Results

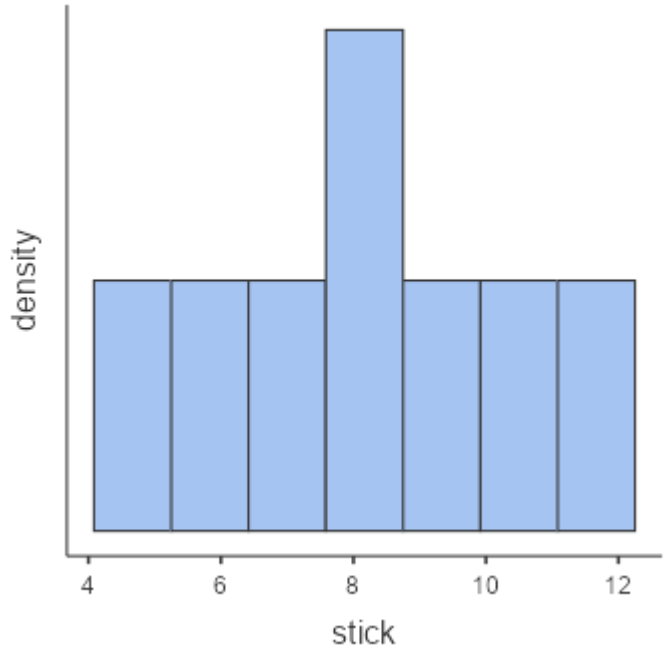
Descriptives

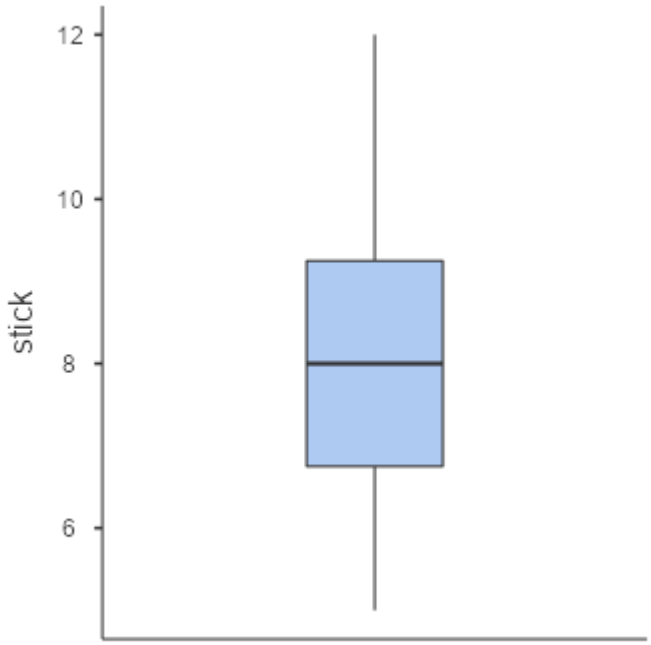
Descriptives

	stick	testicle	eye	witchetty
N	8	8	8	8
Missing	0	0	0	0
Mean	8.13	4.25	4.13	5.75
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

