

Introducing the *NEW* STATGRAPHICS *Centurion XVI*

“KNOW WHERE TO FIND THE INFORMATION
AND HOW TO USE IT – THAT’S THE
SECRET OF SUCCESS”

— ALBERT EINSTEIN



six sigma | anova | regression | spc | doe | forecasting | visualization | reliability

These days, the challenges are great so the goals must be lofty. Those who hope to reach the peaks of achievement must choose tools that make the difference between merely surviving or outperforming both their expectations and their competition. Since 1980, STATGRAPHICS® has been providing those tools. Now, with STATGRAPHICS® *Centurion XVI*, the power has been elevated to new heights.

The **NEW STATGRAPHICS® Centurion VERSION XVI** is packed with superior value that others promise but don't deliver. Unveil vital meaning in your data and reach better decisions. Improve quality and efficiency. Ensure accuracy. Drive dollars to the bottom-line. STATGRAPHICS® delivers unmatched solutions for understanding and acting upon the information in your data.

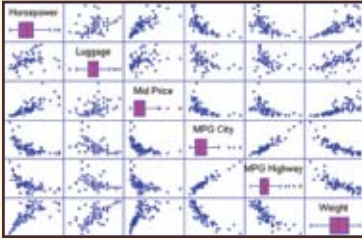
THE UNIVERSE WILL HAVE FEWER SECRETS...

 **statgraphics**®
centurion **XVI**
www.statgraphics.com

560 Broadview Avenue Suite 201 Warrenton, VA 20186
p: 540.428.0084 800.232.STAT f: 540.428.0089 info@statgraphics.com

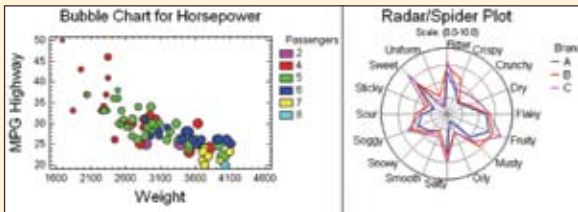
Scatterplots

- X Plot
- X-Y Plot
- Multiple X-Y Plot
- Polar Coordinates Plot
- X-Y-Z Plot
- Multiple X-Y-Z Plot
- Spherical Coordinates Plot
- Matrix Plot



Matrix Plot

Exploratory Plots



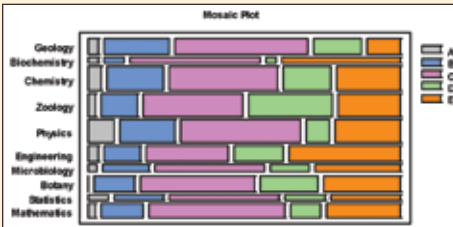
Bubble Chart

Spider Plot for Comparing Attributes

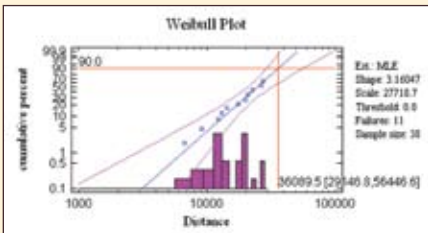
Describe

Multivariate Methods

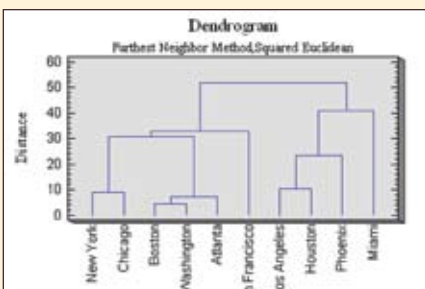
- Principal Components
- Factor Analysis
- Numeric Data
- Categorical Data
- Hypothesis Tests
- Weibull Analysis
- Canonical Correlations
- Cluster Analysis
- Distribution Fitting
- Life Data Analysis
- Multiple-Variable Analysis



Mosaic Plot from Crosstabulation



Weibull Plot from Life Data Analysis



Dendrogram from Cluster Analysis

Tools

- Expression Evaluator
- Sample Size Determination
- One Sample
- Two or More Samples
- Control Chart Design
- Six Sigma Calculator
- Screening Design Selection

