IT'S THE VISION THING...

the best ideas don't materialize out of thin air. Statgraphics is the predictive analytics software solution that provides clarity and insights to make the right decisions.

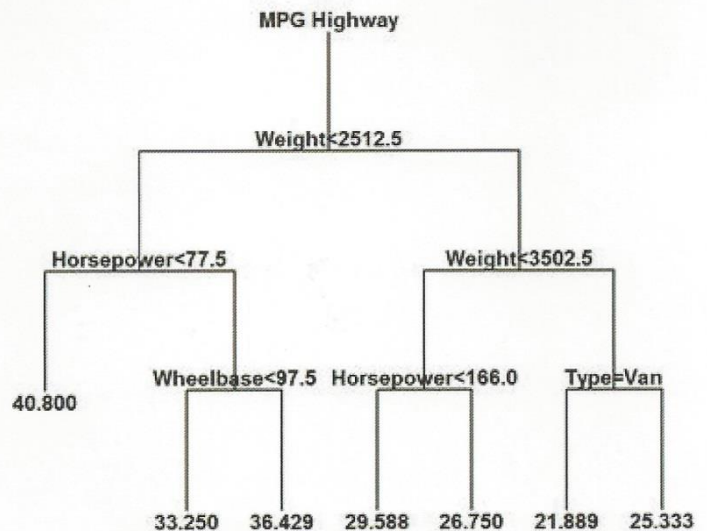## Especially noteworthy in Statgraphics 18

U.S. Commercial Flight Delays 1991-2008
ArrDelay = -1.5244 + 1.01088*DepDelay

n = 104,476,784 flights
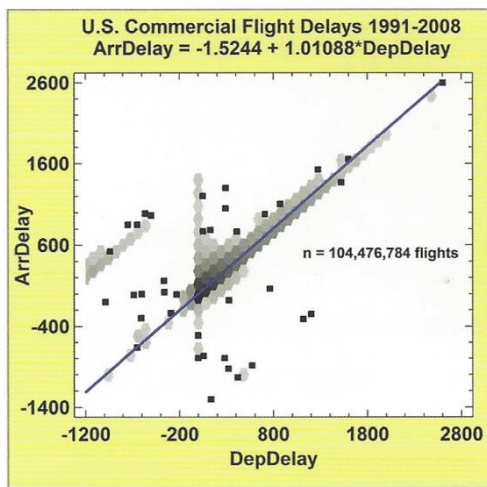
Big Data Analytics:

A differentiator between Statgraphics and competing programs:
Version 18 is equipped with expanded capacity for Big Data size volume. The new SGB file format handles millions of rows and thousands of columns. The SGB component file structure dramatically reduces the time needed to access big data, while hexagon plots automatically replace scatterplots to make graphs of big data almost instantaneous.

The R Interface

enables users to greatly expand the capabilities of Statgraphics. Seamless integration with R programs means that data scientists working in R and Statgraphics users can now share their work with others throughout the organization, speeding the flow of actionable information. **Dialog-Based Interface to R Libraries:** Easy to use dialog boxes automatically create R scripts and call selected libraries. Select the data to be analyzed, choose your options, and let Statgraphics do the rest. Version 18 includes interfaces for Text Mining, Classification and Regression Trees, X-13ARIMA-SEATS Seasonal Adjustment of time series data, Multidimensional Scaling, and Distribution Fitting of Arbitrarily Censored Data.

Text Mining:

Vital in todays Big Data environment. And Statgraphics 18 brings it. The future of big data is quasi-unstructured. Non-programmers can obtain useful information from computing systems which are able to draw insights from data contained in emails, videos, and other material that, in the past, has been too unstructured to be used .

Advanced Process Capability Analysis:

New procedures have been written to implement all of the material contained in the book **Process Capability Analysis: Estimating Quality** by **Dr. Neil W. Polhemus**. Included are procedures for Bayesian estimation of process capability, analysis of non-normal data, multivariate statistical tolerance limits, capability control charts, and sample size determination.

