

Axum[®] 5

Download
Demo!

Platform: Windows
Available for ground shipment



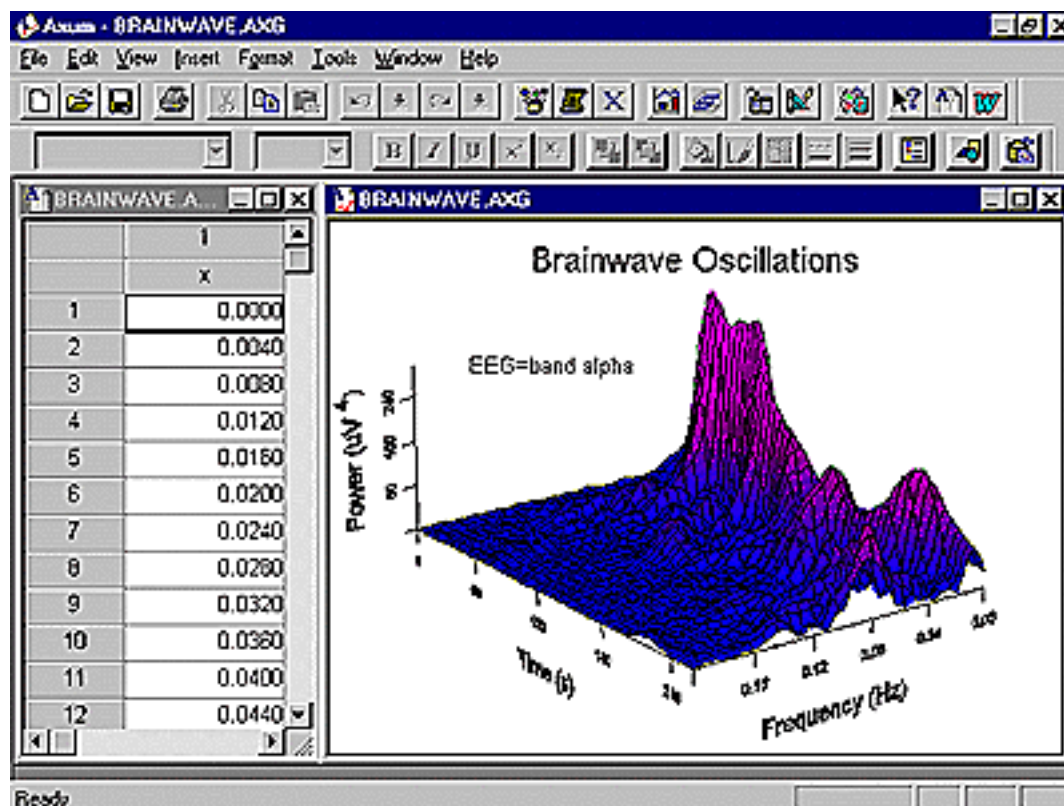
Axum 5, the latest release of the world's premier technical graphing and data analysis software, allows you to explore, customize and present data like never before. Innovative features such as multipanel plots let you condition your data on multiple variables and then examine and compare the results. With customizable toolbars, menus and dialogs and additional 2D and 3D plotting options, no other technical graphing and data analysis tool offers such unprecedented control.

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Axum can be used for all stages of the research process, from the collection and analysis of data to the production of presentation quality graphics. Here Axum presents brain wave data using a surface-grid plot.

Axum lets you import data files from Mathcad, S-PLUS, Excel, Lotus, dBase ASCII and others. You can also transform, manipulate and sort unlimited-sized data sets, perform non-linear curve-fitting and data smoothing, plot the relationship of multi-dimensional data in a series of panels, even turn your graphs into PowerPoint slides -- automatically. With Axum the possibilities for exploring, customizing and presenting your data are endless. Axum 5. Bringing your data...to life!

MathSoft

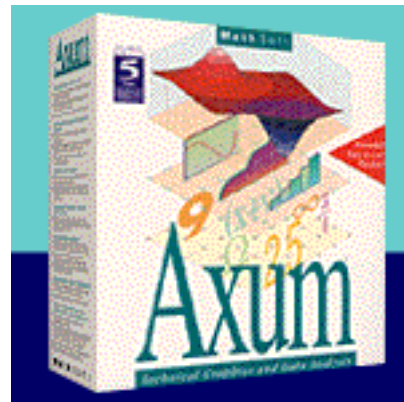
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Axum[®] 5

FEATURES & SPECS (page 1 of 6)

NEW indicates new features in Axum 5

Asterisk (*) indicates features not found in any other technical graphics package



Interface

- Create graphs by selecting data and clicking on a plot button
- Build graphs using drag-and-drop graphing techniques
- Change plot type by clicking on a plot palette
- Save and restore work as projects
- Save defaults for any object
- Drawing tool palette
- **NEW** Greek and scientific character dialog
- **NEW** Super- and subscript toolbar buttons
- Use Send Mail to send Axum documents to colleagues via email
- Undo/Redo
- Online, context-sensitive help
- Online tutorial and examples
- Convenient "ToolTips"
- **NEW** *Create multiple, custom toolbars automatically by dragging scripts or portions of scripts onto the toolbar
- **NEW** *Customize built-in menus and add, delete and reorganize menu items
- **NEW** Windows 95 native application (32-bit version)

Graph Types

- 2D graphs: area, grouped bar, stacked bar, **NEW** horizontal bar, single and grouped box, labeled scatter plots, Smith, polar, curve fitting, nonlinear curve fitting, pie, error bar, text, lowess, histogram, high-low-average, logarithmic, vector, **NEW** bubble plots (vary symbol size), **NEW** color plots (vary symbol color), **NEW** step plots, **NEW** density plots, **NEW** user-defined smoothing plots
- 2D/3D graphs: line, scatter, spline, regression, contour
- 3D surface plots
- 2D projections in 3D space
- **NEW** Color drape bar charts, area charts, surfaces and contours
- **NEW** *Create multi-panel plots and condition data on additional variables

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3D and Contour Plots

- Create 3D mesh plots and 2D/3D contours using huge gridded or irregular data sets
- Color-draped mesh surfaces
- Color-draped contours (flooded)
- Backwall grids on any plane
- Color-draped backwall 3D grids
- Interactively rotate 3D graphs
- NEW *Multi-panel 3D rotation

Data Editor

- Import ASCII, Excel, Lotus, dBase, S-PLUS files and more
- NEW Import SigmaPlot data files
- Operate on an entire data column as a single unit
- Supports virtually unlimited-sized data sets
- Sort huge data sets with sophisticated Sort options
- Perform block operations: move, copy, insert, delete, and transpose subsets of columns and rows
- Evaluate arbitrary 2D and 3D functions
- Search and replace data
- Handles true missing values
- Descriptive statistics: minimum, maximum, mean, average, sum, variance, standard deviation, standard error, median, valid observations, and total observations
- ANOVA, correlations, and frequency analysis
- Goodness-of-fit statistics, including R², F-stat, and t-stat
- Compute arbitrary user-specified confidence intervals
- Simple, multiple, and polynomial regression analysis
- Nonlinear least squares regression analysis
- NEW Use date/time data
- NEW All data are stored in double precision

Object Browser

- NEW Organize graph sheets, data sheets and script objects on separate tabbed pages
- NEW Access built-in functions, and user-defined functions
- NEW Select and edit hidden or layered objects
- NEW Set defaults for any object

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Axes

- Linear (xy), semi-log, log log, Smith, polar, 3D, ln
- Multiple, independently scaled x and y-axes and upper x-axes
- Automatic axis offset when additional axes are added
- **NEW** *Multiple axes breaks
- **NEW** Scale to probability axes
- **NEW** Scale to natural log axes
- **NEW** Scale to date/time axes

