

Results

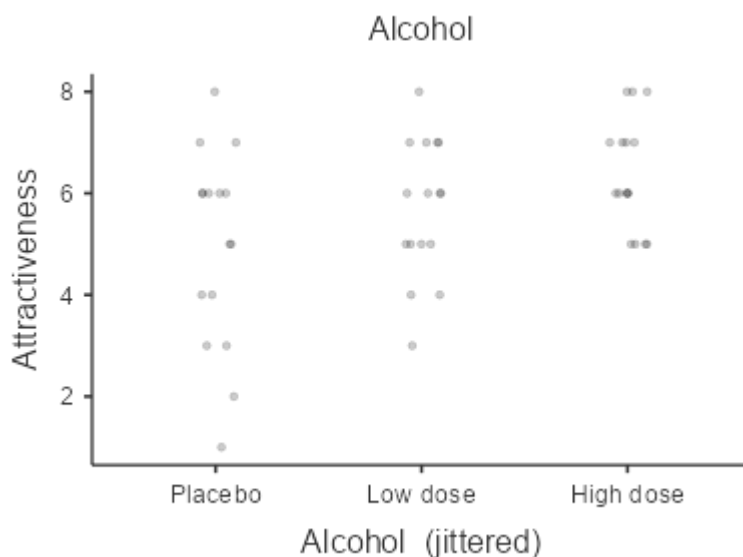
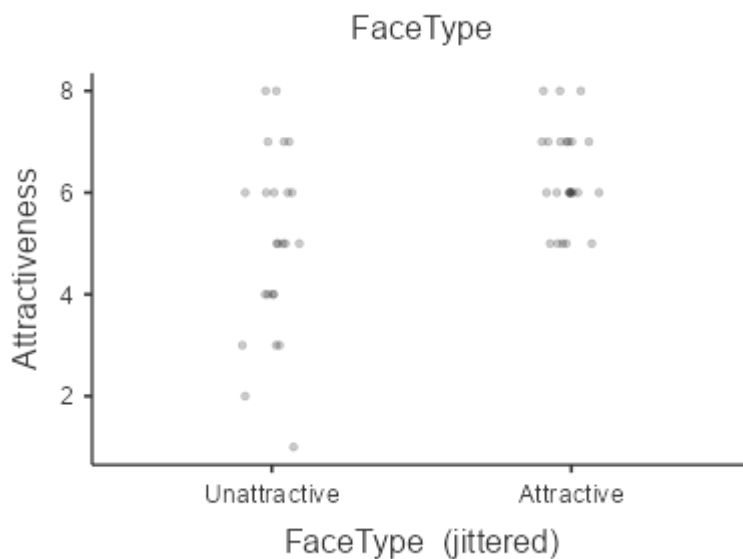
Relationships, Prediction, and Group Comparisons

You have entered a numeric dependent variable and two categorical (nominal/ordinal) independent variables. Hence, a [two way ANOVA](#) seems to be a good option for you! In order to run this analysis in jamovi, go to: ANOVA > ANOVA

- Drop your numeric dependent variable in the box below Dependent Variable and your two independent (grouping) variables in the box below Fixed Factors

Click on the link to learn more about this method!

