

IBM SPSS Statistics: What's New

New and enhanced features to accelerate, optimize and simplify data analysis



Highlights

- Extend analytics capabilities to a broader set of users with a cost-effective, pay-as-you-go software subscription
 - Employ Bayesian statistics, a method of statistical inference
 - Share your findings easily with stronger Microsoft Office integration
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Analytics plays a vital role in helping your organization achieve its objectives. The IBM® SPSS® Statistics family delivers the core capabilities needed for end-to-end analytics. To ensure that the most advanced techniques are available to a broader group of analysts and business users, enhancements have been made to the features and capabilities of the IBM SPSS Statistics portfolio and its many specialized modules.

IBM SPSS Statistics 25 continues to increase accessibility to advanced analytics through improved tools, integration, output and ease-of-use features. This release focuses on increasing the analytic capabilities of the software through:

- New and advanced statistics
- Stronger integration with third-party applications
- Enhanced productivity

Our suite of statistical software is now available in two different purchasing options. For individuals and organizations that require pay-as-you-go software usage, SPSS Statistics Subscription and its optional add-ons provide the flexibility you are looking for.

The perpetual editions of SPSS Statistics 25—standard, professional and premium—deliver the long-term software access required for analytics groups. These editions group essential features, functionality and usage requirements to offer a convenient way to acquire the capabilities you need.

The latest features and functionality are available in both IBM SPSS Statistics Subscription and IBM SPSS Statistics 25.



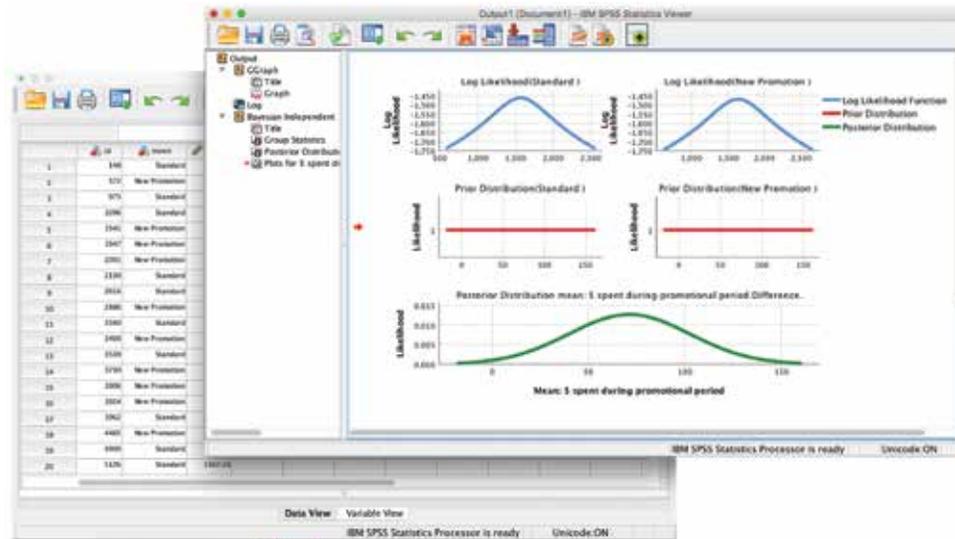


Figure 1. IBM SPSS statistics now includes Bayesian statistics.

Analyze your data with new and advanced statistics

SPSS Statistics 25 includes groundbreaking features within advanced statistics, so you can apply even richer analysis to your data:

- Mixed Linear Models (MIXED) and Generalized Linear Mixed Models (GENLINMIXED) procedures now provide:
 - Random effects solution results (EBLUPs)
 - Continuous time spatial covariance structures
- The General Linear Model (GLM) and UNIANOVA procedures have been enhanced with new features including:
 - Profile plots with error bars, bar and line charts, and an option to include grand mean
 - Option to force charts to include 0 on the y-axis
 - New tests for heteroskedasticity and model specification
 - Robust standard errors
 - Modified versions of Levene’s test

Add probabilities to your analysis with Bayesian statistics

SPSS Statistics 25 now offers the capability to use Bayesian statistics, with both new syntax and GUI elements that are as easy to run as traditional p-value statistics. Some of the features available within Bayesian statistics include:

