

New features in JMP® 15

See the latest enhancements and new capabilities of our most recent release

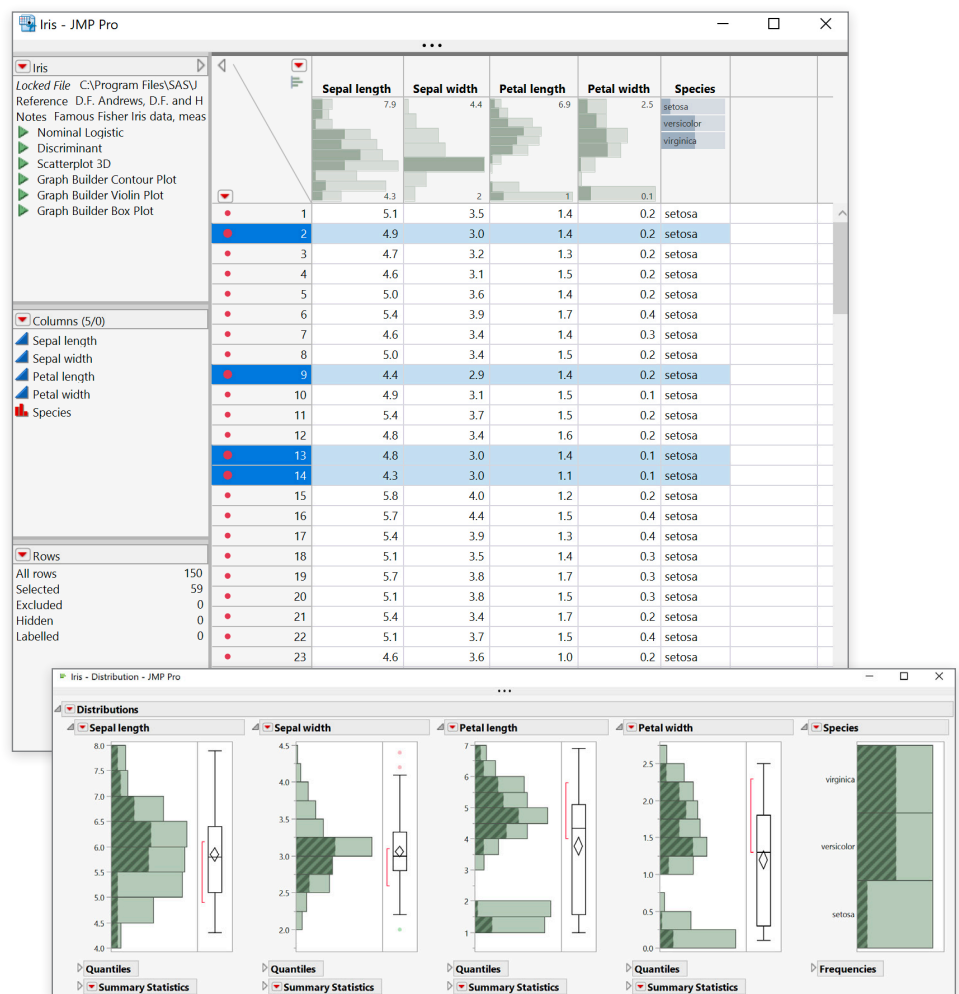


Explore and understand your data even more fully with JMP 15 – gaining deeper insight in fewer clicks with the newest release of the statistical discovery tool of choice for scientists, engineers and other data explorers.

Here is just a selection of the enhancements in JMP 15. For the complete list of new features, visit jmp.com/release-notes.

