### **Results**

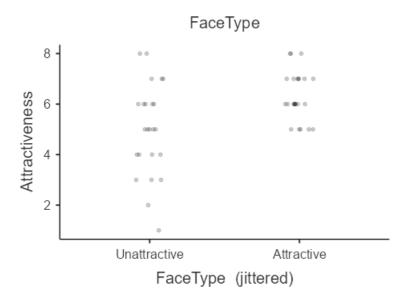
# **Relationships, Prediction, and Group Comparisons**

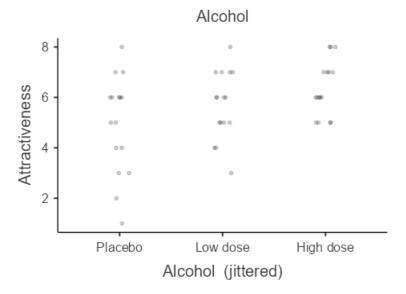
You have entered a numeric dependent variable and two categorical (nominal/ordinal) independent variables. Hence, a <u>two way ANOVA</u> seems to be a good option for you! In order to run this analysis in jamovi, go to: ANOVA > ANOVA

• 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**



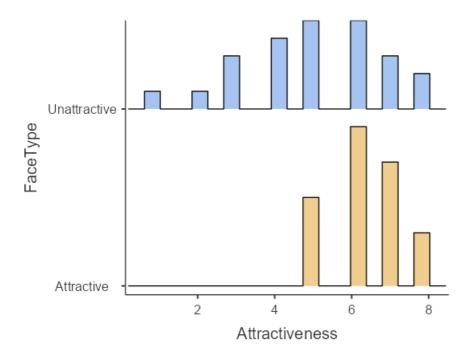


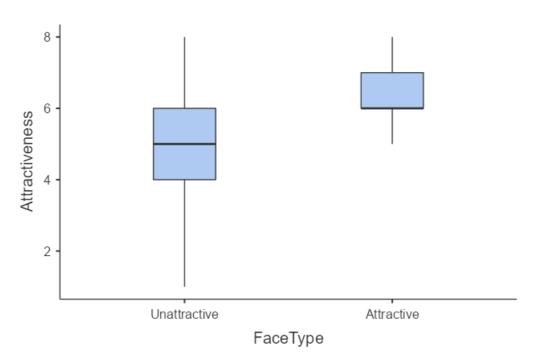
# **Descriptives**

	FaceType	Attractiveness
N	Unattractive Attractive	24 24
Missing	Unattractive Attractive	0
Mean	Unattractive Attractive	5.00 6.33
Median	Unattractive Attractive	5.00 6.00
Standard deviation	Unattractive Attractive	1.82 0.963
Minimum	Unattractive Attractive	1.00 5.00
Maximum	Unattractive Attractive	8.00 8.00
Skewness	Unattractive Attractive	-0.284 0.201
Std. error skewness	Unattractive Attractive	0.472 0.472
Kurtosis	Unattractive Attractive	-0.312 -0.781
Std. error kurtosis	Unattractive Attractive	0.918 0.918
Shapiro-Wilk W	Unattractive Attractive	0.966 0.884
Shapiro-Wilk p	Unattractive Attractive	0.567 0.010

## **Plots**

#### **Attractiveness**

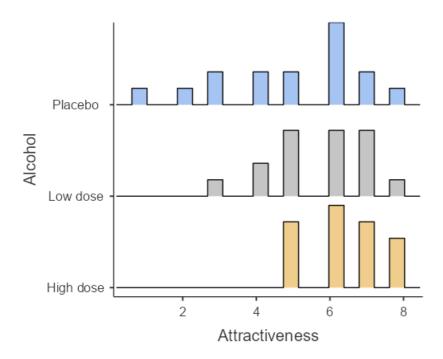


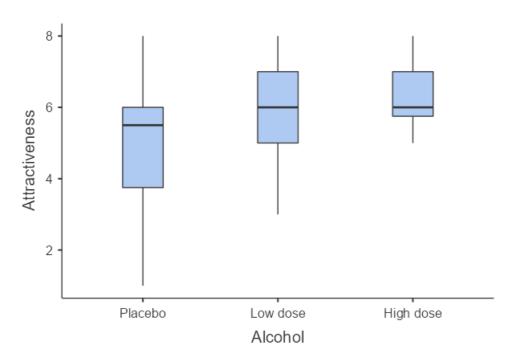


# **Descriptives**

	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**





# **ANOVA**

ANOVA - Attractiveness

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

[3]

