

## Results : Sensitivity (d-prime) (corrected: 05.09.22)

### Repeated Measures ANOVA

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p	$\eta^2_p$
Probe Type	0.0235	1	0.0235	0.0303	0.864	0.002
Probe Type * YesKey	0.5251	1	0.5251	0.6759	0.421	0.034
Residual	14.7599	19	0.7768			
Compatibility	75.1080	1	75.1080	90.3579	< .001	0.826
Compatibility * YesKey	0.5946	1	0.5946	0.7153	0.408	0.036
Residual	15.7933	19	0.8312			
Presentation Time	76.3404	5	15.2681	54.0781	< .001	0.740
Presentation Time * YesKey	2.0348	5	0.4070	1.4414	0.217	0.071
Residual	26.8217	95	0.2823			
Probe Type * Compatibility	64.7497	1	64.7497	88.2133	< .001	0.823
Probe Type * Compatibility * YesKey	0.0131	1	0.0131	0.0179	0.895	0.001
Residual	13.9462	19	0.7340			
Probe Type * Presentation Time	6.8393	5	1.3679	3.3666	0.008	0.151
Probe Type * Presentation Time * YesKey	2.1348	5	0.4270	1.0508	0.393	0.052
Residual	38.5988	95	0.4063			
Compatibility * Presentation Time	24.2632	5	4.8526	12.8629	< .001	0.404
Compatibility * Presentation Time * YesKey	0.3158	5	0.0632	0.1674	0.974	0.009
Residual	35.8395	95	0.3773			
Probe Type * Compatibility * Presentation Time	11.9651	5	2.3930	6.4409	< .001	0.253
Probe Type * Compatibility * Presentation Time * YesKey	1.2894	5	0.2579	0.6941	0.629	0.035
Residual	35.2962	95	0.3715			

Note. Type 3 Sums of Squares

[3]

Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	$\eta^2_p$
YesKey	3.08	1	3.08	1.14	0.300	0.056
Residual	51.46	19	2.71			

Note. Type 3 Sums of Squares

### Assumptions

## Tests of Sphericity

	Mauchly's W	p	Greenhouse-Geisser $\epsilon$	Huynh-Feldt $\epsilon$
Probe Type	1.000	NaN <sup>a</sup>	1.000	1.000
Compatibility	1.000	NaN <sup>a</sup>	1.000	1.000
Presentation Time	0.593	0.837	0.820	1.000
Probe Type * Compatibility	1.000	NaN <sup>a</sup>	1.000	1.000
Probe Type * Presentation Time	0.519	0.674	0.816	1.000
Compatibility * Presentation Time	0.368	0.257	0.782	1.000
Probe Type * Compatibility * Presentation Time	0.507	0.642	0.775	0.999

<sup>a</sup> 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	$\eta^2_p$
Presentation Time	59.116	5	11.823	30.916	< .001	0.619
Presentation Time * YesKey	2.477	5	0.495	1.295	0.273	0.064
Residual	36.331	95	0.382			
Compatibility	0.192	1	0.192	1.480	0.239	0.072
Compatibility * YesKey	0.216	1	0.216	1.661	0.213	0.080
Residual	2.466	19	0.130			
Presentation Time * Compatibility	3.306	5	0.661	1.827	0.115	0.088
Presentation Time * Compatibility * YesKey	1.341	5	0.268	0.741	0.594	0.038
Residual	34.374	95	0.362			

Note. Type 3 Sums of Squares

[3]

#### Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	$\eta^2_p$
YesKey	3.07	1	3.07	1.65	0.215	0.080
Residual	35.44	19	1.87			

Note. Type 3 Sums of Squares

## Repeated Measures ANOVA

### Scene probes

#### Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p	$\eta^2_p$
Presentation Time	24.063	5	4.8127	15.717	< .001	0.453
Presentation Time * YesKey	1.693	5	0.3386	1.106	0.363	0.055
Residual	29.090	95	0.3062			
Compatibility	139.666	1	139.6656	97.298	< .001	0.837
Compatibility * YesKey	0.392	1	0.3921	0.273	0.607	0.014
Residual	27.273	19	1.4354			
Presentation Time * Compatibility	32.923	5	6.5845	17.016	< .001	0.472
Presentation Time * Compatibility * YesKey	0.264	5	0.0528	0.136	0.983	0.007
Residual	36.762	95	0.3870			

Note. Type 3 Sums of Squares

[3]

#### Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	$\eta^2_p$
YesKey	0.531	1	0.531	0.328	0.574	0.017
Residual	30.782	19	1.620			

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>.