General Linear Model

Notes

Output Created		06-AUG-2024 21:53:...
Comments		
Input	Active Dataset	DataSet1
	Filter	Sample = 1 & Included = 1 & StimSet = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	127
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.

Syntax		GLM EmoCrossPropCorrect EmoSamePropCorrect ValCrossPropCorrect ValSamePropCorrect
		
		/WSFACTOR=Emo1_Val 2 2 Polynomial Diff2_Same2 2 Polynomial
		  /METHOD=SSTYPE(3)
		  /PRINT=ETASQ
		  /CRITERIA=ALPHA(.05)
		
		/WSDESIGN=Emo1_Val2 Diff2_Same2 Emo1_Val2*Diff2_Same2.

Resources	Processor Time	00:00:00.04
	Elapsed Time	00:00:00.00

Within-Subjects Factors

Measure: MEASURE_1

Emo1_Val2	Diff2_Same2	Dependent Variable
1	1	EmoCrossPropCorrect
	2	EmoSamePropCorrect
2	1	ValCrossPropCorrect
	2	ValSamePropCorrect

Multivariate Tests[a]

Effect		Value	F	Hypothesis df	Error df
Emo1_Val2	Pillai's Trace	.057	7.589[b]	1.000	126.000
	Wilks' Lambda	.943	7.589[b]	1.000	126.000
	Hotelling's Trace	.060	7.589[b]	1.000	126.000
	Roy's Largest Root	.060	7.589[b]	1.000	126.000
Diff2_Same2	Pillai's Trace	.277	48.156[b]	1.000	126.000
	Wilks' Lambda	.723	48.156[b]	1.000	126.000
	Hotelling's Trace	.382	48.156[b]	1.000	126.000
	Roy's Largest Root	.382	48.156[b]	1.000	126.000
Emo1_Val2 * Diff2_Same2	Pillai's Trace	.517	134.659[b]	1.000	126.000
	Wilks' Lambda	.483	134.659[b]	1.000	126.000
	Hotelling's Trace	1.069	134.659[b]	1.000	126.000
	Roy's Largest Root	1.069	134.659[b]	1.000	126.000

Multivariate Tests[a]

Effect		Sig.	Partial Eta Squared
Emo1_Val2	Pillai's Trace	.007	.057
	Wilks' Lambda	.007	.057
	Hotelling's Trace	.007	.057
	Roy's Largest Root	.007	.057
Diff2_Same2	Pillai's Trace	<.001	.277
	Wilks' Lambda	<.001	.277
	Hotelling's Trace	<.001	.277
	Roy's Largest Root	<.001	.277
Emo1_Val2 * Diff2_Same2	Pillai's Trace	<.001	.517
	Wilks' Lambda	<.001	.517
	Hotelling's Trace	<.001	.517
	Roy's Largest Root	<.001	.517

a. Design: Intercept
   Within Subjects Design: Emo1_Val2 + Diff2_Same2 + Emo1_Val2 * Diff2_Same2

b. Exact statistic

Mauchly's Test of Sphericity[a]

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon[b] Greenhouse-Geisser
Emo1_Val2	1.000	.000	0	.	1.000
Diff2_Same2	1.000	.000	0	.	1.000
Emo1_Val2 * Diff2_Same2	1.000	.000	0	.	1.000

Mauchly's Test of Sphericity[a]

Measure: MEASURE_1

Within Subjects Effect	Epsilon[b] Huynh-Feldt	Lower-bound
Emo1_Val2	1.000	1.000
Diff2_Same2	1.000	1.000
Emo1_Val2 * Diff2_Same2	1.000	1.000

