Results

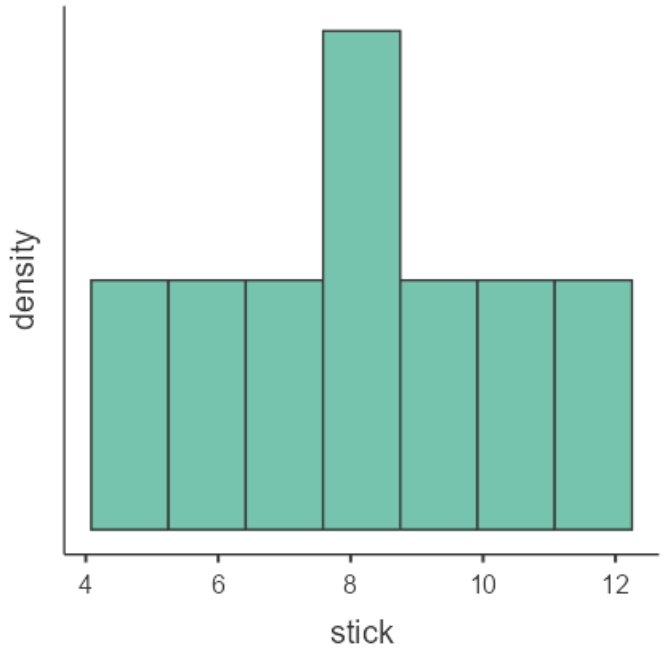
Descriptives

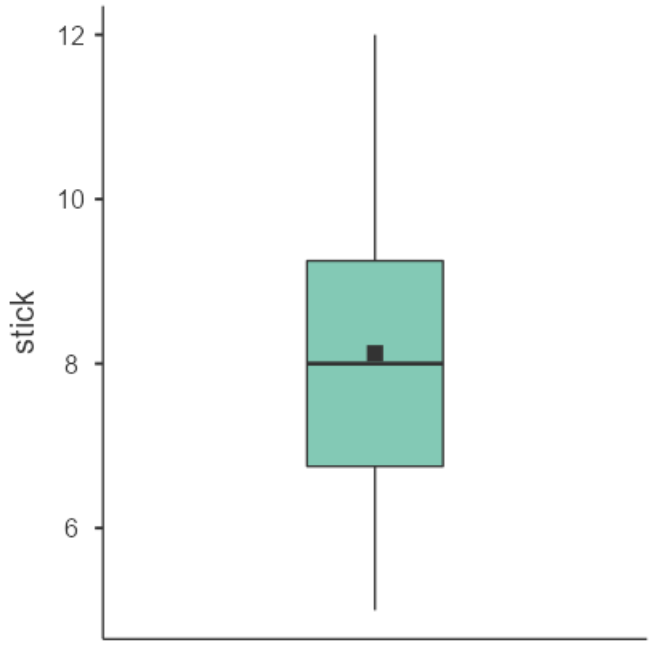
Descriptives

	stick	testicle	eye	witchetty
N	8	8	8	8
Missing	0	0	0	0
Mean	8.13	4.25	4.13	5.75
Std. error mean	0.789	0.648	0.972	1.03
Median	8.00	4.50	4.00	6.50
Standard deviation	2.23	1.83	2.75	2.92
Minimum	5.00	2.00	1.00	1.00
Maximum	12.0	7.00	8.00	9.00
Skewness	0.409	0.0697	0.157	-0.778
Std. error skewness	0.752	0.752	0.752	0.752
Kurtosis	0.0142	-1.22	-1.78	-0.760
Std. error kurtosis	1.48	1.48	1.48	1.48
Shapiro-Wilk W	0.982	0.939	0.913	0.901
Shapiro-Wilk p	0.970	0.600	0.373	0.292