Graph Editor/Plot Attributes

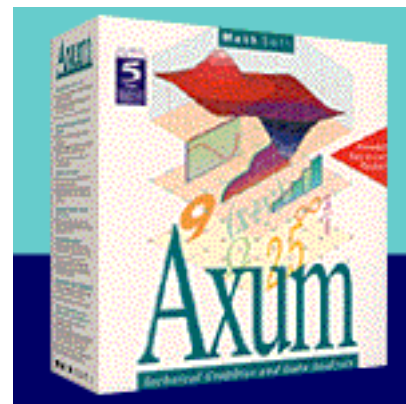
- 9 line types
- 16 symbol types
- **NEW** Use text in any column as a symbol type
- 16 colors + 16 custom colors for text, lines and symbols
- **NEW** Up to 64 colors for shaded surfaces and contour plots
- Line thickness control
- Symbol size control
- Multiple fill patterns
- Use text or numbers to label data points
- Automatic cycling of patterns, colors, symbols, and line types
- Break lines at plot symbols
- **NEW** Line plots with isolated points

Data Smoothing

- Lowess
- Weighted average
- Savitsky-Golay
- Spline 2D/3D
- **NEW** *User-defined smoothing

Curve Fitting

- Linear, log, exponential, power, and polynomial
- Nonlinear curve fitting
- Display equations automatically
- Confidence bounds computed and displayed automatically
- Use automatic plot types or Axum's data editor to perform curve fitting



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Page Layout

- Put multiple, editable graphs on a page
- Arrange graphs automatically on the page
- Insert graphs within graphs
- Control layering of graph objects
- Resize graphs
- Zoom in on graphs
- Automatic titles and legends

Text Editing

- Add unlimited amounts of text to graphs
- Move text interactively
- Rotate text to any angle
- Unlimited superscripts/subscripts
- NEW Multiple line comments and titles

Tick Marks/Tick Labels

- Intelligent, automatic tick placement and labeling
- Specify starting and ending ticks on 2D axes
- Specify tick length and width
- Adjust first and last tick labels inward from axes
- Justify tick labels and specify offset from tick marks
- Rotate tick labels to any angle
- Stagger, truncate, skip labels
- Prepend or append text
- NEW Automatic day/month/year tick labels
- NEW Create multi-line tick labels

Error Bars

- Automatically calculated error bars
- Bar charts with automatically calculated error bars
- Use standard deviation or standard error, or use your own values
- One and two-way error bars
- x and/or y direction error bars
- Line thickness control
- Cap width control

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OLE and DDE

- Link data from Excel or other OLE 2 spreadsheets to Axum graphs
- Drag and drop data from OLE 2 applications directly onto Axum graphs
- Embed Axum graphs in Word 6.0 and edit in place
- **NEW** Create PowerPoint 7.0 presentations automatically from Axum graphs
- Embed publication-quality Axum graphs in Mathcad 6.0 documents using Mathcad data
- Use DDE to send data and commands to Axum for computation or graphing

Programming Language

- Over 100 built-in functions and operators
- If statements, while and for loops, and goto statements
- Write user-defined functions
- **NEW** Auto load user functions
- Use commands to control graphing and data analysis

Production Mode

- Automate repetitive graphing and data analysis
- Use scripts to create and modify graphs
- Automatic program generator

Project

- Save multiple project files on disk
- Merge files from separate projects
- Automatically save and restore the state of all windows

Scripts

- Extensive script editing capabilities
- Load and run multiple scripts
- Run, Stop, and Check Syntax buttons
- Run selected sections of scripts
- Use external C or C++ functions to extend Axum's language, e.g. use your own curve fitting algorithms or even modify Axum's user interface

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Publication-Quality Output

- Copy and paste your graphs into your favorite Windows applications
- Export to WMF, EPS, BMP, WPG and many more
- Print to any Windows compatible printer or plotter

System Requirements

- Minimum platform configuration: 486 IBM-compatible computer with 16MB of memory
- Hard disk space needed: 14MB for minimum installation, 20MB for full installation
- Microsoft Windows 95, Windows NT, or Windows 3.1x
- VGA, SuperVGA, XGA, 8514/A, or other Windows compatible graphics card and monitor
- One 3.5" high-density disk drive
- Microsoft Mouse, or other Windows compatible pointing device
- Supports all Windows compatible printers
- Math coprocessor recommended but not required
- Compatible with most networks; network licenses available

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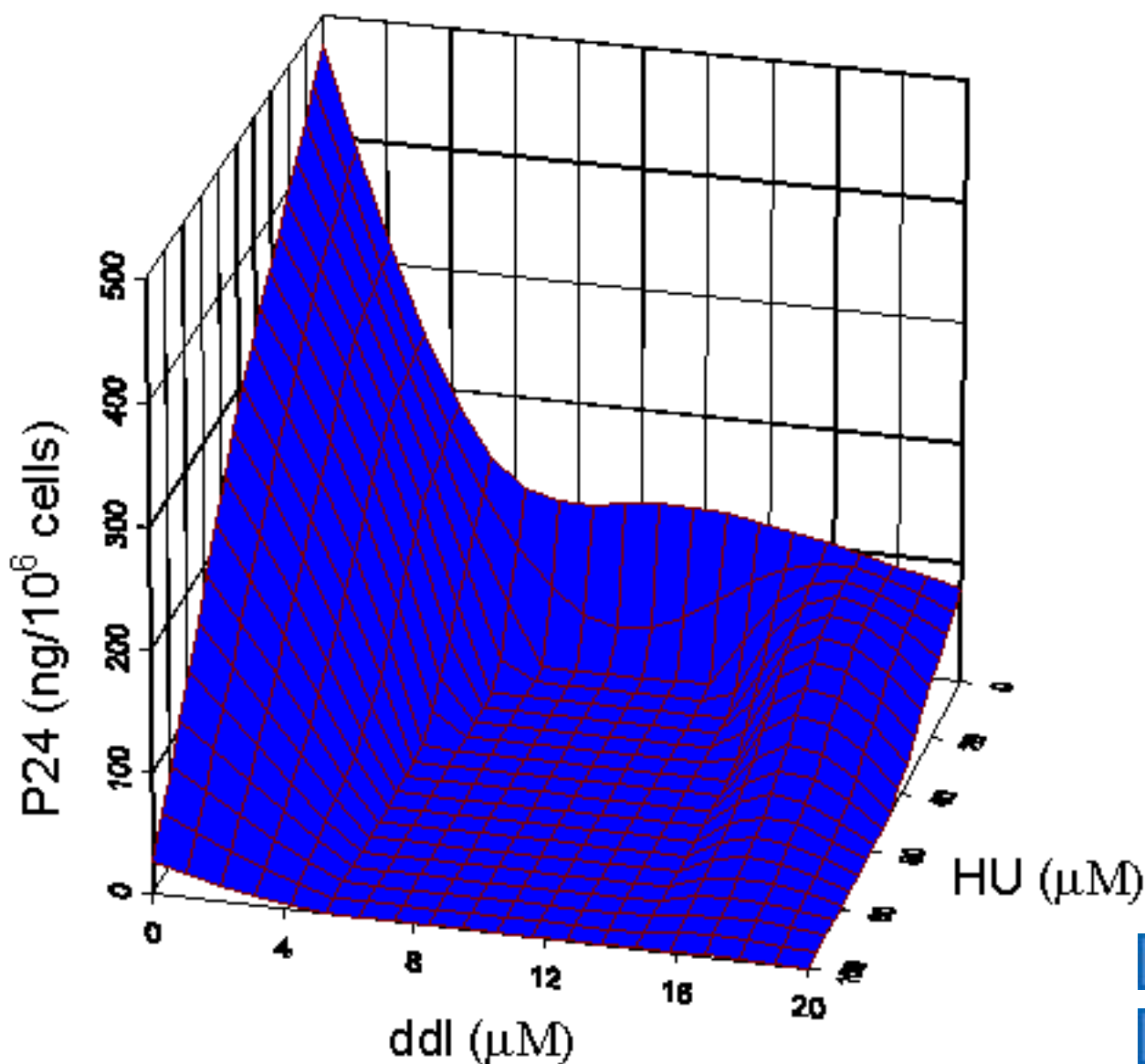
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Examples of Axum Graphics

