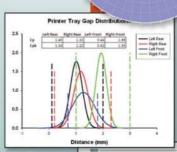
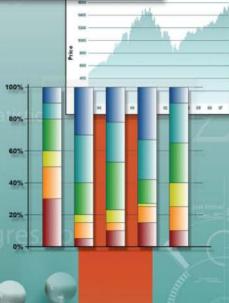


# **Leader** in Niche

in Niche Scientific Graphing



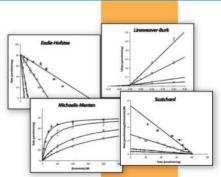


# Generate Graphs Quickly and Easily with the New Interface Features

# **New Analysis Features**

# **Enzyme Kinetics**

The Enzyme Kinetics module is now integrated into SigmaPlot providing you with additional enzyme kinetics analysis features and additional graph types such as Michaelis-Menten, Lineweaver-Burk, Eadie-Hofstee, Scatchard, Hanes-Woolf, Hill and Dixon



# **Curve Fitting Features**

- a. Weight variables that are functions of the parameters may now be used. This includes weighting by predicted values, robust fitting and weighting by any parameter function.
- b. Parameter covariance matrix and confidence intervals have been added to nonlinear regression reports.
- c. Implicit function curve fitting-the ability to compute predicted values that are defined implicitly by the fit model.

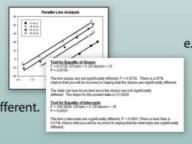
# **Statistics**

 a. Non-parametric One Sample t-test  b. Deming regression method comparison (account for error in both x and v)

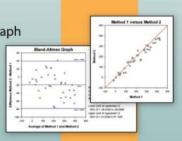


- c. Normal distribution comparison produces a visualization of the distributions of up to four measured variables to quickly detect and demonstrate possible product defects.

d. Parallel line
analysis to
determine
if linear
regression slopes
and intercepts are different.



e. Bland-Altman graph and statistics for method comparison.



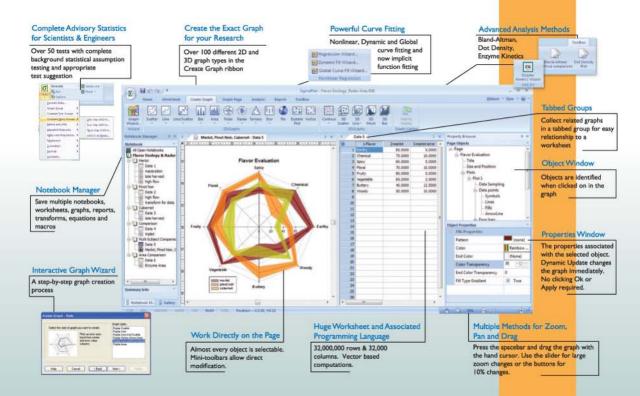
# Transform Language

- a. Row and column titles may now be set with a Transform language statement
- b. New functions for root finding and equation solving which includes a function to help solve fit models that are defined implicitly

Download Trial Version at www.sigmaplot.com

# Analyze and Graph your Data with Unparalleled Ease and Precision

SigmaPlot® is a scientific data analysis and graphing software package with advanced curve fitting, a vector-based programming language, macro capability and over 50 frequently used statistical tests. SigmaPlot has the analytical features necessary to extract the important information from your research data. With over 100 graph types and a user interface which allows detailed manipulation of every graph object, you can create the exact graph to present your results.



# **Fine Tune Every Graph Detail**

 The beauty and utility of SigmaPlot is its ability to modify each graph object to produce a graph that in total "tells the story" of your research.

