

Sensitivity (d-prime)

Repeated Measures ANOVA

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
Probe Type	0.1300	1	0.1300	0.133	0.719	0.007
Probe Type * keyYes	0.2095	1	0.2095	0.215	0.648	0.012
Residual	17.5333	18	0.9741			
Compatibility	30.1651	1	30.1651	55.680	< .001	0.756
Compatibility * keyYes	0.1019	1	0.1019	0.188	0.670	0.010
Residual	9.7517	18	0.5418			
Presentation Time	40.1620	5	8.0324	46.242	< .001	0.720
Presentation Time * keyYes	1.1200	5	0.2240	1.290	0.275	0.067
Residual	15.6332	90	0.1737			
Probe Type * Compatibility	21.1249	1	21.1249	31.901	< .001	0.639
Probe Type * Compatibility * keyYes	0.0748	1	0.0748	0.113	0.741	0.006
Residual	11.9196	18	0.6622			
Probe Type * Presentation Time	5.3702	5	1.0740	6.591	< .001	0.268
Probe Type * Presentation Time * keyYes	0.2673	5	0.0535	0.328	0.895	0.018
Residual	14.6656	90	0.1630			
Compatibility * Presentation Time	3.8719	5	0.7744	3.783	0.004	0.174
Compatibility * Presentation Time * keyYes	1.3554	5	0.2711	1.324	0.261	0.069
Residual	18.4205	90	0.2047			
Probe Type * Compatibility * Presentation Time	8.8626	5	1.7725	8.372	< .001	0.317
Probe Type * Compatibility * Presentation Time * keyYes	1.4590	5	0.2918	1.378	0.240	0.071
Residual	19.0543	90	0.2117			

Note. Type 3 Sums of Squares

[3]

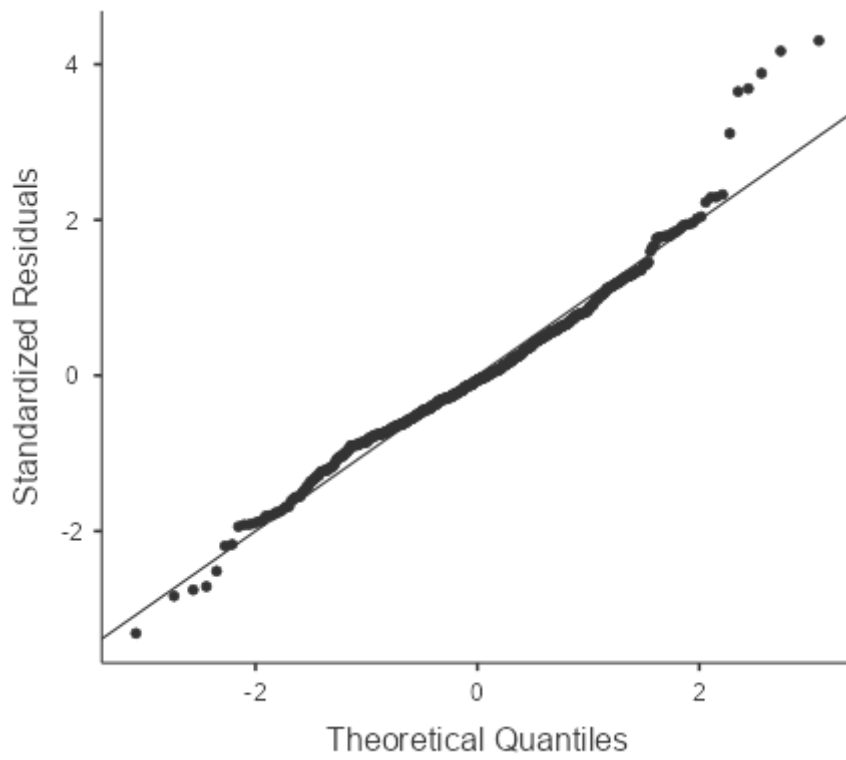
Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
keyYes	1.61	1	1.61	0.422	0.524	0.023
Residual	68.58	18	3.81			