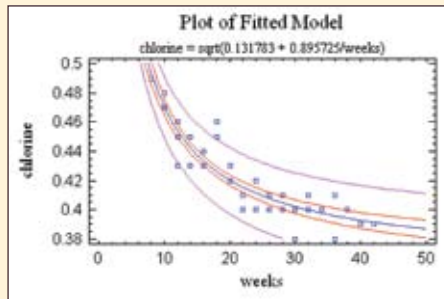
Compare

- Two Samples
- Multiple Samples
- Analysis of Variance
- General Linear Models

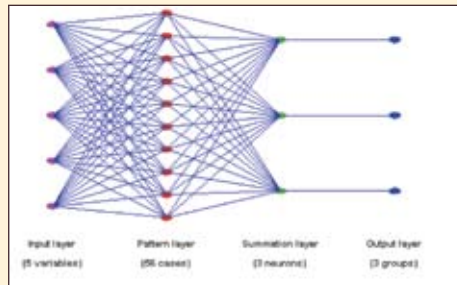
Relate

- Single Factor
- Attribute Data
- Classification Methods

- Multiple Factors
- Life Data



Fitted Nonlinear Regression Model



Neural Network Diagram from Bayesian Classifier

Forecast

User-Specified Model

- Box-Jenkins ARIMA Models
- Trend Models
- Simple Exponential Smoothing
- Brown's and Holt's Linear Smoothing

Automatic Model Selection

SnapStats

- Capability Assessment
- Gage R&R
- Automatic Forecasting

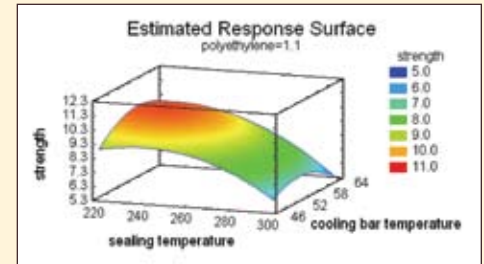
Design of Experiments

Design Creation

- Screening Designs
- Response Surface Designs
- Mixture Designs
- D-Optimal Designs

Design Analysis

- Analyze Design
- Multiple Response Optimization

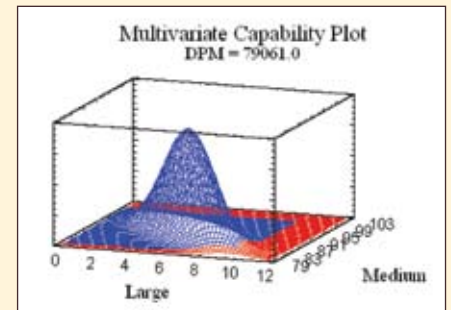


Surface Plot from Analyze Design

Statistical Process Control

Quality Assessment

- Pareto Analysis
- QFD Matrix



Capability Plot from Multivariate Capability Analysis

Capability Analysis

- Variables
- Multivariate Capability
- Attributes

Control Charts

- Attributes
- Variables

Time-Weighted Control Charts

- Moving Average Charts
- EWMA Charts
- CuSum Charts (V-Mask & Tabular)

Multivariate Control Charts

Special Purpose Control Charts

Gage Studies

- Variable Data
- Gage Linearity and Accuracy
- Attribute Data

Acceptance Sampling

- Attributes & Variables

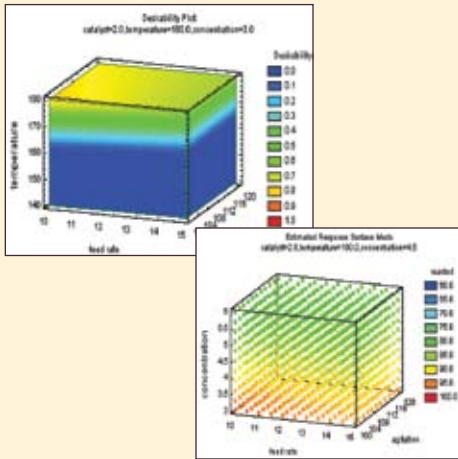
STAGRAPHS lets you make sense of it all...

New!

Design of Experiments Wizard

The Experimental Design section of STATGRAPHICS contains a new wizard that assists users in constructing and analyzing designed experiments. It guides the user through twelve important steps in the creation of the design:

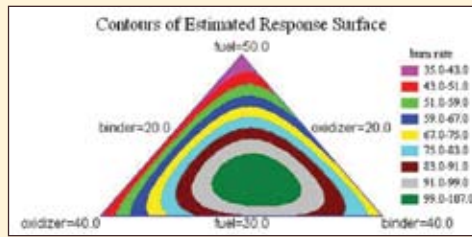
- Define responses
- Define exp. factors
- Select design
- Select model
- Select runs
- Evaluate design
- Save experiment
- Analyze data
- Optimize responses
- Save results
- Augment design
- Extrapolate



New!