# Create Your Exact Graph in No Time

- Create compelling graphs for publications, presentations and reports
- Let the Interactive Graph Wizard lead you through every step of graph creation
- Choose from over 100 different 2D and 3D graph types
- Control and customize the properties of every graph element
- Use Dynamic Update to draw your graph immediately after a property change

# Data Analysis Methods to Uncover Information in your Data

- Over 50 of the most frequently used statistical tests with step-by-step directions that do not require you to be a statistician
- Fit your data easily and accurately with the Regression Wizard, Dynamic Fit
- Wizard and Global Fit Wizard. And now fit implicit functions
- Plot mathematical functions with the function plotter
- Use the Macro recorder to automate repetitive and complex tasks

# Generate Graphs Quickly and Easily with the New Interface Features

# **Microsoft Office Style Ribbons**

Ribbons provide context sensitive feature groupings for enhanced functionality and ease of use. Icons are now high resolution and have expanded tooltips containing hot keys. Keyboard shortcuts are provided by the Alt Key-Tips.



# **New Property Browser**

All the properties for a graph and its objects are contained in the Property Browser. You select and modify the properties there and the Dynamic Update feature updates the graph immediately – you don't have to click Ok. For example the graph to the right shows the properties for a diagonal-gradient bar fill starting from red and ending at blue with transparency used for both colors. Property group styles may be copied and applied across like groups thus simplifying property specification.

# Table of Programbia Ellis Programbia Patters Distance Distance

# **User Interface Features**

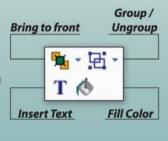
# **Tabbed Window View**

Now in SigmaPlot all open windows appear with tabs. Click on a window tab for an instantaneous display of each window. It is an efficient window management tool.



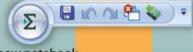
# **Mini Toolbars**

Mini-Toolbars are displayed on the graph when you select an object or right click on it. You can make quick modifications directly on the graph.



# **Quick Access Toolbar**

Now you can add commonly used controls to SigmaPlot's Quck Access Toolbar such as



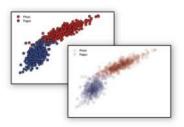
- 1) Creating a new notebook
- 2) Saving changes in a notebook
- Cleaning up the workspace by closing all windows

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# New Graphing Capabilities Enhance Your Ability to Create Publication-Quality Graphs

# **New Graph Features**

The use of transparency for a visual histogram of overlapping data values.



Horizontal color gradient used for impact.

Color gradient and transparency. The transparency allows comparing the area size of both radar plots. The gradient enhances the graph.

# **Dot Density**

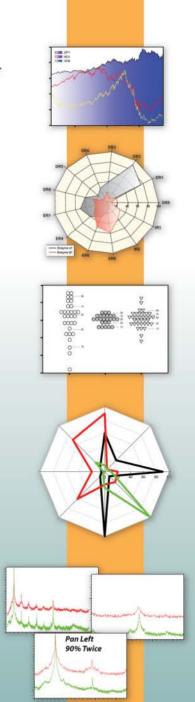
The dot density plot is a graphical histogram of your data. The SigmaPlot dot density is very much like what an artist would prepare where adjacent data values either stack or nestle. The graph below shows dot densities of three data sets with percentiles displayed – one of the statistical options available.

# **Radar Plot**

This plot allows a multi-variable comparison with an arbitrary number of variables

# **Scale Graph**

The ScaleGraph macro allows zooming and panning through a long time series or data sequence. So, for example, zooming in by 5x followed by panning 90% to the left two times produces the graph below right which shows fine detail of the first two peaks.



# SigmaPlot 12 Features

# GRAPHING FEATURES

- Dadar 5 Tunor

- Padar 5 Types \*
  Dot Histogram \*
  Vector 2 Types
  Area Plots 4 Types
  Scatter 14 types
  Line 4 types
  Scatter and Line 10 types
- Scatter and zine 1 oppes Step 8 types Vertical Bar 2 types, Vertical Grouped Bar 2 types Hortzontal Bar 2 types, Horizontal Grouped Bar 2 types Vertical, Stacked Bar

- Horizontal Stacked Bar
- Box 2 types
  Polar 3 types
  Contour, line and filled 2 types
- Histograms 6 types Ternary 3 types Bubble

