New Features

This is an overview of some of **Grapher's** new features.

General

- **Grapher** is designed for Windows 98, Me, 2000, and XP
- Several new script examples have been created
- Added picture fills so you can use pre-defined picture patterns or you can define custom picture patterns
- Use different outline and fill colors for symbols
- Display multiple plot documents in a tabbed view

Editing

- Use the new **Property Inspector** to edit an object's properties
- View all the data loaded into **Grapher** in the **Worksheet Manager**
- Revised the **Object Manager** for simpler access to objects
- Make use of the **Pan** command to easily move the plot document
- Rotate 3D graphs interactively with the **Graph | 3D Trackball** command

2D Graphs

- 2D polar bar charts show bar chart data on an angle axis
- Show hi-low-close plots as candlestick plots

3D XYY Graphs

Pie charts can have a thickness component when displayed as 3D XYY pie charts

3D XYZ Graph

- Use the 3D XYZ bar chart to show three dimensions as a bar chart
- Added a 3D XYZ bubble plot to show four dimensions (X, Y, Z, and size)

Labels

- Drag plot labels to new locations with the improved **Move Plot Labels** command
- Position labels at the front, back, or centered on 3D type plots
- Restrict labels by rows
- Create minor tick labels when using axis labels from a data file
- Ternary plots may now use labels from a data file
- Pie chart labels can be displayed as the same color as the corresponding pie slice
- When using logarithmic, exponential, superscripted labels, you can remove the "1x" in the labels.

Graphing Features

- Limit polar-type plots to a specified range
- Select a baseline value when calculating the area under a curve
- Display horizontal or vertical drop lines on 3D XYZ plots
- Scale bubble plot symbols according to user-defined data values
- Column criteria can now use numeric values as well as the text
- The initial column selections default to the first columns containing valid data rather than just the first columns in the data file

Legends

- Change the length of the plot lines through the legend properties
- Select one or three symbols to display in the legend through the legend properties
- Set legend line length defaults through **File | Preferences**
- Set the default number of legend symbols (one or three) though **File | Preferences**

Axes

- Add multiple Z axes to 3D plots
- If a graph has multiple axes, the axes can be selected when adding to a graph through the graph wizard
- Flip tick marks and labels, disable tick marks, or disable labels when adding a plot to an existing graph and creating a new axis.

Worksheet

View all the data loaded into **Grapher** in the **Worksheet Manager**

User Interface Features

- Added a toolbar for resizing and positioning objects
- Graph titles are easily accessible through the new **Property Inspector**
- Customize the toolbars and menu by adding or removing buttons and controlling menu appearance
- Preview the graph when using **File | Open**
- Lock an object's position to avoid moving it accidentally
- Export a file as an [.EPS] file directly, not through **File | Print**
- Export a file as a [.PDF] file directly, not through **File | Print**
- Use hot keys to zoom in (CTRL++), out (CTRL+-), on a rectangle (CTRL+R), and on selected objects (CTRL+L)