Sigmaplot NG Foundation

Version 1.1

Release Notes

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Document Ver - 1.41

SigmaPlot^ng
Foundation

Product: Sigmaplot NG Foundation 1.1

Version: 1.1 release

Features and Functionalities:

1. **Supported Platforms:**
   - Windows – Windows 10, Windows 11
   - Mac – Intel and ARM processors (M1, M2) – Big Sur, Monterey, Sonoma
2. **Hardware requirements:**

   Mac:
   - 2.8 GHz or faster 64-bit processor; Dual-core or better recommended.
   - Both Intel (x64) and Apple Silicon (arm64) processors are supported.
   - 4 GB of RAM; 8 GB of RAM recommended.
   - Hard disk space: Minimum of 1 GB up to 2 GB of available space.
   - A screen resolution of 1280 x 800 or higher.

   Windows:
   - 2.8 GHz or faster 64-bit processor; Dual-core or better recommended.
   - 4 GB of RAM; 8 GB of RAM recommended.
   - Hard disk space: Minimum of 1 GB up to 2 GB of available space.
   - A screen resolution of 1280 x 800 or higher.

3. **Supported Graph Types:**

   2D Graphs:
   Radar Plot
     Scatter
     Line
     Line Scatter
     Area
   Area Plot
     Simple
     Multiple
     Vertical
     Multiple Vertical
   Scatter Plot
     Simple
     Multiple
     Simple Scatter – Error bar
     Multiple Scatter – Error bar
     Horizontal Error bar
     Bi-Directional error bar
     Vertical Asymmetric Error bars
     Horizontal Asymmetric Error bars
     Bi-Directional Asymmetric Error Bars

Vertical Point
Horizontal Point
Line Plots
    Simple Straight
    Multiple Straight
    Simple Spline
    Multiple Spline
    Simple Vertical Step
    Multiple Vertical Step
    Simple Horizontal Step
    Multiple Horizontal Step
    Simple Vertical Midpoint Step
    Multiple Vertical Midpoint Step
    Simple Horizontal Midpoint Step
    Multiple Horizontal Midpoint Step

Scatter and Line
    Simple Straight
    Multiple Straight
    Simple Spline
    Multiple Spline
    Simple Error Bars
    Multiple Error Bars
    Horizontal Error bar
    Bi-Directional error bar
    Simple Vertical Step
    Simple Horizontal Step
    Multiple Horizontal Step
    Simple Vertical Midpoint Step
    Multiple Vertical Midpoint Step
    Simple Horizontal Midpoint Step
    Multiple Horizontal Midpoint Step

Bar
    Simple Bar
    Grouped Bar
    Vertical Bar – Error Bars
    Grouped Vertical bar – Error Bars
    Stack Vertical
    Simple Horizontal bar
    Grouped Horizontal bars
    Horizontal bar – Error bars
    Grouped Horizontal bar – Error bars
Box
    Vertical
    Horizontal
Polar
    Scatter

Line
Line and Scatter

Histograms
Ternary
Scatter
Line
Line Scatter
Bubble
Pie Chart

Heat Map
Geographical Maps

3D Graphs

3DScatter

3D line - Trajectory

3D Mesh

3D Line - Waterfall

3D Contour, Filled Contour

4. Graph features:

Technical Axis

Ternary

Linear

Log Common
Category

Error Bars

From Worksheet Columns
Asymmetric

Graph Page:
Single graph full view
Add Plot
Delete Plot
Add Axis
Modify Plot
Plot Labels (Only for Scatter, Line and Bar) from column

Group	Panel	Properties
Graph		Title, Font,Rename
Graph	Legends	ShowLegends, Framed in box, Legend Title, Reset,Use Y only for Legends, Box, Font, No of Columns
Graph	Legends Items	Symbol Width
Graph	Grids	Solid Style, Thickness, Color
Graph	Graph Planes	Plane Color
Graph/ Heatmap	Heatmap	Fill Color
Graph/ Geographic	Geographic	Region, Scale, Show Ocean, Show Rivers, Show Lakes, Show Frame, Show Countries
Axis		Name, Font, Rename
Axis	Lines	Color, Thickness
Axis	Scaling	Scale Type (Linear, Log, Category), Calculation (Constant, Data Range)
Axis	Major Labels	Prefix, Suffix,Top, Bottom,
Axis	Major Tick Labels	Scentific Notation, Engineering Notaion
Axis	Major Ticks	Length, Thickness, Color, Direction, Interval
Axis/Ternary	Major Ternary Labels	Tick Label Type, Font, Label Appearance
Axis/Ternary	Major Ternary Ticks	Length, Thickness, Color, Direction Bottom, Direction Top
Axis/Polar	Major Polar Labels	Tick Spoke, Tick Label Prefix, Tick Label Suffix
Axis/Radar	Radar Labels and Ticks	Length, Thickness, Color, Direction, Tick Label Outer, Prefix, Suffix
Plot		Rename, Delete, Modify, Plot Details
Plot	Data	Data Samplin (Entire Range, Rows Only)
Plot	Symbols	Size, Type, Edge Color, Fill Color, Fill Color Scheme, Edge Color Scheme(Simple Graphs), Edge Thickness
Plot	Lines	Style, Thickness, Shape, Color, Fill Color Scheme
Plot	Area Fills	Color, Fill Color Scheme (Simple graph), Direction (Top, Down)
Plot	Error Bars	Color, Thichness, Cap Width
Plot/Bar	BarWidth	Bar Thickness, Group Spacing
Plot/Box	Box Options	Show Mean Line, Thickness,Gap Color (Mean Line), Whisker Width, Outliers Handling, Line Type
Plot/Pie	Pie Slices	Counter Clock wise, Exploded Slices (Explode, Explode Slice)
Plot/Contour	Contour Fills	Style,Thickness, Color, Gap Color, Fill Color, Fill Start
Plot/3D Lines	3D Lines	Style,Thickness, Color
Plot/Geographic	Location	Location Format

