Statistical Tests Demonstrated in Stat-Tree Version 5.1

For Comparative Hypotheses:	For Relational Hypotheses:
Parametric	Parametric
Independent Samples *t*-Test*	Pearson Product-moment Correlation*
Paired-samples *t*-Test*	Canonical Correlation
One-way Analysis of Variance (ANOVA)*	Simple Linear Regression*
One-way Analysis of Covariance (ANCOVA)	Multiple Regression*
Two-way Analysis of Variance (Factorial ANOVA)	
Two-way Analysis of Covariance (Factorial ANCOVA)	
Repeated Measures Analysis of Variance (ANOVA)	
One-way Multivariate Analysis of Variance (MANOVA)	
One-way Multivariate Analysis of Covariance (MANCOVA)	
Two-way Multivariate Analysis of Variance (Factorial MANOVA)	
Two-way Multivariate Analysis of Covariance (Factorial MANCOVA)	
Non-Parametric	Non-Parametric
Pearson One-way Chi-Square*	Cramer's *V*
Contingency Analysis (Factorial Chi-Square)	Spearman Rank Order Correlation*
McNemar's Test	Biserial Correlation*
Mann-Whitney *U* *	Somers' *d*
Kruskal-Wallis *H* *	Logistic Regression
Wilcoxon Matched Pairs Signed-Rank Test*	Discriminant Analysis
Cochran's *Q*	
Friedman Two-way Analysis of Variance	

For Testing Assumptions about Data
Normality
Kolmogorov-Smirnov*
Shapiro-Wilks**
Doornik-Hansen***
Equality of Variance
Levene's Test for Homogeneity of Variance*
Tests for Outliers
Mahalanobis Distance**
Minimum Covariance Determinant (MCD)***

Tests demonstrated in *R*, SPSS™, SAS™, and Stata™

* Tests also demonstrated in Julia and Python.

** Tests also demonstrated in Python.

*** Tests also demonstrated in Julia.