USE ALL.

COMPUTE filter\_$=(participant ~= 6 & participant ~= 12).

VARIABLE LABELS filter\_$ 'participant ~= 6 & participant ~= 12 (FILTER)'.

VALUE LABELS filter\_$ 0 'Not Selected' 1 'Selected'.

FORMATS filter\_$ (f1.0).

FILTER BY filter\_$.

EXECUTE.

T-TEST PAIRS=GOValidcueRT WITH GOInvalidcueRT (PAIRED)

/CRITERIA=CI(.9500)

/MISSING=ANALYSIS.

**T-Test**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 01-JUL-2014 11:31:25 |
| Comments | |  |
| Input | Active Dataset | DataSet0 |
| Filter | participant ~= 6 & participant ~= 12 (FILTER) |
| Weight | <none> |
| Split File | <none> |
| N of Rows in Working Data File | 12 |
| 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=GOValidcueRT WITH GOInvalidcueRT (PAIRED)  /CRITERIA=CI(.9500)  /MISSING=ANALYSIS. |
| Resources | Processor Time | 00:00:00.02 |
| Elapsed Time | 00:00:00.03 |

[DataSet0]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paired Samples Statistics** | | | | | |
|  | | Mean | N | Std. Deviation | Std. Error Mean |
| Pair 1 | GOValidcueRT | 312.3808 | 12 | 36.89759 | 10.65142 |
| GOInvalidcueRT | 327.2258 | 12 | 45.81397 | 13.22535 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Paired Samples Correlations** | | | | |
|  | | N | Correlation | Sig. |
| Pair 1 | GOValidcueRT & GOInvalidcueRT | 12 | .911 | .000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paired Samples Test** | | | | | |
|  | | Paired Differences | | | |
| Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |
| Lower |
| Pair 1 | GOValidcueRT - GOInvalidcueRT | -14.84500 | 19.47223 | 5.62115 | -27.21707 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paired Samples Test** | | | | | |
|  | | Paired Differences | t | df | Sig. (2-tailed) |
| 95% Confidence Interval of the Difference |
| Upper |
| Pair 1 | GOValidcueRT - GOInvalidcueRT | -2.47293 | -2.641 | 11 | .023 |

GLM GOvalidcueACC GOinvalidcueACC NOGOvalidcueACC NOGOinvalidcueACC

/WSFACTOR=GONOGO 2 Polynomial ValidInvalidCUE 2 Polynomial

/METHOD=SSTYPE(3)

/PLOT=PROFILE(ValidInvalidCUE\*GONOGO)

/EMMEANS=TABLES(OVERALL)

/EMMEANS=TABLES(GONOGO)

/EMMEANS=TABLES(ValidInvalidCUE)

/EMMEANS=TABLES(GONOGO\*ValidInvalidCUE)

/PRINT=DESCRIPTIVE

/CRITERIA=ALPHA(.05)

/WSDESIGN=GONOGO ValidInvalidCUE GONOGO\*ValidInvalidCUE.

**This RT comparison (Go trials) would appear as: t(11) = -2.64, p = .023**

**General Linear Model**

[DataSet0]

|  |  |  |
| --- | --- | --- |
| **Within-Subjects Factors** | | |
| Measure: MEASURE\_1 | | |
| GONOGO | ValidInvalidCUE | Dependent Variable |
| 1 | 1 | GOvalidcueACC |
| 2 | GOinvalidcueACC |
| 2 | 1 | NOGOvalidcueACC |
| 2 | NOGOinvalidcueACC |

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptive Statistics** | | | |
|  | Mean | Std. Deviation | N |
| GOvalidcueACC | .9958 | .01165 | 12 |
| GOinvalidcueACC | .9958 | .01443 | 12 |
| NOGOvalidcueACC | .9833 | .02060 | 12 |
| NOGOinvalidcueACC | .9583 | .05967 | 12 |

|  |
| --- |
| Tests the null hypothesis that the error covariance matrix of the orthonormalized transformed dependent variables is proportional to an identity matrix.a |
| a. Design: Intercept  Within Subjects Design: GONOGO + ValidInvalidCUE + GONOGO \* ValidInvalidCUE |
| 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. |