Scatter Plots of Bivariate Relationships - Dependent/Independent Variables



Descriptives

Descriptives
N
Missing
Mean
Median
Standard deviation
Minimum
Maximum

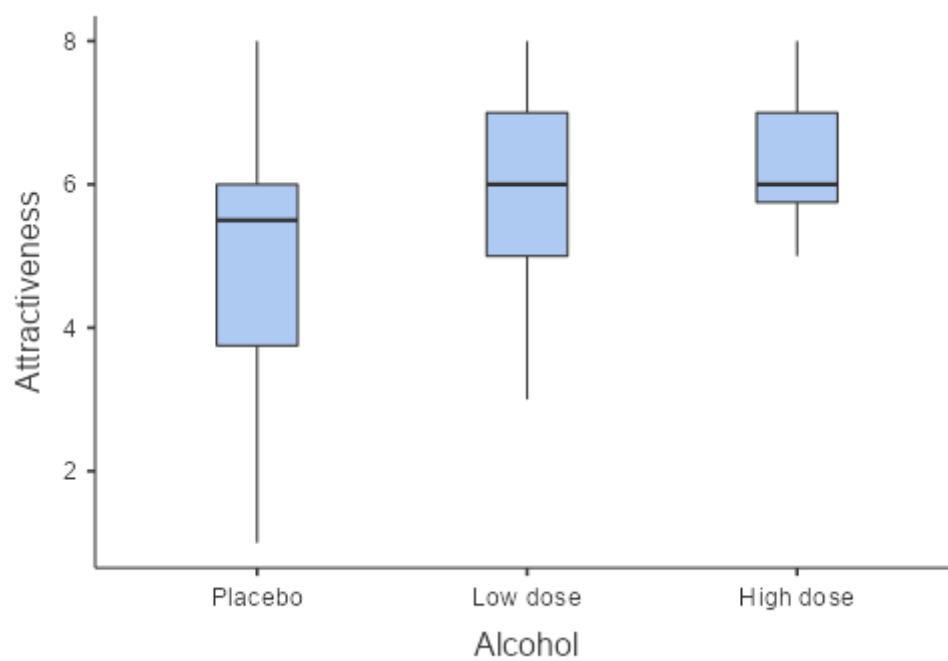
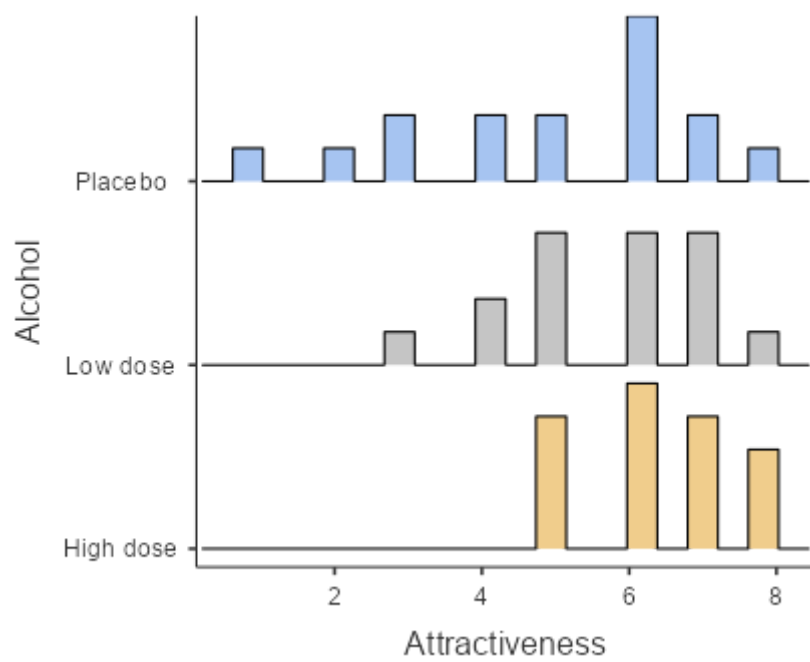
Descriptives

Descriptives

	Alcohol	Attractiveness
N	Placebo	16
	Low dose	16
	High dose	16
Missing	Placebo	0
	Low dose	0
	High dose	0
Mean	Placebo	4.94
	Low dose	5.69
	High dose	6.38
Median	Placebo	5.50
	Low dose	6.00
	High dose	6.00
Standard deviation	Placebo	1.95
	Low dose	1.35
	High dose	1.09
Minimum	Placebo	1.00
	Low dose	3.00
	High dose	5.00
Maximum	Placebo	8.00
	Low dose	8.00
	High dose	8.00
Skewness	Placebo	-0.518
	Low dose	-0.271
	High dose	0.189
Std. error skewness	Placebo	0.564
	Low dose	0.564
	High dose	0.564
Kurtosis	Placebo	-0.424
	Low dose	-0.440
	High dose	-1.15
Std. error kurtosis	Placebo	1.09
	Low dose	1.09
	High dose	1.09
Shapiro-Wilk W	Placebo	0.947
	Low dose	0.951
	High dose	0.880
Shapiro-Wilk p	Placebo	0.447
	Low dose	0.506
	High dose	0.039

