

```

NEW FILE.
DATASET NAME DataSet6 WINDOW=FRONT.
PRESERVE.
SET DECIMAL DOT.

GET DATA /TYPE=TXT
  /FILE="E:\Data Science and Coding\Python\Projects\Final Year Project Analysis\
eeg_analysis\post_field_trip_processing\right_target_P200.csv"
  /ENCODING='UTF8'
  /DELIMITERS=", "
  /QUALIFIER='"'
  /ARRANGEMENT=DELIMITED
  /FIRSTCASE=2
  /DATATYPEMIN PERCENTAGE=95.0
  /VARIABLES=
    cueValid_silence AUTO
    cueValid_white AUTO
    cueValid_lofi AUTO
    cueInvalid_silence AUTO
    cueInvalid_white AUTO
    cueInvalid_lofi AUTO
  /MAP.
RESTORE.
CACHE.
EXECUTE.

```

Data written to the working file.

6 variables and 11 cases written.

```

Variable: cueValid_silence    Type: Number    Format : F19.16
Variable: cueValid_white     Type: Number    Format : F19.16
Variable: cueValid_lofi      Type: Number    Format : F19.16
Variable: cueInvalid_silence Type: Number    Format : F19.16
Variable: cueInvalid_white   Type: Number    Format : F18.16
Variable: cueInvalid_lofi    Type: Number    Format : F19.16

```

```
DATASET NAME DataSet7 WINDOW=FRONT.
```

```

GLM cueValid_silence cueValid_white cueValid_lofi cueInvalid_silence cueInvalid_
white
  cueInvalid_lofi
  /WSFACTOR=cue_validity 2 Polynomial sound_condition 3 Polynomial
  /METHOD=SSTYPE(3)

```

```

/PLOT=PROFILE(sound_condition*cue_validity) TYPE=LINE ERRORBAR=NO MEANREFERE
NCE=NO YAXIS=AUTO
/EMMEANS=TABLES(cue_validity)
/EMMEANS=TABLES(sound_condition)
/EMMEANS=TABLES(cue_validity*sound_condition)
/PRINT=DESCRIPTIVE
/CRITERIA=ALPHA(.05)
/WSDESIGN=cue_validity sound_condition cue_validity*sound_condition.

```

General Linear Model

[DataSet7]

Within-Subjects Factors

Measure: MEASURE_1

cue_validity	sound_condition	Dependent Variable
1	1	cueValid_silence
	2	cueValid_white
	3	cueValid_lofi
2	1	cueInvalid_silence
	2	cueInvalid_white
	3	cueInvalid_lofi

Descriptive Statistics

	Mean	Std. Deviation	N
cueValid_silence	4.611563464	3.642905512	11
cueValid_white	4.898967784	2.678544803	11
cueValid_lofi	5.349579318	4.155748575	11
cueInvalid_silence	3.797002217	2.530590989	11
cueInvalid_white	4.008005799	4.340751228	11
cueInvalid_lofi	4.177183773	4.190466439	11

Multivariate Tests^a

Effect		Value	F	Hypothesis df	Error df
cue_validity	Pillai's Trace	.264	3.587 ^b	1.000	10.000
	Wilks' Lambda	.736	3.587 ^b	1.000	10.000
	Hotelling's Trace	.359	3.587 ^b	1.000	10.000
	Roy's Largest Root	.359	3.587 ^b	1.000	10.000
sound_condition	Pillai's Trace	.065	.314 ^b	2.000	9.000
	Wilks' Lambda	.935	.314 ^b	2.000	9.000
	Hotelling's Trace	.070	.314 ^b	2.000	9.000
	Roy's Largest Root	.070	.314 ^b	2.000	9.000
cue_validity * sound_condition	Pillai's Trace	.019	.087 ^b	2.000	9.000
	Wilks' Lambda	.981	.087 ^b	2.000	9.000
	Hotelling's Trace	.019	.087 ^b	2.000	9.000
	Roy's Largest Root	.019	.087 ^b	2.000	9.000

Multivariate Tests^a

Effect		Sig.
cue_validity	Pillai's Trace	.088
	Wilks' Lambda	.088
	Hotelling's Trace	.088
	Roy's Largest Root	.088
sound_condition	Pillai's Trace	.738
	Wilks' Lambda	.738
	Hotelling's Trace	.738
	Roy's Largest Root	.738
cue_validity * sound_condition	Pillai's Trace	.917
	Wilks' Lambda	.917
	Hotelling's Trace	.917
	Roy's Largest Root	.917

a. Design: Intercept

Within Subjects Design: cue_validity + sound_condition + cue_validity * sound_condition

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
cue_validity	1.000	.000	0	.	1.000
sound_condition	.824	1.740	2	.419	.850
cue_validity * sound_condition	.664	3.691	2	.158	.748

