Results

ANOVA

ANOVA - concreteness

Homogeneity Correction	Cases	Sum of Squares	df	Mean Square	F	p	η²
None	stim_type	27.700	3.000	9.233	9.976	< .001	0.066
	Residuals	389.671	421.000	0.926			
Brown-Forsythe	stim_type	27.700	3.000	9.233	9.710	< .001	0.066
	Residuals	389.671	372.763	1.045			
Welch	stim_type	27.700	3.000	9.233	10.536	< .001	0.066
	Residuals	389.671	223.513	1.743			

Note. Type III Sum of Squares

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

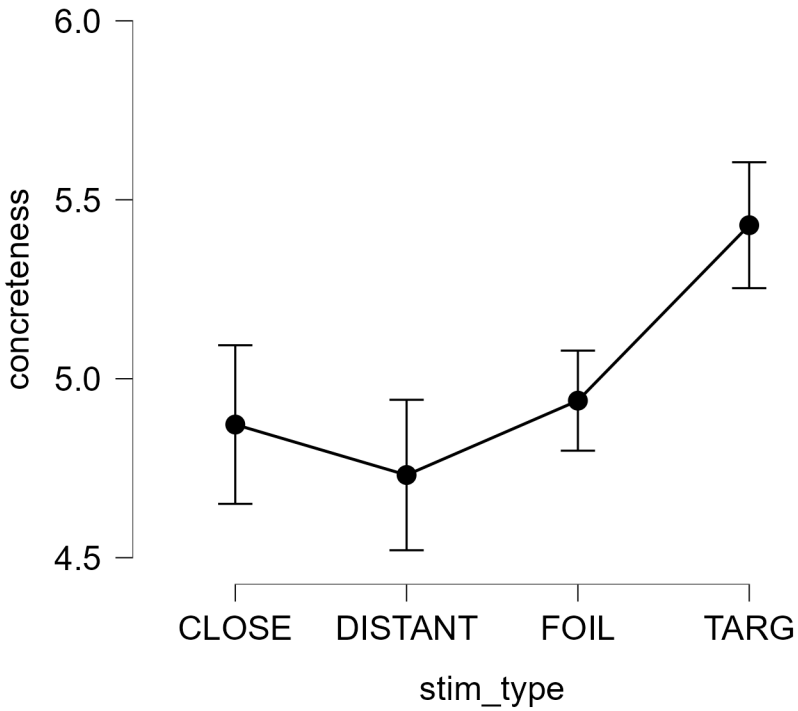
Descriptives

Descriptives - concreteness

stim_type	N	Mean	SD	SE	Coefficient of variation
CLOSE	100	4.872	1.117	0.112	0.229
DISTANT	100	4.731	1.059	0.106	0.224
FOIL	125	4.939	0.790	0.071	0.160
TARG	100	5.429	0.887	0.089	0.163

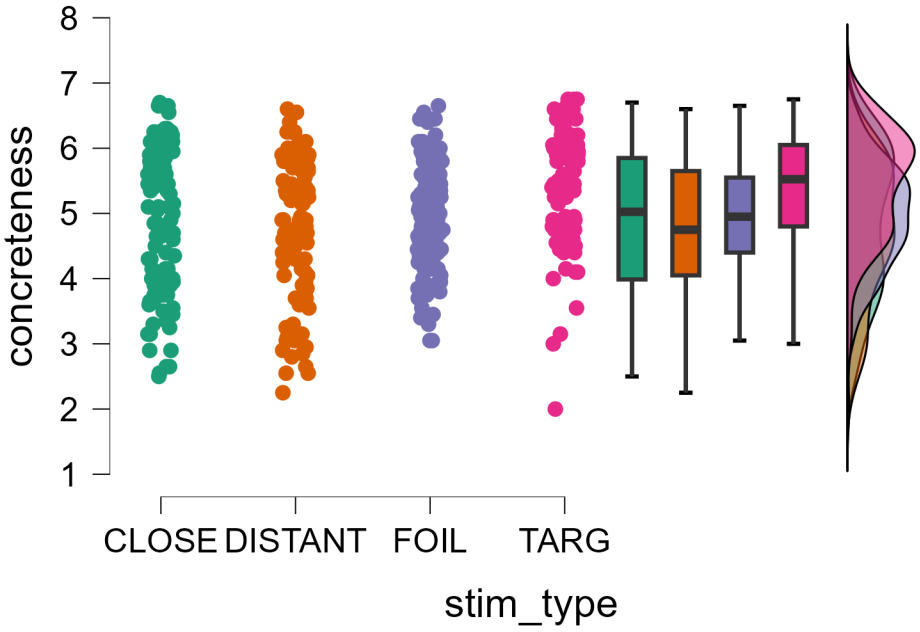
Descriptives plots

Targets are significantly higher in concreteness.



Raincloud plots

concreteness



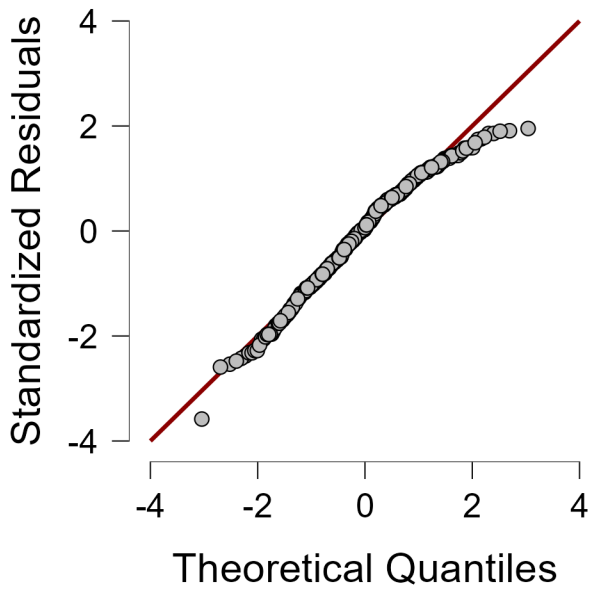
Assumption Checks

Homogeneity of variance: Levene's test shows a **significant difference in variance**, so the Brown- Forsythe or Welch correction should be reported.

Test for Equality of Variances (Levene's)

F	df1	df2	p
8.003	3.000	421.000	< .001

Q-Q Plot



Post Hoc Tests

Post hoc testing shows that there is no significant difference between concreteness in close and distant lures, close lures and foils, distant lures and foils. However, It is **significantly higher in the target category** compared to the close lure category (p<.001), the distant lure category (p<.001) and the foil category (p<.001).

Standard

Post Hoc Comparisons - stim_type

		Mean Difference	SE	t	Cohen's d	p_{tukey}
CLOSE	DISTANT	0.141	0.136	1.036	0.147	0.728
	FOIL	−0.067	0.129	−0.518	−0.069	0.955
	TARG	−0.557	0.136	−4.094	−0.579	< .001***
DISTANT	FOIL	−0.208	0.129	−1.610	−0.216	0.374
	TARG	−0.698	0.136	−5.130	−0.726	< .001***
FOIL	TARG	−0.490	0.129	−3.798	−0.510	< .001***

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

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