- One sample and pair sample *t*-tests
- Binomial proportion tests
- Poisson distribution analysis
- Independent samples *t*-tests
- Pairwise correlation
- Simple and multiple linear regression
- Analysis of variance (ANOVA)

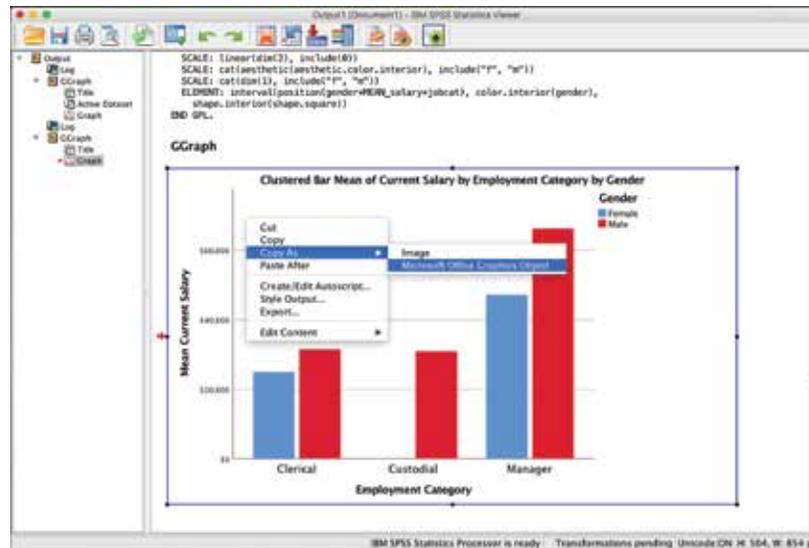


Figure 2. Copy charts as Microsoft graphics and edit them later.

Stronger integration with third-party applications

In SPSS Statistics 25, you get a redesigned experience when exporting charts to Microsoft. With this release, you can copy charts as Microsoft Graphic Objects, which enables you to:

- Copy Chartbuilder output as Microsoft Graphic Objects
- Manipulate charts as if created in Microsoft Office
- Apply Microsoft Office chart templates
- Maintain the ability to paste charts as pictures

You can also copy and paste data with variable names and labels.

Enhanced productivity

Improved Chartbuilder

SPSS Statistics 25 enables you to build more attractive, modern-looking charts. With the enhanced Chartbuilder, you will be able to:

- Display a more accurate preview and make modifications faster, without leaving the Chartbuilder
- Automatically generate chart titles
- Specify custom titles without editing
- Generate a scatter plot with a regression line using new templates
- Easily specify custom colors and apply templates right in the Chartbuilder
- Copy charts as either pictures or Microsoft Object Graphic format

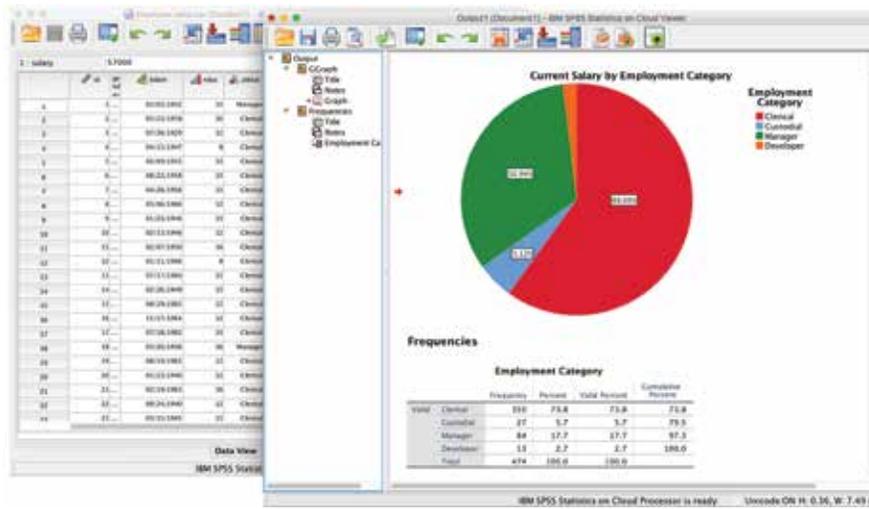


Figure 3. Chartbuilder features new modern default graphics.