- Control Charts
- Needle High-low-close, Range, Quartile Quadrant
- Population
- 3D
- Select any object to make precise modifications Automatically interpolate unordered 3D data Multiple, intersecting plots with hidden line removal, smooth or discrete shading, transperent or opaque filis, and light source shading
- Perspective preview Scatter

- toar 3D line trajectory Mesh with or without contour projections
- Contour
   Waterfall

- Waterfall
   Pre-formatted Worksheets: Use graph and worksheet displays to design the graph. Entering new data immediately displays the results
   Program Starbup Screen: helps both first time users or power users start their workflow with easy access to previously used documents, quick Excel and Access database import, use older documents as templates for new work
   Graph Style Gallery. Save any graph with all graph proporties and add a bitmap image to the gallery to recreate committee made.
- complex graphs
  Graph Toolbar: select toolbar icon of the graph type and style
  you want to create a graph or to add additional curves to an you want to creete a graph or to add additional curves to an existing graph.

  Graph Wizard: easy to use, step-by-etsap wizard for helping you select a graph type and pick data.

  Default graph settings: set preferences for graph options to creete faviritie graphs more asally.

  Tempiates: creetie custom graph page tempiates to store for easy consisting and future use experiences. The way to the preference of the setting and the setting an

- Technical Axes

  Reciprocal (including Arrhenius)

  Welbuli

  Linear

- Log10
   Natural log
   Probit
   Logit
   Probability

- Reverse Ternary percentage

- Ternary unary Polar (both clockwise and counter clockwise)
- Category (text data automatically binned into groups) Time and date User-defined custom axis to create almost any scale

- User-defined custom axis to create almost any scale
  Axis Features
  Corted of display, thickness, colour, range, and axis breaks
  Coffeet axes
  Automatic titles
  Multiple axes: Add Axis Wizard for creating multiple axes easily
  Ticks: customize major & minor intervals, in & out orientation,
  top & bottom location, length, thickness, colour, and tick mark
  selection from column to create custom axes
  Labeis: customise prefix, suffix, numeric, and time & date
  Axis breaks: customize symbol, thickness, colour, length,
  gap width, and post break interval
  Symbol Types.

- gap width, and post prosa merve.

  Symbol Types

  Over 80 symbol types

  More line types for line plots and line scatter plots, thee-form lines, boxes and ellipses.

  50 fill patterns for bur charts, box plots, pie charts, area plots and free-form boxes and ellipses.

  Edit fort when using text as symbol.

  Access new lines, fills, and symbol directly from graph properties dialog, toolbar, legend page, and the symbol dialog box.

- Error bars

  Mean, Median, First and Last values for symbols

  Standard deviation, Standard error

  10th, 25th, 75th, and 90th Percentile

- Min and Max
- Min and Max
  95% or 95% confidence
  Calculate error bars from replicate values across rows
  User-defined upper and lower error bar values
  One way, two way and asymmetric error bars
  Percentile method: 2-types

# \* New Features added in SigmaPlot 12

# North, Central &

# South America:

Systat Software, Inc. 1735, Technology Drive, Suite 430, San Jose, CA 95110 USA Phone: 800-797-7401 Fax:800-797-7406 e-mail:info-usa@systat.com

- Multiline Text Editor

  Control font, size, style, colour, Greek, multiple levels of superscript & subscript, 360 degree rotation, left, right & center justification, and line spacing
- Orido and Ellio

- irids and Fills Control of colour, line type, thickness, and display of major & minor grids in X, Y, 8, 2′ direction Control of pattern and edge colour, pattern style, pattern density, and edge thickness Symbols
- Reference Lines
  Control mean, standard deviation, standard error, user-defined constants, 95% and 99% confidence intervals
  Up to 5 horizontal or vertical lines
  Control of colour, line type, and thickness

- Drop lines Display in any or all X. Y. and Z directions

- Legends

  Automatic or manually created

  Legends for regressions, confidence, and prediction intervals

  Turn on and off lines and symbols

  Place line and symbol before or after text
- Function Plotter
   Plot 2D and 3D functions
- . Over 100 2D and 3D built-in, graphically-illustrated equations
  User-defined parameters, scale and range