Mauchly's Test of Sphericity^a

Measure: MEASURE_1

Within Subjects Effect	Epsilon ^b	
	Huynh-Feldt	Lower-bound
cue_validity	1.000	1.000
sound_condition	1.000	.500
cue_validity * sound_condition	.850	.500

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: cue_validity + sound_condition + cue_validity * sound_condition

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
cue_validity	Sphericity Assumed	15.184	1	15.184	3.587
	Greenhouse-Geisser	15.184	1.000	15.184	3.587
	Huynh-Feldt	15.184	1.000	15.184	3.587
	Lower-bound	15.184	1.000	15.184	3.587
Error(cue_validity)	Sphericity Assumed	42.337	10	4.234	
	Greenhouse-Geisser	42.337	10.000	4.234	
	Huynh-Feldt	42.337	10.000	4.234	
	Lower-bound	42.337	10.000	4.234	
sound_condition	Sphericity Assumed	3.452	2	1.726	.422
	Greenhouse-Geisser	3.452	1.701	2.029	.422
	Huynh-Feldt	3.452	2.000	1.726	.422
	Lower-bound	3.452	1.000	3.452	.422
Error(sound_condition)	Sphericity Assumed	81.736	20	4.087	
	Greenhouse-Geisser	81.736	17.010	4.805	
	Huynh-Feldt	81.736	20.000	4.087	
	Lower-bound	81.736	10.000	8.174	
cue_validity * sound_condition	Sphericity Assumed	.391	2	.195	.041
	Greenhouse-Geisser	.391	1.497	.261	.041
	Huynh-Feldt	.391	1.701	.230	.041
	Lower-bound	.391	1.000	.391	.041
Error (cue_validity*sound_conditi on)	Sphericity Assumed	95.889	20	4.794	
	Greenhouse-Geisser	95.889	14.965	6.407	
	Huynh-Feldt	95.889	17.007	5.638	
	Lower-bound	95.889	10.000	9.589	

Tests of Within-Subjects Effects

Measure: MEASURE_1

Source		Sig.
cue_validity	Sphericity Assumed	.088
	Greenhouse-Geisser	.088
	Huynh-Feldt	.088
	Lower-bound	.088
Error(cue_validity)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	
sound_condition	Sphericity Assumed	.661
	Greenhouse-Geisser	.630
	Huynh-Feldt	.661
	Lower-bound	.530
Error(sound_condition)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	
cue_validity * sound_condition	Sphericity Assumed	.960
	Greenhouse-Geisser	.922
	Huynh-Feldt	.941
	Lower-bound	.844
Error (cue_validity*sound_conditi on)	Sphericity Assumed	
	Greenhouse-Geisser	
	Huynh-Feldt	
	Lower-bound	

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	cue_validity	sound_condition	Type III Sum of Squares	df	Mean Square
cue_validity	Linear		15.184	1	15.184
Error(cue_validity)	Linear		42.337	10	4.234
sound_condition		Linear	3.439	1	3.439
		Quadratic	.014	1	.014
Error(sound_condition)		Linear	55.163	10	5.516
		Quadratic	26.573	10	2.657
cue_validity * sound_condition	Linear	Linear	.352	1	.352
		Quadratic	.039	1	.039
Error (cue_validity*sound_condition)	Linear	Linear	27.209	10	2.721
		Quadratic	68.680	10	6.868

Tests of Within-Subjects Contrasts

Measure: MEASURE_1

Source	cue_validity	sound_condition	F	Sig.
cue_validity	Linear		3.587	.088
Error(cue_validity)	Linear			
sound_condition		Linear	.623	.448
		Quadratic	.005	.945
Error(sound_condition)		Linear		
		Quadratic		
cue_validity * sound_condition	Linear	Linear	.129	.727
		Quadratic	.006	.942
Error (cue_validity*sound_condition)	Linear	Linear		
		Quadratic		

Tests of Between-Subjects Effects

Measure: MEASURE_1

Transformed Variable: Average

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Intercept	1320.934	1	1320.934	22.570	.001
Error	585.255	10	58.525		

Estimated Marginal Means

1. cue_validity

Measure: MEASURE_1

cue_validity	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	4.953	.974	2.782	7.125
2	3.994	.976	1.820	6.168

2. sound_condition

Measure: MEASURE_1

sound_condition	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
1	4.204	.788	2.448	5.961
2	4.453	.999	2.228	6.679
3	4.763	1.189	2.115	7.412

3. cue_validity * sound_condition

Measure: MEASURE_1

cue_validity	sound_condition	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
1	1	4.612	1.098	2.164	7.059
	2	4.899	.808	3.099	6.698
	3	5.350	1.253	2.558	8.141
2	1	3.797	.763	2.097	5.497
	2	4.008	1.309	1.092	6.924
	3	4.177	1.263	1.362	6.992

Profile Plots

