Results

ANOVA

ANOVA - imageability

Homogeneity Correction	Cases	Sum of Squares	df	Mean Square	F	p	η²
None	stim_type	62.943	3.000	20.981	14.574	< .001	0.094
	Residuals	606.094	421.000	1.440			
Brown-Forsythe	stim_type	62.943	3.000	20.981	14.584	< .001	0.094
	Residuals	606.094	408.564	1.483			
Welch	stim_type	62.943	3.000	20.981	16.180	< .001	0.094
	Residuals	606.094	229.887	2.636			

Note. Type III Sum of Squares

The F-statistic is significant (p<.001) and there is a large effect size. Therefore, there is a **significant difference** between the means of the 4 categories.

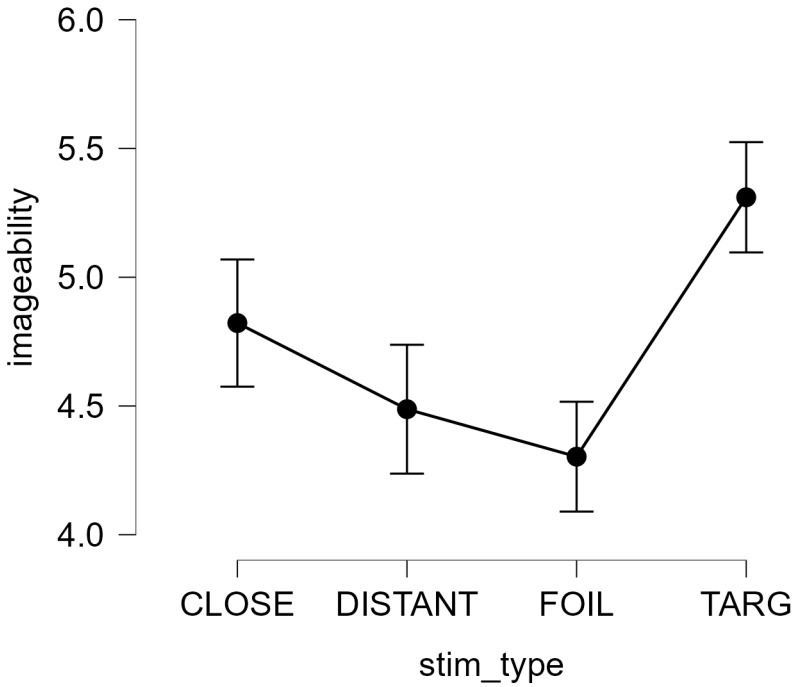
Descriptives

Descriptives - imageability

stim_type	N	Mean	SD	SE	Coefficient of variation
CLOSE	100	4.822	1.245	0.124	0.258
DISTANT	100	4.487	1.261	0.126	0.281
FOIL	125	4.303	1.205	0.108	0.280
TARG	100	5.311	1.079	0.108	0.203

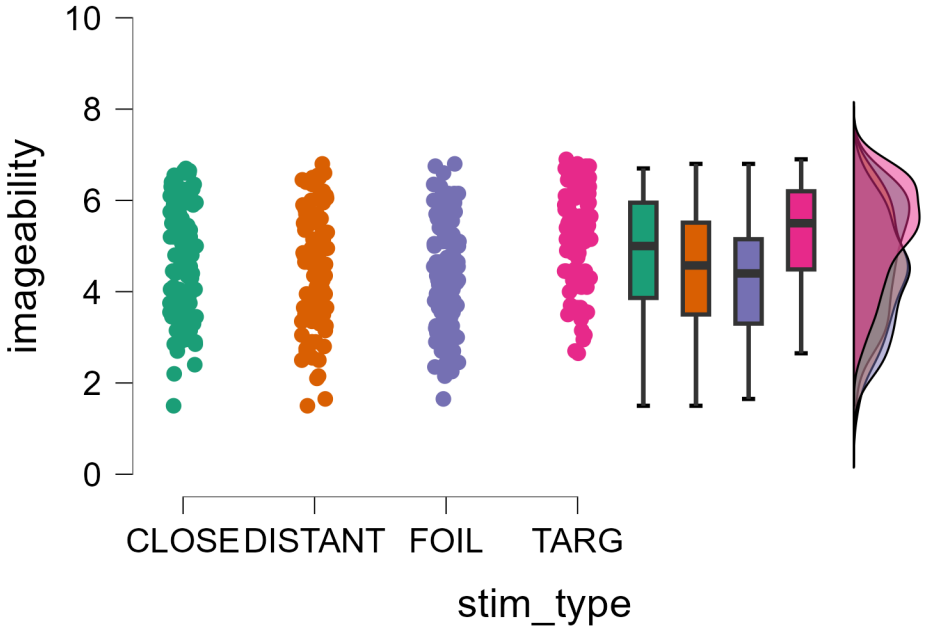
Descriptives plots

Targets and close lures are significantly higher in imageability.



Raincloud plots

imageability



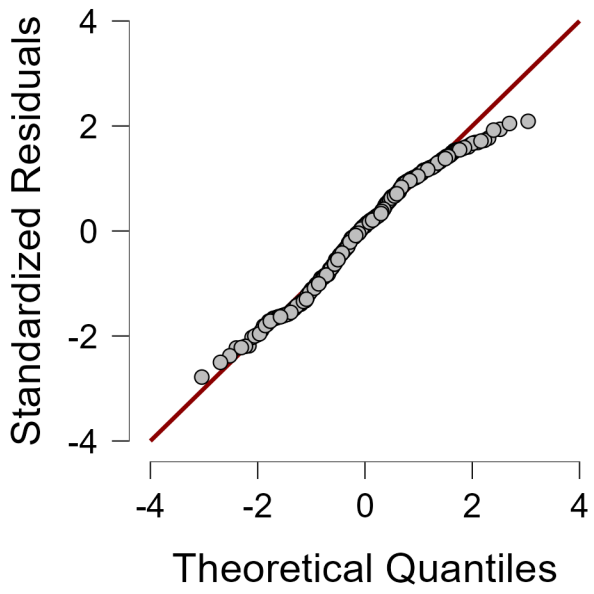
Assumption Checks

Homogeneity of variance: Levene’s test shows **no significant difference in variance.**

Test for Equality of Variances (Levene's)

F	df1	df2	p
1.381	3.000	421.000	0.248

Q-Q Plot



Post Hoc Tests

Post hoc testing shows that there is no significant difference between imageability in close and distant lures, distant lures and targets. However, It is **significantly higher in the target category** compared to the distant lure category (p<.001) and the foil category (p<.001). **Close lures are also significantly higher in imageability** than foils (p=.007) and targets (p=.022). Cohen's d shows that these differences have a large effect size.

Standard

Post Hoc Comparisons - stim_type

		Mean Difference	SE	t	Cohen's d	p_{tukey}
CLOSE	DISTANT	0.334	0.170	1.971	0.279	0.201
	FOIL	0.519	0.161	3.223	0.432	0.007**
	TARG	−0.489	0.170	−2.879	−0.407	0.022*
DISTANT	FOIL	0.184	0.161	1.145	0.154	0.662
	TARG	−0.823	0.170	−4.850	−0.686	< .001***
FOIL	TARG	−1.007	0.161	−6.257	−0.840	< .001***

* p < .05, ** p < .01, *** p < .001

Note. P-value adjusted for comparing a family of 4