

Results

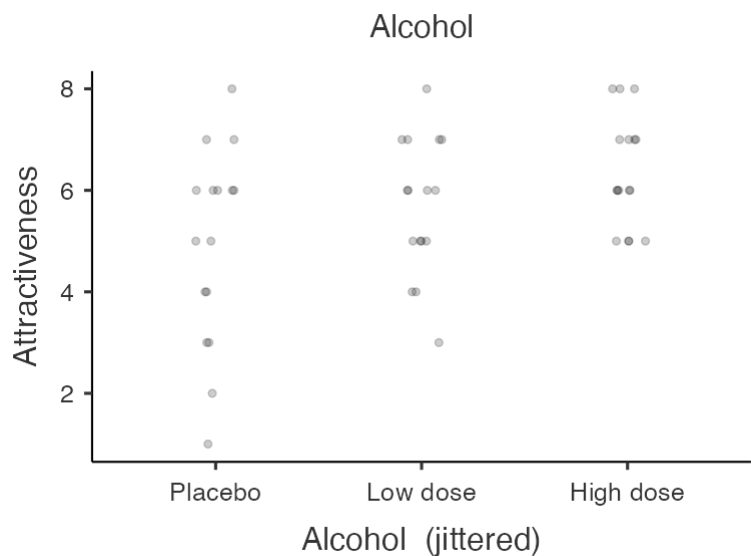
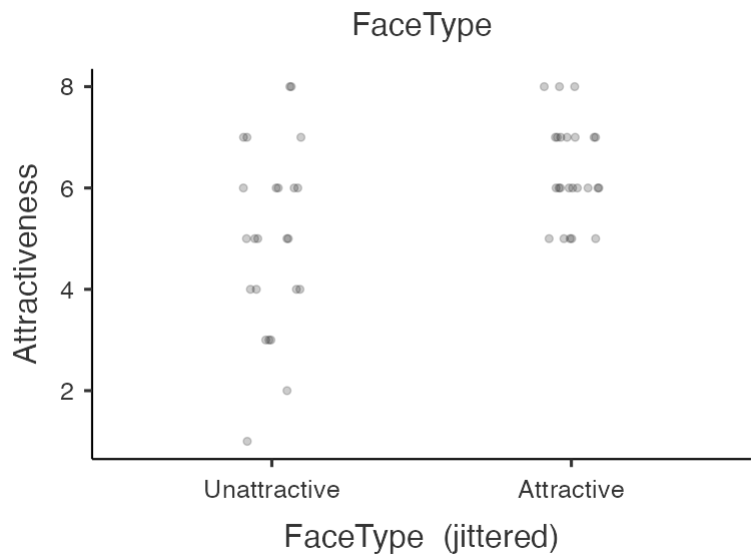
Relationships, Prediction, and Group Comparisons

