New Features

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

General

- Added the ability to insert fit statistics as a dynamic item in the plot window.
- Added a symbol table option similar to a color table for applicable plots.
- Added a symbol column option to applicable plots.
- Added angle control for plot symbols.
- Added box and margin settings to the **Text Editor**.
- **Open** and **Save** dialogs now remember what file type was last selected.
- Added an auto-backup option allowing you to specify that files should be saved every X minutes.
- Added the ability to change 2D graphs to 3D graphs and vice versa.
- Database files may now be imported into **Grapher** via the **File | Open** command.
- Added the option to allow page headers/footers to be exported via the **Preferences/Default Settings** dialog.
- Increased the maximum thickness of bars in bar charts from 5000% to 50000%.

Editing

- Text objects can now be tied to a worksheet cell using the **Draw | Text** command. Any worksheet and any worksheet cell can be linked to text using this feature.
- Worksheets can now be stored as relative paths on a per document basis via the **Preferences/Default Settings** dialog.
- Added the ability to apply worksheet changes to all selected plots regardless of which graph owns them.
- Added spline polyline and spline polygon drawing tools.
- Added support for different fill directions for between fills, similar to standard plot fills (vertical, horizontal).

2D Graphs

- Added a new summation (stacked) line graph. This plot type works to sum line and function plots.
- Added a new class scatter graph type.
- Added a new polar class scatter graph type.
- Added a new stiff plot graph type.
- Added the ability to create a category bar chart through the **Graph | Graph Wizard** command.

3D XYZ Graphs

- Added XYZ class scatter graph.

Labels

- Added the ability to select displaying only top or bottom labels for floating bar charts.
- Added the option to display connection lines between plot labels and data points in 2D graphs.
- Added the option to draw axis tick mark labels between tick marks.

Graphing Features

- Grouping of bar charts is now better controlled through options on the new **Bar Chart Groups** page in the **Property Inspector**.
- Added a third data column used to control the variable width bars in bar charts.
- Added the option to set the width of bars in a bar chart to a fixed width.

- Added the ability to change the definition of box-whisker outlier points.
- Added the ability to create multiple plots at once by using the first selected column in a worksheet as the X data column and any following selected columns as the Y columns, one for each plot.
- Added bubbles feature to ternary diagram plot.

Legends

- Added headers in **Legend Entries** dialog to allow changing of the font of all entries at once.
- Added a link option for names in the legend so if the plot name changes, the legend entry name changes as well.
- Added a link option to link the legend title to the graph name.

User Interface Features

- Added a new **Script Recorder** feature to allow users to record and edit scripts within **Grapher**. This feature is accessed via the new **Script Manager** window.
- Added the **View | Reset Windows** command to allow resetting of all windows to their default size and position.
- Added the option to display **Property Inspector** tabs on the top of the window rather than the side of the window.
- Made import and export dialogs resizable. Changes are remembered from one use to the next.
- Changed box-plot axis properties to be more like standard axis properties so tick labels, tick marks, and line properties are on separate tabs in the **Property Inspector**.
- Changed the graph toolbar layout to include separate 2D and 3D toolbars.
- Implemented major changes to the **Graph Wizard** to increase ease of use.

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