Stat-Tree Welcome and Demonstration

Welcome to Stat Tree!

Stat Tree is designed to help you determine the most appropriate statistical test for your research question or hypothesis. Whether you are trying to determine the best way to describe your data, or how to run a particular statistical test, Stat Tree should be your first stop. Now press start!

Stat Tree provides demonstrations for basic and advanced users. Basic users will be presented with demonstrations of descriptive statistics in Excel and introductory inferential statistical procedures using the menus in SPSS. Included in this version are shortcuts from these basic procedures to the demonstrations of these same procedures in the advanced section, including demonstrations in Julia, Python, R, SAS, SPSS, and Stata. Also in this version is a test index where users can navigate directly to specific statistical tests.

For advanced users, Stat Tree provides demonstrations of more advanced procedures, including nonparametric statistics, factorial, multivariate, and repeated measures designs, in Julia, Python, R, SAS, SPSS, and Stata. Demonstration pages in Stat Tree also include the scripts for these procedures in code appropriate to the statistical analysis program. The scripts of code can be copied, pasted and edited for your use.

Stat Tree also provides sample output for each of these statistical procedures, as well as examples of how to write results from this output in APA style.

Before you begin, there are a few things you need to know. First, what are your objectives? Are you summarizing data on one variable, or are you trying to test a hypothesis? If you are testing a hypothesis, is the hypothesis a comparative type or a relational type?

You will also need to know how many variables are specified in the hypothesis, what type of variable for each variable in your hypothesis, and how many values on any categorical variables that may be in your hypothesis. Stat Tree will guide you through those questions and demonstrate how to use the tools at your disposal to answer your most important research questions.

All data used for demonstrations in Stat Tree are fictitious and based upon a survey of general interest to a wide audience. All tests in Stat Tree utilize the same dataset, and each statistical procedure uses the same variables across all statistical analysis programs, so that you can compare the scripts, outputs and reports.

Stat Tree is your go to for answering your questions about what and how to run and report on statistical tests.

Also browse the newly revised Stat Tree Help! In Help are demonstrations of common tasks associated with data analysis.

