Results

Descriptives

Descriptives

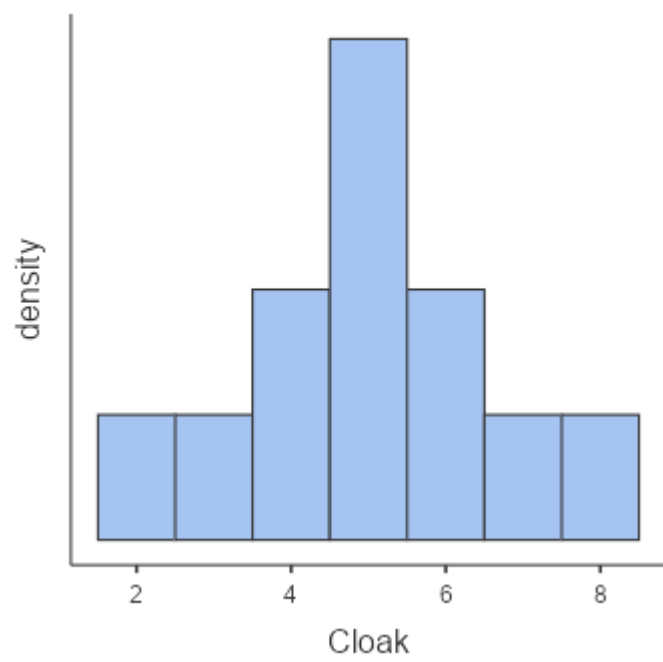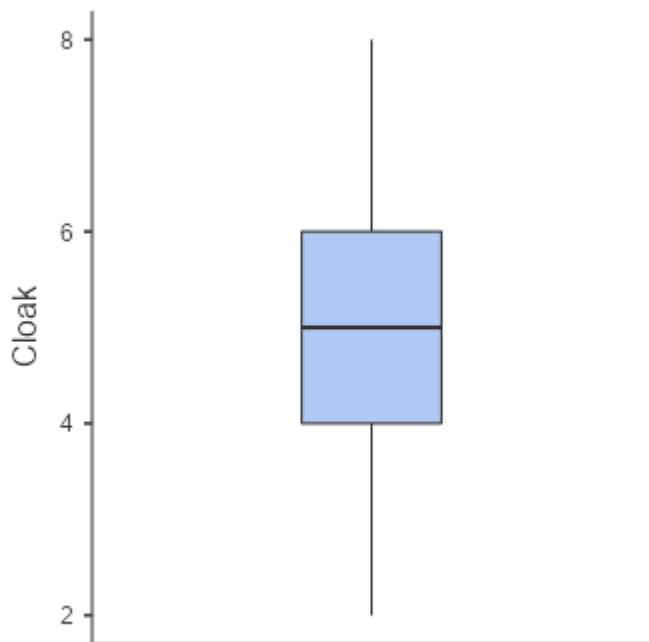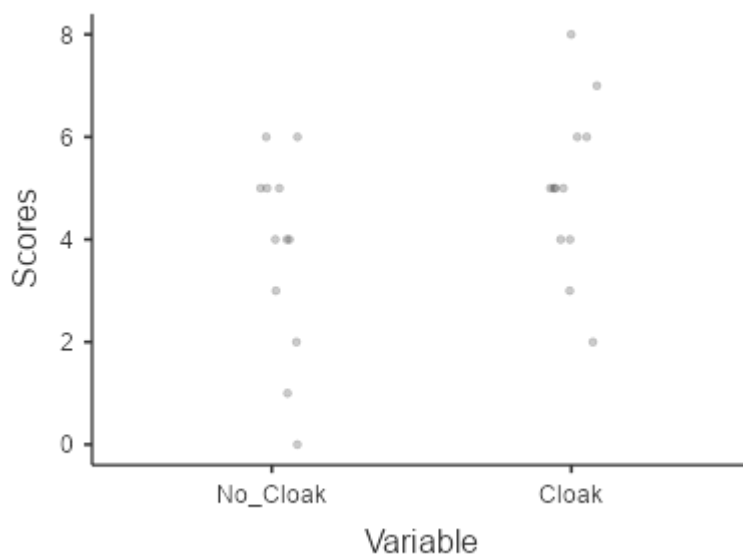|	No_Cloak	Cloak
N	12	12
Missing	0	0
Mean	3.75	5.00
Median	4.00	5.00
Standard deviation	1.91	1.65
Minimum	0.00	2.00
Maximum	6.00	8.00
Skewness	-0.789	0.00
Std. error skewness	0.637	0.637
Kurtosis	-0.229	0.161
Std. error kurtosis	1.23	1.23
Shapiro-Wilk W	0.913	0.973
Shapiro-Wilk p	0.231	0.936