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

    a. Design: Intercept
      Within Subjects Design: Emo1_Val2 + Diff2_Same2 + Emo1_Val2 * Diff2_Same2

    b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square
Emo1_Val2	Sphericity Assumed	.195	1	.195
	Greenhouse-Geisser	.195	1.000	.195
	Huynh-Feldt	.195	1.000	.195
	Lower-bound	.195	1.000	.195
Error(Emo1_Val2)	Sphericity Assumed	3.236	126	.026
	Greenhouse-Geisser	3.236	126.000	.026
	Huynh-Feldt	3.236	126.000	.026
	Lower-bound	3.236	126.000	.026
Diff2_Same2	Sphericity Assumed	.458	1	.458
	Greenhouse-Geisser	.458	1.000	.458
	Huynh-Feldt	.458	1.000	.458
	Lower-bound	.458	1.000	.458
Error(Diff2_Same2)	Sphericity Assumed	1.198	126	.010
	Greenhouse-Geisser	1.198	126.000	.010
	Huynh-Feldt	1.198	126.000	.010
	Lower-bound	1.198	126.000	.010
Emo1_Val2 * Diff2_Same2	Sphericity Assumed	1.356	1	1.356
	Greenhouse-Geisser	1.356	1.000	1.356
	Huynh-Feldt	1.356	1.000	1.356
	Lower-bound	1.356	1.000	1.356
Error (Emo1_Val2*Diff2_Same2)	Sphericity Assumed	1.269	126	.010
	Greenhouse-Geisser	1.269	126.000	.010
	Huynh-Feldt	1.269	126.000	.010
	Lower-bound	1.269	126.000	.010

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		F	Sig.	Partial Eta Squared
Emo1_Val2	Sphericity Assumed	7.589	.007	.057
	Greenhouse-Geisser	7.589	.007	.057
	Huynh-Feldt	7.589	.007	.057
	Lower-bound	7.589	.007	.057
Error(Emo1_Val2)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
Diff2_Same2	Sphericity Assumed	48.156	<.001	.277
	Greenhouse-Geisser	48.156	<.001	.277
	Huynh-Feldt	48.156	<.001	.277
	Lower-bound	48.156	<.001	.277
Error(Diff2_Same2)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
Emo1_Val2 * Diff2_Same2	Sphericity Assumed	134.659	<.001	.517
	Greenhouse-Geisser	134.659	<.001	.517
	Huynh-Feldt	134.659	<.001	.517
	Lower-bound	134.659	<.001	.517
Error (Emo1_Val2*Diff2_Same2)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Emo1_Val2	Diff2_Same2	Type III Sum of Squares	df	Mean Square
Emo1_Val2	Linear		.195	1	.195
Error(Emo1_Val2)	Linear		3.236	126	.026
Diff2_Same2		Linear	.458	1	.458
Error(Diff2_Same2)		Linear	1.198	126	.010
Emo1_Val2 * Diff2_Same2	Linear	Linear	1.356	1	1.356
Error (Emo1_Val2*Diff2_Same2)	Linear	Linear	1.269	126	.010

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Emo1_Val2	Diff2_Same2	F	Sig.	Partial Eta Squared
Emo1_Val2	Linear		7.589	.007	.057
Error(Emo1_Val2)	Linear				
Diff2_Same2		Linear	48.156	<.001	.277
Error(Diff2_Same2)		Linear			
Emo1_Val2 * Diff2_Same2	Linear	Linear	134.659	<.001	.517
Error (Emo1_Val2*Diff2_Same2)	Linear	Linear			

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	261.608	1	261.608	2783.309	<.001	.957
Error	11.843	126	.094			

```
GLM EmoCrossMedianRTEmoSameMedianRTValCrossMedianRTValSameMedianRT
/WSFACTOR=Emo1_Val2 2 Polynomial Diff2_Same2 2 Polynomial
/METHOD=SSTYPE(3)
/PRINT=ETASQ
/CRITERIA=ALPHA(.05)
/WSDESIGN=Emo1_Val2 Diff2_Same2 Emo1_Val2*Diff2_Same2.
```

General Linear Model

Notes

Output Created		06-AUG-2024 21:54:...
Comments		
Input	Active Dataset	DataSet1
	Filter	Sample = 1 & Included = 1 & StimSet = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	127
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.

Syntax		GLM EmoCrossMedianRT EmoSameMedianRT ValCrossMedianRT ValSameMedianRT
		
		/WSFACTOR=Emo1_Val 2 2 Polynomial Diff2_Same2 2 Polynomial
		  /METHOD=SSTYPE(3)
		  /PRINT=ETASQ
		  /CRITERIA=ALPHA(.05)
		
		/WSDESIGN=Emo1_Val2 Diff2_Same2 Emo1_Val2*Diff2_Same 2.