Plots

Attractiveness



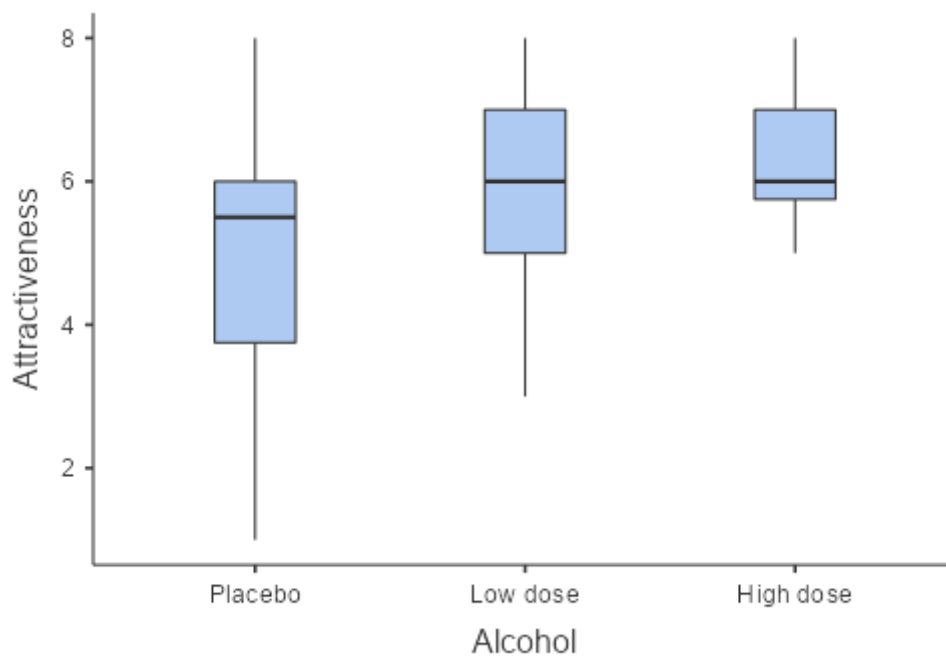
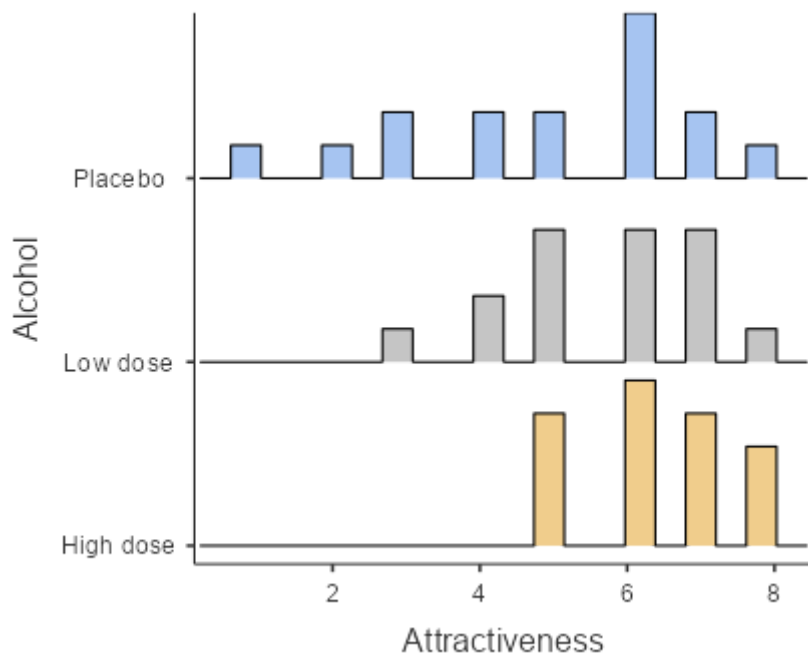
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Plots

Attractiveness



ANOVA

ANOVA - Attractiveness

	Sum of Squares	df	Mean Square	F	p	ω^2
FaceType	21.3	1	21.33	15.58	< .001	0.166
Alcohol	16.5	2	8.27	6.04	0.005	0.115
FaceType * Alcohol	23.3	2	11.65	8.51	< .001	0.171
Residuals	57.5	42	1.37			