- User-defined parameters, scale and range:
  Customise the SignamPoli Diray of functions or create your own.
  Plot functions on new revisiting graphs
  Plot multiple different parameter values simultaneously.
  Select line properties for each function.
  Equation Solver solve equations or functions containing a single independent variable and any number of parameters.
- **Graphs Created Through Transforms**
- Gaussian cumulative distribution
  Area shading under and between curves
  Z plane design
  Kaplan-Meier survival

- Frequency
   Complex Control charts

## NEW LISER INTERFACE FEATURES!

- Microsoft Office Style Ribbons\*

  Context sensitive feature grouping for enhanced functionality and ease of use.

  Expanded tooltips that include hot keys
- High resolution button loons Alt Key Tips provide visual display of keyboard shortcuts
- All Key Tipp provide visual display of keyboard shorfouts

  New Property Browser\*

  New graph object and property browser. Object selection in the graph is displayed in the object window and the object's properties displayed in the property window.

  Dynamic Update provides immediate graph nortime with property change. No Circ Apoly button press required.

  Property group styles may be oppied and applied across like groups thus emplifying property properties.

  New window showhide buttons for window real-estate management.

- User Interface Improvements\*

  New tabbed window views enables quick window management (selection, closing, grouping)
- selectors, chasing, grouping.

  New docking panel guides providing simple window placement. This includes the Graph Gallery, Tempistas, Layouts, Object and Phoperfice windows.

  Group open windows into tabbed groups either vertically or horizontally. This collects like windows for easy comparison and
- better window management Object-specific mini toolbars are displayed adjacent to selected graph, worksheet and report objects. This allows rapid editing of object properties.

  Customizable Quick Access Toolbar for frequently used user-specific controls

## DATA ANALYSIS FEATURES

- Enzyme Kinetics Module\*

   Analyze multiple models and rank by best fit
- Create multiple enzyme kinetics graphs: Michaelis-Menten Lineweaver-Burk, Eadie-Hofstee, Scatchard, Hanes-Woolf, Hill, Dixon

# Fully integrated into SigmaPlot Regression Wizard

- tegression Wizard
  Linear and norlinear regressions
  2, 3, 4, and 5-segment piecewise-linear models
  Over 100 butli-in, graphically-illustrated equations
  Marquard-Levenberg algorithm with up to 10
  independent variables and 25 parameters
  Define tilerance, step size and firerations
  Define linear constraints and fix parameters to a constant value

- Automatically determines your initial parameters Writes a complete statistical report to your SigmaPlot Notebook Automatically graphs your results on new or existing graphs Option to add 95 or 99% confidence and prediction bands to a
- Option of act and any act and predictor defices to results graph Optional Reduced Chi-Square Regression weighting Customize the SigmaPlot fit library or create your own fit
- functions
- Generalized weight variables: predicted values, robust regression\*
- Parameter covariance matrix and confidence intervals in report Predicted values defined implicitly by the fit model\*
- Dynamic Fit Wizard

  Solves difficult curve fitting problems by finding local and global
- it solutions

  Selects many initial maximally-distant starting parameter sets and ranks the resulting fits

  Shows the local minima with a Dynamic Fit Profile graph
- Global Fit Wizard Fit multiple data sets using shared parameters

# Automatic Linear Regressions Up to 10th order with confidence and prediction intervals and regression statistics Column Descriptive Statistics Generated Automatically

4th Floor, Block B, Vista Centre,

Hounslow, TW4 6JQ, London, UK

Phone: +44-(0)208-538 0128

Fax:+44-(0)208-538 0273

e-mail:info@systat.co.uk

UK and Ireland:

Systat Software Inc.