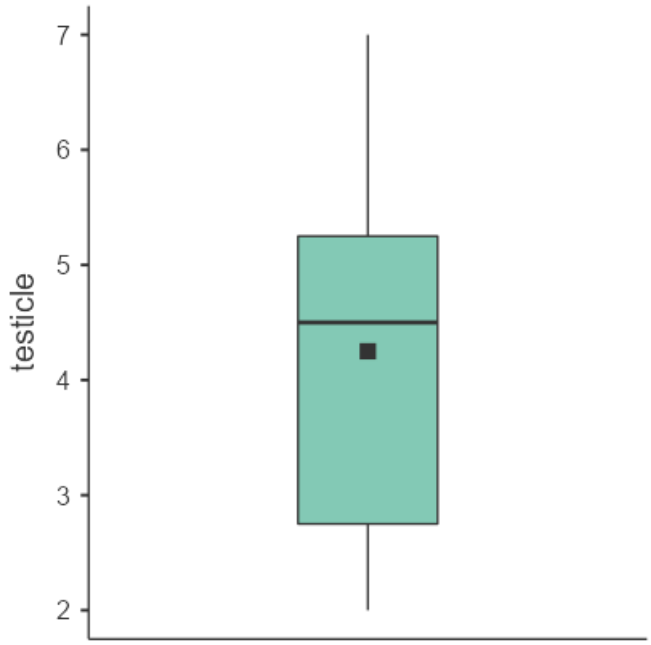
Plots

stick

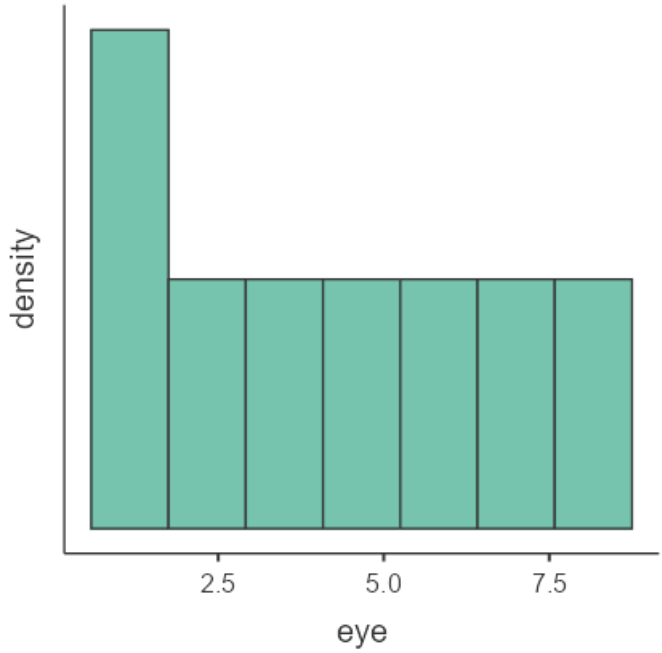


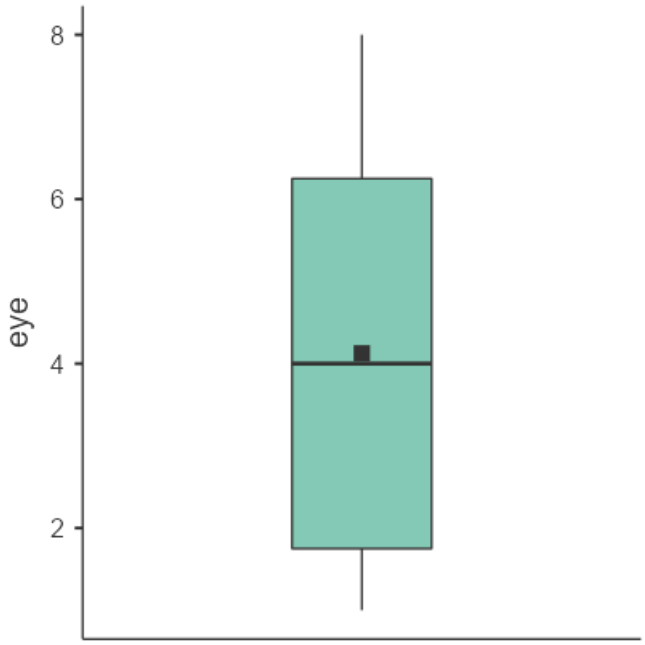


testicle

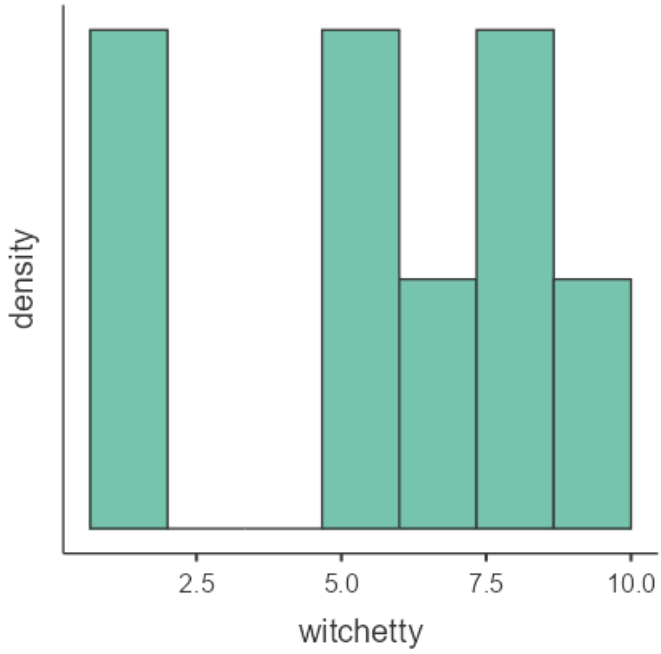


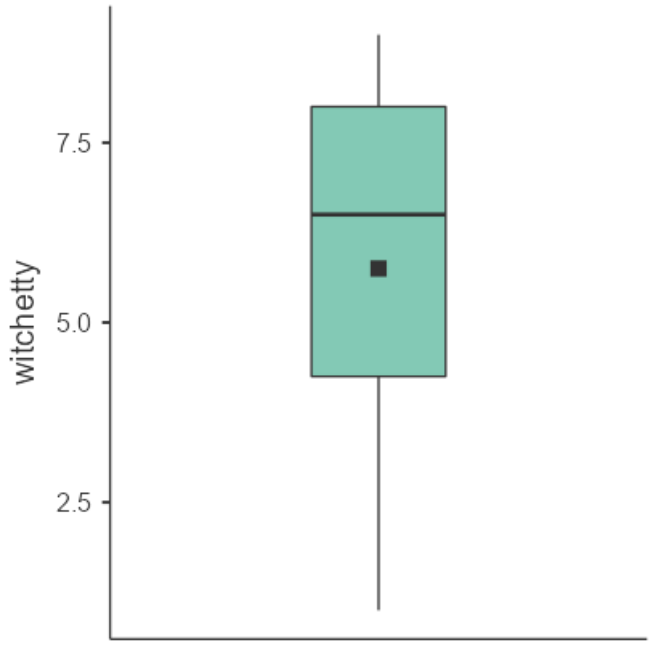
eye





witchetty





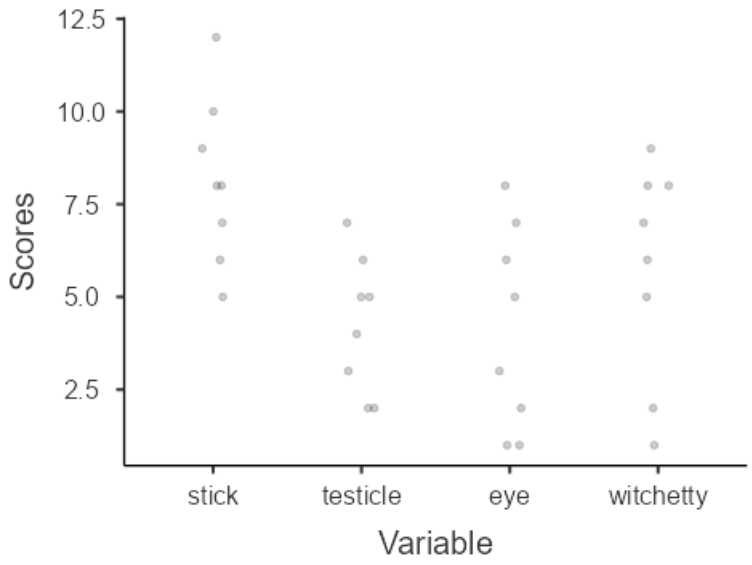
Repeated Measurements

You have entered several related numeric variables. Hence, a repeated measures ANOVA seems to be a good option for you! In order to run this analysis in jamovi, go to: ANOVA > Repeated Measures ANOVA

- Under Repeated Measures Factors, replace the name RM Factor 1 with a more appropriate name (e.g., 'measurement point'). Then give a name to each level (e.g., measurement 1, measurement 2, etc.). Make sure that the number of levels you have defined equals the number of related variables you have
- Drag the related variables to the box below Repeated Measures Cells, one per level

Alternatively, if distributional assumptions are violated, you could use the non-parametric Friedman test. Click on the link to learn more about this test!

Scatter Plot



Repeated Measures ANOVA

Within Subjects Effects

	Sphericity Correction	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
FOOD	None	83.1	3	27.71	3.79	0.026	0.327	0.327	0.351
	Greenhouse-Geisser	83.1	1.60	52.0	3.79	0.063	0.327	0.327	0.351
	Huynh-Feldt	83.1	2.00	41.6	3.79	0.048	0.327	0.327	0.351
Residual	None	153.4	21	7.30					
	Greenhouse-Geisser	153.4	11.19	13.7					
	Huynh-Feldt	153.4	13.98	11.0					

Note. Type 3 Sums of Squares

[3]

Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p	η^2_G	η^2	η^2_p
Residual	17.4	7	2.48					