Note. Type 3 Sums of Squares

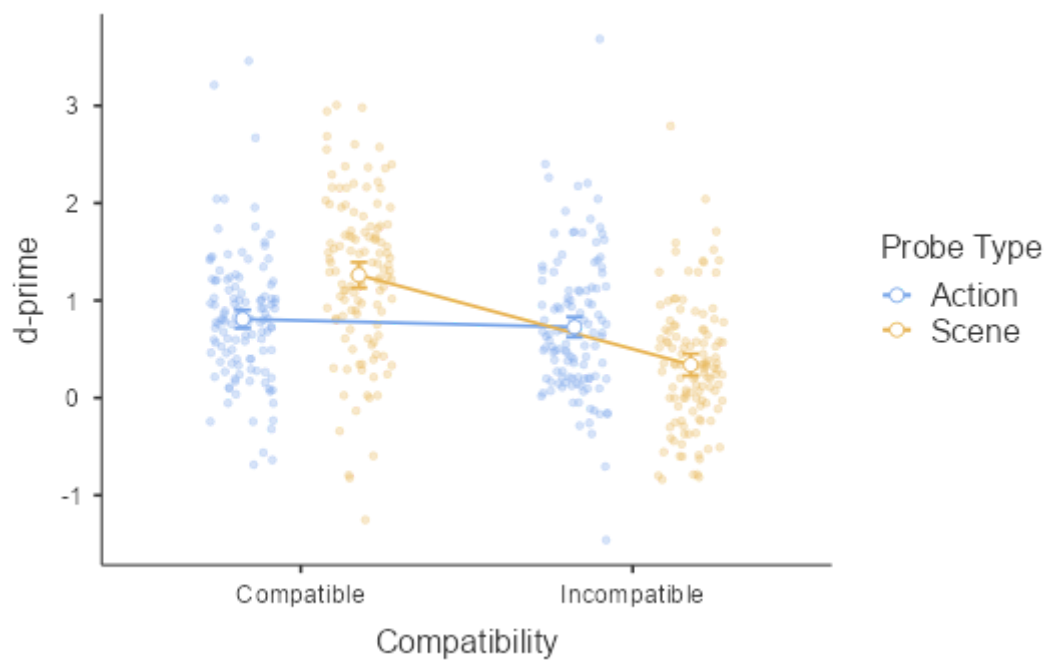
Assumptions

Q-Q Plot

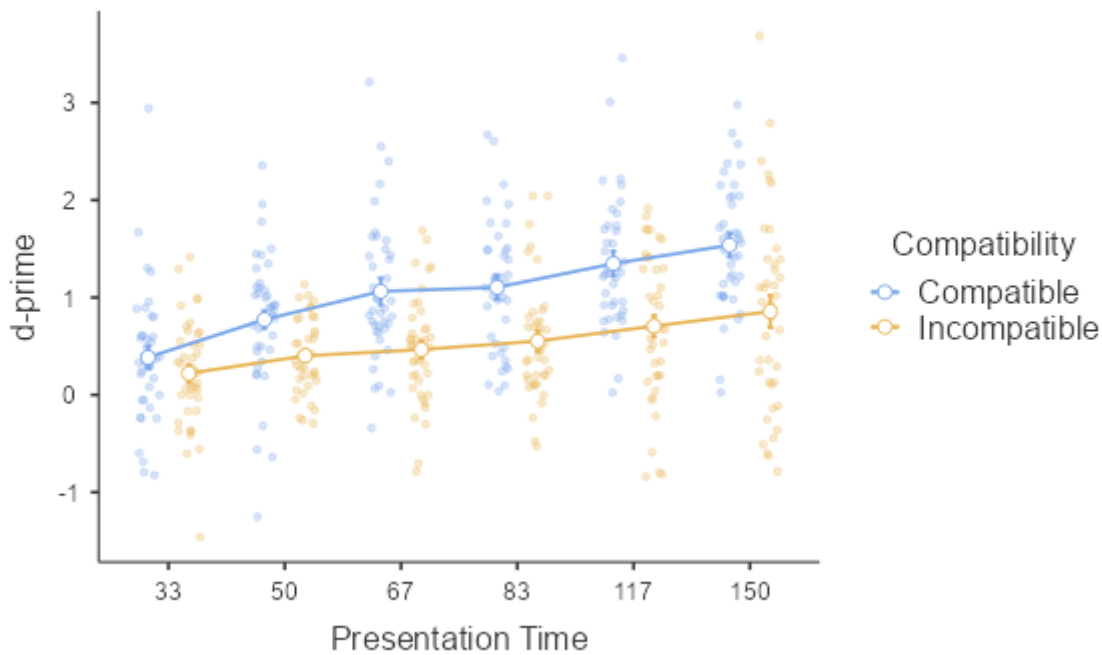


Estimated Marginal Means

Compatibility * Probe Type



Presentation Time * Compatibility



[4]