7. Analysis

Statistics:

Descriptive statistics

One Way Frequency Tables

One Sample t-test

One Sample Signed Rank test

t-tests, Rank Sum Test

One-way, two-way, three-way ANOVA

ANOVA on Ranks

One Way Analysis of Covariance (ANCOVA)

Paired T-Test

Signed Rank Test

One Way, Two Way Repeated measures ANOVA

Repeated measures ANOVA on Ranks

Z-test, chi-square, Fisher Exact Test, McNemar's Test, Relative Risk, Odds Ratio

Linear, Stepwise, Best Subset, Polynomial, Multiple Logistic, Multiple Linear, Deming

Principal Components Analysis (PCA)

Correlation -> Pearson Product Moment, Spearman Rank Order

Survival analysis (Kaplan-Meir – Single Group, Log Rank, Gehan Breslow)

Survival analysis (Cox Regression – Proportional Hazard, Stratified Model)

Normality

Advisor

Advisor Wizard guides through the process of choosing the appropriate statistical test

Transforms

Quick Transform

User Defined Transform

Statistical Transform

8. Report Features:

Ability to change the report background color

Auto-numbering

Insert tables with pre-defined styles or customize completely

Zoom enabled report

Hyperlinks: Should be able to create hyperlinks by converting existing texts.

Bookmarks/Table of contents: Create bookmarks, by specifying portions of texts as reference/placeholder

Page header/Footer/page number: Add header/footer and page number at the bottom of the page.

Page Setup: User should be able to specify the page configuration, page layout, margins and size.

Page Break: User should be able to insert page breaks.

Insert footnotes/endnotes: User should be able to add footnotes and endnotes to the document editor.

Background Images - User should be able to insert images as Backgrounds/Watermarks.

Property panel - context editing

9. **Worksheet Features:**

More flexible column titles allow with numeric titles

Freeze Panes

Multi-line editing - text wraps to fit the column while the row height adjusts

Find and replace data

Quick worksheet window scrolling with middle mouse wheel

Format the text in the cells with color, font

Multiple key column data sorting

Insert color, symbols, line styles and bar patterns

Tooltips: Additional tooltips to view the usage of a certain feature by hovering the cursor over the icon.

New Cell formats - Format currencies, accounting, percentage, and fraction-based data.

Font Formats- Perform text styling like bold, italicize, strikethrough and underline.

Fill color – Select and fill the background color.

Borders – Define cell borders, specify size of borders, colors and apply styling options

Justify – Able to align the text in cells (left, center, right).

Vertical align – Perform vertical alignment on cell values (top, center, bottom).

Formula bar- Edit/enter the cell values through a formula bar directly.

Formulas- User should be able to apply formula to the cells.

10. **Other Features:**

General Features
Print
Auditing
Password Protection
Global Options for Worksheet, General, Report, Graph

Data Import
SAS data sets (.sd2 and. sas7bdat files)
Minitab data sets (.mtw & .mpj files)

Open ASCII Plain, CSV
Excel (.xls, .xlsx)
Opens R
Matlab
Stata
JMP
ODBC, JDBC support to Import database (Windows Only)
SYSTAT
SPSS
JMP (.jmp)

Data Export

SAS files (.sd2 and .sas7bdat files)

Minitab files (.mtw & .mpj files)
ASCII Text, Tabbed, Comma, 1-2-3,
Excel (.xls)
Save as R,
Matlab (5,7,2016),
Stata
SYSTAT
JMP files

Graph Export Options:

Export an individual graph or an entire view

PDF, SVG, PNG, JPG export of graphs

Report Export Options:
Word, PDF and text export of report

11. Installer and License:
Standard user folder installer
Single Click Installer
Standalone license – Separate license for Windows and Mac

Known Issues, limited scope features:

1. Help document and context help will be improved.
2. Admin privilege is required to install Sigmaplot in Mac environment.
3. Some environments with few firewalls have restrictions on running services on the local machine, which may give trouble starting the back end. Whitelisting the installation folder solves the problem.
4. Mac OS installation requires Java Runtime Environment (JRE), please download and install the JRE from the mentioned location.
   https://javadl.oracle.com/webapps/download/AutoDL?BundleId=249545_4d245f941845490c91360409ecffb3b4

5. Follow the below mentioned steps if any installation issue in the Mac OS environment.
   a. Move the downloaded installer (Package file) to any user folder from the "Download" folder. After that start installation.
   b. Enable full disk access for the terminal by navigating to "System Settings -> Privacy and Security -> Full Disk Access" and toggle it.