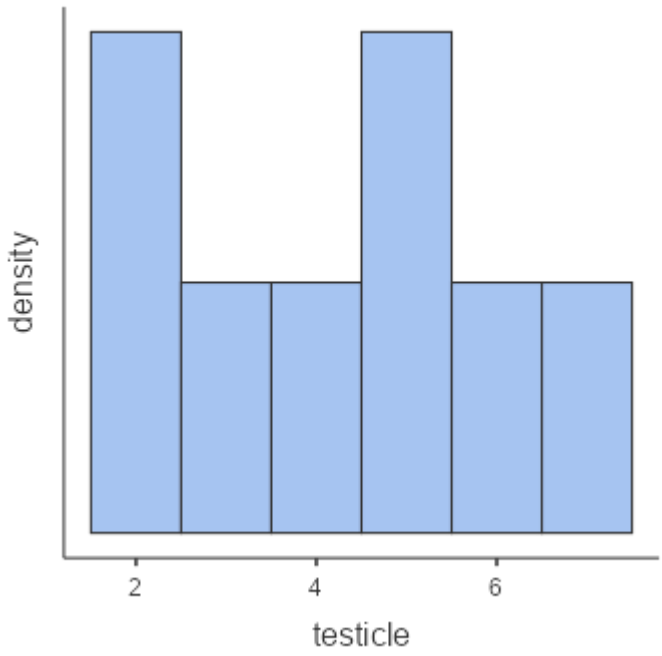
Plots

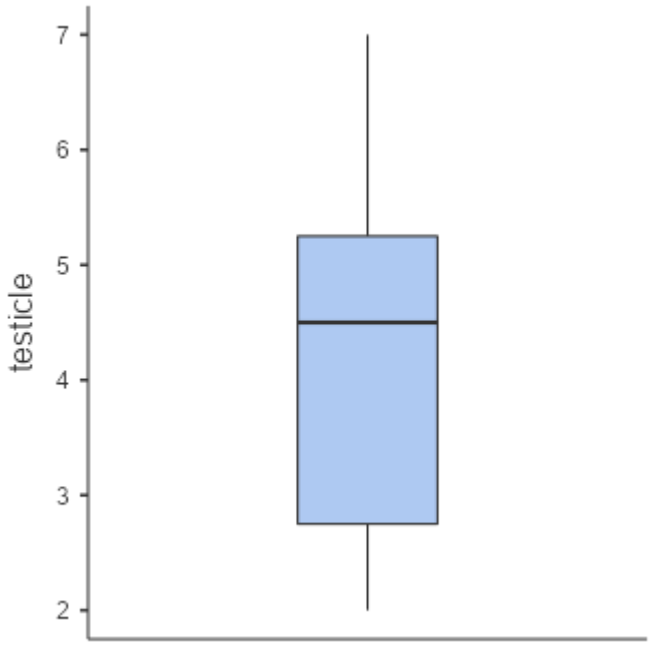
stick



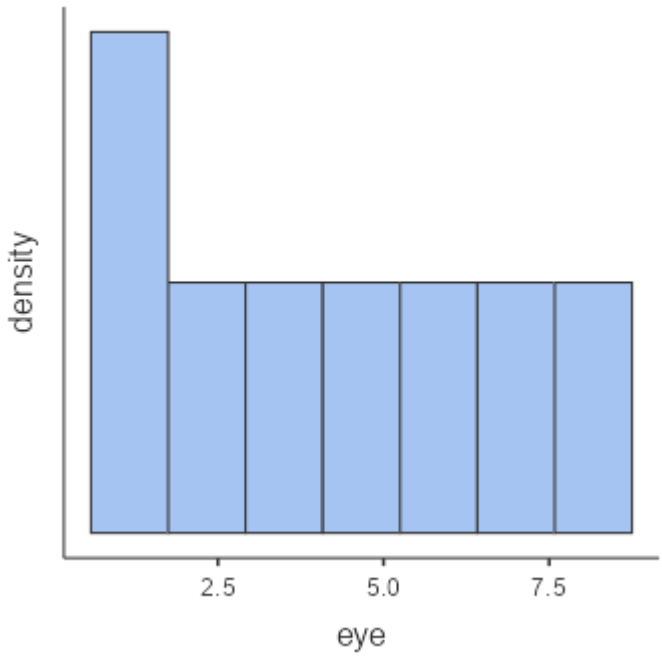


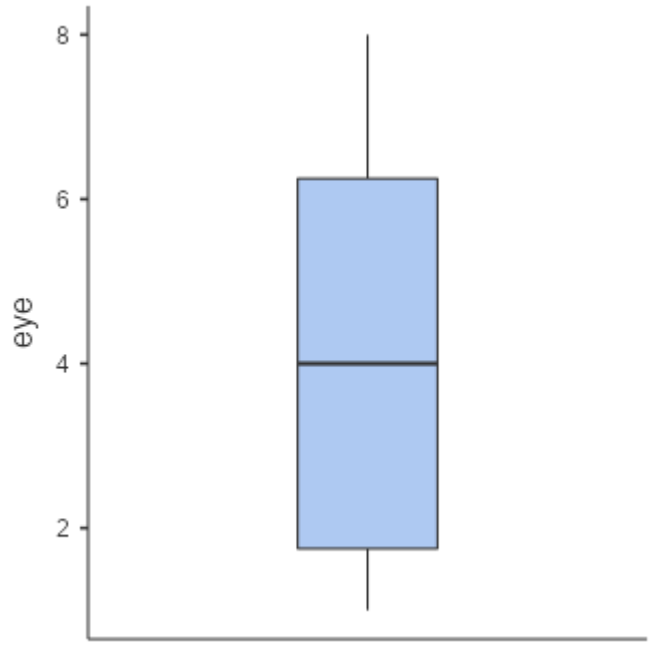
testicle



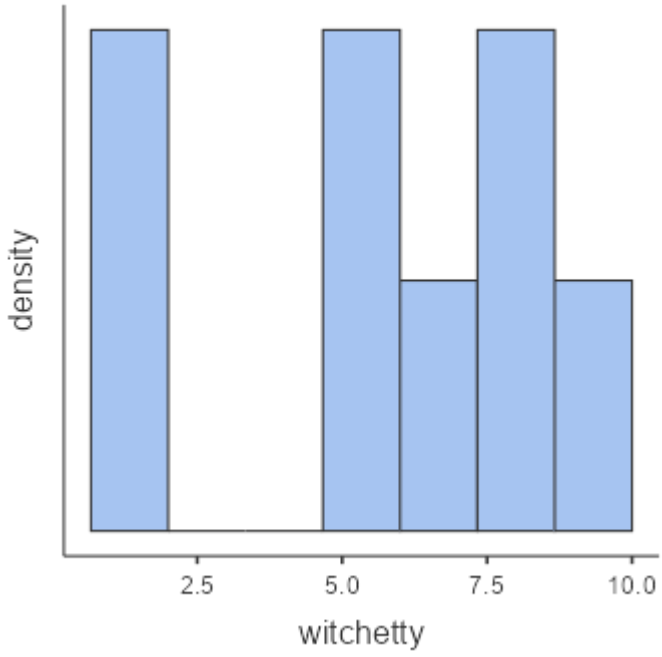


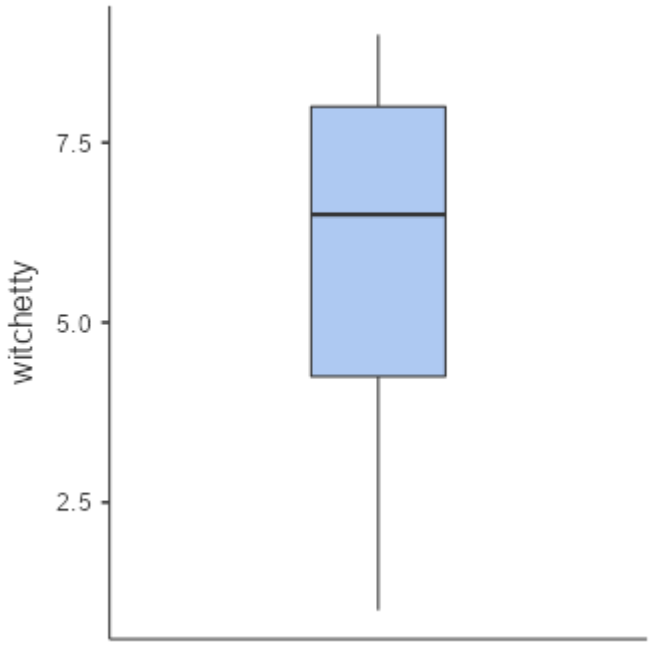