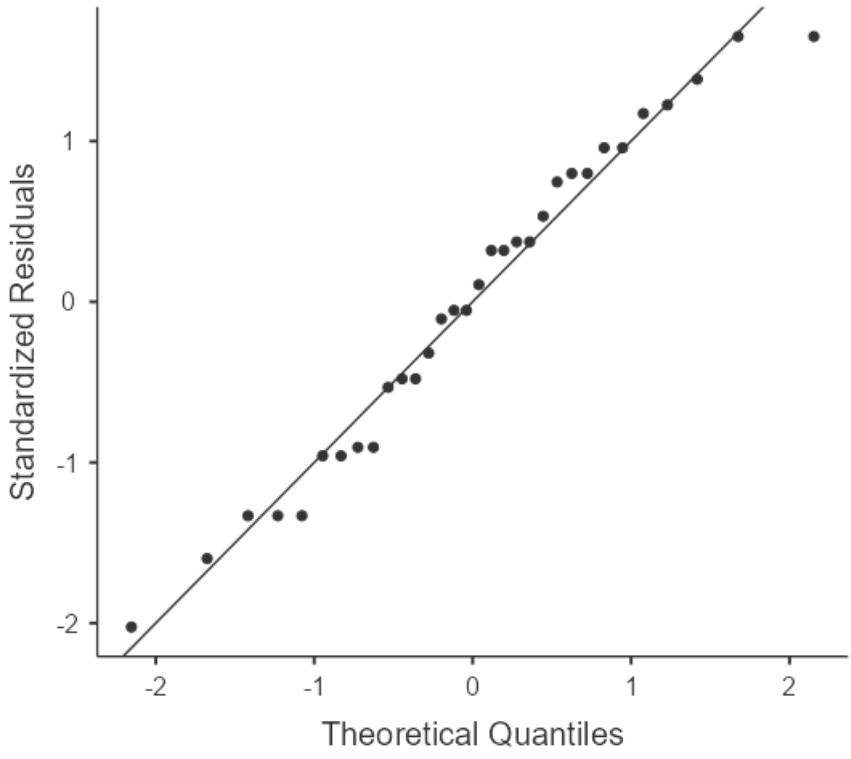
Note. Type 3 Sums of Squares

Assumptions

Tests of Sphericity

	Mauchly's W	p	Greenhouse-Geisser ε	Huynh-Feldt ε
FOOD	0.136	0.047	0.533	0.666

Q-Q Plot



Post Hoc Tests

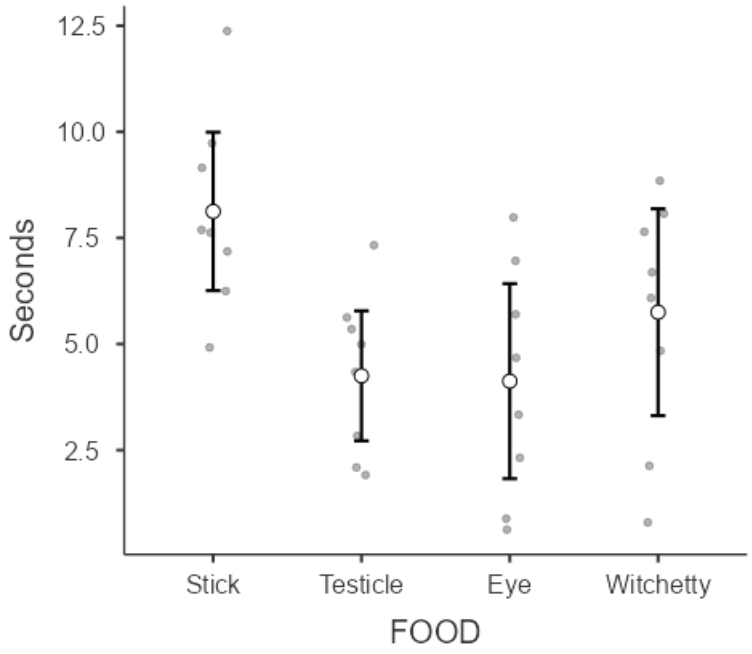
Post Hoc Comparisons - FOOD

Comparison								
FOOD		FOOD	Mean Difference	SE	df	t	p_{tukey}	$p_{bonferroni}$
Stick	-	Testicle	3.875	0.811	7.00	4.775	0.008	0.012
	-	Eye	4.000	0.732	7.00	5.465	0.004	0.006
	-	Witchetty	2.375	1.792	7.00	1.325	0.577	1.000
Testicle	-	Eye	0.125	1.202	7.00	0.104	1.000	1.000
	-	Witchetty	-1.500	1.336	7.00	-1.122	0.688	1.000
Eye	-	Witchetty	-1.625	1.822	7.00	-0.892	0.809	1.000

[4]

Estimated Marginal Means

FOOD



Estimated Marginal Means - FOOD

			95% Confidence Interval	
FOOD	Mean	SE	Lower	Upper
Stick	8.12	0.789	6.26	9.99
Testicle	4.25	0.648	2.72	5.78
Eye	4.13	0.972	1.83	6.42
Witchetty	5.75	1.031	3.31	8.19

[4]

References

[1] The jamovi project (2021). *jamovi*. (Version 2.2) [Computer Software]. Retrieved from https://www.jamovi.org.

[2] R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.0) [Computer software]. Retrieved from https://cran.r-project.org. (R packages retrieved from MRAN snapshot 2021-04-01).

[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.