Repeated Measures ANOVA : Actions ONLY

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
Compatibility	0.401	1	0.4015	1.641	0.216	0.084
Compatibility * keyYes	0.176	1	0.1757	0.718	0.408	0.038
Residual	4.405	18	0.2447			
Presentation Time	32.795	5	6.5590	32.931	< .001	0.647
Presentation Time * keyYes	0.621	5	0.1241	0.623	0.682	0.033
Residual	17.926	90	0.1992			
Compatibility * Presentation Time	1.248	5	0.2496	1.417	0.226	0.073
Compatibility * Presentation Time * keyYes	0.308	5	0.0617	0.350	0.881	0.019
Residual	15.848	90	0.1761			

Note. Type 3 Sums of Squares

[3]

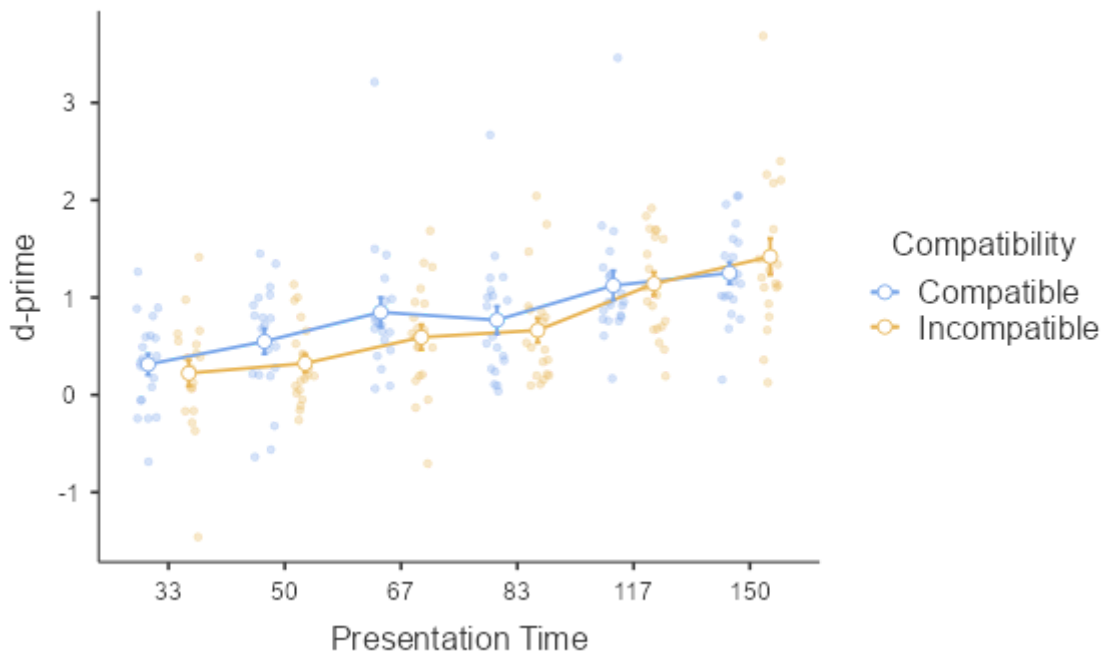
Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
keyYes	0.328	1	0.328	0.153	0.700	0.008
Residual	38.596	18	2.144			

Note. Type 3 Sums of Squares

Estimated Marginal Means

Presentation Time * Compatibility



[4]

Repeated Measures ANOVA : Scenes ONLY

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
Compatibility	50.88848	1	50.88848	53.04997	< .001	0.747
Compatibility * keyYes	0.00104	1	0.00104	0.00109	0.974	0.000
Residual	17.26660	18	0.95926			
Presentation Time	12.73718	5	2.54744	18.52933	< .001	0.507
Presentation Time * keyYes	0.76671	5	0.15334	1.11537	0.358	0.058
Residual	12.37331	90	0.13748			
Compatibility * Presentation Time	11.48672	5	2.29734	9.56031	< .001	0.347
Compatibility * Presentation Time * keyYes	2.50603	5	0.50121	2.08575	0.074	0.104
Residual	21.62701	90	0.24030			

Note. Type 3 Sums of Squares

[3]