Resources	Processor Time	00:00:00.04
	Elapsed Time	00:00:00.00

Within-Subjects Factors

Measure: MEASURE_1

Emo1_Val2	Diff2_Same2	Dependent Variable
1	1	EmoCrossMedianRT
	2	EmoSameMedianRT
2	1	ValCrossMedianRT
	2	ValSameMedianRT

Multivariate Tests[a]

Effect		Value	F	Hypothesis df	Error df
Emo1_Val2	Pillai's Trace	.418	90.526[b]	1.000	126.000
	Wilks' Lambda	.582	90.526[b]	1.000	126.000
	Hotelling's Trace	.718	90.526[b]	1.000	126.000
	Roy's Largest Root	.718	90.526[b]	1.000	126.000
Diff2_Same2	Pillai's Trace	.116	16.459[b]	1.000	126.000
	Wilks' Lambda	.884	16.459[b]	1.000	126.000
	Hotelling's Trace	.131	16.459[b]	1.000	126.000
	Roy's Largest Root	.131	16.459[b]	1.000	126.000
Emo1_Val2 * Diff2_Same2	Pillai's Trace	.097	13.477[b]	1.000	126.000
	Wilks' Lambda	.903	13.477[b]	1.000	126.000
	Hotelling's Trace	.107	13.477[b]	1.000	126.000
	Roy's Largest Root	.107	13.477[b]	1.000	126.000

Multivariate Tests[a]

Effect		Sig.	Partial Eta Squared
Emo1_Val2	Pillai's Trace	<.001	.418
	Wilks' Lambda	<.001	.418
	Hotelling's Trace	<.001	.418
	Roy's Largest Root	<.001	.418
Diff2_Same2	Pillai's Trace	<.001	.116
	Wilks' Lambda	<.001	.116
	Hotelling's Trace	<.001	.116
	Roy's Largest Root	<.001	.116
Emo1_Val2 * Diff2_Same2	Pillai's Trace	<.001	.097
	Wilks' Lambda	<.001	.097
	Hotelling's Trace	<.001	.097
	Roy's Largest Root	<.001	.097

a. Design: Intercept
   Within Subjects Design: Emo1_Val2 + Diff2_Same2 + Emo1_Val2 * Diff2_Same2

b. Exact statistic

Mauchly's Test of Sphericity[a]

Measure: MEASURE_1

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon[b] Greenhouse-Geisser
Emo1_Val2	1.000	.000	0	.	1.000
Diff2_Same2	1.000	.000	0	.	1.000
Emo1_Val2 * Diff2_Same2	1.000	.000	0	.	1.000

Mauchly's Test of Sphericity[a]

Measure: MEASURE_1

Within Subjects Effect	Epsilon[b] Huynh-Feldt	Lower-bound
Emo1_Val2	1.000	1.000
Diff2_Same2	1.000	1.000
Emo1_Val2 * Diff2_Same2	1.000	1.000

Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.

a. Design: Intercept
   Within Subjects Design: Emo1_Val2 + Diff2_Same2 + Emo1_Val2 * Diff2_Same2

b. May be used to adjust the degrees of freedom for the averaged tests of significance. Corrected tests are displayed in the Tests of Within-Subjects Effects table.

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square
Emo1_Val2	Sphericity Assumed	71.503	1	71.503
	Greenhouse-Geisser	71.503	1.000	71.503
	Huynh-Feldt	71.503	1.000	71.503
	Lower-bound	71.503	1.000	71.503
Error(Emo1_Val2)	Sphericity Assumed	99.522	126	.790
	Greenhouse-Geisser	99.522	126.000	.790
	Huynh-Feldt	99.522	126.000	.790
	Lower-bound	99.522	126.000	.790
Diff2_Same2	Sphericity Assumed	2.550	1	2.550
	Greenhouse-Geisser	2.550	1.000	2.550
	Huynh-Feldt	2.550	1.000	2.550
	Lower-bound	2.550	1.000	2.550
Error(Diff2_Same2)	Sphericity Assumed	19.525	126	.155
	Greenhouse-Geisser	19.525	126.000	.155
	Huynh-Feldt	19.525	126.000	.155
	Lower-bound	19.525	126.000	.155
Emo1_Val2 * Diff2_Same2	Sphericity Assumed	3.105	1	3.105
	Greenhouse-Geisser	3.105	1.000	3.105
	Huynh-Feldt	3.105	1.000	3.105
	Lower-bound	3.105	1.000	3.105
Error (Emo1_Val2*Diff2_Same2)	Sphericity Assumed	29.031	126	.230
	Greenhouse-Geisser	29.031	126.000	.230
	Huynh-Feldt	29.031	126.000	.230
	Lower-bound	29.031	126.000	.230