GoNogo: F(1,11) = 5.85, p = .034

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Effects** | | | | | |
| Measure: MEASURE\_1 | | | | | |
| Source | | Type III Sum of Squares | df | Mean Square | F |
| GONOGO | Sphericity Assumed | .007 | **1** | **.007** | **5.851** |
| Greenhouse-Geisser | .007 | 1.000 | .007 | 5.851 |
| Huynh-Feldt | .007 | 1.000 | .007 | 5.851 |
| Lower-bound | .007 | 1.000 | .007 | 5.851 |
| Error(GONOGO) | Sphericity Assumed | .014 | **11** | .001 |  |
| Greenhouse-Geisser | .014 | 11.000 | .001 |  |
| Huynh-Feldt | .014 | 11.000 | .001 |  |
| Lower-bound | .014 | 11.000 | .001 |  |
| ValidInvalidCUE | Sphericity Assumed | .002 | 1 | .002 | 2.260 |
| Greenhouse-Geisser | .002 | 1.000 | .002 | 2.260 |
| Huynh-Feldt | .002 | 1.000 | .002 | 2.260 |
| Lower-bound | .002 | 1.000 | .002 | 2.260 |
| Error(ValidInvalidCUE) | Sphericity Assumed | .009 | 11 | .001 |  |
| Greenhouse-Geisser | .009 | 11.000 | .001 |  |
| Huynh-Feldt | .009 | 11.000 | .001 |  |
| Lower-bound | .009 | 11.000 | .001 |  |
| GONOGO \* ValidInvalidCUE | Sphericity Assumed | .002 | 1 | .002 | 2.121 |
| Greenhouse-Geisser | .002 | 1.000 | .002 | 2.121 |
| Huynh-Feldt | .002 | 1.000 | .002 | 2.121 |
| Lower-bound | .002 | 1.000 | .002 | 2.121 |
| Error(GONOGO\*ValidInvalidCUE) | Sphericity Assumed | .010 | 11 | .001 |  |
| Greenhouse-Geisser | .010 | 11.000 | .001 |  |
| Huynh-Feldt | .010 | 11.000 | .001 |  |
| Lower-bound | .010 | 11.000 | .001 |  |

|  |  |  |
| --- | --- | --- |
| **Tests of Within-Subjects Effects** | | |
| Measure: MEASURE\_1 | | |
| Source | | Sig. |
| GONOGO | Sphericity Assumed | .034 |
| Greenhouse-Geisser | .034 |
| Huynh-Feldt | .034 |
| Lower-bound | .034 |
| Error(GONOGO) | Sphericity Assumed |  |
| Greenhouse-Geisser |  |
| Huynh-Feldt |  |
| Lower-bound |  |
| ValidInvalidCUE | Sphericity Assumed | .161 |
| Greenhouse-Geisser | .161 |
| Huynh-Feldt | .161 |
| Lower-bound | .161 |
| Error(ValidInvalidCUE) | Sphericity Assumed |  |
| Greenhouse-Geisser |  |
| Huynh-Feldt |  |
| Lower-bound |  |
| GONOGO \* ValidInvalidCUE | Sphericity Assumed | .173 |
| Greenhouse-Geisser | .173 |
| Huynh-Feldt | .173 |
| Lower-bound | .173 |
| Error(GONOGO\*ValidInvalidCUE) | Sphericity Assumed |  |
| Greenhouse-Geisser |  |
| Huynh-Feldt |  |
| Lower-bound |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | | |
| Measure: MEASURE\_1 | | | | | |
| Source | GONOGO | ValidInvalidCUE | Type III Sum of Squares | df | Mean Square |
| GONOGO | Linear |  | .007 | 1 | .007 |
| Error(GONOGO) | Linear |  | .014 | 11 | .001 |
| ValidInvalidCUE |  | Linear | .002 | 1 | .002 |
| Error(ValidInvalidCUE) |  | Linear | .009 | 11 | .001 |
| GONOGO \* ValidInvalidCUE | Linear | Linear | .002 | 1 | .002 |
| Error(GONOGO\*ValidInvalidCUE) | Linear | Linear | .010 | 11 | .001 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tests of Within-Subjects Contrasts** | | | | |
| Measure: MEASURE\_1 | | | | |
| Source | GONOGO | ValidInvalidCUE | F | Sig. |
| GONOGO | Linear |  | 5.851 | .034 |
| Error(GONOGO) | Linear |  |  |  |
| ValidInvalidCUE |  | Linear | 2.260 | .161 |
| Error(ValidInvalidCUE) |  | Linear |  |  |
| GONOGO \* ValidInvalidCUE | Linear | Linear | 2.121 | .173 |
| Error(GONOGO\*ValidInvalidCUE) | Linear | Linear |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Tests of Between-Subjects Effects** | | | | | |
| Measure: MEASURE\_1  Transformed Variable: Average | | | | | |
| Source | Type III Sum of Squares | df | Mean Square | F | Sig. |
| Intercept | 46.413 | 1 | 46.413 | 34810.000 | .000 |
| Error | .015 | 11 | .001 |  |  |

