

New Features

This is an overview of some of **Grapher 13's** new features and updates since the initial release.

Grapher 13.2 Updates

- Select specific layers when [importing](#) vector PDF files.
- [Duplicate Axis](#) now duplicates all properties.
- Editing properties for multiple [text](#) objects at the same time no longer changes the text.
- [Grid lines](#) appear below axes, tick marks, and labels.
- New option to allow plots to use [empty columns](#) (useful when creating templates).

User Friendly

- New and improved [Graph Wizard](#) makes creating graphs faster and easier for both new and experienced users.
- Redesigned [ribbon](#) makes commands much easier to find and use.
- Redesigned the [Property Manager](#) to make finding properties easier and more intuitive.
- Added a command and help topic search to the [ribbon](#).
- Plots are created with different colors when creating plots via the [Graph Wizard](#), when clicking *Create* in the *New plot* field of the [Plot](#) page, or when [creating a multiple plots](#) in one graph from the worksheet.
- New default properties improve graph readability and appearance.
- Improved the precision of page units.

Graph Features

- Create [Piper and Piper Class](#) diagrams.
- [Angle ticks](#) along grid lines to make reading Ternary and Piper diagrams easier.
- Add a [LOESS fit](#) to scatter, line, and line/scatter plots.
- Add a [Reduced Major Axis fit](#) to scatter, line, and line/scatter plots.
- Calculate the [standard error](#) of the intercept and slope coefficients for linear, log, and exponential [fit plots](#).
- Calculate the [correlation coefficient](#) for [fit plots](#).
- [Apply varying fill colors](#) to all slices in a pie or doughnut plot with a colormap.
- Multithreaded and optimized the gridding algorithm to display [contour data maps](#) and [surface data maps](#) faster.

Drawing and Digitizing Features

- Added over 150 complex [line styles](#).
- Automatically wrap words with the [Text Editor](#).
- [Rotate](#) images.

Import and Export Improvements

- Import [Vector PDF](#) files
- Import [DGN Microstation Design v7](#) files
- Import [GeoJSON Data Interchange Format](#) files
- Import [GML Geography Markup Language](#) files
- Import [000 IHO S-57 Electronic Navigation Chart](#) files
- Import [RT* TIGER/Line](#) files
- Import [TAB MapInfo Table](#) vector files
- Import [VCT IDRISI Binary Vector](#) files

Automation

- Create [piper](#) and [piper class](#) diagrams.
- Set the ternary axis [tick mark direction](#).
- Add a [LOESS fit](#).
- Add a [Reduced Major Axis fit](#).

See Also

[Introduction to Grapher](#)

[Three-Minute Tour](#)

[Grapher Tutorial Introduction](#)

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