Plots

No_Cloak
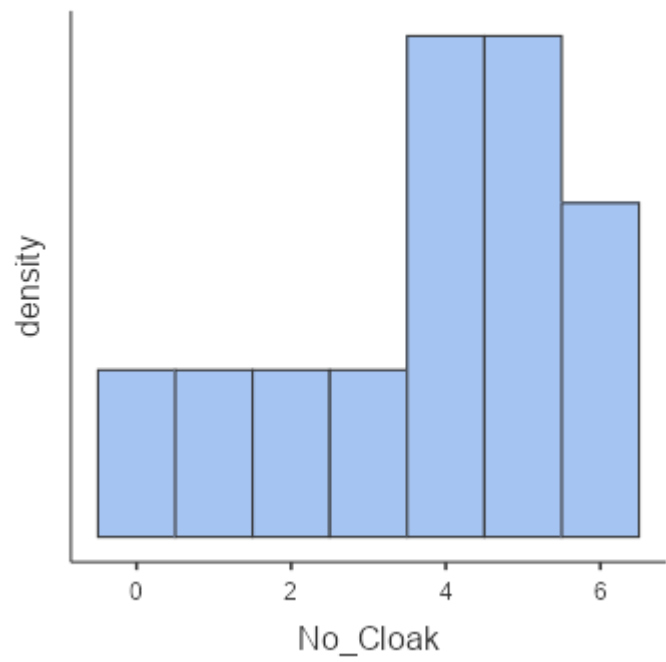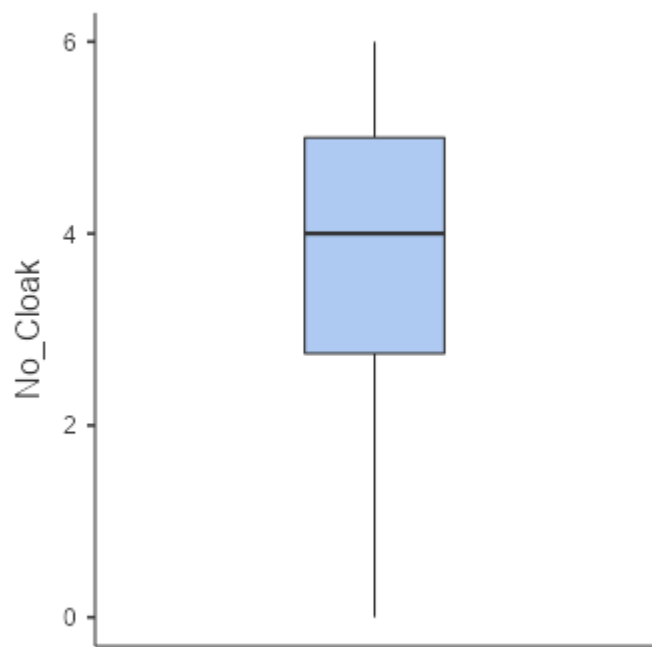
Cloak

Repeated Measurements

You have entered two related numeric variables. Hence, the paired sample t test seems to be a good option for you! In order to run this test in jamovi, go to: T-Tests > Paired Samples T-Test

- Drop the two paired variables in the box below Paired Variables, one on the left side of the vertical line and one on the right side of the vertical line
- Under Hypothesis, select your alternative hypothesis

If the normality assumption is violated, you could use the non-parametric Wilcoxon signed rank test. Click on the links to learn more about these tests!