50, Salisbury Road,

### SMOOTHING

### 2D & 3D Smoothing Pourtines

- Negative exponential Punning average

- Losse

- Running median

- Running median
  Bisquare
  Inverse square
  Inverse distance (for 3D smoothing)
- TRANSFORMATIONS
- Quick Transforms

   Perform quick mathematical transforms provided in a function palette
- · Automatic Updating of multiple transforms in worksheets
- Mathematical Transforms
- Set worksheet row and column titles\*
   Root() and Implicit() functions\*
- 36 probability density and cumulative transforms
- Histogram Normalise ternary data Interpolate 3D mesh
- Sorting
  Fast Fourier transforms with filters
- Lowess smoothing
  Differential equations
  Data to RGB-colour transform
  Trigonometric and algebraic functions
- Ingonometric are agreement uncores. Random and Gaussian random number generation Range, accumulation, precision, and more Transforms are now kapt in notebook files as JNB files for easier organisation of transforms, create transform libraries; associate Transforms with data sets

# Protect and track changes to transforms for 21 CFR Part 11

- Large, Scientific Worksheets

  3,2,000 columns by 32,000,000 rows

  Handles numeric, text (categorical), and date & time data
  Data sorting

  Rename, insert and delete rows and columns

- nestante, insert and delete rows and columns Insert colour, symbols, line styles and bar patterns Independent graphically adjustable row height and column widths Missing data handling
- Massing data reactions
  Data point sampling
  Graphical feedback of current curve and datapoint
  Text support of up to 256 characters
  Change the font type and grid colours
- Change fort for worksheet Multiple Undo Format empty cells formatted selected columns even if they do not contain data
- More flexible column titles allow for duplicates and
- More flooble column titles allow for duplicates and numeric only titles
  Enhanced data/time recognition and more formats
  Arrow-key functionally is smillar to that of Microsoft Excel
  Freeze Panes and print preview
  Multi-line editing text warps to fit the column while the row height sufformatically adjusts
  Find and replace data SigmaPlot Notebook Manager
- Dialog-bar-based notebook manager has several states: docks, resizable, hide-able, summary information mode,
- etc.

  Can hold SigmaPlot worksheets, Excel worksheets, reports, regression wizard equations, graph pages, transforms and macros.

  Direct-editing of notebook summary information

- Street-eating of noisebook surmary intometion

  SignamPlot Report Editor

   Out and paste or use OLE to combine all the important aspects
  of your analysis into one document. Choose from a wide
  range of styles, sizes, and colours from any system font.
   Export to most word processors

   Add decimal tabs, tab leader, true date/time fields

   Insproved formatting ruler
- Page Layout and Annotation Options

  Direct graphic file import into graph page
  Fleel-time nuce-ove NY and page coordinate feedback
  Click-through accessibility to select and edit graph
  objects buried under other items

  OLE 2 container and server

- Automatic or manual legends True WYSIWYG
  Multiline text editor
  Multiple curves and plots on one graph
- Multiple axes on one graph
  Arrange graphs with built-in templates
  Multiple levels of zooming and custom zooming.
- Easily change the size and position of multiple selects objects simultaneously to lay out and arrange graphs and other objects quickly Scale graph to any size
- Resize graphic day size Resize graphic elements proportionally with resizing graph Alignment and position tools Draw lines, ellipses, boxes, arrows
- Layering options Over 16 million custom colours

Inset graphs inside one another Selection of graph objects Right-click property editing

Germany and Austria:

Schimmelbuschstrausse 25,

D-40699, Erkrath, Germany

e-mail: kontakt@systat.de

Systat Software GmbH.

Phone: +49.2104.9540

Fax: +49.2104.95410

Colour schemes Paste graphic objects from other programs Graph page rulers Adjustable snap-to grids

- "Picking from Column" Option

   Enter colours, patterns, symbols, line styles, tick mark
  interedis, tick bases and more dreedly into your worksheet
  to customise your graph the way you want. Transforms
  and "picking from colour" allow you to create data
  dependent colour gradients, symbols and sizes.
- ouprater coord gracients, syricos and sizes.

  Automate Routine and Complex Tasks

  Visual Basic compatible programming using built-in macro language interface.

  Automation do save and play-back operations.

  Full automation object support use Visual Basic to create your own SignaPile-based applications.