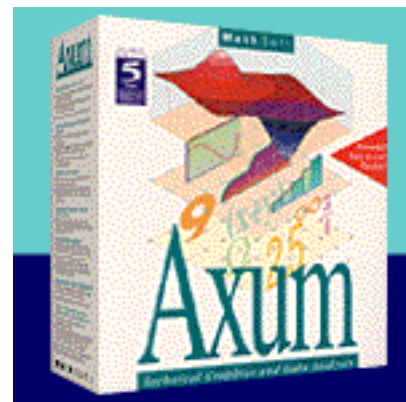
All graphs available here were created with Axum for Windows and exported to GIF format using Axum's export graph option



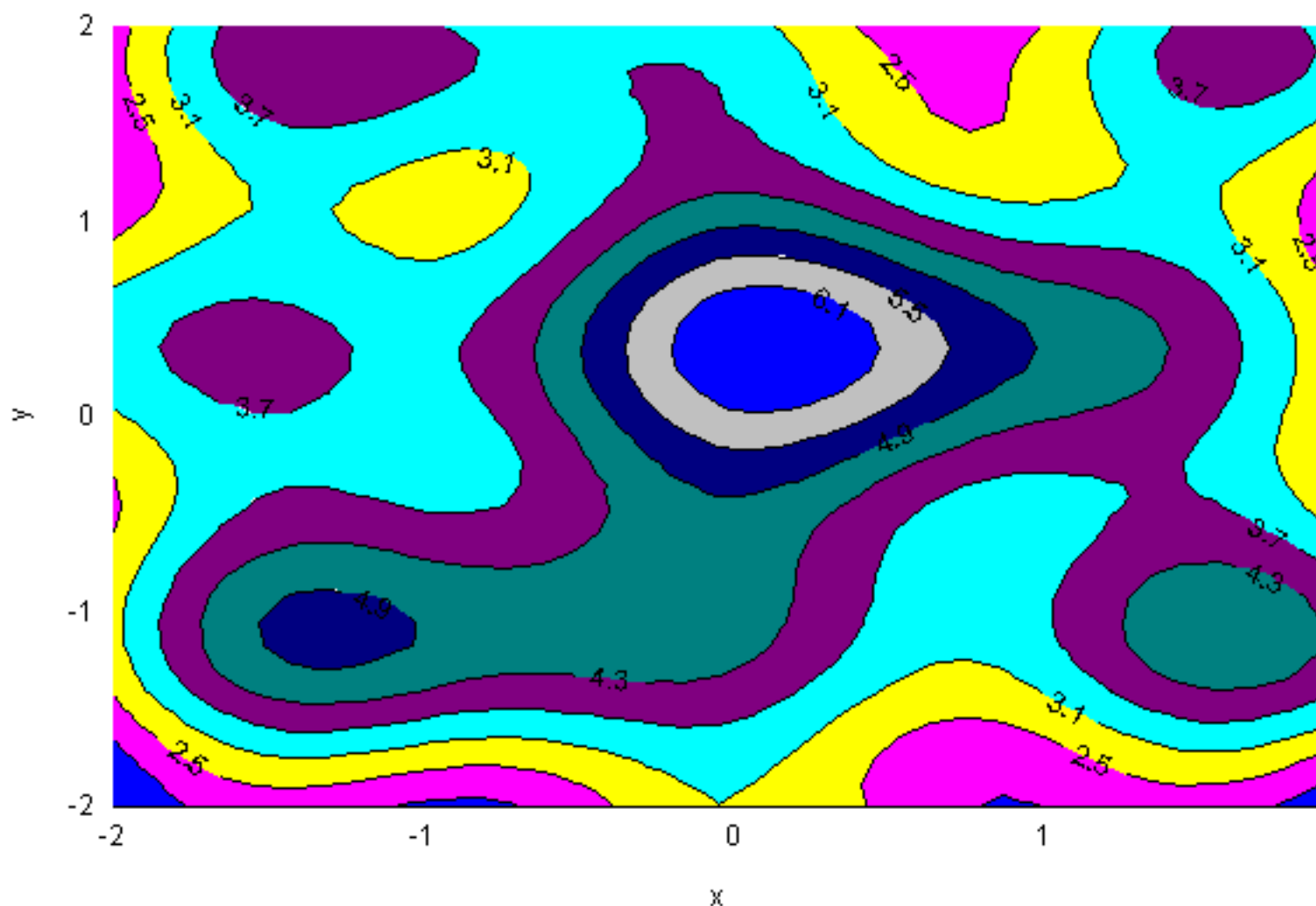
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2D Filled Contour Plot