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		F	Sig.	Partial Eta Squared
Emo1_Val2	Sphericity Assumed	90.526	<.001	.418
	Greenhouse-Geisser	90.526	<.001	.418
	Huynh-Feldt	90.526	<.001	.418
	Lower-bound	90.526	<.001	.418
Error(Emo1_Val2)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
Diff2_Same2	Sphericity Assumed	16.459	<.001	.116
	Greenhouse-Geisser	16.459	<.001	.116
	Huynh-Feldt	16.459	<.001	.116
	Lower-bound	16.459	<.001	.116
Error(Diff2_Same2)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			
Emo1_Val2 * Diff2_Same2	Sphericity Assumed	13.477	<.001	.097
	Greenhouse-Geisser	13.477	<.001	.097
	Huynh-Feldt	13.477	<.001	.097
	Lower-bound	13.477	<.001	.097
Error (Emo1_Val2*Diff2_Same2)	Sphericity Assumed			
	Greenhouse-Geisser			
	Huynh-Feldt			
	Lower-bound			

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Emo1_Val2	Diff2_Same2	Type III Sum of Squares	df	Mean Square
Emo1_Val2	Linear		71.503	1	71.503
Error(Emo1_Val2)	Linear		99.522	126	.790
Diff2_Same2		Linear	2.550	1	2.550
Error(Diff2_Same2)		Linear	19.525	126	.155
Emo1_Val2 * Diff2_Same2	Linear	Linear	3.105	1	3.105
Error (Emo1_Val2*Diff2_Same2)	Linear	Linear	29.031	126	.230

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Emo1_Val2	Diff2_Same2	F	Sig.	Partial Eta Squared
Emo1_Val2	Linear		90.526	<.001	.418
Error(Emo1_Val2)	Linear				
Diff2_Same2		Linear	16.459	<.001	.116
Error(Diff2_Same2)		Linear			
Emo1_Val2 * Diff2_Same2	Linear	Linear	13.477	<.001	.097
Error (Emo1_Val2*Diff2_Same2)	Linear	Linear			

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.	Partial Eta Squared
Intercept	3943.778	1	3943.778	754.995	<.001	.857
Error	658.172	126	5.224			

```
COMPUTE EmoSameVCross_PropCorrect=EmoSamePropCorrect- EmoCrossPropCorrect
EXECUTE.
COMPUTE ValSameVCross_PropCOrrect=ValSamePropCorrect- ValCrossPropCorrect
EXECUTE.
T-TEST PAIRS=EmoSameVCross_PropCorrect WITH ValSameVCross_PropCOrrect(PAIRED)
/ES DISPLAY(TRUE) STANDARDIZER(SD)
/CRITERIA=CI(.9500)
/MISSING=ANALYSIS.
```

T-Test

Notes

Output Created		06-AUG-2024 22:05:...
Comments		
Input	Active Dataset	DataSet1
	Filter	Sample = 1 & Included = 1 & StimSet = 1 (FILTER)
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	127
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST PAIRS=EmoSameVCross_PropCorrect WITH ValSameVCross_PropCOrrect (PAIRED) /ES DISPLAY(TRUE) STANDARDIZER(SD) /CRITERIA=CI(.9500) /MISSING=ANALYSIS.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.00

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	EmoSameVCross_PropCorrect	.1634	127	.14685	.01303
	ValSameVCross_PropCOrrect	-.0433	127	.13264	.01177

Paired Samples Correlations

		N	Correlation	Significance One-Sided p	Two-Sided p
Pair 1	EmoSameVCross_PropCorrect & ValSameVCross_PropCOrrect	127	-.029	.373	.746