eye





witchetty





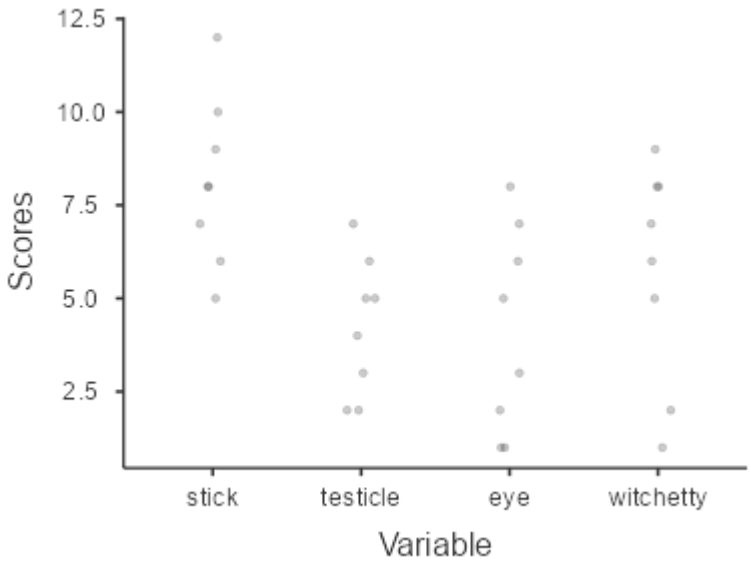
Repeated Measurements

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
	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					
	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					