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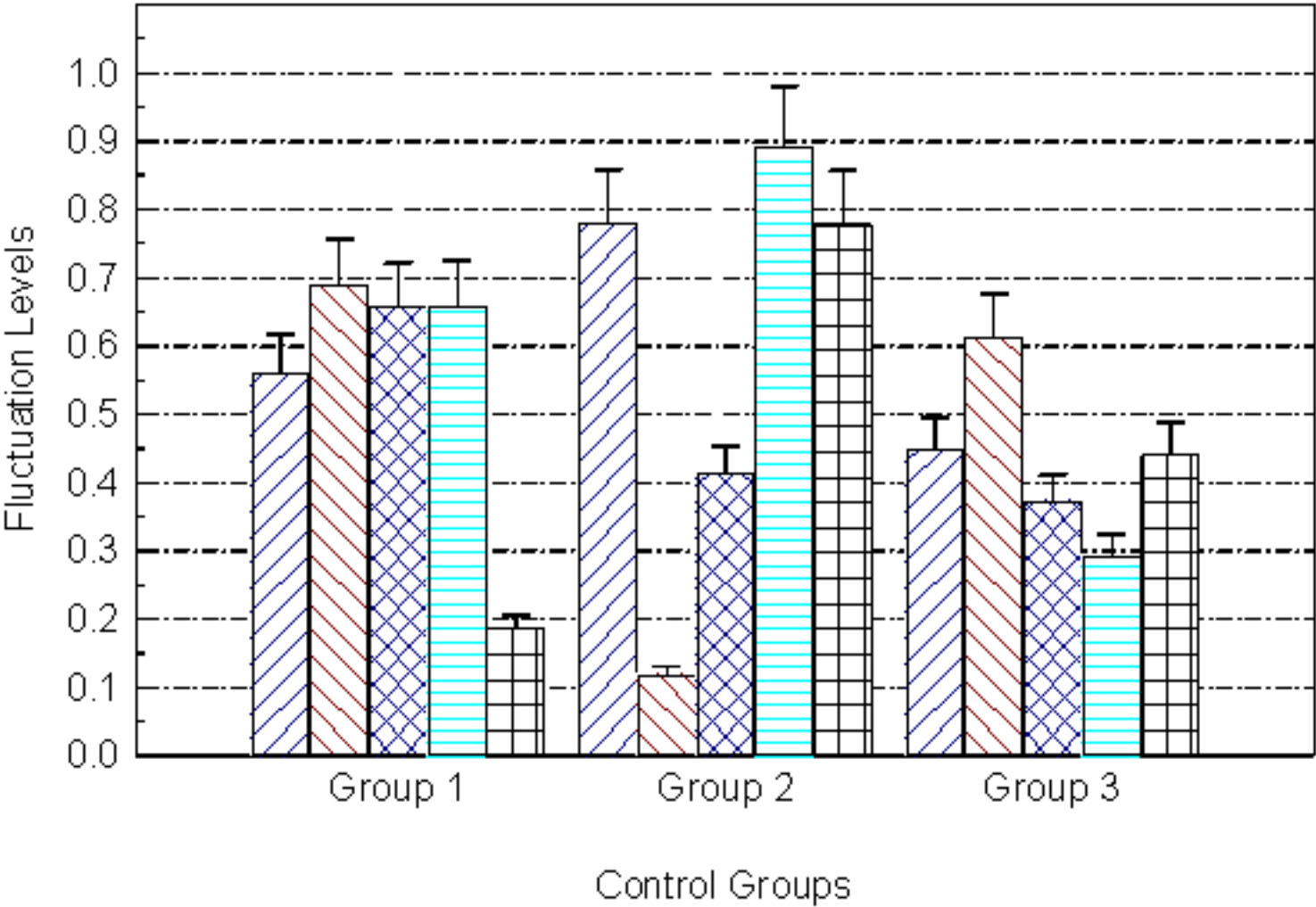
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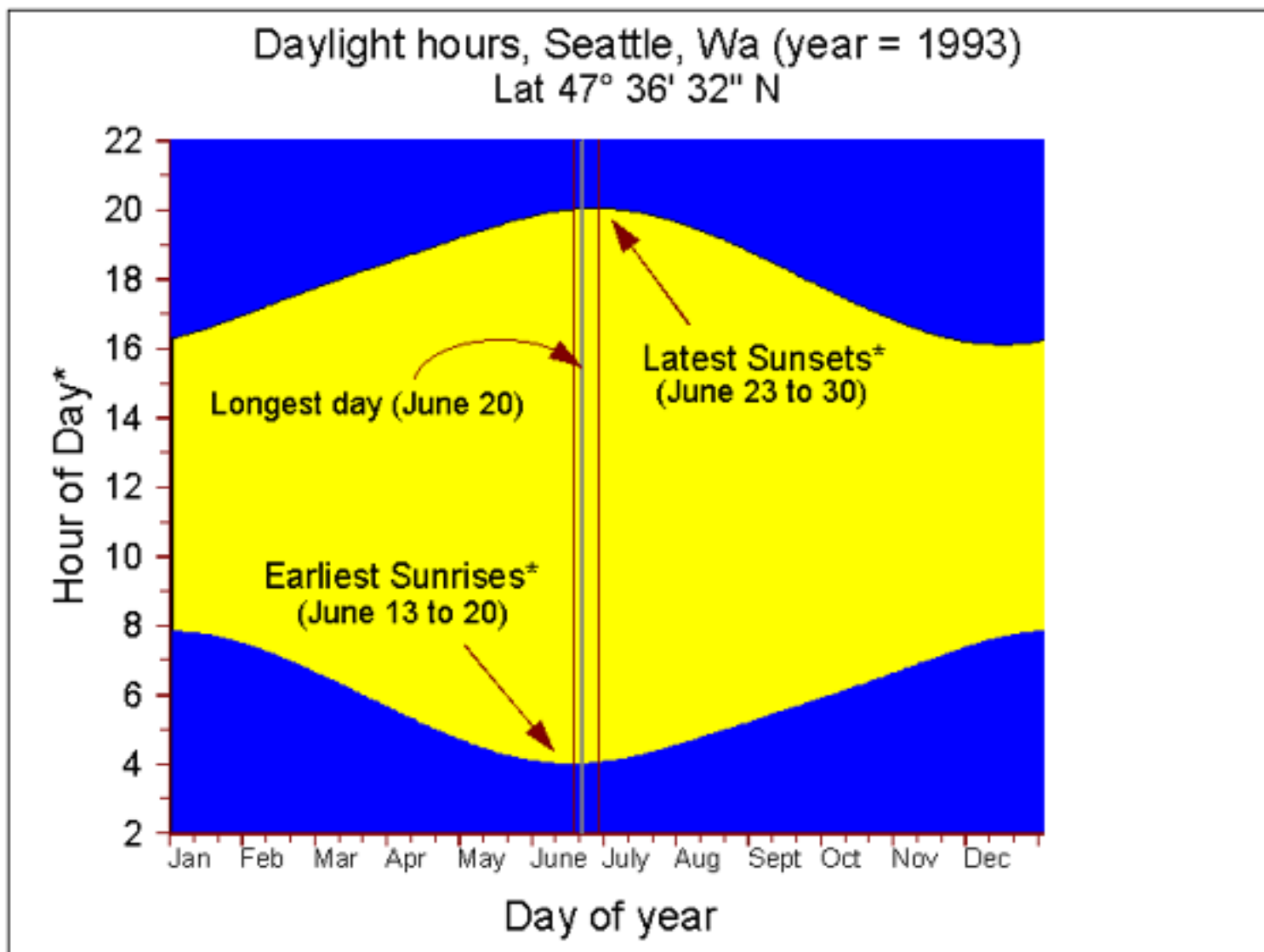


Grouped bar chart with error bars

Grouped Bar Chart with Error Bars



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*All Times Rounded to Minutes

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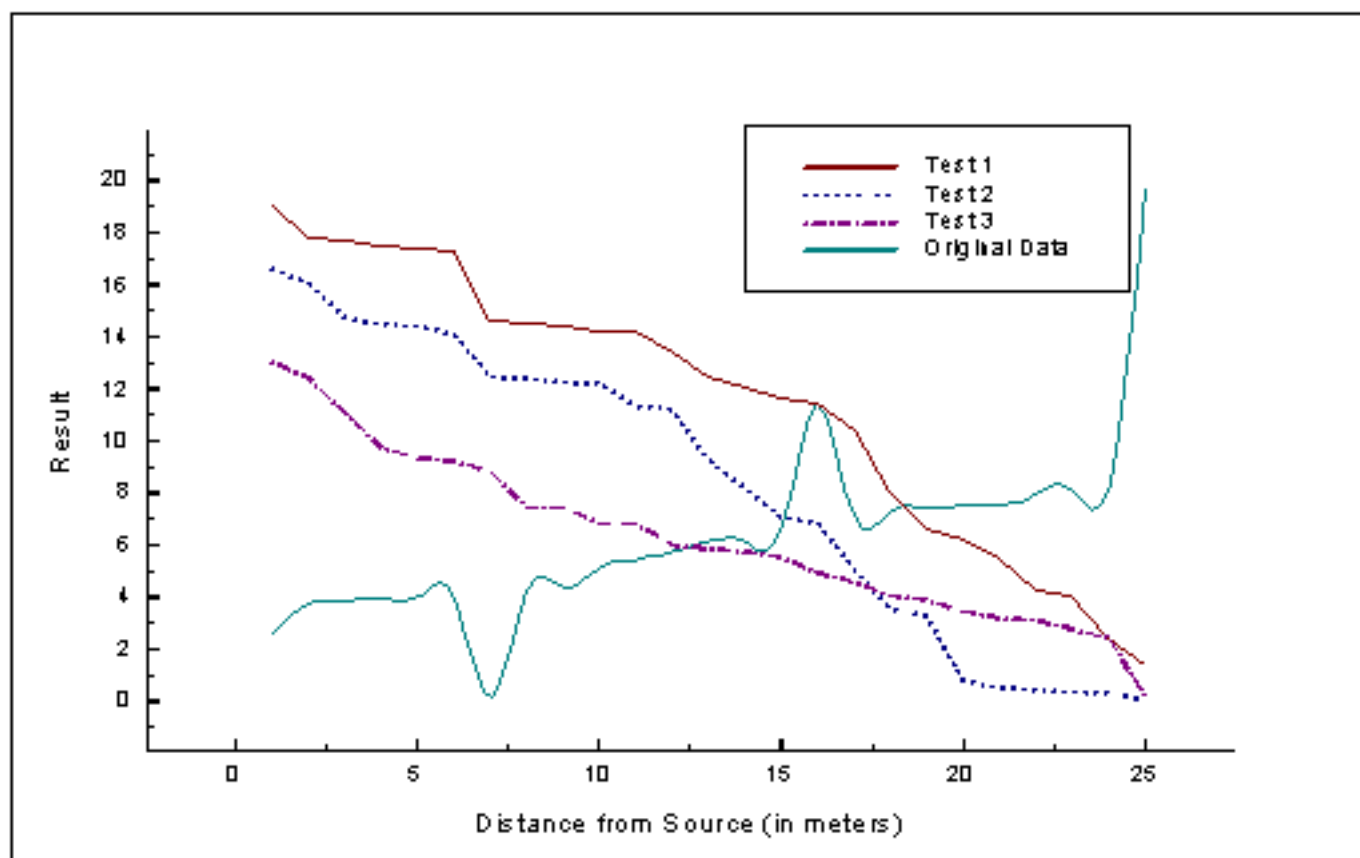
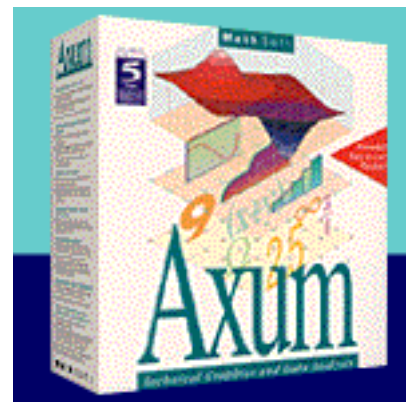
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Multiple plots on one graph