Scatter Plot

Scatterplot
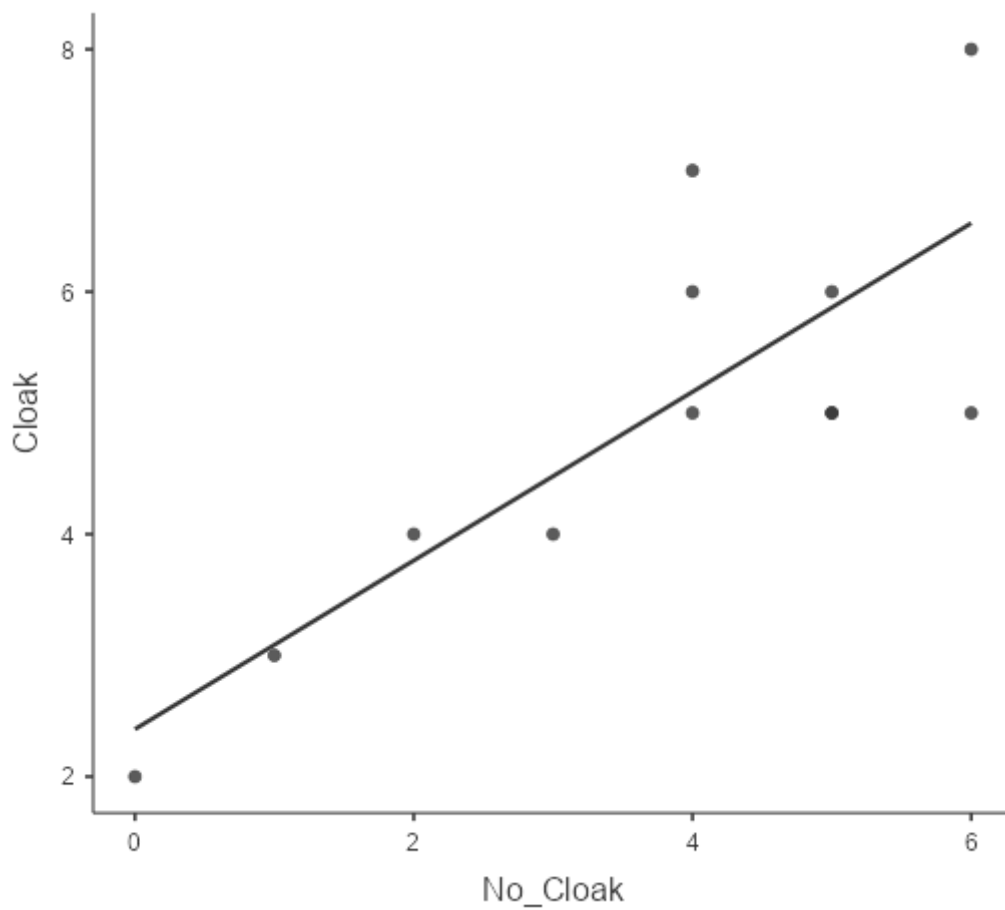
Descriptives

Descriptives

N	
Missing	
Mean	
Median	
Standard deviation	
Minimum	
Maximum	

Descriptives

Descriptives

	diff	Cloak
N	12	12
Missing	0	0
Mean	1.25	5.00
Median	1.50	5.00
Standard deviation	1.14	1.65
Minimum	-1.00	2.00
Maximum	3.00	8.00
Skewness	-0.583	0.00
Std. error skewness	0.637	0.637
Kurtosis	-0.138	0.161
Std. error kurtosis	1.23	1.23
Shapiro-Wilk W	0.912	0.973
Shapiro-Wilk p	0.228	0.936