Paired Samples Test

		Paired Differences			95% Confidence ...
		Mean	Std. Deviation	Std. Error Mean	Lower
Pair 1	EmoSameVCross_PropCorrect - ValSameVCross_PropCOrrect	.20669	.20073	.01781	.17144

Paired Samples Test

		Paired ... 95% Confidence Interval of the ...			Significance
		Upper	t	df	One-Sided p
Pair 1	EmoSameVCross_PropCorrect - ValSameVCross_PropCOrrect	.24194	11.604	126	<.001

Paired Samples Test

		Significance Two-Sided p
Pair 1	EmoSameVCross_PropCorrect - ValSameVCross_PropCOrrect	<.001

Paired Samples Effect Sizes

			Standardizer[a]	Point Estimate	95% …
					Lower
Pair 1	EmoSameVCross_PropCorrect - ValSameVCross_PropCOrrect	Cohen's d	.20073	1.030	.813
		Hedges' correction	.20133	1.027	.811

Paired Samples Effect Sizes

			95% …
			Upper
Pair 1	EmoSameVCross_PropCorrect - ValSameVCross_PropCOrrect	Cohen's d	1.244
		Hedges' correction	1.240

a. The denominator used in estimating the effect sizes.
Cohen's d uses the sample standard deviation of the mean difference.
Hedges' correction uses the sample standard deviation of the mean difference, plus a correction factor.

```
COMPUTE EmoSameVCross_MedianRT=EmoSameMedianRT - EmoCrossMedianRT
EXECUTE.
COMPUTE ValSameVCross_MedianRT=ValSameMedianRT - ValCrossMedianRT
EXECUTE.
T-TEST PAIRS=EmoSameVCross_MedianRT WITH ValSameVCross_MedianRT(PAIRED)
/ES DISPLAY(TRUE) STANDARDIZER(SD)
/CRITERIA=CI(.9500)
/MISSING=ANALYSIS.
```

T-Test

Notes

Output Created		06-AUG-2024 22:16:...
Comments		
Input	Active Dataset	DataSet1
	Filter	Sample = 1 & Included = 1 & StimSet = 1 (FILTER)
	Weight	`<none>`
	Split File	`<none>`
	N of Rows in Working Data File	127
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax		T-TEST PAIRS=EmoSameVCross_MedianRT WITH ValSameVCross_Median RT (PAIRED) /ES DISPLAY(TRUE) STANDARDIZER(SD) /CRITERIA=CI(.9500) /MISSING=ANALYSIS.
Resources	Processor Time	00:00:00.01
	Elapsed Time	00:00:00.00

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	EmoSameVCross_Median RT	-.2981	127	.75520	.06701
	ValSameVCross_MedianR T	.0147	127	.44766	.03972

Paired Samples Correlations

		N	Correlation	Significance	
				One-Sided p	Two-Sided p
Pair 1	EmoSameVCross_Median RT & ValSameVCross_MedianR T	127	-.223	.006	.012

Paired Samples Test

		Paired Differences			95% Confidence ...
		Mean	Std. Deviation	Std. Error Mean	Lower
Pair 1	EmoSameVCross_Median RT - ValSameVCross_MedianR T	-.31273	.96001	.08519	-.48132

Paired Samples Test

		Paired ...			Significance
		95% Confidence Interval of the ...			
		Upper	t	df	One-Sided p
Pair 1	EmoSameVCross_Median RT - ValSameVCross_MedianR T	-.14415	-3.671	126	<.001

Paired Samples Test

		Significance
		Two-Sided p
Pair 1	EmoSameVCross_Median RT - ValSameVCross_MedianR T	<.001

Paired Samples Effect Sizes

			Standardizer[a]	Point Estimate	95% … Lower
Pair 1	EmoSameVCross_Median RT - ValSameVCross_MedianRT	Cohen's d	.96001	-.326	-.504
		Hedges' correction	.96288	-.325	-.502

Paired Samples Effect Sizes

			95% … Upper
Pair 1	EmoSameVCross_Median RT - ValSameVCross_MedianRT	Cohen's d	-.147
		Hedges' correction	-.146

a. The denominator used in estimating the effect sizes.
Cohen's d uses the sample standard deviation of the mean difference.
Hedges' correction uses the sample standard deviation of the mean difference, plus a correction factor.