**Estimated Marginal Means**

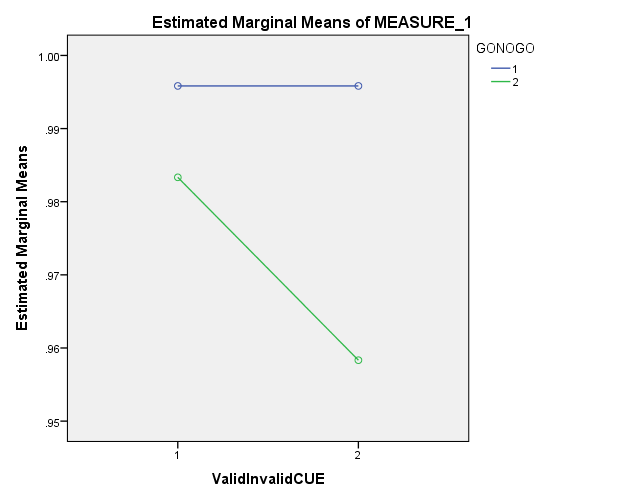
|  |  |  |  |
| --- | --- | --- | --- |
| **1. Grand Mean** | | | |
| Measure: MEASURE\_1 | | | |
| Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| .983 | .005 | .972 | .995 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **2. GONOGO** | | | | |
| Measure: MEASURE\_1 | | | | |
| GONOGO | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | .996 | .003 | .990 | 1.001 |
| 2 | .971 | .010 | .949 | .993 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **3. ValidInvalidCUE** | | | | |
| Measure: MEASURE\_1 | | | | |
| ValidInvalidCUE | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | .990 | .003 | .983 | .997 |
| 2 | .977 | .009 | .957 | .997 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **4. GONOGO \* ValidInvalidCUE** | | | | | |
| Measure: MEASURE\_1 | | | | | |
| GONOGO | ValidInvalidCUE | Mean | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 1 | 1 | .996 | .003 | .988 | 1.003 |
| 2 | .996 | .004 | .987 | 1.005 |
| 2 | 1 | .983 | .006 | .970 | .996 |
| 2 | .958 | .017 | .920 | .996 |

**Profile Plots**



**Go/No-Go: F(1,11) = 5.85, p = .034**

**Validity: F(1,11) = 2.26, p = .16 (ns)**

**Go/No-Go by Cue Validity: F(1,11) = 2.12, p = .17 (ns)**

T-TEST PAIRS=NOGOvalidcueACC WITH NOGOinvalidcueACC (PAIRED)

/CRITERIA=CI(.9500)

/MISSING=ANALYSIS.

**T-Test**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paired Samples Statistics** | | | | | |
|  | | Mean | N | Std. Deviation | Std. Error Mean |
| Pair 1 | NOGOvalidcueACC | .9833 | 12 | .02060 | .00595 |
| NOGOinvalidcueACC | .9583 | 12 | .05967 | .01723 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Paired Samples Correlations** | | | | |
|  | | N | Correlation | Sig. |
| Pair 1 | NOGOvalidcueACC & NOGOinvalidcueACC | 12 | .382 | .220 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paired Samples Test** | | | | | |
|  | | Paired Differences | | | |
| Mean | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |
| Lower |
| Pair 1 | NOGOvalidcueACC - NOGOinvalidcueACC | .02500 | .05519 | .01593 | -.01006 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paired Samples Test** | | | | | |
|  | | Paired Differences | t | df | Sig. (2-tailed) |
| 95% Confidence Interval of the Difference |
| Upper |
| Pair 1 | NOGOvalidcueACC - NOGOinvalidcueACC | .06006 | 1.569 | 11 | .145 |

**Reads: t(11) = 1.57, p = .145 (ns)**

The validity of the cue did not differentially influence accuracy for No-Go trials.