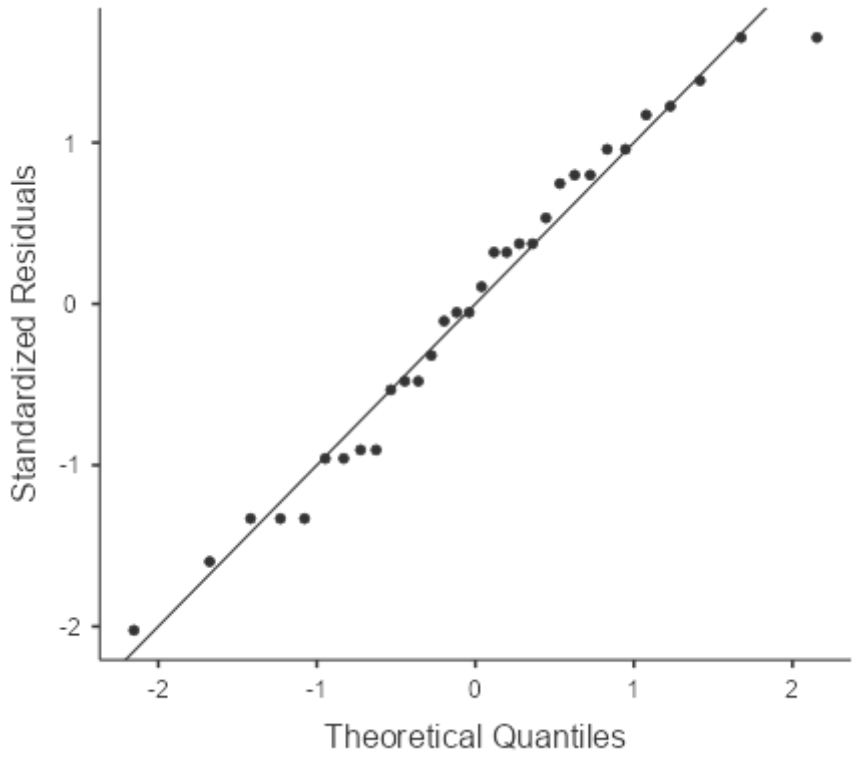
Note. Type 3 Sums of Squares

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

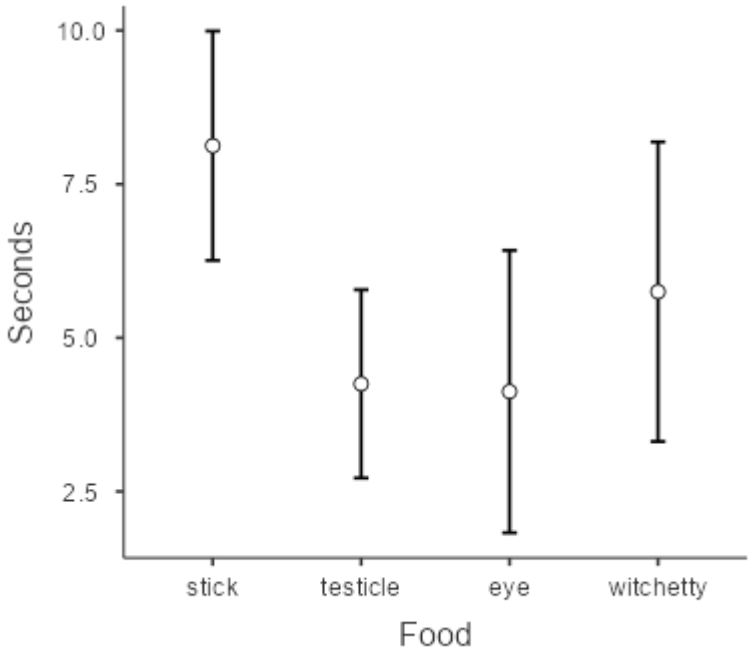
Post Hoc Comparisons - Food

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.