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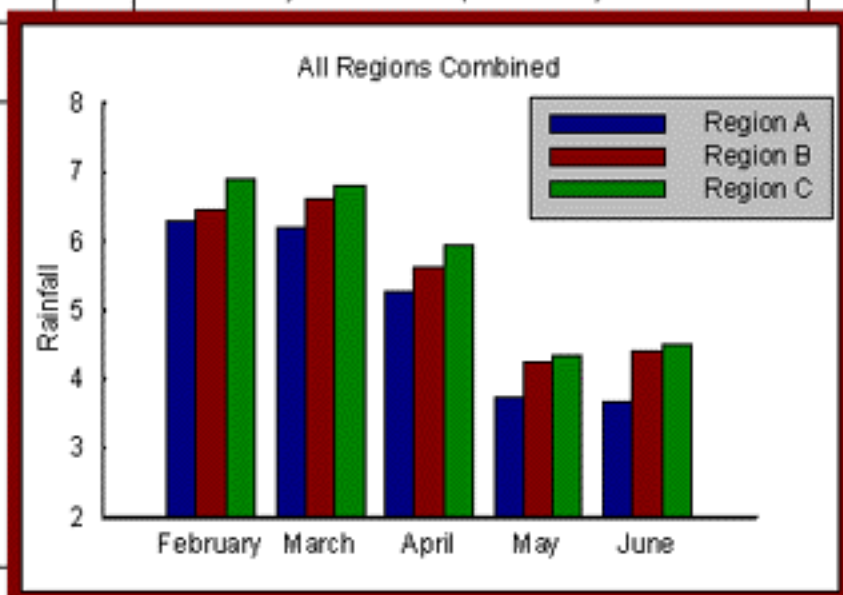
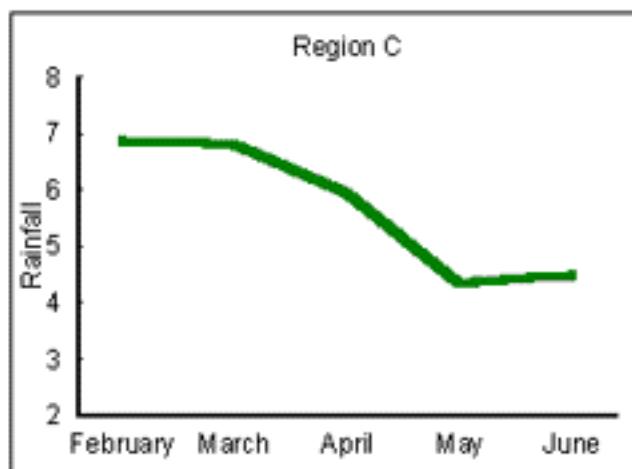
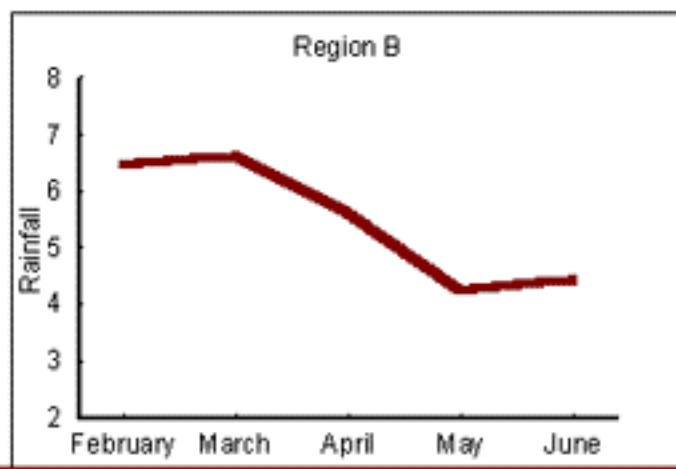
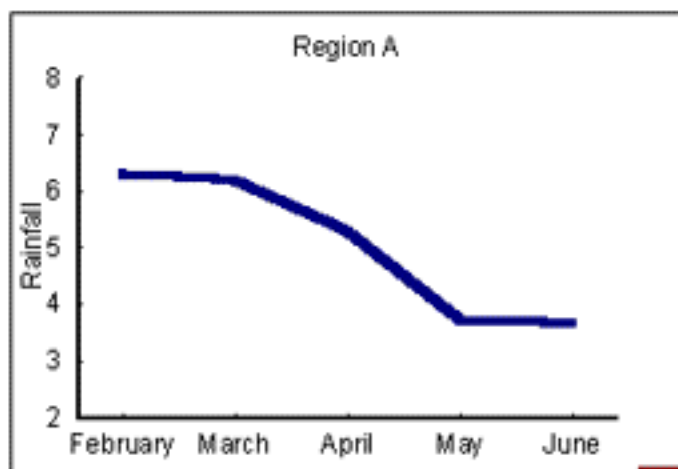
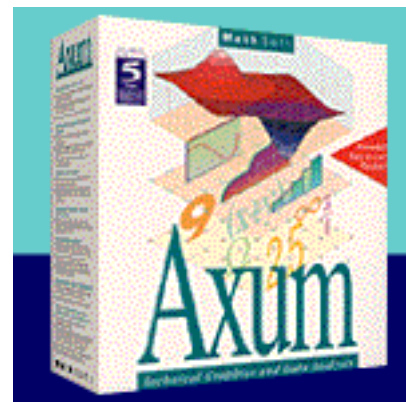
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Multiple graphs on one page