  Flun built-in macros or create and add your own scripts.

- Add menu commands and create dialog boxes
   Toolbox menu: helpful macros appear as a sec

- menu item
  Export graph to PowerPoint Slide
  New 'Insert Graph to Microsoft Word' Toolbox macro
  New keyboard shortcuts in the Graph Properties and most
  Microsoft Excel keyboard shortcuts in the worksheet
- Macro language graph page measurement units specification\*
   Macro language automatic legend state specification\*

- Windows Application

  Excel, Word and PowerPoint for Office 2000 and Windows 2000 support TooThps

  Tips and Tricks at startup

  Full 32-bit implementation

  OLE 2 contains and server

  Use Excel worksheets inside SigmaPlot

  Controls have bitmaps to give feedback about selections

  Right mouse button property editing

  Selection of objects on graph page

  Full precision and date/time Microsoft Excel copy and paste
- \*Fit products and caevanie intercription in the position and product and

# analysis tools on your data. One-click access to directly launch SigmaPlot from Microsoft Excel

- IMPORT & EXPORT OPTIONS
- Directly import SAS data sets (.sd2 and .sas7bdat files)
   Startak data sets (.mtw & .mp) files) Directly import SAS data sets (so2 and sas/Yotat fiee)
   Directly import Minitab data sets (mtw 8. mg/ files)
   Open Axon Binary, Axon Text, ASCII Plain, Comma and general import fitter, 12-37, Symphony T, Qualtho T, Excel, dBASE E, DIF, all SigmaPlot files through SigmaPlot 8.01, SigmaStar files (all versions), SYSTAT, SigmaStar Pro, Sigma Scan, SigmaScan Image, Mocha
   Import any OBBC compliant database.
   Run SQL queries on tables and selectively import
- information
- Export

  SAS files (.sd2 and .sas7bdat files)
- Minitab files (.mtw & .mpj files)
  ASCII Text, Tabbed, Comma, 1-2-3T, Excel, DIF, all SigmaPlot files though SigmaPlot 9.01, SigmaScan
  PDF, PSD and HTML export of graphs and reports
- Import Graphics Options

  Load popular graphic file formats directly into SigmaPlot
- Graph Publication Export Options
- Submission Assistant stores an extensible list of publication requirements and is used to double check whether exported figures meet standards of publication and allows creation of customised output profiles

- Export an individual graph, a group or graphs and objects, or an entire page Different levels of resolution and colour depths: PDF, EPS, TIFF, JPEG, EMF, BMP
- TIF, JPEG, EMF, BMP

  True colour EPS vector and CMYK EPS export

  Compressed CMYK TIFF

  Publication Help: guides user through the complexities selecting the correct DPI, image size, file export format

# Joseph Solution The WebViewer supports IE 4.01 or higher. A screen resolution JPEG file is automatically displayed for browser applications

- Windows Vista:

- 500 megahertz (MHz) processor,
   256 MB of system memory,
   100 MB of evailable hard disk space
- CD-ROM drive, 800x600 SVGA/256 colour display or better Internet Explorer 6 or higher

# Asia-Pacific: Cranes Software International Ltd.

Phone: +91 - 80 - 4151 6400 Fax:+91-80-4151 6500 e-mail:info-intl@systat.com

- graphic page

  Import BMP, JPEG, GIF, TIFF, Cursor and Icon Files & many more
- · Export an individual graph, a group of graphs and objects,
- Publish as Web Page

  Export graphs as high-resolution Web objects

  WebVlewer: free browser plug-in to view data used to create graph or print, pan and zoom in on graph without

## and operating systems

- CD-ROM drive

- SYSTEM REQUIREMENTS
- 1 GHz 32-bit (x86) or 64-bit (x64) processor 1 GB of system memory
   100 MB of available hard disk space
- Windows XP and below:
- #29, 7th Cross, 14th Main Vasanthnagar, Bangalore - 560 052 Karnataka, INDIA.

800x600 SVGA/256 colour display or better - Internet Explorer 6 or higher