Interactive Exploration of Response Surface and Contour Plots

Response surface and contour plots can be explored interactively. Sliders change the levels of the variables in the underlying statistical model, which is immediately reflected in the plot. Ascend and Descend buttons instruct the program to move in steps along the path of steepest ascent, which causes the surface or contour plot to change dynamically.



New!

Interactive 3D Rotation

When a 3D graph is maximized, scrollbars are now placed below and to the right of the graph. The scrollbar at the bottom allows the user to interactively rotate the graph left or right. The scrollbar at the right rotates the graph up or down.

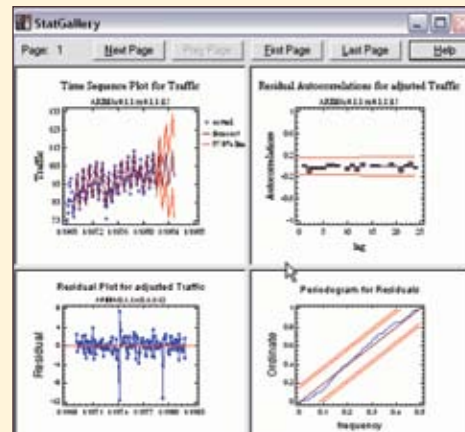
StatWizard™

The StatWizard has been developed to assist you in selecting the proper analyses for your data. You begin by specifying the columns containing the data to be analyzed. The StatWizard then:

- Suggests analyses appropriate for that type of data.
- Offers to transform one or more of the variables.
- Helps you select a subset of the data if desired.
- Repeats the analyses for every level of a "BY" variable.

StatGallery™

The StatGallery allows you to take graphics created in different procedures and arrange them side by side on a single page. You can also overlay two graphs on top of one another to create displays even our developers never dreamed of.



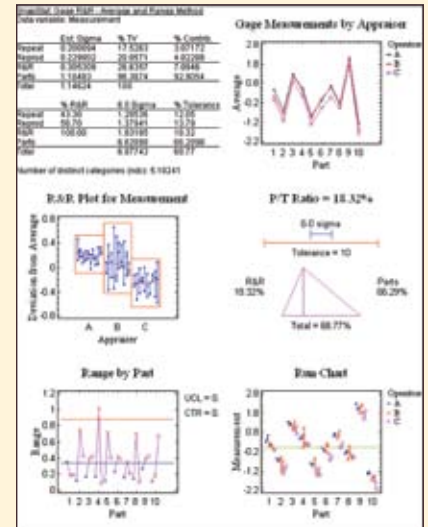
New!

Pan and Scroll

A new icon has been added to the toolbar in the shape of a magnifying glass that allows users to zoom in on a graph and then scroll and pan. This is particularly helpful when displaying a large number of data points.

SnapStats™

When you need to do a common statistical analysis, SnapStats provide a quick way to produce a single page of preformatted output. Just enter the names of the columns with your data, click OK, and you're done.



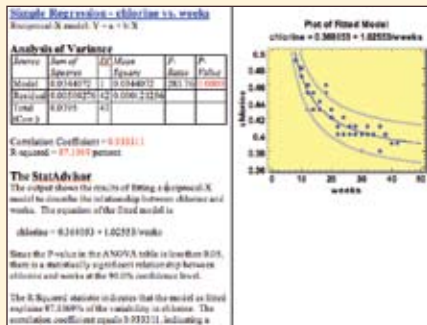
StatFolios™

Do you get tired of doing the same thing over and over again? With StatFolios, you won't have to. You can save your analyses to rerun them whenever you want.

New!

StatFolio Alerts

StatFolios may be set to automatically generate alerts whenever certain conditions occur. Message boxes, audio alarms, and automatic e-mail notification are available options.



StatAdvisor™

If you're not a professional statistician, you'll love the StatAdvisor. Whenever statistical results are displayed, the StatAdvisor will craft a paragraph or two interpreting the results. If you like, you can copy and paste the interpretations directly into your reports.

StatReporter™

When analyzing data, it is important to share your results with everyone involved in the decision-making process. The StatReporter is designed to assist you in creating presentation-quality reports within STATGRAPHICS Centurion. You can take any table or graph created in the program and paste it into the StatReporter with a simple click of the mouse. Better yet, you can paste link the output so that the reports will automatically update whenever the source data change.