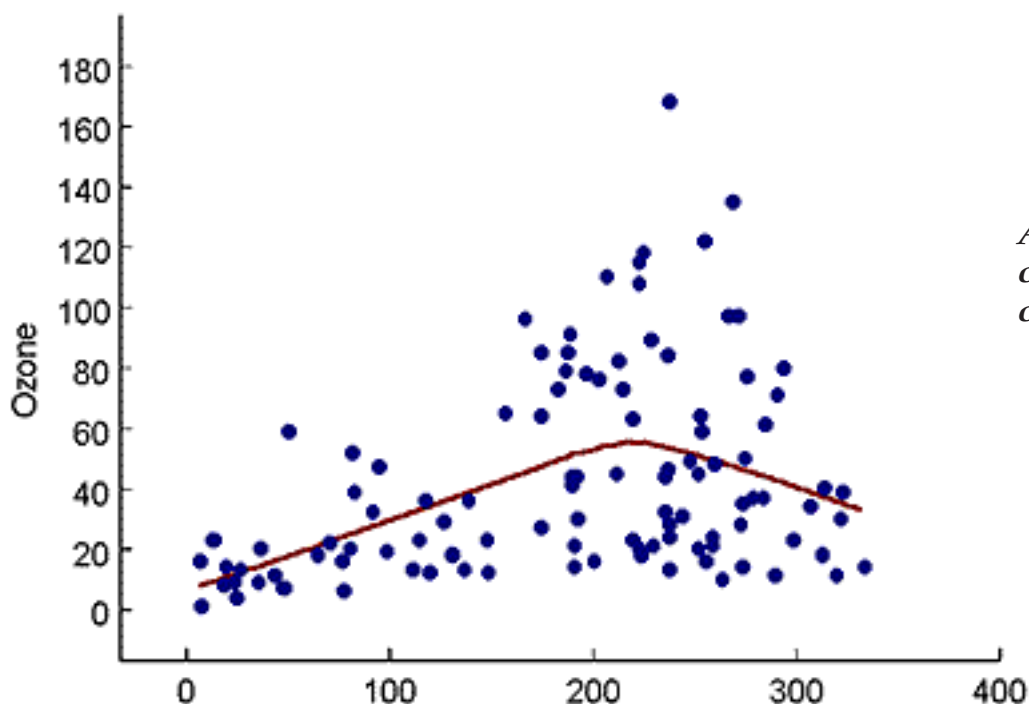
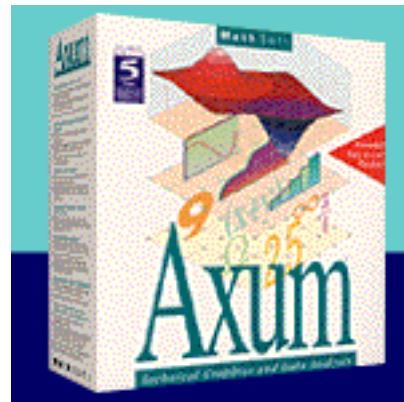
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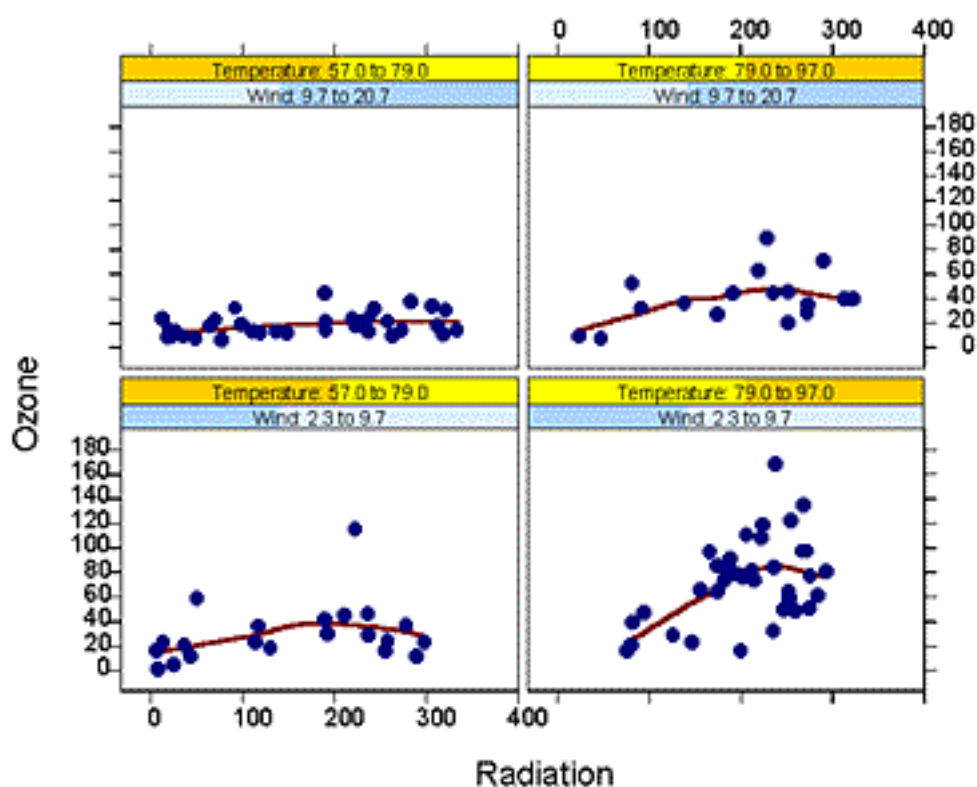
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A basic lowess plot shows only the association between ozone and solar radiation.



A panel plot reveals the relationship between ozone and radiation conditioned on both temperature and wind speed.

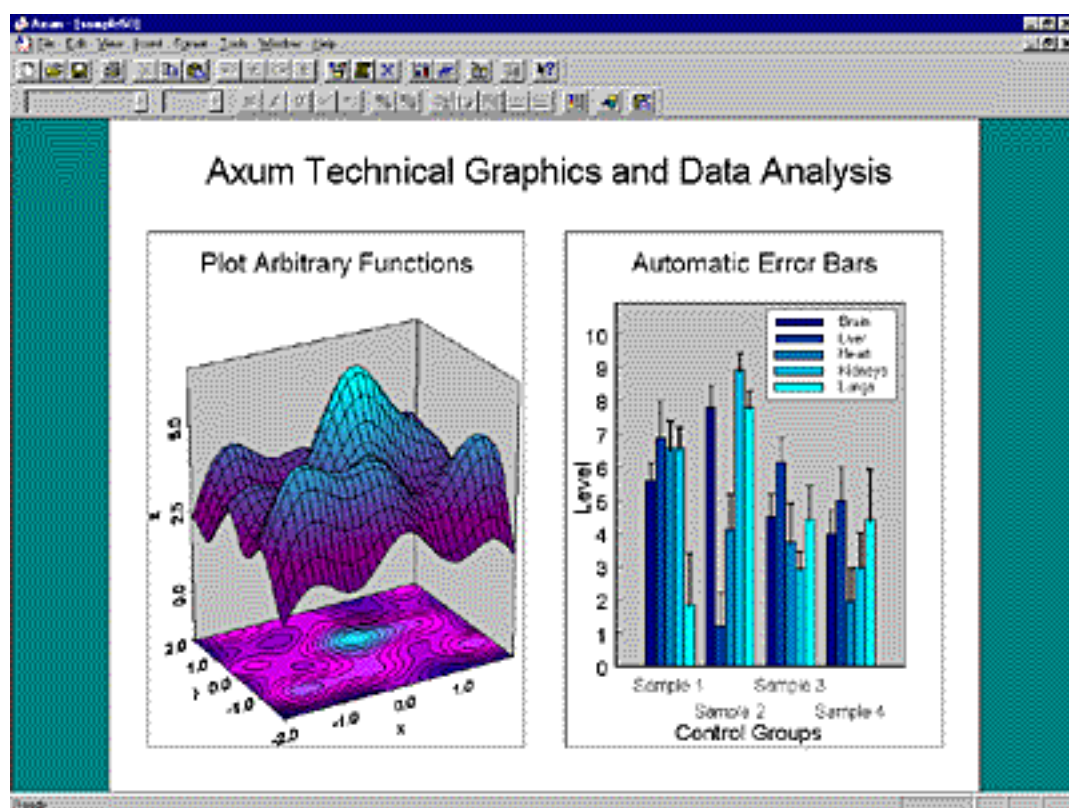
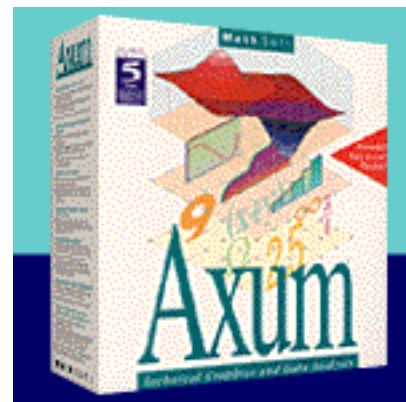
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Customize toolbars with your own buttons including icons that launch other applications.

