Results

Descriptives

Descriptives

	Cloak
N	24
Missing	0

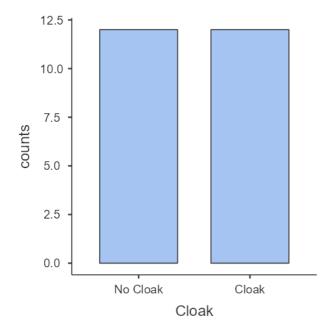
Frequencies

Frequencies of Cloak

Cloak	Counts	% of Total	Cumulative %
No Cloak	12	50.0 %	50.0 %
Cloak	12	50.0 %	100.0 %

Plots

Cloak



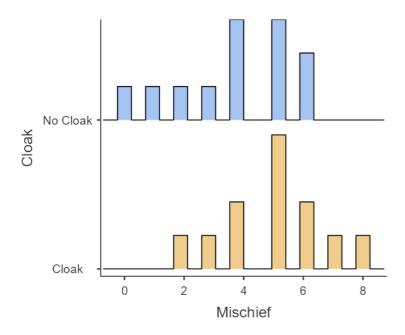
Descriptives

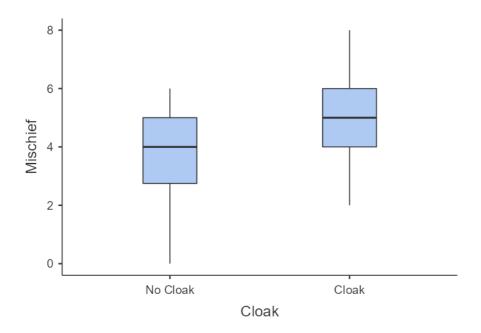
Descriptives

	Cloak	Mischief
N	No Cloak Cloak	12 12
Missing	No Cloak Cloak	0
Mean	No Cloak Cloak	3.75 5.00
Median	No Cloak Cloak	4.00 5.00
Standard deviation	No Cloak Cloak	1.91 1.65
Minimum	No Cloak Cloak	0.00 2.00
Maximum	No Cloak Cloak	6.00 8.00
Skewness	No Cloak Cloak	-0.789 0.00
Std. error skewness	No Cloak Cloak	0.637 0.637
Kurtosis	No Cloak Cloak	-0.229 0.161
Std. error kurtosis	No Cloak Cloak	1.23 1.23
Shapiro-Wilk W	No Cloak Cloak	0.913 0.973
Shapiro-Wilk p	No Cloak Cloak	0.231 0.936

Plots

Mischief





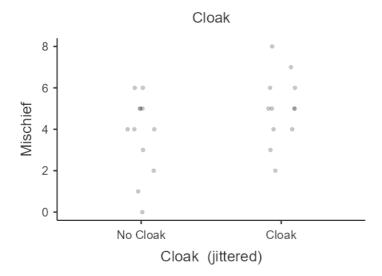
Relationships, Prediction, and Group Comparisons

You have entered a numeric variable for Variable 1 / Dependent Variable and a dichotomous variable for Variable 2 / Independent Variables. Hence, the two sample t test assuming equal population variances or the two sample t test not assuming equal population variances seems to be a good option for you! Both tests are tests for the difference between two population means. In order to run these tests in jamovi, go to: T-Tests > Independent Samples T-Test

- Drop your dependent (numeric) variable in the box below Dependent Variables and your independent (grouping) variable in the box below Grouping Variable
- Under Tests, select Student's if you want to assume equal population variances, and Welch's if you don't want to assume equal population variances
- Under Hypothesis, select your alternative hypothesis

If the normality assumption is violated, you could use the non-parametric <u>Mann-Whitney U test</u>. Click on the links to learn more about these tests!

Scatter Plots of Bivariate Relationships - Dependent/Independent Variables



Independent Samples T-Test

Independent Samples T-Test

							95% Confidence Interval				Confi	6% dence rval
		Statistic	df	р	Mean difference	SE difference	Lower	Upper		Effect Size	Lower	Upper
Mischief	Student's t	-1.71	22.0	0.101	-1.25	0.730	-2.76	0.263	Cohen's d	-0.700	-1.54	0.165
	Welch's t	-1.71	21.5	0.101	-1.25	0.730	-2.76	0.265	Cohen's d	-0.700		

Note. $H_a \mu_{No\ Cloak} \neq \mu_{Cloak}$

Assumptions

Normality Test (Shapiro-Wilk)

	W	
Mischief	0.965	0.546

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

Homogeneity of Variances Test (Levene's)

	F	df	df2	р
Mischief	0.545	1	22	0.468

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

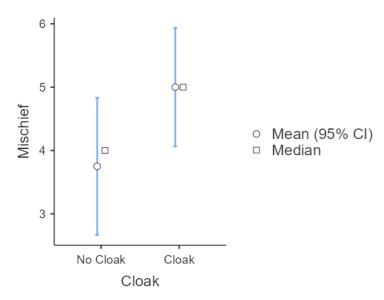
[3]

Group Descriptives

	Group	N	Mean	Median	SD	SE
Mischief	No Cloak	12	3.75	4.00	1.91	0.552
	Cloak	12	5.00	5.00	1.65	0.477

Plots

Mischief



Robust Independent Samples T-Test

Robust Independent Samples T-Test

						95% Confidence Interval		_
		t	df	р	Mean diff	Lower	Upper	ξ
Mischief	Yuen's test	1.48	12.3	0.165	-1.00	-2.47	0.472	0.398
	Yuen's bootstrapped	-1.36		0.159				

Bayesian Independent Samples T-Test

Bayesian Independent Samples T-Test

	BF ₁₀	error %
Mischief	1.05	0.00355

[4] [5] [6]

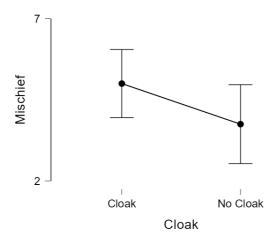
Descriptives

Group Descriptives

						95% Credible Interval		
	Group	N	Mean	SD	SE	Lower	Upper	
Mischief	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

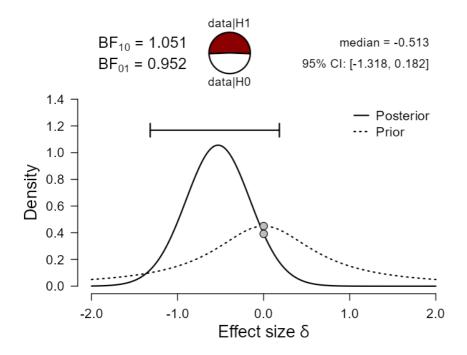
Mischief



Inferential Plots

Mischief

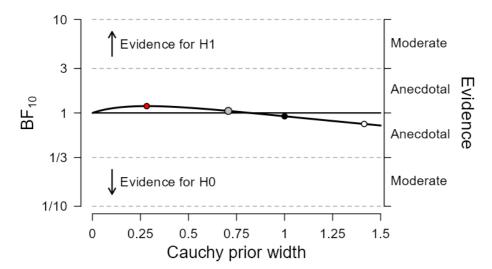
Prior and Posterior



Bayes Factor Robustness Check

max BF₁₀: 1.183 at r = 0.2824

• user prior: $BF_{10} = 1.051$ • wide prior: $BF_{01} = 1.086$ • ultrawide prior: $BF_{01} = 1.313$



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[3] Fox, J., & Weisberg, S. (2020). *car: Companion to Applied Regression*. [R package]. Retrieved from https://cran.r-project.org/package=car.

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[5] 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.

[6] 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.