PartNegEmoC*gender*yearC | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION TESTCOV
/RANDOM=man woman | SUBJECT(DYADID) COVTYPE(CSH)
/RANDOM= yearC*man yearC*woman | SUBJECT(DYADID) COVTYPE(CSH)
/REPEATED=personid | SUBJECT(DYADID*Time) COVTYPE(CSH).
```

Mixed Model Analysis

		Model Dimension ^a			
Fixed Effects	Intercept gender	Number of Levels	Covariance Structure	Number of Parameters	Subject Variables
		1		1	
		1		1	

Model Dimension^a

Fixed Effects	Intercept gender	Number of Subjects

Model Dimension^a

	Number of Levels	Covariance Structure	Number of Parameters	Subject Variables
yearC	1		1	
yearC * gender	1		1	
ActNegEmoC	1		1	
PartNegEmoC	1		1	
ActNegEmoC * gender	1		1	
PartNegEmoC * gender	1		1	
yearC * ActNegEmoC	1		1	
yearC * PartNegEmoC	1		1	
yearC * ActNegEmoC * gender	1		1	
yearC * PartNegEmoC * gender	1		1	
man + woman	2	Heterogeneous Compound Symmetry	3	DYADID
yearC * man + yearC * woman	2	Heterogeneous Compound Symmetry	3	DYADID
personid	2	Heterogeneous Compound Symmetry	3	DYADID * Time
Total	18		21	

Model Dimension^a

	Number of Subjects
yearC yearC * gender ActNegEmoC PartNegEmoC ActNegEmoC * gender PartNegEmoC * gender yearC * ActNegEmoC yearC * PartNegEmoC yearC * ActNegEmoC * gender yearC * PartNegEmoC * gender man + woman	
Random Effects yearC * man + yearC * woman	
Repeated Effects personid	871
Total	

a. Dependent Variable: SexSat.

Information Criteria^a

-2 Restricted Log Likelihood	2501.577
Akaike's Information Criterion (AIC)	2519.577
Hurvich and Tsai's Criterion (AICC)	2519.682
Bozdogan's Criterion (CAIC)	2577.670
Schwarz's Bayesian Criterion (BIC)	2568.670

The information criteria are displayed in smaller-is-better form.

a. Dependent Variable: SexSat.

Fixed Effects

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	215.075	12535.473	.000
gender	1	214.922	.005	.946
yearC	1	214.954	12.874	.000
yearC * gender	1	215.253	1.162	.282
ActNegEmoC	1	331.588	34.721	.000
PartNegEmoC	1	330.713	7.209	.008
ActNegEmoC * gender	1	311.126	2.425	.120
PartNegEmoC * gender	1	310.506	.709	.400
yearC * ActNegEmoC	1	312.393	.015	.902
yearC * PartNegEmoC	1	312.352	.019	.890
yearC * ActNegEmoC * gender	1	294.177	.867	.352
yearC * PartNegEmoC * gender	1	294.173	1.325	.251

a. Dependent Variable: SexSat.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Intercept	3.368526	.030086	215.075	111.962	.000	3.309224	3.427827
gender	.001049	.015417	214.922	.068	.946	-.029338	.031436
yearC	-.023182	.006461	214.954	-3.588	.000	-.035918	-.010447
yearC * gender	.003232	.002998	215.253	1.078	.282	-.002677	.009141
ActNegEmoC	-.886856	.150508	331.588	-5.892	.000	-1.182926	-.590785
PartNegEmoC	-.404679	.150719	330.713	-2.685	.008	-.701168	-.108189
ActNegEmoC * gender	.242517	.155723	311.126	1.557	.120	-.063887	.548921
PartNegEmoC * gender	-.131302	.155928	310.506	-.842	.400	-.438111	.175507
yearC * ActNegEmoC	.003897	.031656	312.393	.123	.902	-.058389	.066183
yearC * PartNegEmoC	-.004381	.031670	312.352	-.138	.890	-.066694	.057932
yearC * ActNegEmoC * gender	-.030601	.032856	294.177	-.931	.352	-.095264	.034062
yearC * PartNegEmoC * gender	.037836	.032869	294.173	1.151	.251	-.026853	.102526

a. Dependent Variable: SexSat.

Covariance Parameters

Estimates of Covariance Parameters^a

Parameter	Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Repeated Measures	.150404	.010201	14.744	.000	.131682	.171788
Var: [personid=1]	.168081	.011405	14.738	.000	.147150	.191988
Var: [personid=2]	.531998	.034395	15.467	.000	.461254	.596020
CSH rho	.217392	.024734	8.789	.000	.173940	.271699
man + woman [subject = DYADID]	.200958	.023622	8.507	.000	.159607	.253024
Var: woman	.594759	.053383	11.141	.000	.480087	.689445
CSH rho	.005472	.001138	4.808	.000	.003640	.008226
yearC * man + yearC * woman [subject = DYADID]	.004718	.001144	4.126	.000	.002934	.007587
Var: yearC * man	.782779	.084247	9.291	.000	.555375	.901261
Var: yearC * woman						
CSH rho						

a. Dependent Variable: SexSat.