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



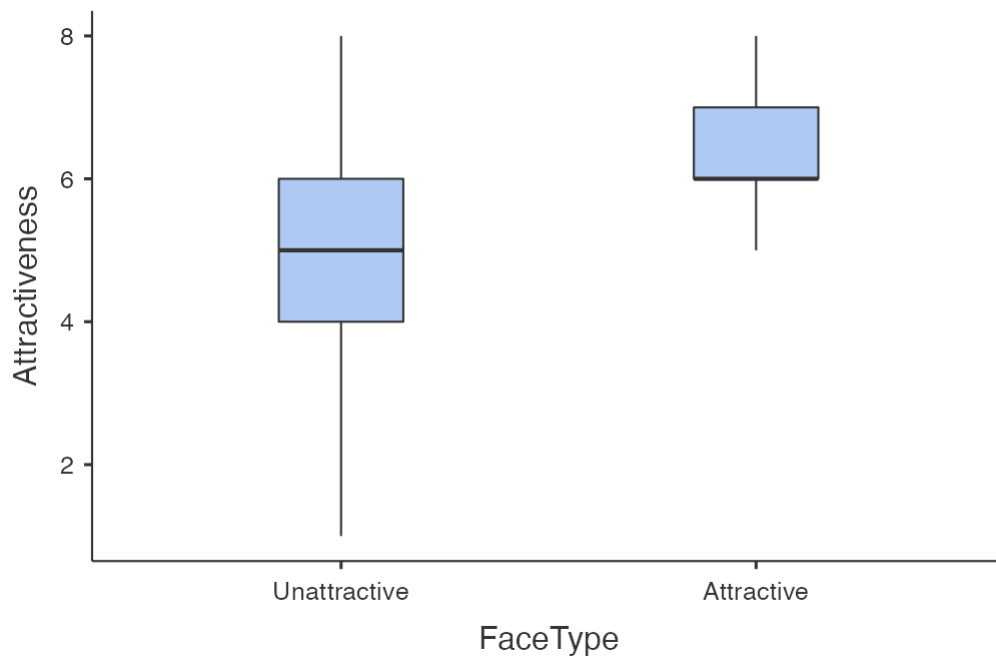
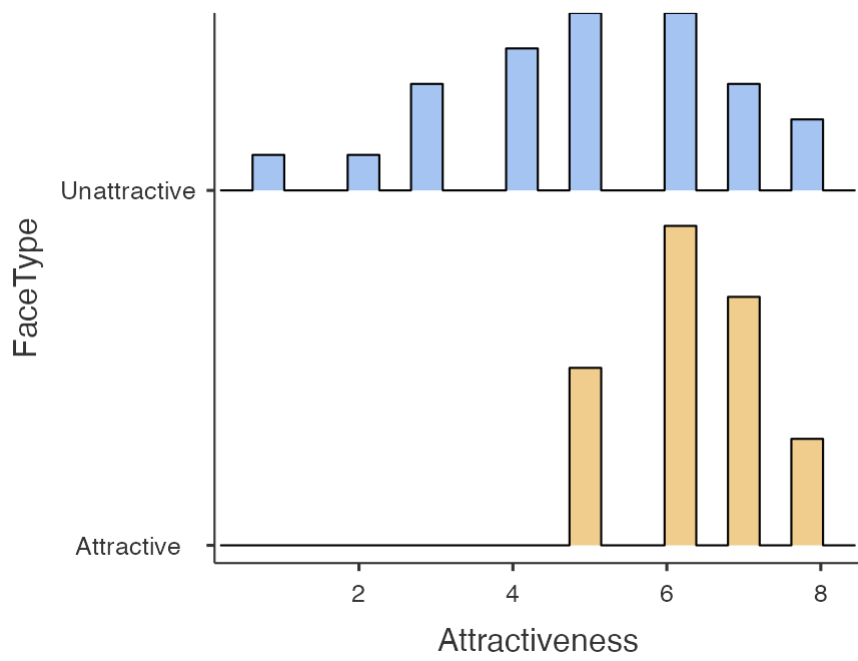
Descriptives

Descriptives

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

Plots

Attractiveness



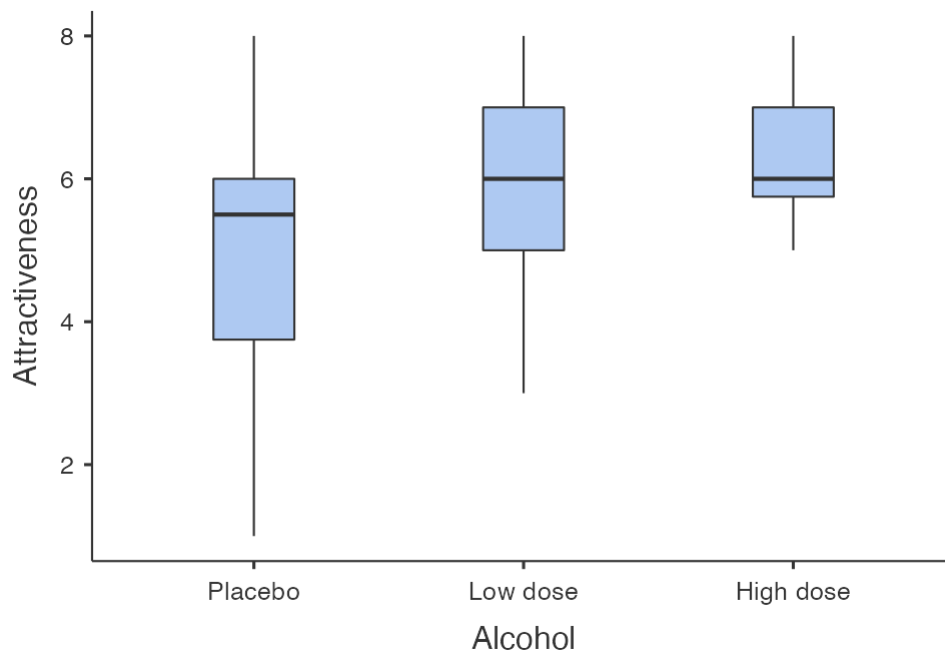
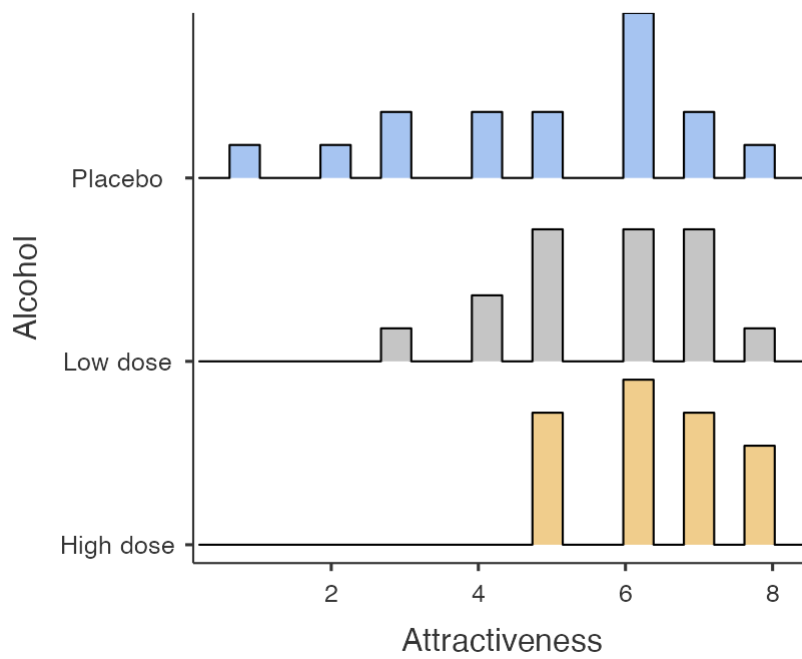
Descriptives

