

Release Notes for JMP 12.1

JMP 12.1 is a general maintenance release that contains enhancements and bug fixes. Reproducible crashes and numeric issues have been corrected. Applying this maintenance release is recommended for all sites.

New Features

Distribution

- A Compute smoothed empirical likelihood quantiles check box has been added to the Custom Quantiles window. This enables you to turn off the calculation for faster results.

Importing Data

- Missing value ranges are supported in SPSS .sav files for numeric data. The range is all integer values between two numbers, limited to 20 numbers. If the range starts with a negative number, the numbers count down to the maximum value. If the range starts with a positive number, the numbers count up from the minimum value. For example, if the range is -1000 to -1, only -10 down to -1 are included. If the range is 1 to 1000, only 1 up to 10 are included.

Interactive HTML

- Values labels for categorical variables are supported in Interactive HTML profilers.
- In Interactive HTML, Bubble Plot has improved support for transparency and colors in trailing lines and bubbles.

JMP Help

- The Help page for Interactive HTML is available in Simplified Chinese, French, German, Italian, Japanese, and Spanish. Click the question mark button on the Interactive HTML page to view the help.
- *Discovering JMP* is available in Simplified Chinese, French, German, Italian, Japanese, and Spanish.

Profilers

- 95% confidence intervals have been added to Marginal Model Plots.
- To see the actual data points in the Marginal Model Plots, select **Data** from the red triangle menu.

Scripting

- Variables that are locked using the Lock Global s() function are no longer deleted when the Delete Global s() function is run.

General Improvements

Data Import and Export

- Date formats are chosen more accurately when pasted into JMP from external sources. A log message is displayed if column formatting changes.
- The `Open()` function now has an Excel Wizard option that invokes the Excel Import Wizard window for specifying import information. Use the `Worksheets(n)` option if you want to specify which worksheet to open.
- Saving a data table that has multiple response columns as CSV or TXT works correctly.
- JMP has improved importing and exporting capabilities to handle data tables that contain over 2 billion rows.

Data Tables

- When you copy and paste into the label column of a transposed table, strings are no longer truncated.
- In the Subset window, click **Save Default Options** after you have selected your preferred settings to save the current settings as the new default options.

Database

- In data tables that came from a database source, the Update Table script updates columns even if formula columns were added at the end of the table.

Display

- Custom marker property settings are saved properly and are displayed correctly on the graph.
- Custom transparency settings for graphs are now correctly saved to the script window.
- The `CheckBox()` and `RadioButton()` display functions no longer require an argument.

Formula Editor

- In the Formula Editor, matrices are no longer truncated when displayed as a picture using `Expr As Picture()`.
- The `Hex to Number()` function now produces the expected result when handling an odd number of digits.

Macintosh

- SAS ODS results are displayed correctly in browsers on Macintosh Yosemite.
- Microsoft Excel Macro-Enabled (.xlsm) files are not supported on Macintosh.

Query Builder

- When you apply or change aliases to duplicate data tables in a query, the changes are applied to both instances of the data table.
- You can now set the maximum number of rows to be returned in Oracle sampling.

Statistics and Graphics

Distribution

- In Distribution, JMP now functions properly when working with transformed columns with the Auto Recalc option turned on.

Categorical

- Specifying comparison groups in the Categorical platform is enhanced and now properly displays data.
- You can now compare any combination of sample dimension values in the Categorical platform.
- The Categorical platform treats negative frequency counts as zero, which is consistent with the Contingency platform.

Cluster

- The Recall button in the Cluster launch window now properly remembers the previous settings.

Contour Plots

- The Contour Plot legend for filled areas now matches the graph by using < instead of <= for the boundary condition.

Control Charts

- When you generate an EWMA control chart for a Process column that contains missing values, the control limits are now correctly displayed in the report.
- Due to the different way the Control Chart platform handles updating graphs and performing calculations based on row states, the local data filter option is not available.
- In the Control Chart Builder, adding a test to one graph using the Customize Tests option now applies and shows correctly in the other graphs as well. To find the Customize Tests option, right-click in a graph and select **Warnings > Customize Tests**.
- Setting the sample size value in a Control Chart script is now correctly shown in the resulting report.
- If you have specified a value other than 0.05 for the alpha level in the Preferences for Multivariate Control Chart, when you run a Multivariate Control Chart analysis, you no longer see a window prompting you to specify the alpha level for the upper control limit.
- You can no longer specify a character column for the nTrials zone in attribute charts.

