

Results : Sensitivity (d-prime)

Repeated Measures ANOVA

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
Probe Type	0.01499	1	0.01499	0.02170	0.884	0.001
Probe Type * YesKey	0.00220	1	0.00220	0.00318	0.956	0.000
Residual	13.12349	19	0.69071			
Compatibility	71.76098	1	71.76098	83.59729	< .001	0.815
Compatibility * YesKey	0.21495	1	0.21495	0.25041	0.623	0.013
Residual	16.30984	19	0.85841			
Presentation Time	62.74341	5	12.54868	37.27613	< .001	0.662
Presentation Time * YesKey	2.23012	5	0.44602	1.32492	0.260	0.065
Residual	31.98091	95	0.33664			
Probe Type * Compatibility	51.69345	1	51.69345	76.63277	< .001	0.801
Probe Type * Compatibility * YesKey	0.31920	1	0.31920	0.47320	0.500	0.024
Residual	12.81665	19	0.67456			
Probe Type * Presentation Time	4.36758	5	0.87352	1.89472	0.102	0.091
Probe Type * Presentation Time * YesKey	5.27116	5	1.05423	2.28670	0.052	0.107
Residual	43.79755	95	0.46103			
Compatibility * Presentation Time	15.85659	5	3.17132	5.84134	< .001	0.235
Compatibility * Presentation Time * YesKey	0.20661	5	0.04132	0.07611	0.996	0.004
Residual	51.57637	95	0.54291			
Probe Type * Compatibility * Presentation Time	15.25768	5	3.05154	6.19535	< .001	0.246
Probe Type * Compatibility * Presentation Time * YesKey	0.91112	5	0.18222	0.36996	0.868	0.019
Residual	46.79250	95	0.49255			

Note. Type 3 Sums of Squares

[3]

Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
YesKey	3.25	1	3.25	1.26	0.276	0.062
Residual	49.17	19	2.59			

Note. Type 3 Sums of Squares

Assumptions

Tests of Sphericity

	Mauchly's W	p	Greenhouse-Geisser ϵ	Huynh-Feldt ϵ
Probe Type	1.000	NaN ^a	1.000	1.000
Compatibility	1.000	NaN ^a	1.000	1.000
Presentation Time	0.429	0.421	0.772	0.993
Probe Type * Compatibility	1.000	NaN ^a	1.000	1.000
Probe Type * Presentation Time	0.612	0.870	0.883	1.000
Compatibility * Presentation Time	0.206	0.020	0.736	0.935
Probe Type * Compatibility * Presentation Time	0.563	0.778	0.824	1.000

^a The repeated measures has only two levels. The assumption of sphericity is always met when the repeated measures has only two levels.

Repeated Measures ANOVA

Action probes

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
Presentation Time	44.95761	5	8.99152	19.1290	< .001	0.502
Presentation Time * YesKey	4.50167	5	0.90033	1.9154	0.099	0.092
Residual	44.65453	95	0.47005			
Compatibility	0.82095	1	0.82095	5.0699	0.036	0.211
Compatibility * YesKey	0.00514	1	0.00514	0.0317	0.861	0.002
Residual	3.07661	19	0.16193			
Presentation Time * Compatibility	3.14966	5	0.62993	1.1616	0.334	0.058
Presentation Time * Compatibility * YesKey	0.25747	5	0.05149	0.0950	0.993	0.005
Residual	51.52020	95	0.54232			

Note. Type 3 Sums of Squares

[3]

Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
YesKey	1.71	1	1.71	1.34	0.261	0.066
Residual	24.25	19	1.28			

Note. Type 3 Sums of Squares

Repeated Measures ANOVA

Scene probes

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
Presentation Time	22.153	5	4.431	13.524	< .001	0.416
Presentation Time * YesKey	3.000	5	0.600	1.831	0.114	0.088
Residual	31.124	95	0.328			
Compatibility	122.633	1	122.633	89.445	< .001	0.825
Compatibility * YesKey	0.529	1	0.529	0.386	0.542	0.020
Residual	26.050	19	1.371			
Presentation Time * Compatibility	27.965	5	5.593	11.341	< .001	0.374
Presentation Time * Compatibility * YesKey	0.860	5	0.172	0.349	0.882	0.018
Residual	46.849	95	0.493			

Note. Type 3 Sums of Squares

[3]

Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
YesKey	1.54	1	1.54	0.770	0.391	0.039
Residual	38.04	19	2.00			

Note. Type 3 Sums of Squares

References

- [1] The jamovi project (2022). *jamovi*. (Version 2.3) [Computer Software]. Retrieved from <https://www.jamovi.org>.
- [2] R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.1) [Computer software]. Retrieved from <https://cran.r-project.org>. (R packages retrieved from MRAN snapshot 2022-01-01).
- [3] Singmann, H. (2018). *afex: Analysis of Factorial Experiments*. [R package]. Retrieved from <https://cran.r-project.org/package=afex>.