Data and syntax editor enhancements

Syntax editor improvements can help power users write syntax faster, with greater flexibility for editing, cleaning and formatting syntax files. New features include:

- New shortcut keys to speed writing and editing syntax
- Column mode editing
- One-click trim of leading, trailing and empty spaces
- Large file mode

Data editor copy/paste enhancements include:

- Added ability to copy data with variable names or labels
- Added ability to paste data with variable labels

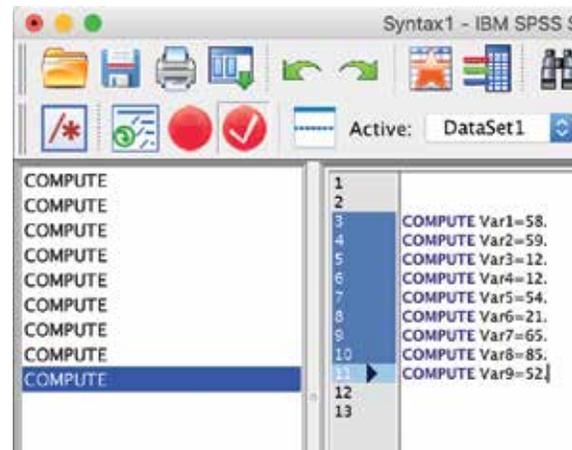


Figure 4. Edit multiple lines at once with the new syntax editor feature.

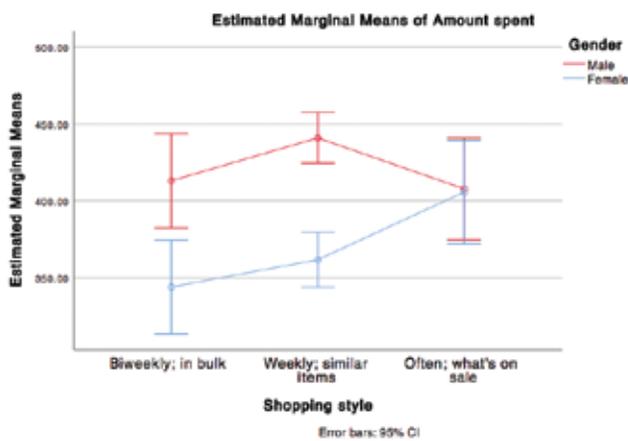


Figure 5. New advanced statistics include profile plots.

Additional productivity enhancements

Additional productivity enhancements include:

- Accessibility advancements for the visually impaired
- Updated Merge user interface
 - New simplified Add Variables dialog
- Simplified toolbars
 - Removed toolbar buttons by default that were infrequently used
 - Added buttons to go to active syntax window and go to active output viewer window
 - Added toolbar button to customize the toolbar
- Ability to open Stata 14 files
- Incremental Safenet Sentinel License Manager improvements

SPSS Amos 25 enhancements

New groundbreaking features within SPSS Amos 25 will allow you to:

- Perform D-separation analyses
- Read R data files (*.rds and *.RData files) if R is installed
- Execute Amos from within an R program, much like how you can execute Amos from the IBM SPSS Statistics main menu
- Click *File > File Explorer* to show the current path diagram (*.amw) file in Windows File Explorer; if you haven't saved your path diagram yet, File Explorer shows the default folder for saving path diagrams
- Get your own copy of example files
 - A copy of the example files from the user guide is placed in each user's Application Data folder
 - For example, the folder for an Amos user named Jim is located at `C:\Users\Jim\AppData\Local\Amos Development\Amos\25\Examples`
- Locate important Amos folders through environment variables.
- View list of variables displayed by clicking *View > Variables* in Dataset, which shows additional information about each variable and allows sorting by variable name and variable label
- View SPSS Statistics data files (*.sav files) in the SPSS Amos View Data window even if SPSS Statistics is not installed

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For more information

To learn more about IBM SPSS Statistics, to start a free trial or to make a purchase, visit:

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