Interaction model again, but with ML so that we can do the test of distinguishability. The deviance here is 2442.075 with 21 Parameters

```
MIXED SexSat WITH yearC ActNegEmoC PartNegEmoC man woman gender
  /FIXED= gender yearC gender*yearC ActNegEmoC PartNegEmoC
ActNegEmoC*gender PartNegEmoC*gender
ActNegEmoC*yearC PartNegEmoC*yearC ActNegEmoC*gender*yearC PartNegEmoC*gender*yearC | SSTYPE(3)
/METHOD=ML
/PRINT=SOLUTION TESTCOV
/RANDOM=man woman | SUBJECT(DYADID) COVTYPE(CSH)
/RANDOM= yearC*man yearC*woman | SUBJECT(DYADID) COVTYPE(CSH)
/REPEATED=personid | SUBJECT(DYADID*Time) COVTYPE(CSH).
```

Mixed Model Analysis

Model Dimension^a

	Fixed Effects	Number of Levels	Covariance Structure	Number of Parameters	Subject Variables
	Intercept	1		1	
	gender	1		1	
	yearC	1		1	
	yearC * gender	1		1	
	ActNegEmoC	1		1	
	PartNegEmoC	1		1	
	ActNegEmoC * gender	1		1	
	PartNegEmoC * gender	1		1	
	yearC * ActNegEmoC	1		1	
	yearC * PartNegEmoC	1		1	
	yearC * ActNegEmoC * gender	1		1	
	yearC * PartNegEmoC * gender	1		1	
	man + woman	2	Heterogeneous Compound Symmetry	3	DYADID
	yearC * man + yearC * woman	2	Heterogeneous Compound Symmetry	3	DYADID
	personid	2	Heterogeneous Compound Symmetry	3	DYADID * Time
Total		18		21	

Model Dimension^a

	Number of Subjects
<p>Fixed Effects</p> <p>Intercept</p> <p>gender</p> <p>yearC</p> <p>yearC * gender</p> <p>ActNegEmoC</p> <p>PartNegEmoC</p> <p>ActNegEmoC * gender</p> <p>PartNegEmoC * gender</p> <p>yearC * ActNegEmoC</p> <p>yearC * PartNegEmoC</p> <p>yearC * ActNegEmoC *</p> <p>gender</p> <p>yearC * PartNegEmoC *</p> <p>gender</p> <p>man + woman</p> <p>yearC * man + yearC *</p> <p>woman</p> <p>Repeated Effects</p> <p>personid</p>	<p>871</p>
<p>Total</p>	<p>871</p>

a. Dependent Variable: SexSat.

Information Criteria^a

-2 Log Likelihood	2442.075
Akaike's Information Criterion (AIC)	2484.075
Hurvich and Tsai's Criterion (AICC)	2484.612
Bozdogan's Criterion (CAIC)	2619.769
Schwarz's Bayesian Criterion (BIC)	2598.769

The information criteria are displayed in smaller-is-better form.

a. Dependent Variable: SexSat.

Fixed Effects

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	218.077	12710.358	.000
gender	1	217.919	.005	.945
yearC	1	217.954	13.055	.000
yearC * gender	1	218.257	1.178	.279
ActNegEmoC	1	336.219	35.205	.000
PartNegEmoC	1	335.333	7.309	.007
ActNegEmoC * gender	1	315.479	2.459	.118
PartNegEmoC * gender	1	314.851	.719	.397
yearC * ActNegEmoC	1	316.756	.015	.901
yearC * PartNegEmoC	1	316.716	.019	.889
yearC * ActNegEmoC * gender	1	298.287	.879	.349
yearC * PartNegEmoC * gender	1	298.285	1.344	.247

a. Dependent Variable: SexSat.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Intercept	3.368522	.029879	218.077	112.740	.000	3.309634	3.427410
gender	.001048	.015310	217.919	.068	.945	-.029127	.031223
yearC	-.023184	.006416	217.954	-3.613	.000	-.035830	-.010538
yearC * gender	.003231	.002977	218.257	1.085	.279	-.002637	.009099
ActNegEmoC	-.886854	.149469	336.219	-5.933	.000	-1.180866	-.592841
PartNegEmoC	-.404670	.149679	335.333	-2.704	.007	-.699098	-.110241
ActNegEmoC * gender	.242509	.154650	315.479	1.568	.118	-.061766	.546784
PartNegEmoC * gender	-.131284	.154853	314.851	-.848	.397	-.435962	.173393
yearC * ActNegEmoC	.003899	.031437	316.756	.124	.901	-.057953	.065751
yearC * PartNegEmoC	-.004375	.031451	316.716	-.139	.889	-.066255	.057504
yearC * ActNegEmoC * gender	-.030600	.032629	298.287	-.938	.349	-.094812	.033613
yearC * PartNegEmoC * gender	.037843	.032642	298.285	1.159	.247	-.026396	.102081

a. Dependent Variable: SexSat.