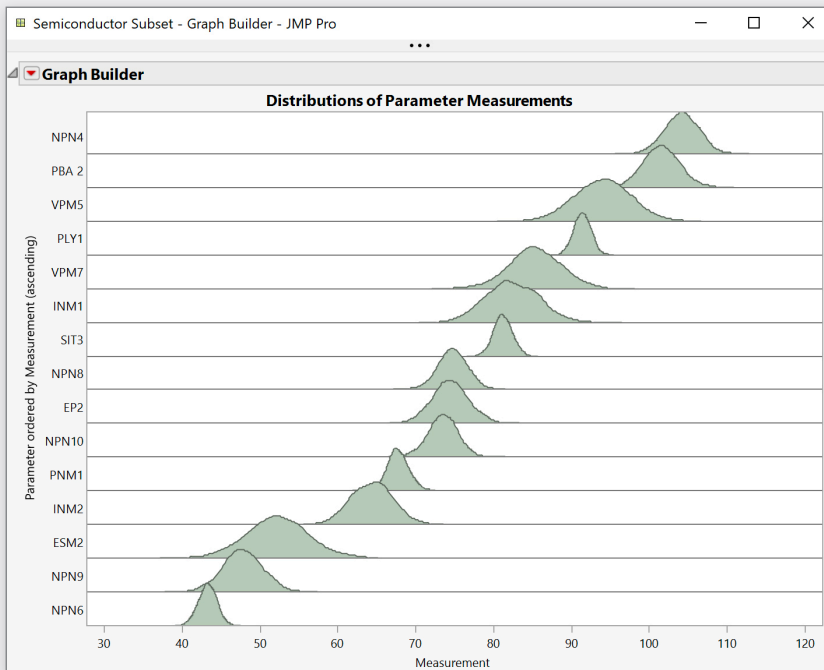
Note: The **PRO** icon indicates features exclusive to JMP Pro 15.

Data Import, Data Table, Cleanup, Data Visualization, General



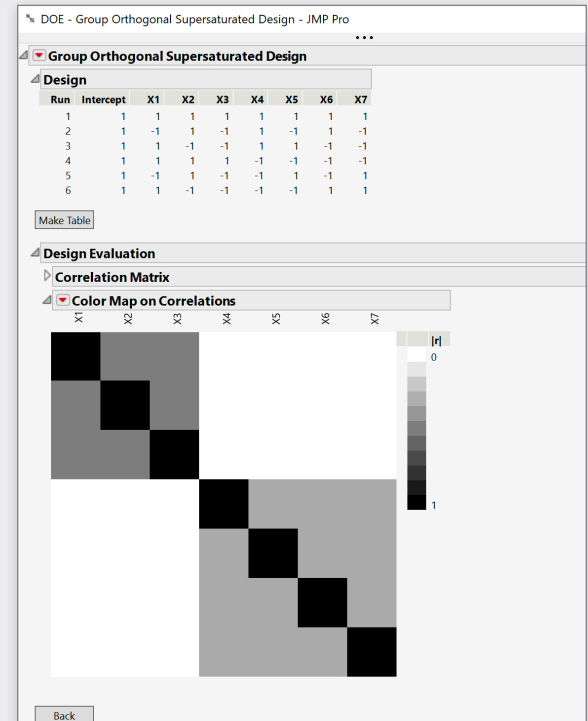
Header graphs in the data table show linked histograms for a quick view of the distribution of table variables.

- New column header graphs display histograms above each column.
- Import wizard allows import and processing of XML, JSON and PDF file formats.
- Recode improvements:
 - New column utility recodes column names.
 - Corresponding cells in the data table are selected when their entries are selected in the Recode dialog box.
 - New option to replace entire string without a regular expression.
 - Ability to apply mapping from another table.
- New Value Order column property allows flexible, customizable sort orders.