- Control limits are no longer shown in the Phase Limits Summary table with unequal sample sizes.
- In Control Chart Builder, Include Missing Categories is not available for continuous X variables or categorical Y variables; there is no compelling way to display the collected missing values on the relevant axes.

Degradation

- When predictors in a formula are represented by column names that are preceded by a colon, the Distribution Profiler now appears correctly.

Fit Model

- The Subject role located under the Repeated Structure tab now functions as expected, allowing more than one Subject to be added to the list.

Generalized Regression

- The Generalized Regression personality has additional support to handle models with no intercept. When the No Intercept option is selected, Maximum Likelihood and Forward Selection are the only estimation methods available in the Model Launch specification.
- The Adaptive forms of the Lasso and Elastic Net are now available when the maximum likelihood estimates (MLEs) are not available. For a normal response, the weights use parameter estimates obtained using a generalized inverse solution. For responses with other distributions, the weights use parameter estimates obtained using a ridge solution.

Mixed Models

- Estimation of the power variogram model has been improved. The algorithm now uses better starting values and weights.
- In the default situation when Center Polynomials is turned on, a note at the top of the Random Coefficients report reminds you that the random effects are centered.

PLS

- The Save Prediction Formula option has additional support for handling polynomials with at least one categorical variable.

Standard Least Squares

- In the REML Variance Components Estimate report, the coefficient of variation for the variance component appears if you right-click the report and select **Columns > CV**.
- For the EMS method, the names of model effects are displayed properly in the Source column of the Effect Summary report.

Stepwise

- In Stepwise, the validation RSquare is correctly calculated for models with crossed terms using the validation mean.
- In Stepwise models, an error no longer occurs when the response column contains both Informative Missing and Missing Value Codes column properties.

Graph Builder

- In graphs that have multiple histograms, the histograms now use different colors and match the legend.
- Group Y is now displayed in the correct location in PDF files.
- Graph Builder box plots with more than 20 variables are now spaced correctly.

Maps

- The background maps provided by NASA have been updated. If an old map is stored locally on your machine, it is possible that it will be displayed even after requesting a new map. Delete the locally stored map to display the updated map from the NASA server.

Model Comparison

- The calculation of area under the curve (AUC) in Model Comparison now handles missing values correctly.
- The Predictor field in the Model Comparison launch window now allows non-numeric columns.

Multivariate

- If you have specified a value other than 0.05 for the alpha level in the Preferences for the Multivariate platform, when you run a Multivariate analysis, you no longer see a window prompting you to specify the alpha level for the upper control limit.

Nonlinear

- The Nonlinear platform now has additional support for producing derivatives for multiple arguments.

Oneway

- To address computation time and memory issues that might occur with large data sets, Hodges-Lehmann results are not calculated for the following Nonparametric Multiple Comparison tests: Wilcoxon Each Pair, Steel-Dwass All Pairs, and Steel with Control. In these cases, consider using normality-based methods.

Partition

- K Nearest Neighbors in the Partition platform gives better predictions when continuous predictors have missing values.
- Excluded rows are correctly used as a validation set in Partition.
- Scripts that are saved from K Nearest Neighbors models include the K values.
- K Nearest Neighbors models do not support Freq and Weight roles. The roles are ignored in the analysis, and an error message is displayed.
- In K Nearest Neighbors models, you are no longer prompted to enter the maximum K after selecting Automatic Recalc, Local Data Filter, or Column Switcher from the Script menu.

Principal Components

- The Pareto line has been removed from the Wide Principal Components Analysis (PCA) Eigenvalues chart.
- The Wide PCA method saves formulas for transform columns correctly.

Profilers

- There are significant speed improvements when a prediction profiler is used with linear constraints.
- A new option has been added to the Assess Variable Importance menu. The Linearly Constrained Inputs option respects any linear constraints in the Prediction Profiler that are in the data table. The constraints can come from elsewhere (for example, mixture designs or constrained designs of experiments).
- Profiler traces are displayed correctly when a column formula used for the Y axis contains a variable that is not one of the X terms.

Tabulate

- In the interactive portion of the Tabulate platform, format settings and transformed data are now properly saved in scripts and run as expected.
- Now when the Freq role is used in the Tabulate platform, the correct quantiles are produced.
- In a Tabulate table, you can now select multiple cells. Use the Ctrl key to select non-contiguous cells and the Shift key to select side-by-side cells.

Uplift

- Uplift uses the Decision Tree method. Other methods no longer appear on the launch window.