Grapher
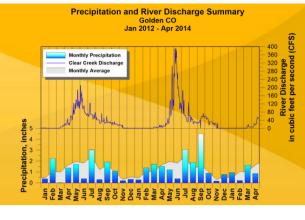
If you can visualize it, you can graph it

Making sense of data isn't just a task; it's a craft.
Grapher transforms complex data into clear, impactful visuals, presenting your insights at their best.

Present Your Data Accurately With 80+ Graph Options

Grapher offers high-quality graphing tools so you can get the most out of your data. Grapher provides over 80 different 2D and 3D graphing options to suit multiple industries, from geology and hydrology to environmental work and construction.

Line/Scatter Plots
- Line
- Scatter
- Line/Scatter
- Step
- Bubble
- Class Scatter
- 3D Ribbon
- 3D Wall
- 3D Step
- XYZ Line/Scatter
- XYZ Bubble
- XYZ Class Scatter

Vertical/Horizontal Bar Charts
- Bar
- Floating Bar
- Category Bar
- 3D Bar
- 3D Floating Bar
- XYZ Bar
- XYZ Floating Bar

Histograms
- Histogram
- 3D Histogram

Pie Charts
- Pie
- 3D Pie
- Doughnut
- 3D Doughnut

Box Plots
- Vertical Box
- Horizontal Box
- 3D Box
- Notched Box

Vector Plots
- 1 & 2 Point Vector
- XYZ 2-Point Vector
- XYZ-dx,dy,dz Vector

Q-Q Plots
- Q-Q
- Normal Q-Q

Ternary Plots
- Ternary Scatter
- Ternary Line/Scatter
- Ternary Line
- Ternary Class Scatter
- Ternary Bubble
- Piper
- Piper Class Scatter
- Durov

Function Plots
- Y= F(X) Function
- X= F(Y) Function
- Parametric Function
- 3D Y=F(X) Function
- 3D X=F(Y) Function
- 3D Parametric Function

Geochemistry Plots
- Piper
- Piper Class Scatter
- Durov
- Durov Class
- Stiff

Polar Plots
- Polar Line
- Polar Scatter
- Polar Line/Scatter
- Polar Class Scatter
- Point Polar Vector
- Polar Function
- Polar Bar
- Polar Rose
- Polar Wind
- Radar

Contour & Surface Maps
- Contour Data
- Contour Grid
- Contour Function
- Surface Data
- Surface Function
- Surface Grid

Customize Each Detail

Control every aspect of your plot down to the smallest detail. Grapher's extensive customization options empower you to narrate the intricate stories hidden within your data, making them easily comprehensible

- Add legends, titles, and axes
- Include inset zoom
- Edit all axis parameters
- Add multiples axes
- Scale axes as linear, logarithmic, natural logarithmic, or probability
- Combine multiple graphs

- Add fit curves, error bars, and statistical reports
- Easily filter data in and out of your plots
- Date/Time formatting
- Place graph components in a precise location
- Define and edit custom line styles, colors, symbols and fills

Dive Into Analysis

Creating an impressive graph is only the start. Grapher can help you leverage your years of expertise with extensive analysis charts, tools, and statistical features. Identify trends, find new insights, and locate opportunities. Grapher developers listen to what scientists need to perform their jobs and have included pre-defined analysis tools, as well as the ability to add your custom tools.

Statistical Calculations

- First input row
- Last input row
- Number of values
- Number of missing values
- Sum
- Minimum and Maximum
- Range
- Mean
- Median
- Mode
- First quartile
- Third quartile
- Standard error of the mean
- 95% confidence interval for the mean
- 99% confidence interval for the mean
- Variance
- Average deviation
- Standard deviation
- Coefficient of variation
- Coefficient of skewness
- Coefficient of kurtosis
- Komogorov-Smirnov goodness of fit
- Critical Value of K-S statistic at 90, 95, 99% significance level

Pre-Defined Fit Curves

- Linear
- Log
- Exponential
- Power
- Spline Smoothing
- Polynomial
- Orthogonal Polynomial
- Through Origin
- Running Average
- Weighted Average
- LOESS (LOWESS)
- RMA (Reduced Major Axis)
- Normal Distribution (Gaussian)
- Lognormal Distribution
- Exponential Distribution
- Power Distribution
- Inverse Gaussian Distribution

In addition to these pre-defined analysis tools you can perform custom functions, add custom fit curves, error bars, and confidence intervals.

Create Scripts to Automate Repetitive Tasks

Create scripts to automate repetitive tasks, and run your favorite scripts directly from Grapher's UI. Grapher can be called from programming languages such as C++, Python, or Perl. Grapher also ships with Scripter, a built-in Visual Basic compatible scripting tool that can run with the script recorder to automatically transform actions performed in Grapher into a script, no prior knowledge required!

Share Data With Colleagues

Seamlessly visualize and analyze data from multiple sources for multiple industries. Grapher reads numerous file formats and supports all popular export formats. Quickly share your work with colleagues, stakeholders, and clients in their preferred viewing format.

- Universally accepted data import options such as XLSX, CSV, DBF, TXT, and DAT
- Export to industry standard PNG, TIFF, JPG, PDF, PNG, or SVG
- Tools to easily insert graphs into presentations
- Preview data and final outputs with Gallery and Preview features

[Click here](#) to view the full list of Grapher supported file formats

Analyze complex data with ease,
create meaningful graphs with unparalleled speed,
and clearly communicate results to all audiences.
[Download the free trial today.](#)