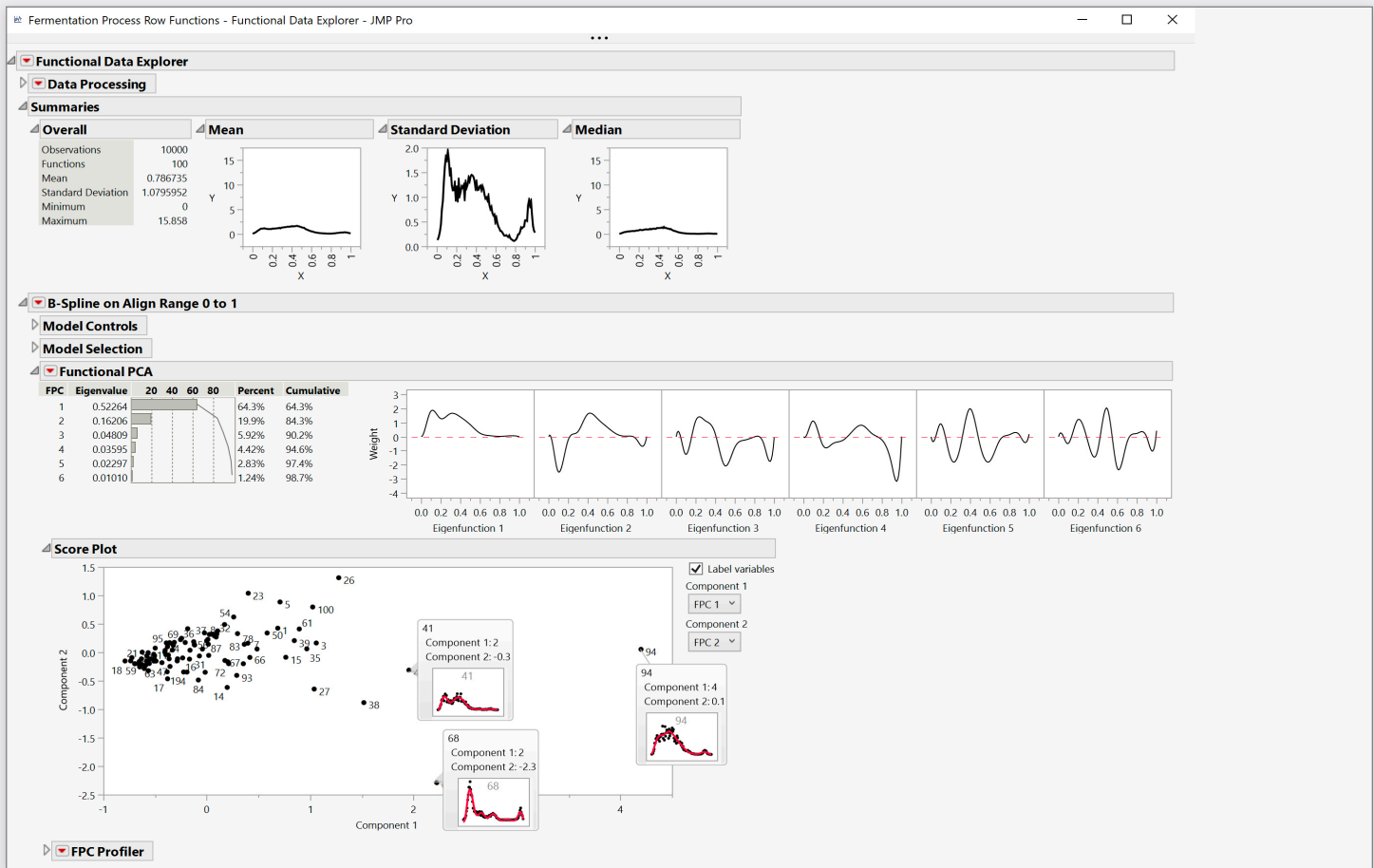


New ridgeline plots use histogram with a categorical variable for Y.

Group Orthogonal Supersaturated Design is a new platform to create and analyze supersaturated designs having groups of correlated effects.



- Virtual Join supports multiple links from a single column.
- Graph Builder enhancements:
 - o New customization options to enhance Heatmap and Box Plot graphs.
 - o Improved Contour element with additional options for lines between contours and alpha hull support.
 - o Bagplot (or 2D Box Plot) for continuous XY data added to the Contour element.
 - o Frequency option in column functions.
 - o New Interval > Band option allows band from low value to high value.
 - o Time Series Forecast available in Line of Fit graph.
 - o New Line of Fit regression line option for Robust Cauchy.
 - o Ability to save prediction formula(s) for Line of Fit and save formula for Bar, Points and Line.
 - o Upgraded Variability chart and Oneway Axis.
 - o Summary statistic property added for Color and Size drop zones in elements that summarize color or size, specifically Points, Line, Bar, Treemap, Heatmap, Box Plot and Contour.
 - o More control over the basis for percentages, allowing 100% stacked bars charts without data prep. Now distinguish percent by X, Y or X+Y.
 - o New Ridgeline Plots use histogram with a categorical variable for Y.
 - o Stacking and fill options added to Line element.
- Local data filters now include a histogram in the column filter control.
- New hover label options extend information available in graphs:
 - o Graphlets display a graph created by a JMP platform inside a JMP hover label. These contextual graphs add the ability to further drill down into the data without returning to the data table or launching a new platform.
 - o Textlets in hover labels expand options for the appearance of label text.
 - o Gridlets in hover labels offer options for formatting numeric values.
- Enhanced Capability Analysis report in Distribution platform (now Process Capability).
- Help menu now navigates to documentation on jmp.com for smaller software installs and more frequent Help updates.
- Support for Dark Mode in macOS.



Improvements to Functional Data Explorer let users bypass intermediate table creation, reshaping and joins for a more convenient and robust workflow.