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



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 Tests

| | Statistic | df | df2 | p |
|------------|-----------|----|-----|-------|
| Levene's | 0.702 | 5 | 42 | 0.625 |
| Bartlett's | 3.14 | 5 | | 0.678 |

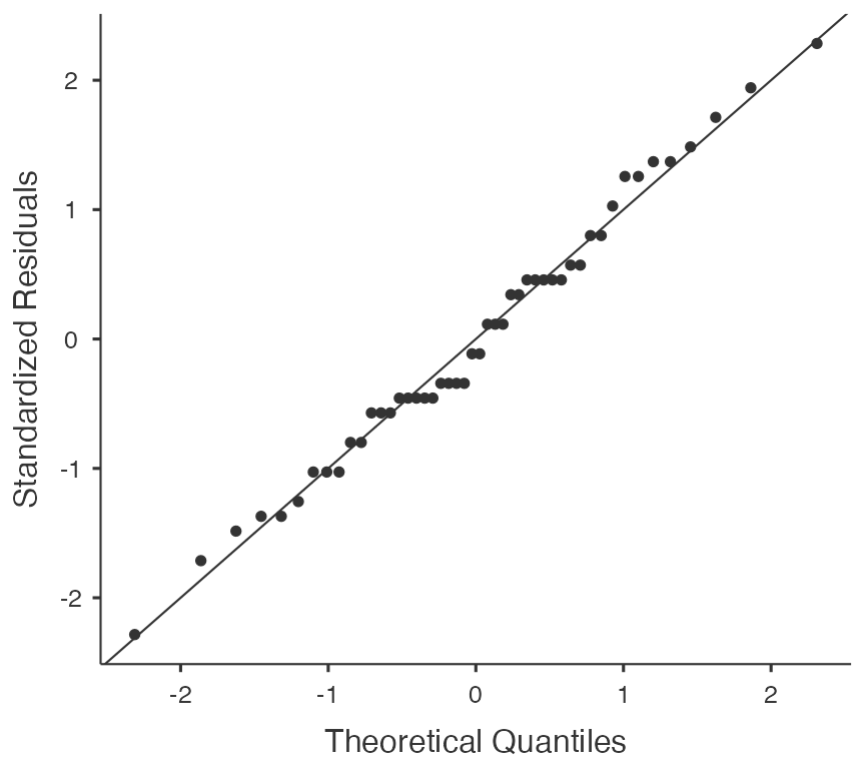
Note. Additional results provided by *moretests*

Normality tests

| | statistic | p |
|--------------------|-----------|-------|
| Shapiro-Wilk | 0.987 | 0.878 |
| Kolmogorov-Smirnov | 0.112 | 0.585 |
| Anderson-Darling | 0.288 | 0.605 |

