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DATASET ACTIVATE DataSet2.
GLM HA_faces SA_faces BY Groups
  /WSFACTOR=emotion 2 Polynomial
  /METHOD=SSTYPE(3)
  /EMMEANS=TABLES(Groups) COMPARE ADJ(BONFERRONI)
  /EMMEANS=TABLES(emotion) COMPARE ADJ(BONFERRONI)
  /PRINT=DESCRIPTIVE HOMOGENEITY
  /CRITERIA=ALPHA(.05)
  /WSDESIGN=emotion
  /DESIGN=Groups.

```

General Linear Model

Notes

Output Created		31-DEC-2018 21:51:26
Comments		
Input	Data	D:\Documents\initial_orientat ion.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	32
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 HA_faces SA_faces BY Groups /WSFACTOR=emotion 2 Polynomial /METHOD=SSTYPE(3) /EMMEANS=TABLES (Groups) COMPARE ADJ (BONFERRONI) /EMMEANS=TABLES (emotion) COMPARE ADJ (BONFERRONI) /PRINT=DESCRIPTIVE HOMOGENEITY /CRITERIA=ALPHA(.05) /WSDESIGN=emotion /DESIGN=Groups.

Notes

Resources	Processor Time	00:00:00.13
	Elapsed Time	00:00:00.83

[DataSet2] D:\Documents\initial_orientation.sav

Within-Subjects Factors

Measure: MEASURE_1

emotion	Dependent Variable
1	HA_faces
2	SA_faces

Between-Subjects Factors

		Value Label	N
Groups	.00	neutral primer	16
	1.00	sad primer	16

Descriptive Statistics

		Mean	Std. Deviation	N
HA_faces	neutral primer	18.8750	2.80179	16
	sad primer	19.2500	3.08761	16
	Total	19.0625	2.90647	32
SA_faces	neutral primer	16.6250	1.96214	16
	sad primer	17.6875	3.47791	16
	Total	17.1563	2.82967	32

Box's Test of Equality of Covariance Matrices^a

Box's M	6.093
F	1.884
df1	3
df2	162000.000
Sig.	.130

Tests the null hypothesis that the observed covariance matrices of the dependent variables are equal across groups.

a. Design: Intercept + Groups
Within Subjects Design: emotion

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df
emotion	Pillai's Trace	.224	8.658 ^b	1.000	30.000
	Wilks' Lambda	.776	8.658 ^b	1.000	30.000
	Hotelling's Trace	.289	8.658 ^b	1.000	30.000
	Roy's Largest Root	.289	8.658 ^b	1.000	30.000
emotion * Groups	Pillai's Trace	.009	.282 ^b	1.000	30.000
	Wilks' Lambda	.991	.282 ^b	1.000	30.000
	Hotelling's Trace	.009	.282 ^b	1.000	30.000
	Roy's Largest Root	.009	.282 ^b	1.000	30.000

Multivariate Tests^a

Effect		Sig.
emotion	Pillai's Trace	.006
	Wilks' Lambda	.006
	Hotelling's Trace	.006
	Roy's Largest Root	.006
emotion * Groups	Pillai's Trace	.600
	Wilks' Lambda	.600
	Hotelling's Trace	.600
	Roy's Largest Root	.600

a. Design: Intercept + Groups
Within Subjects Design: emotion

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
emotion	1.000	.000	0	.	1.000

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Within Subjects Effect	Epsilon ^b	
	Huynh-Feldt	Lower-bound
emotion	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 + Groups
Within Subjects Design: emotion

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	F
emotion	Sphericity Assumed	58.141	1	58.141	8.658
	Greenhouse-Geisser	58.141	1.000	58.141	8.658
	Huynh-Feldt	58.141	1.000	58.141	8.658
	Lower-bound	58.141	1.000	58.141	8.658
emotion * Groups	Sphericity Assumed	1.891	1	1.891	.282
	Greenhouse-Geisser	1.891	1.000	1.891	.282
	Huynh-Feldt	1.891	1.000	1.891	.282
	Lower-bound	1.891	1.000	1.891	.282
Error(emotion)	Sphericity Assumed	201.469	30	6.716	
	Greenhouse-Geisser	201.469	30.000	6.716	
	Huynh-Feldt	201.469	30.000	6.716	
	Lower-bound	201.469	30.000	6.716	

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Sig.
emotion	Sphericity Assumed	.006
	Greenhouse-Geisser	.006
	Huynh-Feldt	.006
	Lower-bound	.006
emotion * Groups	Sphericity Assumed	.600
	Greenhouse-Geisser	.600
	Huynh-Feldt	.600
	Lower-bound	.600
Error(emotion)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
emotion	Linear	58.141	1	58.141	8.658	.006
emotion * Groups	Linear	1.891	1	1.891	.282	.600
Error(emotion)	Linear	201.469	30	6.716		

Levene's Test of Equality of Error Variances^a

		Levene Statistic	df1	df2	Sig.
HA_faces	Based on Mean	.036	1	30	.850
	Based on Median	.034	1	30	.854
	Based on Median and with adjusted df	.034	1	29.264	.854
	Based on trimmed mean	.061	1	30	.807
SA_faces	Based on Mean	3.734	1	30	.063
	Based on Median	3.257	1	30	.081
	Based on Median and with adjusted df	3.257	1	21.644	.085
	Based on trimmed mean	3.461	1	30	.073

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Groups
Within Subjects Design: emotion

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	20988.766	1	20988.766	2109.645	.000
Groups	8.266	1	8.266	.831	.369
Error	298.469	30	9.949		

Estimated Marginal Means

1. Groups

Estimates

Measure: MEASURE_1

Groups	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
neutral primer	17.750	.558	16.611	18.889
sad primer	18.469	.558	17.330	19.607

Pairwise Comparisons

Measure: MEASURE_1

(I) Groups	(J) Groups	Mean Difference (I-J)	Std. Error	Sig. ^a	95% Confidence Int...
					Lower Bound
neutral primer	sad primer	-.719	.789	.369	-2.329
sad primer	neutral primer	.719	.789	.369	-.892

Pairwise Comparisons

Measure: MEASURE_1

(I) Groups	(J) Groups	95% Confidence Interval for ^a ...
		Upper Bound
neutral primer	sad primer	.892
sad primer	neutral primer	2.329

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Univariate Tests

Measure: MEASURE_1

	Sum of Squares	df	Mean Square	F	Sig.
Contrast	4.133	1	4.133	.831	.369
Error	149.234	30	4.974		

The F tests the effect of Groups. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.

2. emotion

Estimates

Measure: MEASURE_1

emotion	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	19.063	.521	17.998	20.127
2	17.156	.499	16.137	18.176

Pairwise Comparisons

Measure: MEASURE_1

(I) emotion	(J) emotion	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
1	2	1.906 [*]	.648	.006	.583	3.229
2	1	-1.906 [*]	.648	.006	-3.229	-.583

Based on estimated marginal means

*. The mean difference is significant at the .05 level.

b. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.
Pillai's trace	.224	8.658 ^a	1.000	30.000	.006
Wilks' lambda	.776	8.658 ^a	1.000	30.000	.006
Hotelling's trace	.289	8.658 ^a	1.000	30.000	.006
Roy's largest root	.289	8.658 ^a	1.000	30.000	.006

Each F tests the multivariate effect of emotion. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic