**Statistics for Social Science**

**Volume: jamovi  
Chapter: Blank Output**

**Abstract:** This chapter is used as worksheets for class problems. Students fill in their answers on these sheets, thus making clear the links between non-computer (“hand”) calculations and the jamovi output.

**Keywords:** jamovi output, worksheets

**Original:** July 2017

**Updated:** July 2020

This document is part of an online statistics sourcebook.

A browser-friendly viewing platform for the sourcebook is available:

<https://cwendorf.github.io/Sourcebook>

All data, syntax, and output files are available:

<https://github.com/cwendorf/Sourcebook>

**Table of Contents for This Chapter**

[Descriptives (Frequencies and Descriptives) 3](#_Toc26012486)

[Correlations (Bivariate) 4](#_Toc26012487)

[T-Test (One Sample) 5](#_Toc26012488)

[T-Test (Paired Samples) 6](#_Toc26012489)

[T-Test (Independent Samples) 7](#_Toc26012490)

[ANOVA (OneWay ANOVA) 8](#_Toc26012491)

[Post Hoc Tests (OneWay ANOVA) 9](#_Toc26012492)

[Repeated Measures ANOVA 10](#_Toc26012493)

[ANOVA (Factorial ANOVA) 11](#_Toc26012494)

# Descriptives (Frequencies and Descriptives)

Descriptives

|  |  |
| --- | --- |
| Variable: | \_\_\_\_\_\_\_\_\_\_ |
| N | \_\_\_\_\_\_\_\_\_\_ |
| Missing | \_\_\_\_\_\_\_\_\_\_ |
| Mean | \_\_\_\_\_\_\_\_\_\_ |
| Std. Deviation | \_\_\_\_\_\_\_\_\_\_ |
| Variance | \_\_\_\_\_\_\_\_\_\_ |
| 25th percentile | \_\_\_\_\_\_\_\_\_\_ |
| 50th percentile | \_\_\_\_\_\_\_\_\_\_ |
| 75th percentile | \_\_\_\_\_\_\_\_\_\_ |

**Frequencies**

Frequencies for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| Levels | Counts |
| \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |

# Correlations (Bivariate)

**Descriptives**

Descriptives

|  |  |  |
| --- | --- | --- |
|  | Variable: \_\_\_\_\_\_\_\_\_ | Variable: \_\_\_\_\_\_\_\_\_ |
| N | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_ |
| Missing | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_ |
| Mean | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Std. Deviation | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |

**Correlation Matrix**

Correlation Matrix

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Variable: \_\_\_\_\_\_\_\_\_ | Variable: \_\_\_\_\_\_\_\_\_ |
| Variable: \_\_\_\_\_\_\_\_\_ | Pearson’s r | XXXXX | \_\_\_\_\_\_\_ |
| p-value | XXXXX | \_\_\_\_\_\_\_ |
| Variable: \_\_\_\_\_\_\_\_\_ | Pearson’s r |  | XXXXX |
| p-value |  | XXXXX |

# T-Test (One Sample)

One-Sample T-Test

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Mean  Difference |  | 95% Confidence Interval | |
| Variable: | Statistic | df | p | Cohen’s d | Lower | Upper |
| \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ |

*Note.* All tests, hypothesis is population mean is different from \_\_\_\_\_\_

Descriptives

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable: | N | Mean | Median | SD | SE |
| \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |

# T-Test (Paired Samples)

Paired Samples T-Test

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Mean  Difference | SE Difference |  | 95% Confidence Interval | |
| Variables: | Statistic | df | p | Cohen’s d | Lower | Upper |
| \_\_\_\_\_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ |

Descriptives

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable: | N | Mean | Median | SD | SE |
| \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
| \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |

# T-Test (Independent Samples)

Independent Samples T-Test

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Mean  Difference | SE Difference |  | 95% Confidence Interval | |
| Variables: | Statistic | df | p | Cohen’s d | Lower | Upper |
| \_\_\_\_\_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ |

Group Descriptives

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Variable: | Group | N | Mean | Median | SD | SE |
| \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
|  | \_\_\_\_\_ | \_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |

# ANOVA (OneWay ANOVA)

ANOVA

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Sum of Squares | df | Mean Square | F | p | η2 |
| Factor: \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Residuals | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_ |  |  |  |

Descriptives

|  |  |  |  |
| --- | --- | --- | --- |
| Factor: \_\_\_\_\_\_\_\_\_ | N | Mean | SD |
| Level 1 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Level 2 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Level 3 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |

# Post Hoc Tests (OneWay ANOVA)

Post Hoc Comparisons - Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Comparison | | Mean Difference |  |  |  |  |
| Factor: \_\_\_ | Factor: \_\_\_ | SE | df | t | pTUKEY |
| Level 1 | Level 2 | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
|  | Level 3 | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |
| Level 2 | Level 3 | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_ |

Descriptives

|  |  |  |  |
| --- | --- | --- | --- |
| Factor: \_\_\_\_\_\_\_\_\_ | N | Mean | SD |
| Level 1 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Level 2 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Level 3 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |

# Repeated Measures ANOVA

Within Subjects Effects

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Sum of Squares | df | Mean Square | F | p | Partial η2 |
| RM Factor 1 | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Residual | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_ |  |  |  |

*Note.* Type 3 Sum of Squares

Between Subjects Effects

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Sum of Squares | df | Mean Square | F | p | Partial η2 |
| Residual | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_ |  |  |  |

*Note.* Type 3 Sum of Squares

Descriptives

|  |  |  |  |
| --- | --- | --- | --- |
| Factor: \_\_\_\_\_\_\_\_\_ | N | Mean | SD |
| Level 1 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Level 2 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Level 3 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |

# ANOVA (Factorial ANOVA)

ANOVA

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Sum of Squares | df | Mean Square | F | p | η2 |
| Factor A | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Factor B | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Factor A \* Factor B | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Residual | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_ |  |  |  |

Descriptives

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Factor A | Factor B | N | Mean | SD |
| Level 1 | Level 1 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Level 1 | Level 2 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Level 2 | Level 1 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |
| Level 2 | Level 2 | \_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_ |