Note. Additional results provided by *moretests*

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

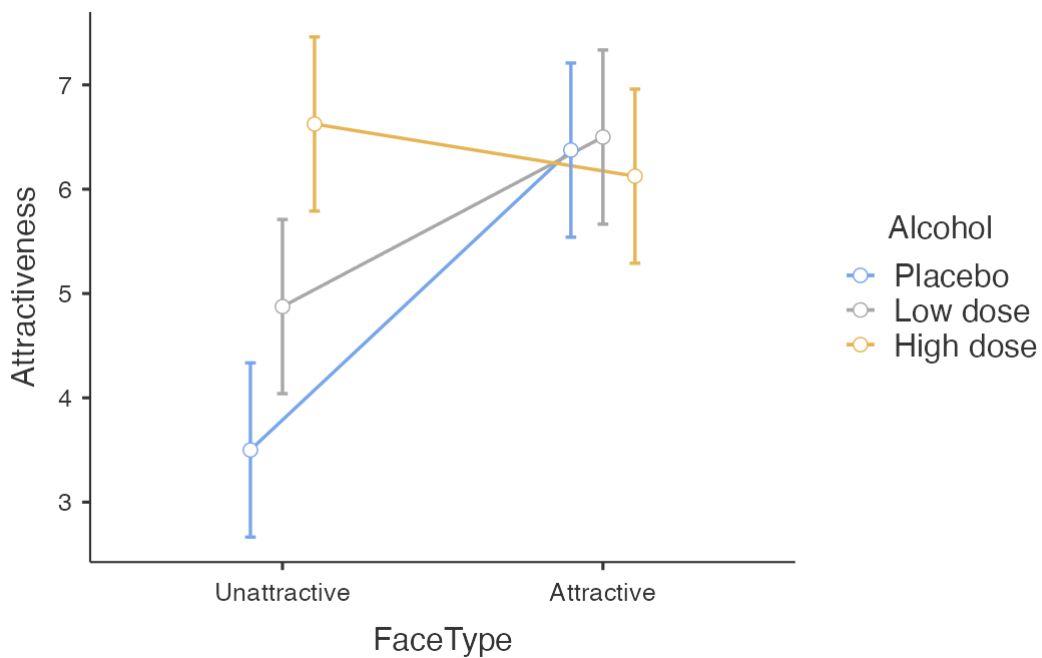
| Comparison | | Mean Difference | SE | df | t | p _{Tukey} | Cohen's d |
|------------|-----------|-----------------|-------|------|-------|--------------------|-----------|
| Alcohol | Alcohol | | | | | | |
| Placebo | Low dose | -0.750 | 0.414 | 42.0 | -1.81 | 0.178 | -0.641 |
| | High dose | -1.437 | 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

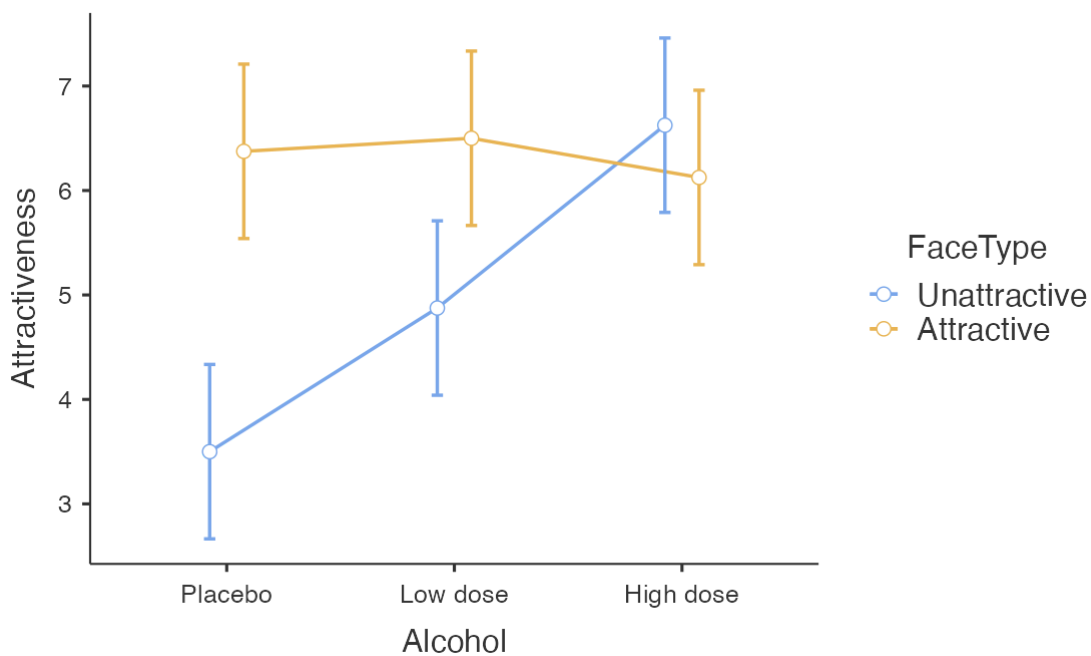
[4]

Estimated Marginal Means

FaceType * Alcohol



Alcohol * FaceType



[4]

References

- [1] The jamovi project (2022). *jamovi*. (Version 2.3) [Computer Software]. Retrieved from <https://www.jamovi.org>.
- [2] R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.1) [Computer software]. Retrieved from <https://cran.r-project.org>. (R packages retrieved from MRAN snapshot 2022-01-01).
- [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>.