[3]

Assumption Checks

Homogeneity of Variances Test (Levene's)

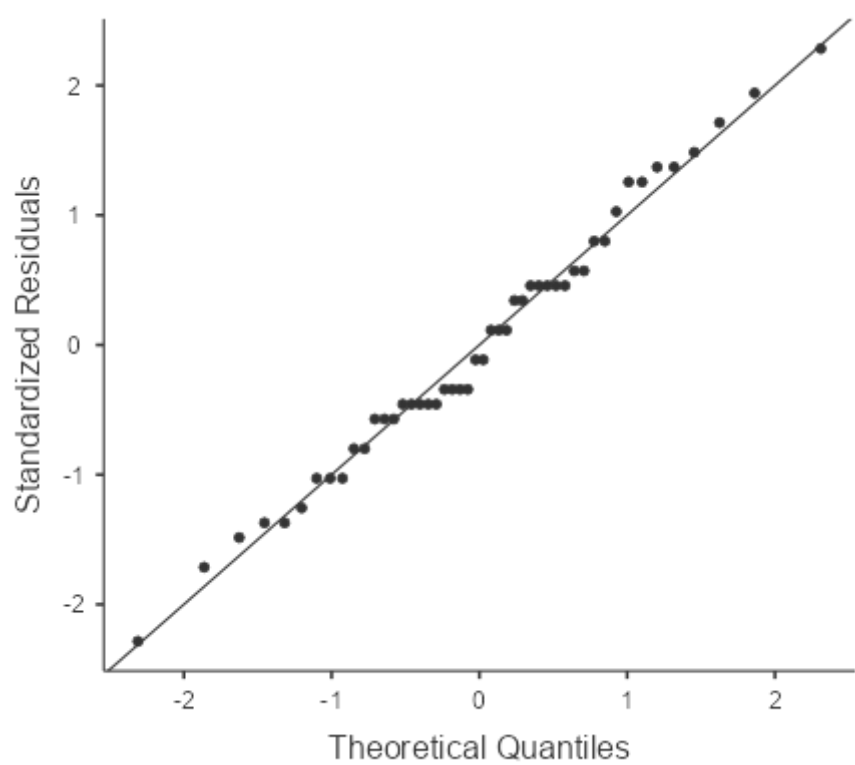
F	df1	df2	p
0.702	5	42	0.625

[3]

Normality Test (Shapiro-Wilk)

Statistic	p
0.987	0.878

Q-Q Plot



Post Hoc Tests

Post Hoc Comparisons - FaceType

Comparison		Mean Difference	SE	df	t	P _{tukey}	Cohen's d
FaceType	FaceType						
Unattractive	- Attractive	-1.33	0.338	42.0	-3.95	< .001	-1.14

Note. Comparisons are based on estimated marginal means

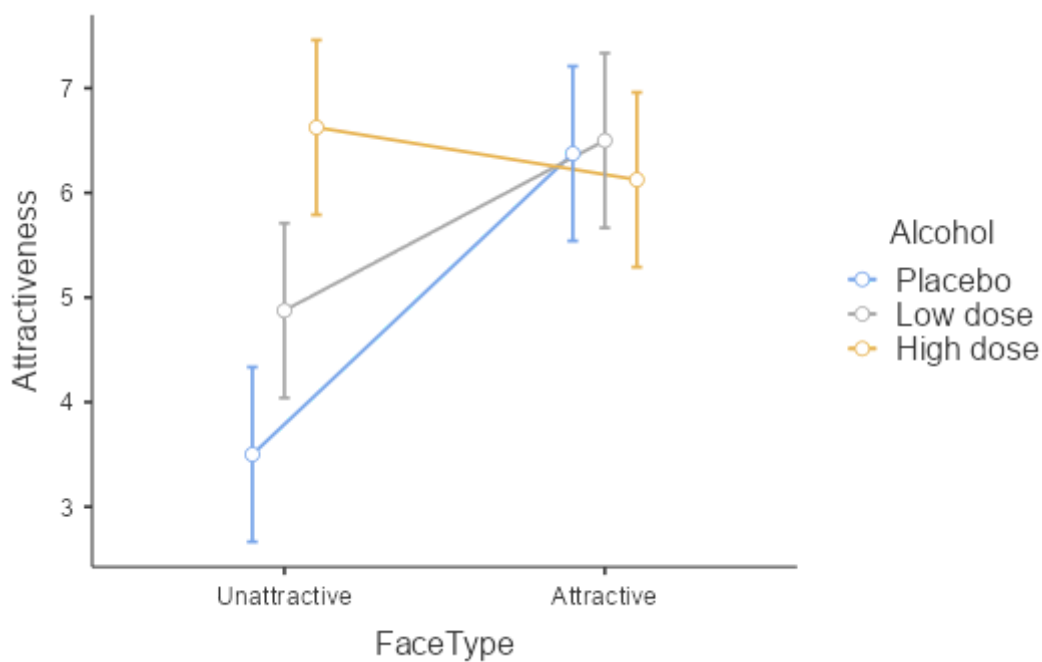
Comparison								
Alcohol	Alcohol	Mean Difference	SE	df	t	P _{Tukey}	Cohen's d	
Placebo	- Low dose	-0.750	0.414	42.0	-1.81	0.178	-0.641	
	- High dose	-1.437	0.414	42.0	-3.47	0.003	-1.229	
Low dose	- High dose	-0.688	0.414	42.0	-1.66	0.232	-0.588	