Modern Data Visualization Procedures:

Additions to V18 include dynamic population pyramids, wind roses, tornado and butterfly plots, Likert plots, diamond plots, sunflower plots, time series baseline plots, heat maps, ribbon plots, violin plots, donut charts, and much more. Demographic maps may now be constructed from SHP files and used to display data by regions or locations.
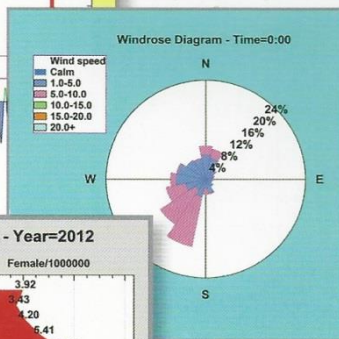
statgraphics 18™

Equivalence Test - alpha = 5%

Equivalence and Noninferiority Testing:

New procedures compare two means for independent and paired samples, compare a single mean against a target value, or analyze the results of a 2x2 crossover study.

Sunflower Plot
Number of observations: 11627
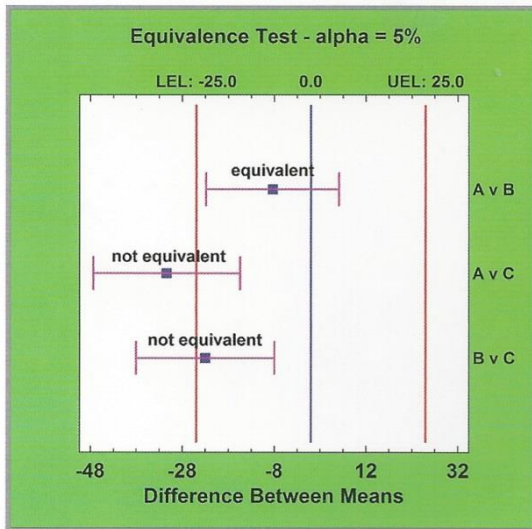
And Much More:

Such as orthogonal regression, definitive screening designs, trivariate density plots, generation of multivariate normal random samples, tests for multivariate normality, fitting of Johnson curves, automatic creation of analyses for a list of variables, and new variable types for censored data and currency. Together with a brand-new installation program that allows network users to check out licenses when they need to travel.

x+y-2*x*y

Oceanic Niño Index

Windrose Diagram - Time=0:00

Population Pyramid - Year=2012
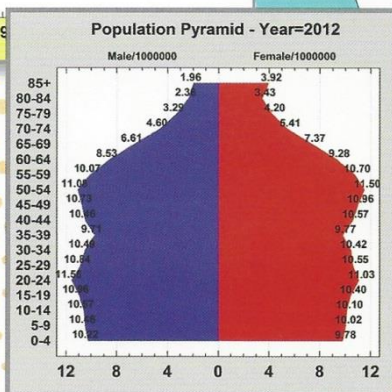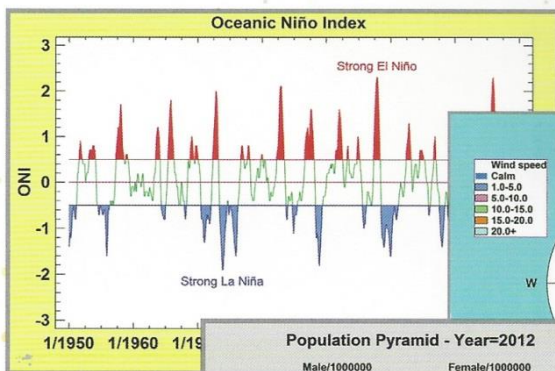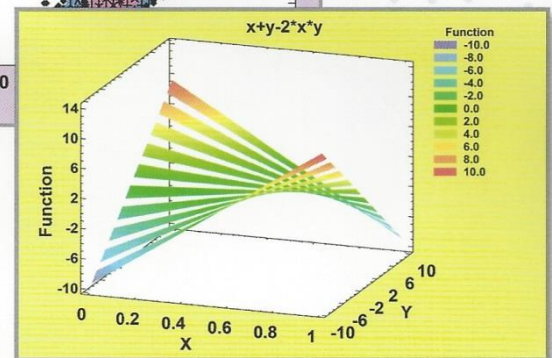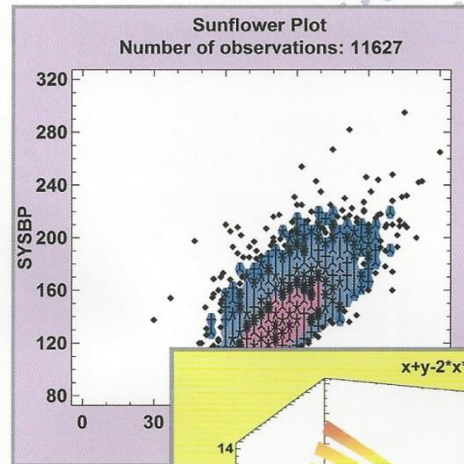
FASTER, EASIER, SMARTER