Design of Experiments

- Group Orthogonal Supersaturated Design is a new platform for creating and analyzing supersaturated designs (more factors than runs), having groups of correlated effects. Should confounding persist after the initial analysis, the factors involved are identified and an appropriate augmentation scheme (requiring only a few runs) is advised.
- Instantaneous creation of a globally optimal design when runs are multiple of four and all factors are two-level continuous or categorical.
- Custom Designer provides modeling scripts for Generalized Regression and Fit Mixed. [PRO](#)

Statistics, Predictive Modeling and Data Mining

- Explore Patterns platform investigates data integrity by looking for abnormal features in data including long runs, duplicate long sequences and unusually formatted values.
- Generalized Regression enhancements provide one-click relaunch options and the flexibility of changing distributions without relaunching.
- Enhancements to the Explore Outliers and Explore Missing Values platforms.
- Multiple frame contour profilers can be viewed simultaneously.
- New Model Driven Multivariate Control Chart platform allows users to monitor large amounts of highly correlated processes. The platform can be used in conjunction with the PCA and PLS platforms to monitor multivariate process

variation over time, give advanced warnings of process shifts and suggest probable causes of process changes.

- Functional Data Explorer (FDE) has workflow improvements to bypass intermediate table creation, reshaping and joins. This allows functional response DOE, Custom Designer, FDE and Generalized Regression to all work together for a more convenient and robust workflow. [PRO](#)
- Improvements to Make Validation Column offer more control and an improved interface. [PRO](#)
- Structural Equation Modeling, a flexible new predictive modeling platform, allows you to model relationships among both observed and unobserved (latent) variables. [PRO](#)
- Support Vector Machines platform rounds out the JMP Pro modeling toolbox. [PRO](#)

The screenshot displays the JMP Live user interface. At the top, there's a navigation bar with 'Home', 'Featured', and 'Groups'. Below that, a search bar and filters for 'Find User...', 'All dates', 'Find Group...', and 'Grid' are visible. The main content area is a grid of report thumbnails, each with a title, author, and a small preview image. The reports include:

- Analyzing NIR Spectra of Gasoline** by Bill Worley (Views: 124, Tue Mar 26, 2019 5:02 pm)
- Analysis of Bioassay Data** by donMcCormack (Views: 70, Wed Mar 27, 2019 4:43 pm)
- Design of Experiments for Synthetic Biology** by Phil Key (Views: 602, Mon Apr 01, 2019 6:44 am)
- JMP Genomics Basic Genetics Workflow** by MJ Guan (Views: 39, Last Wednesday at 11:18 AM)
- Process Capability for Product A at Plant 1** by Wendy (Views: 10, Wed Apr 03, 2019 11:46 am)
- Text Exploration of Illnesses Reported in a...** by Bass Masri (Views: 5, Thu May 09, 2019 3:14 am)
- Wild Bird Rehabilitation** by Mike Anderson (Views: 577, Sat Mar 30, 2019 11:20 am)
- Yield Improvement Team Output** by jason_wiggins (Views: 305, Sun May 05, 2019 10:33 pm)

Publish and share discoveries from JMP 15 to JMP Live, a private site for collaboration and interactive decision making.

Automation and Scripting

- New Copy Columns menu item copies to the clipboard a script to create the column using JSL.
- Table script option, Copy Table Script (No Data), copies the table template without data.
- Scripts generated by operations in the Tables menu can now be saved to the source table.
- Generate JSL for Where clauses via point-and-click.
- Integration with SAS Cloud Analytic Services (CAS) server provides a simpler scripting mechanism, better authentication/authorization control, easier data set retrieval and the ability to run CAS actions from JMP to take advantage of high-performance, large cloud environments built on top of AWS, Azure or OpenStack.

Data Sharing

HTML5 reports include additional profiler support and connection to JMP Live.

JMP Live

Publish to JMP Live – the newest member of the JMP product family. JMP Live takes the robust statistics and visualizations in JMP and extends them to a secure online portal – with data filtering and column switchers for interactive collaboration with colleagues. Learn more at jmp.com/live.

Get the details

See a comprehensive list of new features for JMP 15 and JMP Pro 15. jmp.com/release-notes

Join our user communities

Ask a question and get answers from JMP experts around the world. Share and download add-ins, scripts and sample data. Explore special areas for Discovery Summit resources, academics, JMP administrators and users groups. community.jmp.com

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To contact your local JMP office, please visit: jmp.com/offices

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