Plots

diff
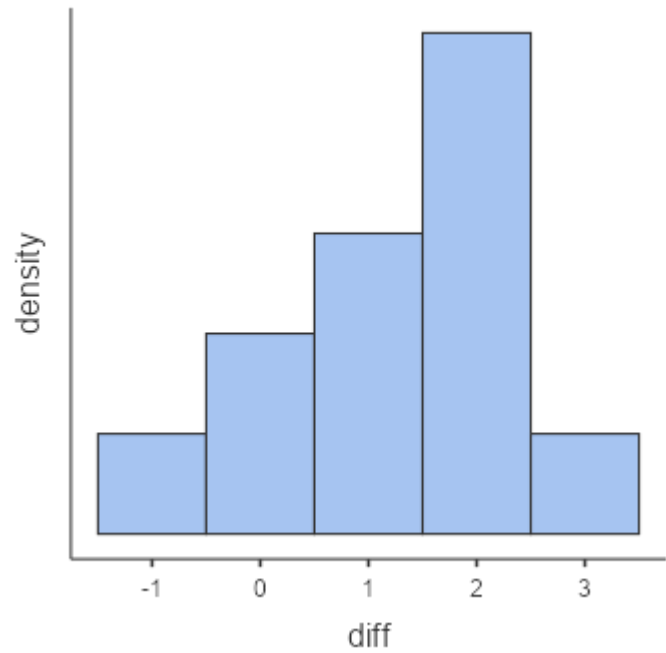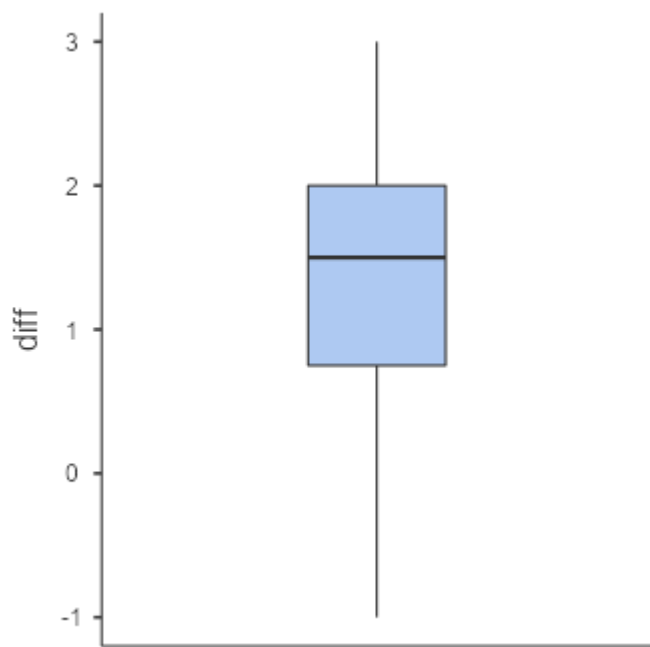
Cloak
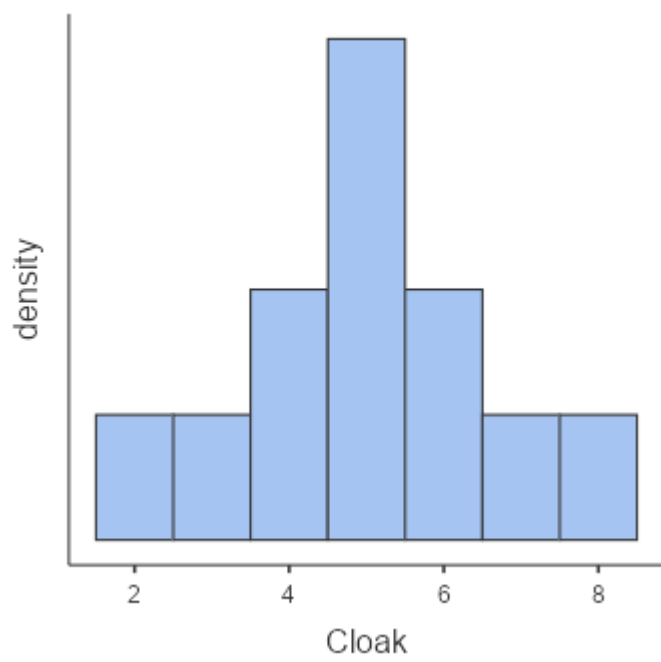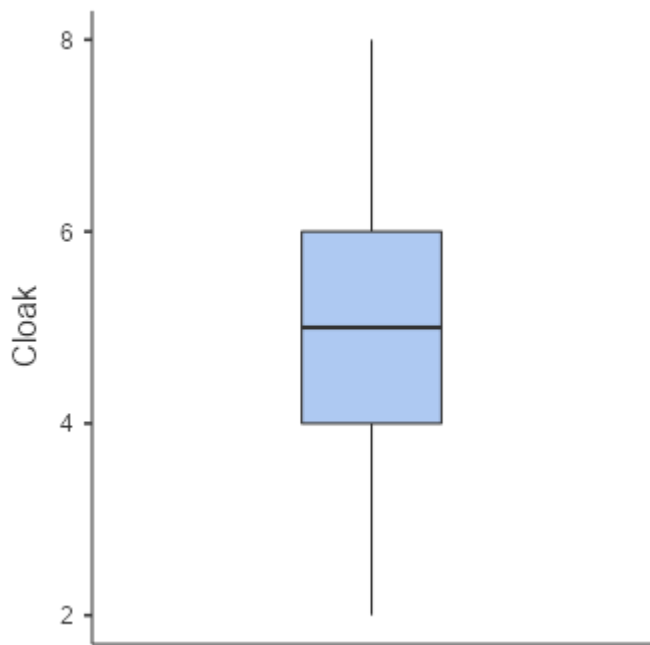
Paired Samples T-Test