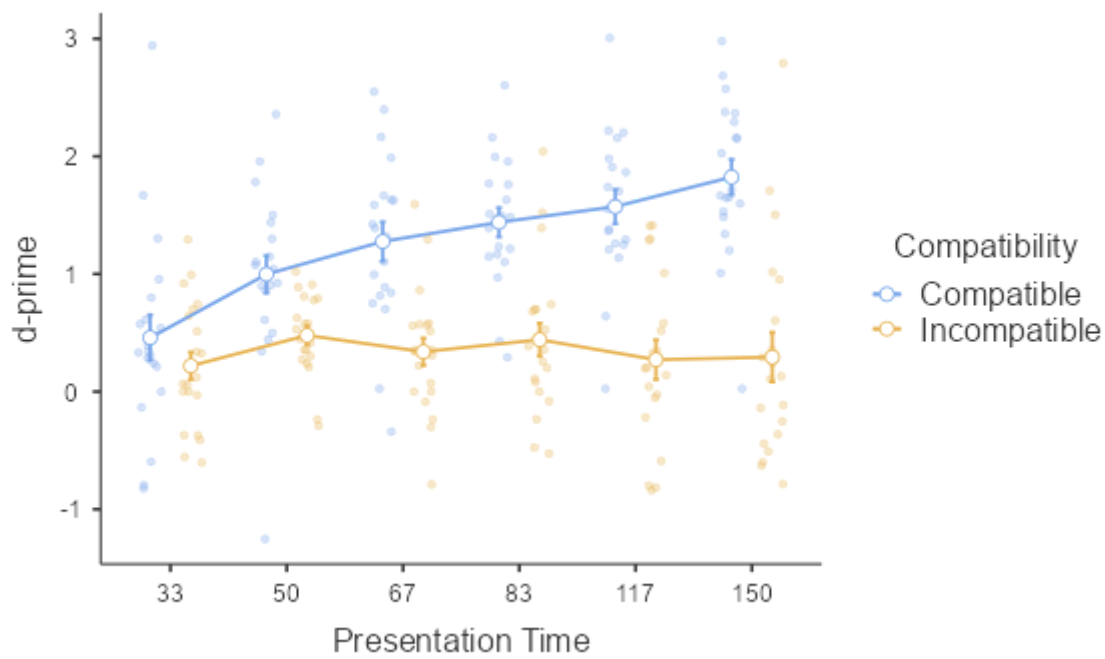
Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_p
keyYes	1.49	1	1.49	0.564	0.462	0.030
Residual	47.52	18	2.64			

Note. Type 3 Sums of Squares

Estimated Marginal Means

Presentation Time * Compatibility



[4]

One Sample T-Test

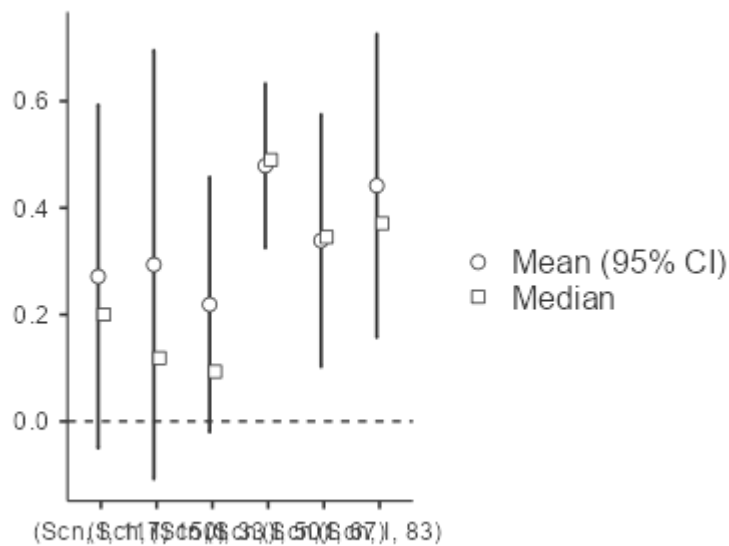
Incompatible scenes

One Sample T-Test

		Statistic	df	p	Mean difference
(Scn, I, 33)	Student's t	1.80	19.0	0.088	0.219
(Scn, I, 50)	Student's t	6.11	19.0	< .001	0.479
(Scn, I, 67)	Student's t	2.81	19.0	0.011	0.339
(Scn, I, 83)	Student's t	3.05	19.0	0.007	0.442
(Scn, I, 117)	Student's t	1.66	19.0	0.114	0.271
(Scn, I, 150)	Student's t	1.43	19.0	0.168	0.294

Note. $H_a: \mu \neq 0$

Plots



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>.
- [4] Lenth, R. (2020). *emmeans: Estimated Marginal Means, aka Least-Squares Means*. [R package]. Retrieved from <https://cran.r-project.org/package=emmeans>.