Note. Comparisons are based on estimated marginal means

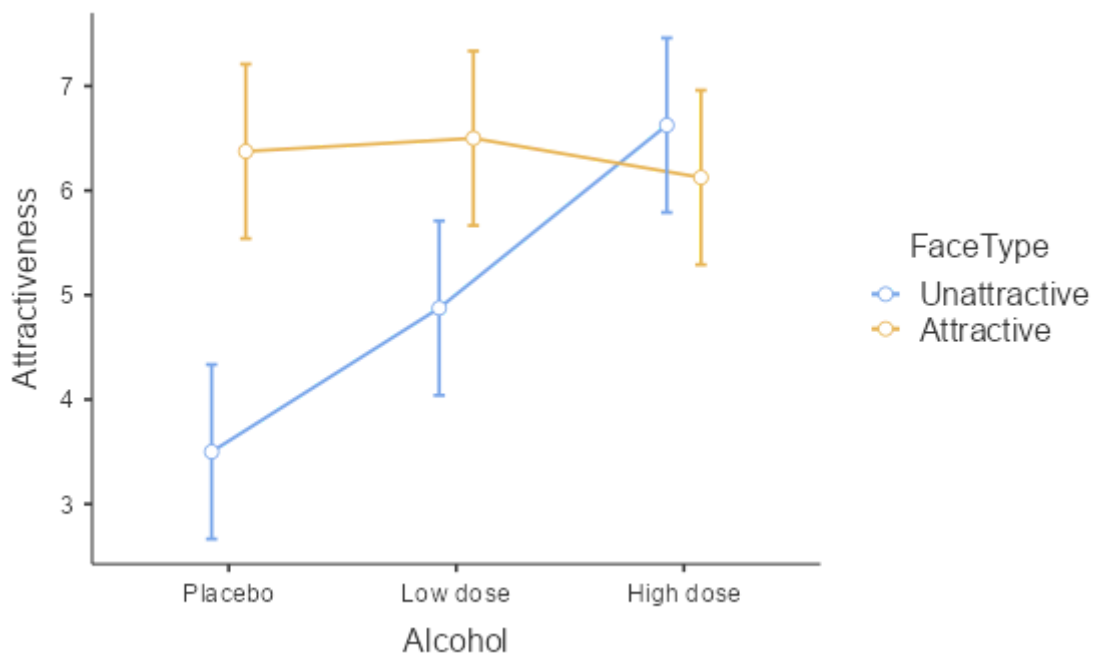
[4]

Estimated Marginal Means

FaceType * Alcohol



Alcohol * FaceType



[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] Fox, J., & Weisberg, S. (2020). *car: Companion to Applied Regression*. [R package]. Retrieved from <https://cran.r-project.org/package=car>.
- [4] Lenth, R. (2020). *emmeans: Estimated Marginal Means, aka Least-Squares Means*. [R package]. Retrieved from <https://cran.r-project.org/package=emmeans>.