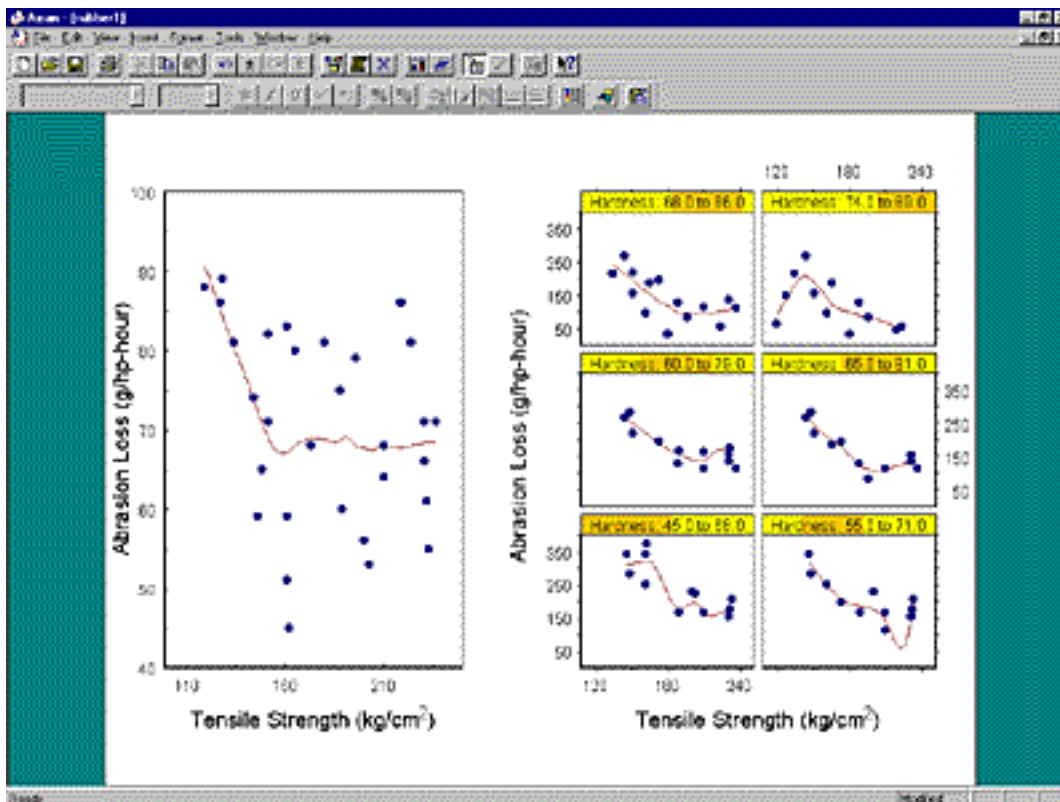
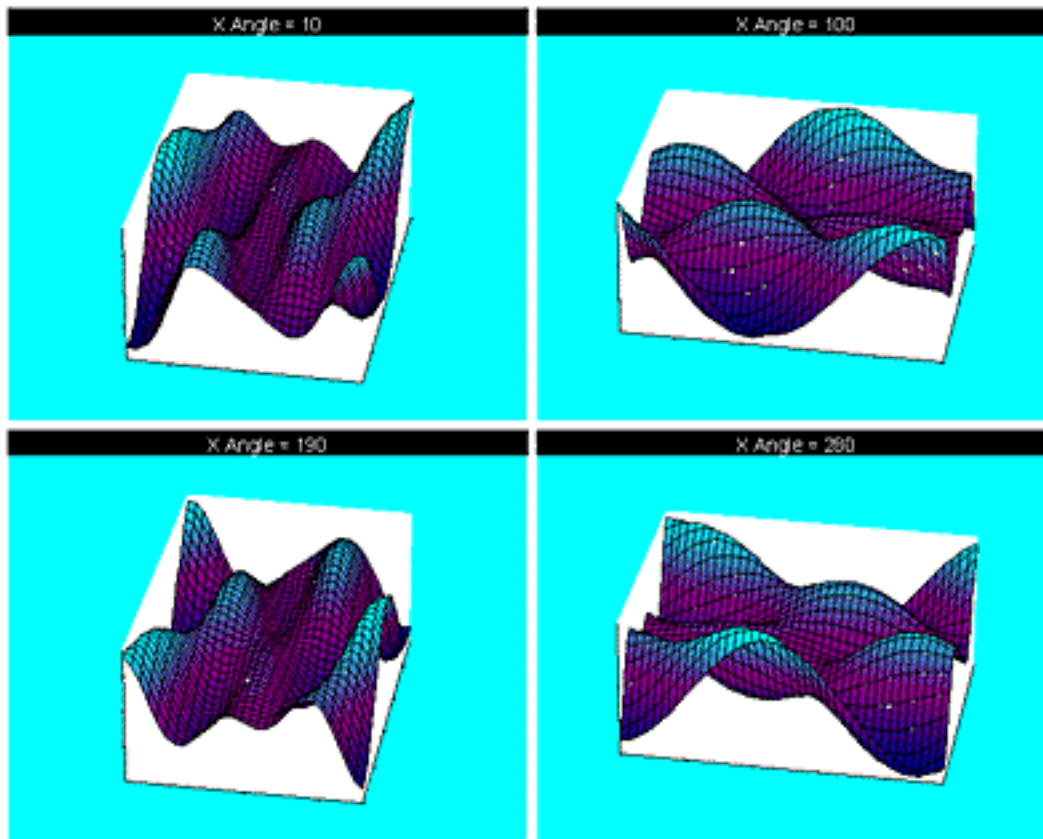
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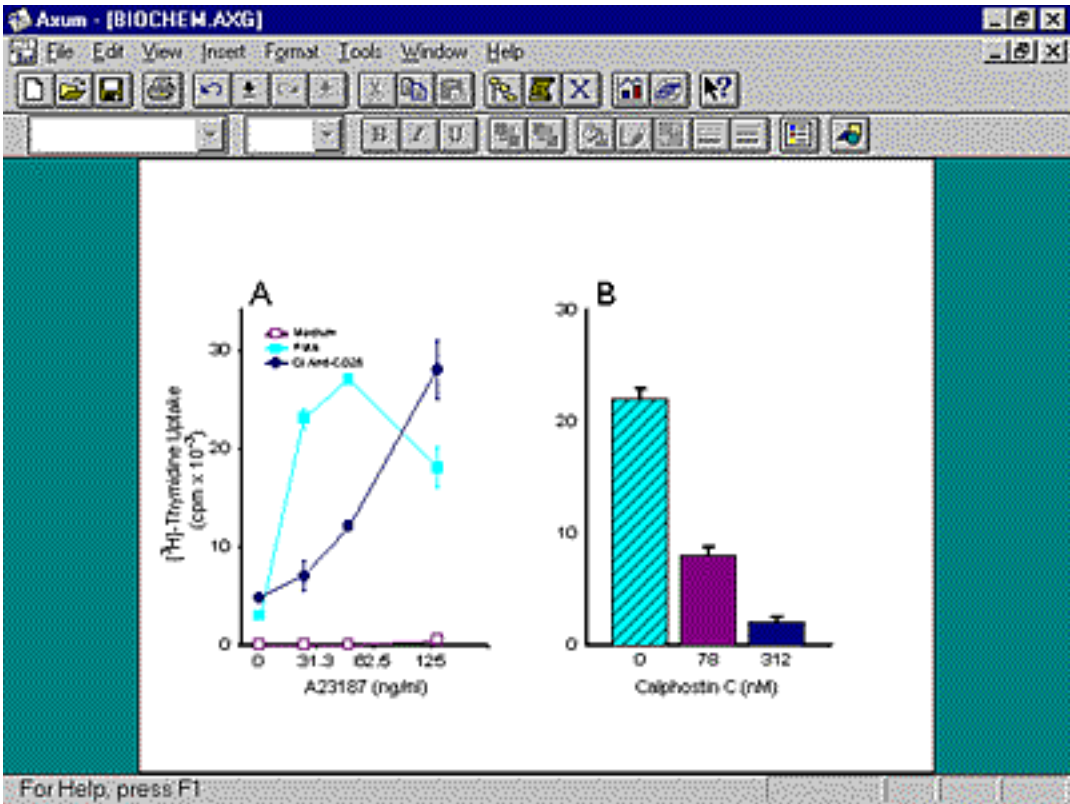
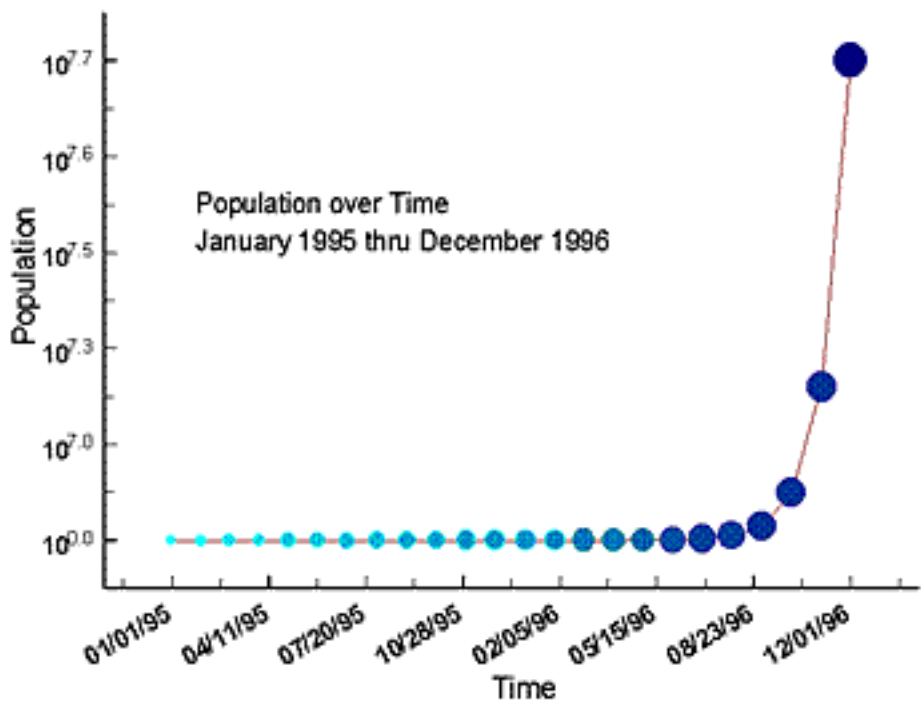
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Growth Survey