There isn't a package anywhere that will let you get your arms around data analysis as easily as STATGRAPHICS 18. With features like StatAdvisor™, which automatically provides easy-to-understand interpretations of your results; StatWizard™, which helps you choose the best analysis method and takes you through it step-by-step; and truly interactive graphics. You'll wonder how you managed without it.

Population of largest cities: 2010

Bivariate Density

Temperature (96–102) vs Heart Rate (55–95)
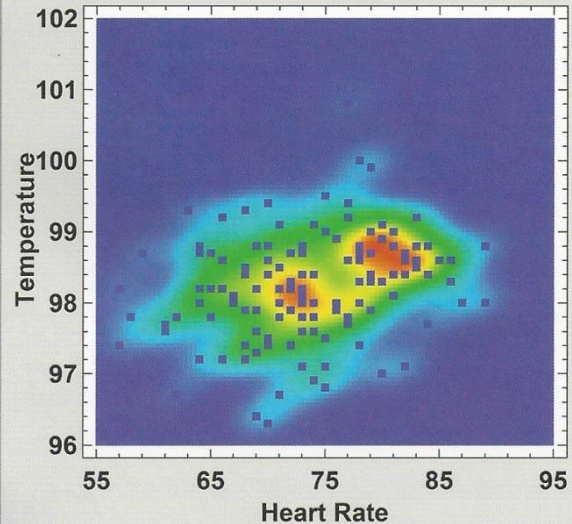
COMPLETE ONLINE DOCUMENTATION

You'll like what you find behind our statistics. Our online help system, video and user manuals and documentation make navigating the STATGRAPHICS 18 system a breeze. A statistical glossary and context-sensitive help let you search for topics by name or keywords. We've also included online tools to walk you through key analyses and features. Recorded webinars, targeted tutorials on our YouTube channel, 100's of PDF files with detailed documentation for each procedure with formulas and examples. All designed to speed you through your data analysis with the greatest of ease.

TECHNICAL SUPPORT

You'll find that the intuitive ease-of-use of STATGRAPHICS 18, coupled with our documentation, will guide you through most analyses. But when you need a little extra help, you can count on our software support staff, or your authorized internal dealer, for the answers you need.

statgraphics 18™

A PROVEN TRACK RECORD WITH QUALITY CONSCIOUS COMPANIES

Experience is our strongest tool…

Statgraphics 18 is the new release of the desktop data analysis software package that started it all. Since 1982, Statgraphics has been the software of choice for quality professionals, research scientists, academic and industrial concerns with clients that include over 40% of the fortune 500 companies and many of the most prominent educational institutions in the world. Statgraphics 18 contains 260 procedures and expansive new data set capacity for today's big data, business intelligence, predictive analytics, Six Sigma and beyond.

The Statgraphics Suite of data analysis products

Statgraphics Centurion 18 – Windows Desktop application with extensive capabilities for regression analysis, ANOVA, multivariate statistics, Design of Experiments, statistical process control, life data analysis, data visualization and beyond. 260 plus procedures. Everything from summary statistics to advanced statistical models in an exceptionally easy to use format.

Stratus© is our browser based product for data analysis anywhere. Calculations are performed remotely on our servers and results returned to your browser as HTML. All that is necessary is an internet connection allowing 24/7/365 access. Runs on PC, Mac, Linux, smart phones and tablets.

Sigma express© is our Excel add-in that gives quick access to Six Sigma techniques within the Excel environment. Ideal for those who are comfortable in Excel but need more statistical muscle for successful Six Sigma projects.

Statbeans© is a collection of Java Beans which implement many commonly used statistical procedures, designed to be embedded in user-created applications or placed on web pages. Their structure as a component library enables simple manipulation in various visual development environments.

Statgraphics™ .Net Web Services enable web application developers to call Statgraphics procedures from their web pages. Data and instructions are passed to the Web Services as XML. This product can be embedded in OEM or proprietary applications or can be integrated into a dashboard.

For full details on any of our products, go to:

www.statgraphics.com

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