Homogeneity of Variances Test (Levene's)

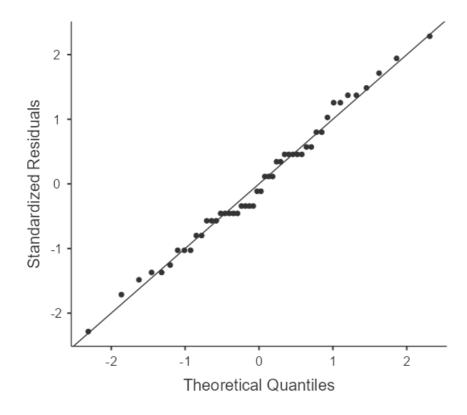
F	df1	df2	р
0.702	5	42	0.625

[3]

Normality Test (Shapiro-Wilk)

Statistic	р			
0.987	0.878			

### **Q-Q Plot**



### **Post Hoc Tests**

Post Hoc Comparisons - FaceType

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

Note. Comparisons are based on estimated marginal means

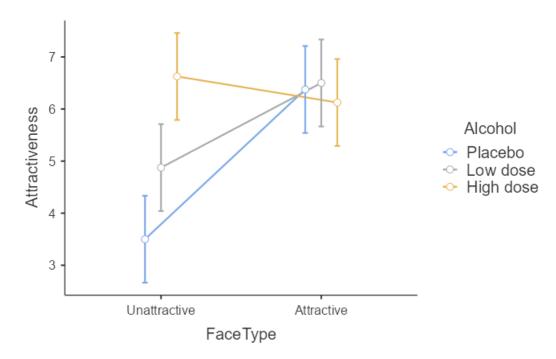
Comparison		_						
Alcohol	Alcohol Alcohol		Mean Difference	SE	df	t	P <sub>tukey</sub>	Cohen's d
Placebo	-	Low dose	-0.750	0.414	42.0	-1.81	0.178	-0.641
	-	High dose	-1.437	0.414	42.0	-3.47	0.003	-1.229
Low dose	-	High dose	-0.688	0.414	42.0	-1.66	0.232	-0.588

Note. Comparisons are based on estimated marginal means

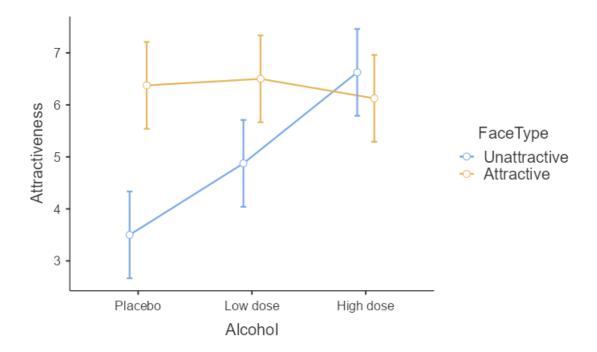
[4]

# **Estimated Marginal Means**

# FaceType \* Alcohol



Alcohol \* FaceType



[4]

### References

[1] The jamovi project (2022). jamovi. (Version 2.3) [Computer Software]. Retrieved from <a href="https://www.jamovi.org">https://www.jamovi.org</a>.

[2] R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.1) [Computer software]. Retrieved from <a href="https://cran.r-project.org">https://cran.r-project.org</a>. (R packages retrieved from MRAN snapshot 2022-01-01).

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

**[4]** Lenth, R. (2020). *emmeans: Estimated Marginal Means, aka Least-Squares Means*. [R package]. Retrieved from <a href="https://cran.r-project.org/package=emmeans">https://cran.r-project.org/package=emmeans</a>.