Paired Samples T-Test

			statistic	df	p	Mean difference	SE difference		Effect Size
No_Cloak	Cloak	Student's t	-3.80	11.0	0.003	-1.25	0.329	Cohen's d	-1.10

Normality Test (Shapiro-Wilk)

			W	p
No_Cloak	-	Cloak	0.912	0.228

Note. A low p-value suggests a violation of the assumption of normality

Descriptives

	N	Mean	Median	SD	SE
No_Cloak	12	3.75	4.00	1.91	0.552
Cloak	12	5.00	5.00	1.65	0.477

Plots

No_Cloak - Cloak
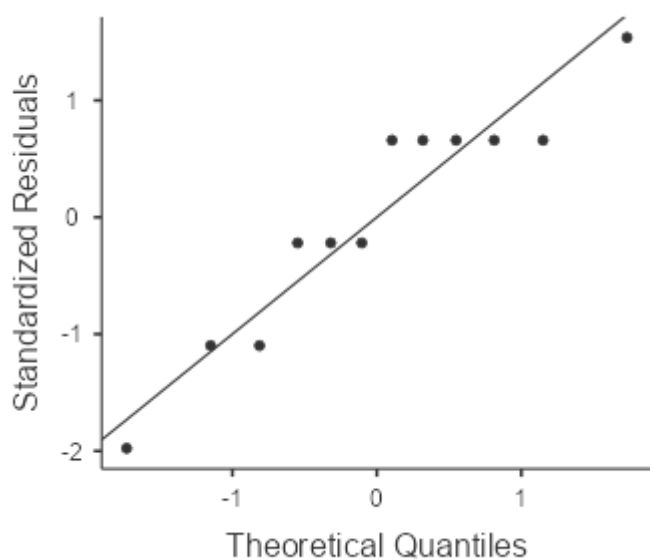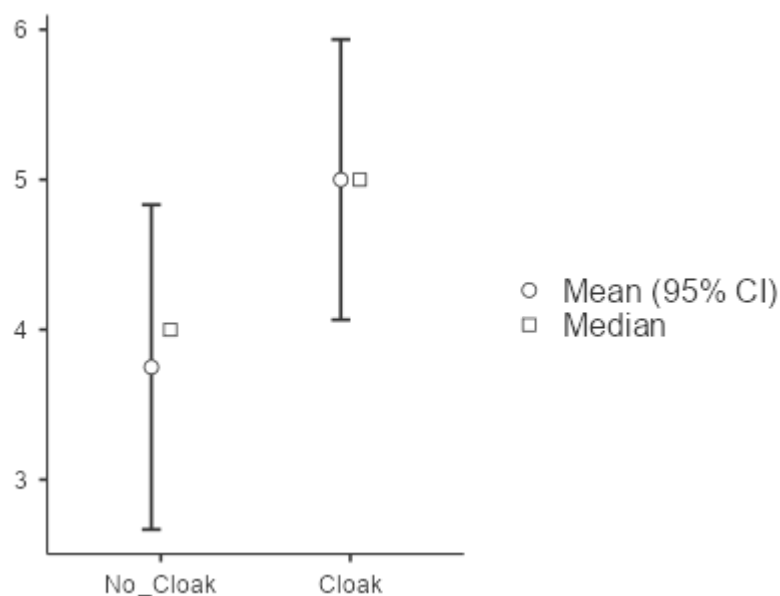
Robust Paired Samples T-Test

Robust Paired Samples T-Test

| | | t | df | p | Mean difference | SE | 95% Confidence Interval | | Cohen's d |
							Lower	Upper	
No_Cloak	Cloak	-2.70	7.00	0.031	-1.00	0.370	-1.87	-0.125	0.398

Bayesian Paired Samples T-Test

Bayesian Paired Samples T-Test

			BF_{10}	error %
No_Cloak	-	Cloak	16.3	2.92e-5

[3] [4] [5]

