```
 DATASET ACTIVATE DataSet5.
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 22:07:19
Comments		
Input	Data	D:\Documents\disengage_task.sav
	Active Dataset	DataSet5
	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	00:00:00.05
	Elapsed Time	00:00:00.03

[DataSet5] D:\Documents\disengage_task.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

	Groups	Mean	Std. Deviation	N
HA_faces	Neutral Primer	462.2400	393.98385	16
	Sad Primer	450.6250	201.63439	16
	Total	456.4325	307.92096	32
SA_faces	Neutral Primer	385.7319	164.13427	16
	Sad Primer	404.2556	289.42156	16
	Total	394.9938	231.63643	32

Box's Test of Equality of Covariance Matrices[a]

Box's M	12.888
F	3.986
df1	3
df2	162000.000
Sig.	.008

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	.038	1.197[b]	1.000	30.000
	Wilks' Lambda	.962	1.197[b]	1.000	30.000
	Hotelling's Trace	.040	1.197[b]	1.000	30.000
	Roy's Largest Root	.040	1.197[b]	1.000	30.000
Emotion * Groups	Pillai's Trace	.002	.072[b]	1.000	30.000
	Wilks' Lambda	.998	.072[b]	1.000	30.000
	Hotelling's Trace	.002	.072[b]	1.000	30.000
	Roy's Largest Root	.002	.072[b]	1.000	30.000

Multivariate Tests[a]

Effect		Sig.
Emotion	Pillai's Trace	.283
	Wilks' Lambda	.283
	Hotelling's Trace	.283
	Roy's Largest Root	.283
Emotion * Groups	Pillai's Trace	.790
	Wilks' Lambda	.790
	Hotelling's Trace	.790
	Roy's Largest Root	.790

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	60395.520	1	60395.520	1.197
	Greenhouse-Geisser	60395.520	1.000	60395.520	1.197
	Huynh-Feldt	60395.520	1.000	60395.520	1.197
	Lower-bound	60395.520	1.000	60395.520	1.197
Emotion * Groups	Sphericity Assumed	3633.377	1	3633.377	.072
	Greenhouse-Geisser	3633.377	1.000	3633.377	.072
	Huynh-Feldt	3633.377	1.000	3633.377	.072
	Lower-bound	3633.377	1.000	3633.377	.072
Error(Emotion)	Sphericity Assumed	1513054.993	30	50435.166	
	Greenhouse-Geisser	1513054.993	30.000	50435.166	
	Huynh-Feldt	1513054.993	30.000	50435.166	
	Lower-bound	1513054.993	30.000	50435.166	

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Sig.
Emotion	Sphericity Assumed	.283
	Greenhouse-Geisser	.283
	Huynh-Feldt	.283
	Lower-bound	.283
Emotion * Groups	Sphericity Assumed	.790
	Greenhouse-Geisser	.790
	Huynh-Feldt	.790
	Lower-bound	.790
Error(Emotion)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	Emotion	Type III Sum of Squares	df	Mean Square	F	Sig.
Emotion	Linear	60395.520	1	60395.520	1.197	.283
Emotion * Groups	Linear	3633.377	1	3633.377	.072	.790
Error(Emotion)	Linear	1513054.993	30	50435.166		

Levene's Test of Equality of Error Variances[a]

		Levene Statistic	df1	df2	Sig.
HA_faces	Based on Mean	1.690	1	30	.204
	Based on Median	.361	1	30	.553
	Based on Median and with adjusted df	.361	1	19.576	.555
	Based on trimmed mean	.983	1	30	.329
SA_faces	Based on Mean	.238	1	30	.629
	Based on Median	.086	1	30	.772
	Based on Median and with adjusted df	.086	1	22.685	.772
	Based on trimmed mean	.063	1	30	.803

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	11598826.55	1	11598826.55	112.766	.000
Groups	190.923	1	190.923	.002	.966
Error	3085714.063	30	102857.135		

Estimated Marginal Means

1. Groups

Estimates

Measure: MEASURE_1

Groups	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
Neutral Primer	423.986	56.695	308.200	539.772
Sad Primer	427.440	56.695	311.654	543.226

Pairwise Comparisons

Measure: MEASURE_1

(I) Groups	(J) Groups	Mean Difference (I-J)	Std. Error	Sig.[a]	95% Confidence [a]... Lower Bound
Neutral Primer	Sad Primer	-3.454	80.178	.966	-167.200
Sad Primer	Neutral Primer	3.454	80.178	.966	-160.292

Pairwise Comparisons

Measure: MEASURE_1

(I) Groups	(J) Groups	95% Confidence Interval for [a]... Upper Bound
Neutral Primer	Sad Primer	160.292
Sad Primer	Neutral Primer	167.200

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	95.462	1	95.462	.002	.966
Error	1542857.031	30	51428.568		

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	95% Confidence Interval Upper Bound
1	456.433	55.323	343.448	569.417
2	394.994	41.590	310.055	479.933

Pairwise Comparisons

Measure: MEASURE_1

(I) Emotion	(J) Emotion	Mean Difference (I-J)	Std. Error	Sig.[a]	95% Confidence Interval for Difference[a]	
					Lower Bound	Upper Bound
1	2	61.439	56.144	.283	-53.223	176.101
2	1	-61.439	56.144	.283	-176.101	53.223

Based on estimated marginal means

a. Adjustment for multiple comparisons: Bonferroni.

Multivariate Tests

	Value	F	Hypothesis df	Error df	Sig.
Pillai's trace	.038	1.197[a]	1.000	30.000	.283
Wilks' lambda	.962	1.197[a]	1.000	30.000	.283
Hotelling's trace	.040	1.197[a]	1.000	30.000	.283
Roy's largest root	.040	1.197[a]	1.000	30.000	.283

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