Covariance Parameters

Estimates of Covariance Parameters^a

Parameter	Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Repeated Measures	.150403	.010201	14.744	.000	.131681	.171786
Var: [personid=1]	.168080	.011405	14.738	.000	.147150	.191988
Var: [personid=2]	.531997	.034395	15.467	.000	.461254	.596018
CSH rho	.213881	.024230	8.827	.000	.171294	.267057
man + woman [subject = DYADID]	.197615	.023143	8.539	.000	.157084	.248603
Var: woman	.594933	.053164	11.190	.000	.480767	.689265
CSH rho	.005319	.001117	4.760	.000	.003524	.008029
yearC * man + yearC * woman [subject = DYADID]	.004567	.001123	4.066	.000	.002820	.007396
Var: yearC * man	.787043	.085207	9.237	.000	.554451	.905588
Var: yearC * woman						
CSH rho						

a. Dependent Variable: SexSat.

Interaction model with negative emotionality that drops gender for test of distinguishability.
Runs using ML for the deviance test. The deviance here is 2449.178 with 12 parameters. So the omnibus test of distinguishability is 7.103, df = 9, n.s.

```
MIXED SexSat WITH yearC ActNegEmoC PartNegEmoC man woman gender
/FIXED= yearC ActNegEmoC PartNegEmoC
ActNegEmoC*yearC PartNegEmoC*yearC | SSTYPE(3)
/METHOD=ML
/PRINT=SOLUTION TESTCOV
/RANDOM=man woman | SUBJECT(DYADID) COVTYPE(CS)
/RANDOM= yearC*man yearC*woman | SUBJECT(DYADID) COVTYPE(CS)
```

Mixed Model Analysis

Model Dimension^a

	Number of Levels	Covariance Structure	Number of Parameters	Subject Variables
Fixed Effects	1		1	
Intercept				
yearC	1		1	
ActNegEmoC	1		1	
PartNegEmoC	1		1	
yearC * ActNegEmoC	1		1	
yearC * PartNegEmoC	1		1	
Random Effects	2	Compound Symmetry	2	DYADID
man + woman ^b				
Repeated Effects	2	Compound Symmetry	2	DYADID
yearC * man + yearC * woman ^b				
personid	2	Compound Symmetry	2	DYADID * Time
Total	12		12	

Model Dimension^a

	Number of Subjects
Fixed Effects	
Intercept	
yearC	
ActNegEmoC	
PartNegEmoC	
yearC * ActNegEmoC	
yearC * PartNegEmoC	
man + woman ^b	
Random Effects	
yearC * man + yearC * woman ^b	
personid	871
Repeated Effects	
Total	

a. Dependent Variable: SexSat.

b. As of version 11.5, the syntax rules for the RANDOM subcommand have changed. Your command syntax may yield results that differ from those produced by prior versions. If you are using version 11 syntax, please consult the current syntax reference guide for more information.

Information Criteria^a

-2 Log Likelihood	2449.178
Akaike's Information Criterion (AIC)	2473.178
Hurvich and Tsai's Criterion (AICC)	2473.359
Bozdogan's Criterion (CAIC)	2550.718
Schwarz's Bayesian Criterion (BIC)	2538.718

The information criteria are displayed in smaller-is-better form.

a. Dependent Variable: SexSat.

Fixed Effects

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	218.064	12605.170	.000
yearC	1	217.989	12.882	.000
ActNegEmoC	1	336.007	34.036	.000
PartNegEmoC	1	336.029	7.055	.008
yearC * ActNegEmoC	1	317.117	.005	.946
yearC * PartNegEmoC	1	317.260	.037	.847

a. Dependent Variable: SexSat.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Intercept	3.367965	.029998	218.064	112.273	.000	3.308842	3.427088
yearC	-.023094	.006434	217.989	-3.589	.000	-.035776	-.010412
ActNegEmoC	-.874452	.149888	336.007	-5.834	.000	-1.169288	-.579615
PartNegEmoC	-.398131	.149890	336.029	-2.656	.008	-.692973	-.103290
yearC * ActNegEmoC	.002148	.031486	317.117	.068	.946	-.059800	.064097
yearC * PartNegEmoC	-.006085	.031491	317.260	-.193	.847	-.068042	.055873

a. Dependent Variable: SexSat.