Descriptives

Descriptives

	N	Mean	SD	SE	95% Credible Interval Lower	95% Credible Interval Upper
No_Cloak	12	3.75	1.91	0.552	2.53	4.97
Cloak	12	5.00	1.65	0.477	3.95	6.05

Descriptives Plot

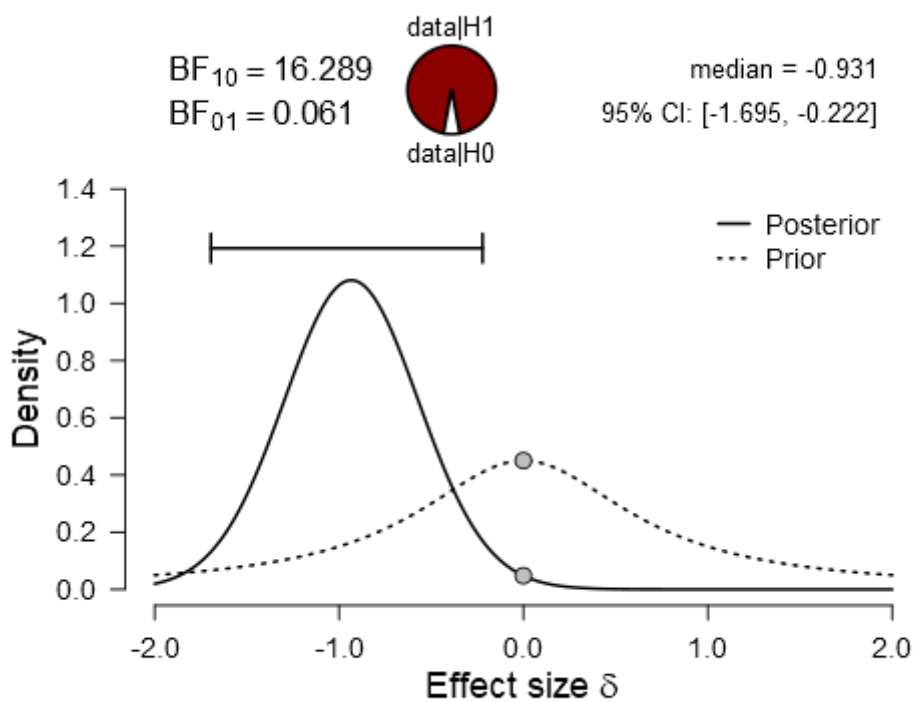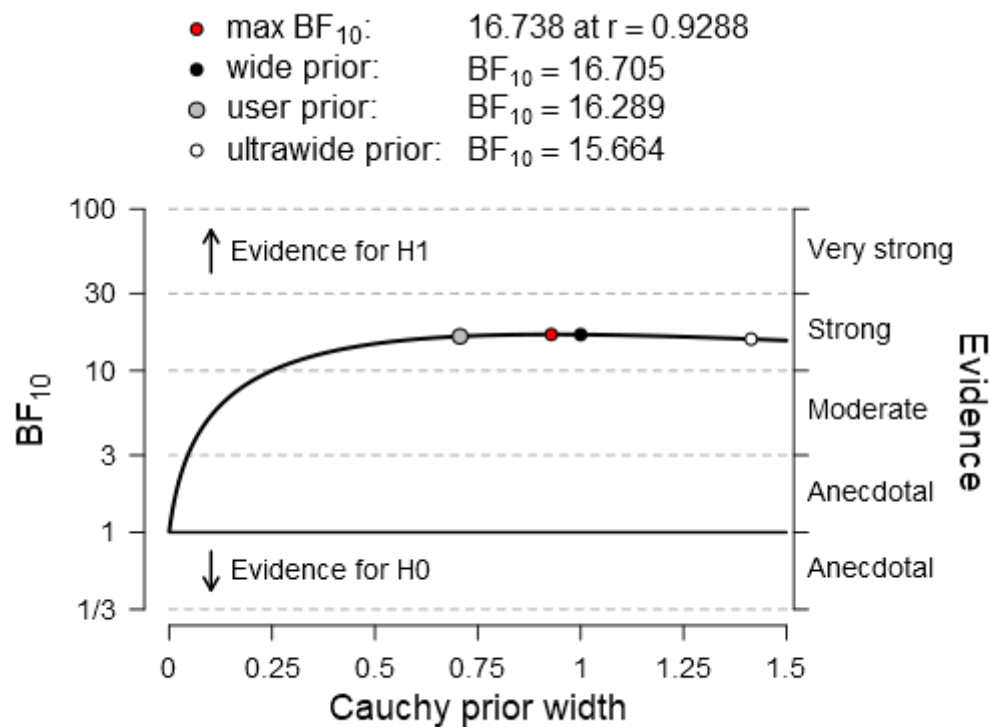**No_Cloak - Cloak**
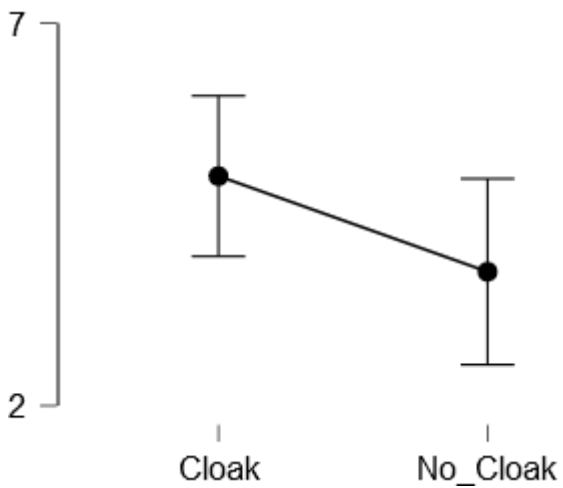
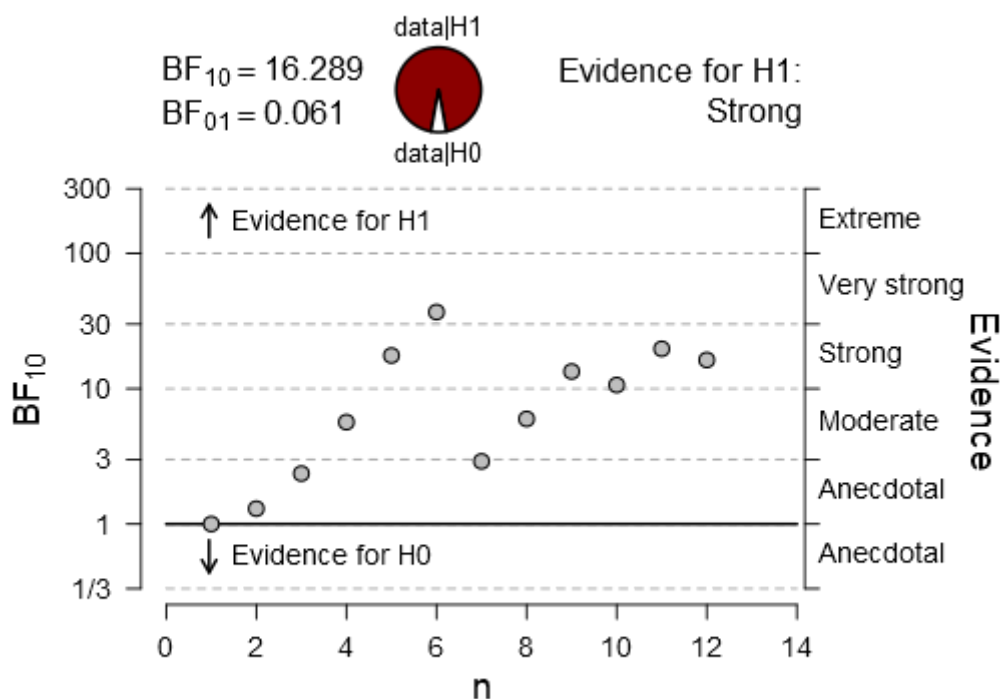## Inferential Plots

No_Cloak - Cloak

Prior and Posterior

Bayes Factor Robustness Check

Sequential Analysis

[3]

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] JASP Team (2018). *JASP*. [Computer software]. Retrieved from https://jasp-stats.org.

[4] Morey, R. D., & Rouder, J. N. (2018). *BayesFactor: Computation of Bayes Factors for Common Designs*. [R package]. Retrieved from https://cran.r-project.org/package=BayesFactor.

[5] Rouder, J. N., Speckman, P. L., Sun, D., Morey, R. D., & Iverson, G. (2009). Bayesian t tests for accepting and rejecting the null hypothesis. *Psychonomic Bulletin & Review, 16*, 225-237.