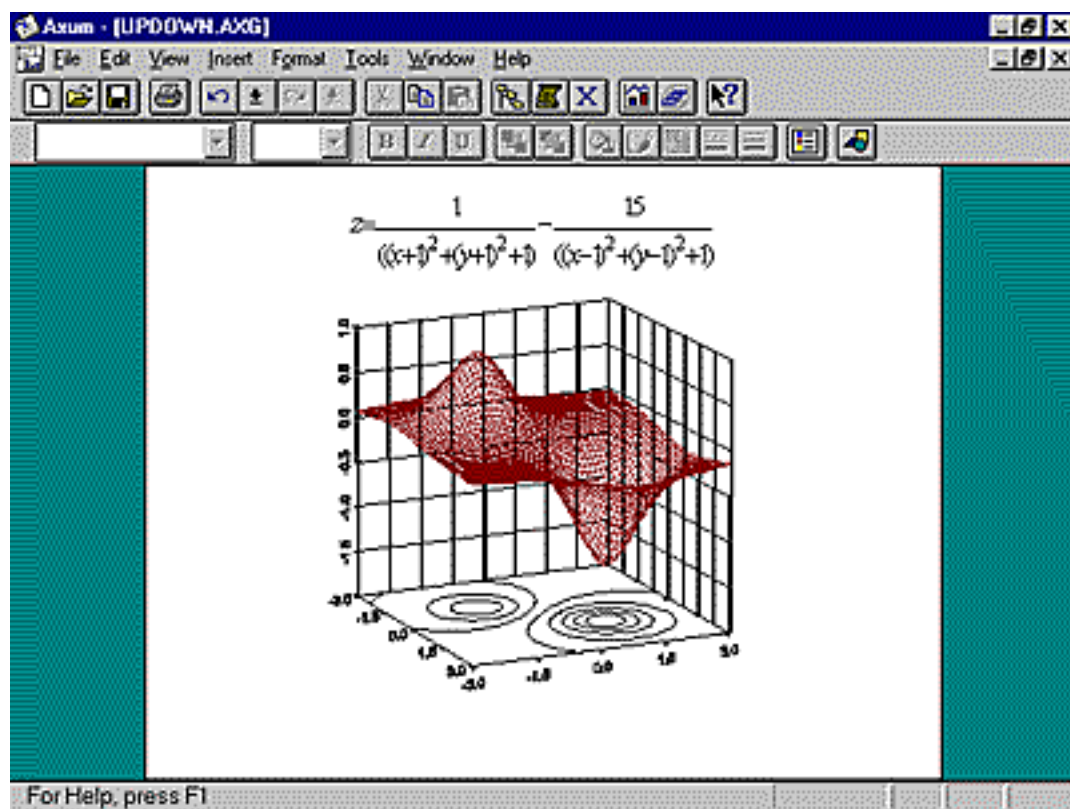
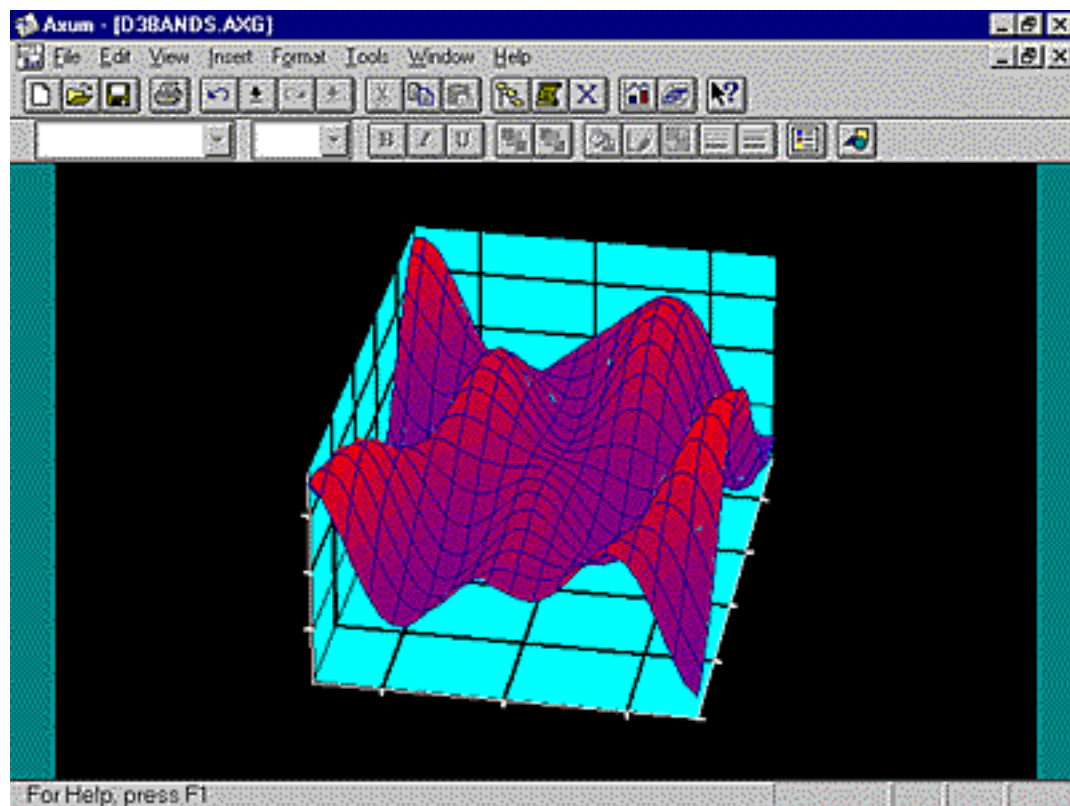
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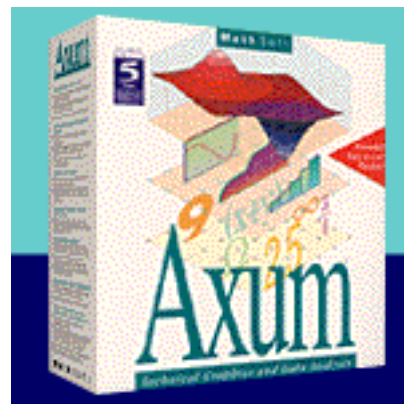
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Annotate your graph with text, symbols, and equations.



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