Covariance Parameters

Estimates of Covariance Parameters^a

Parameter	Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Repeated Measures	.074663	.005069	14.729	.000	.065360	.085290
man + woman [subject = DYADID]	.084570	.008646	9.781	.000	.067623	.101516
yearC * man + yearC * woman [subject = DYADID]	.083781	.009902	8.461	.000	.066457	.105621
	.123740	.019536	6.334	.000	.085450	.162030
	.001085	.000417	2.603	.009	.000511	.002305
	.003921	.000941	4.166	.000	.002076	.005766

a. Dependent Variable: SexSat.

Final Growth Model - indistinguishable but with Actor and Partner Negative Emotionality

```

/FIXED= yearc ActNegEmoC PartNegEmoC
ActNegEmoC*yearc PartNegEmoC*yearc | SSTYPE(3)
/METHOD=REML
/PRINT=SOLUTION TESTCOV
/RANDOM=man woman | SUBJECT(DYADID) COVTYPE(CS)
/RANDOM= yearC*man yearC*woman | SUBJECT(DYADID) COVTYPE(CS)
/REPEATED=personid | SUBJECT(DYADID*Time) COVTYPE(CS).

```

Mixed Model Analysis

Model Dimension^a

	Number of Levels	Covariance Structure	Number of Parameters	Subject Variables
Fixed Effects	1		1	
Intercept	1		1	
yearC	1		1	
ActNegEmoC	1		1	
PartNegEmoC	1		1	
yearC * ActNegEmoC	1		1	
yearC * PartNegEmoC	1		1	
Random Effects	2	Compound Symmetry	2	DYADID
man + woman ^b	2	Compound Symmetry	2	DYADID
yearC * man + yearC * woman ^b	2	Compound Symmetry	2	DYADID * Time
personid	12		12	
Repeated Effects				
Total				

Model Dimension^a

	Number of Subjects
Fixed Effects	
Intercept	
yearC	
ActNegEmoC	
PartNegEmoC	
yearC * ActNegEmoC	
yearC * PartNegEmoC	
man + woman ^b	
Random Effects	
yearC * man + yearC * woman ^b	
personid	871
Repeated Effects	
Total	

a. Dependent Variable: SexSat.

b. As of version 11.5, the syntax rules for the RANDOM subcommand have changed. Your command syntax may yield results that differ from those produced by prior versions. If you are using version 11 syntax, please consult the current syntax reference guide for more information.

Information Criteria^a

-2 Restricted Log Likelihood	2477.480
Akaike's Information Criterion (AIC)	2489.480
Hurvich and Tsai's Criterion (AICC)	2489.528
Bozdogan's Criterion (CAIC)	2528.229
Schwarz's Bayesian Criterion (BIC)	2522.229

The information criteria are displayed in smaller-is-better form.

a. Dependent Variable: SexSat.

Fixed Effects

Type III Tests of Fixed Effects^a

Source	Numerator df	Denominator df	F	Sig.
Intercept	1	216.063	12489.488	.000
yearC	1	215.989	12.762	.000
ActNegEmoC	1	332.587	33.759	.000
PartNegEmoC	1	332.609	6.998	.009
yearC * ActNegEmoC	1	313.881	.005	.946
yearC * PartNegEmoC	1	314.023	.037	.847

a. Dependent Variable: SexSat.

Estimates of Fixed Effects^a

Parameter	Estimate	Std. Error	df	t	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Intercept	3.367967	.030137	216.063	111.756	.000	3.308567	3.427367
yearC	-.023093	.006464	215.989	-3.572	.000	-.035834	-.010352
ActNegEmoC	-.874452	.150501	332.587	-5.810	.000	-1.170506	-.578397
PartNegEmoC	-.398135	.150504	332.609	-2.645	.009	-.694195	-.102076
yearC * ActNegEmoC	.002147	.031618	313.881	.068	.946	-.060062	.064356
yearC * PartNegEmoC	-.006088	.031622	314.023	-.193	.847	-.068306	.056131

a. Dependent Variable: SexSat.

Covariance Parameters

Estimates of Covariance Parameters^a

Parameter	Estimate	Std. Error	Wald Z	Sig.	95% Confidence Interval		
					Lower Bound	Upper Bound	
Repeated Measures	CS diagonal offset	.074663	.005069	14.729	.000	.065360	.085290
	CS covariance	.084570	.008646	9.781	.000	.067623	.101516
man + woman [subject = DYADID]	CS diagonal offset	.084253	.009970	8.451	.000	.066813	.106244
	CS covariance	.125322	.019796	6.331	.000	.086522	.164122
yearC * man + yearC * woman [subject = DYADID]	CS diagonal offset	.001103	.000419	2.631	.009	.000524	.002324
	CS covariance	.003996	.000953	4.195	.000	.002129	.005863

a. Dependent Variable: SexSat.