



What is different about JMP® 7?

JMP 7 is the next generation of dynamic, interactive, visual software from SAS, the leader in business intelligence software and services that give organizations THE POWER TO KNOW®. JMP 7 offers new motion-enabled graphics, visual data queries, project collaboration and enhanced program ability that includes full interaction with the SAS® System.

Why is JMP® 7 important?

Because JMP is more graphical than ever, you can completely immerse yourself in and navigate through your data to uncover patterns. You have new levels of control over presentation-quality graphics. It's easy to access any data source available on your desktop or any SAS server. JMP 7 can now handle a nearly unlimited number of columns, and 64-bit versions for Windows and Linux mean there is virtually no limit to the amount of data you can use. JMP 7 offers interfaces in English, Japanese, Chinese, French, German and Korean.

Who should use JMP® 7?

People looking for breakthroughs and improvements in their R&D, production, marketing, finance and overall business operations will find JMP 7 invaluable. Non-statisticians and business analysts can use the easy drag, drop, point and click interface to get answers they would miss using stagnant spreadsheets. Statisticians will perform interactive analyses, complex analytics and reporting confidently on large volumes of data for the teams or products they support. SAS programmers will love the tight integration with SAS.

New in JMP® 7

Statistical discovery software that's faster, more dynamic and totally interactive. So you can unlock the real meaning in your data.

Delve deep into your data to understand your business inside and out. Invent, predict and improve with the utmost confidence. See for yourself all you can do with JMP 7, the latest version of statistical discovery software from SAS.

Don't just stumble into decisions. With JMP, you can systematically explore vast amounts of data stored on your desktop, in databases or on a SAS®9 server. Other vendors claim to integrate with SAS, but only JMP—because it is a SAS product—truly delivers two-way integration.

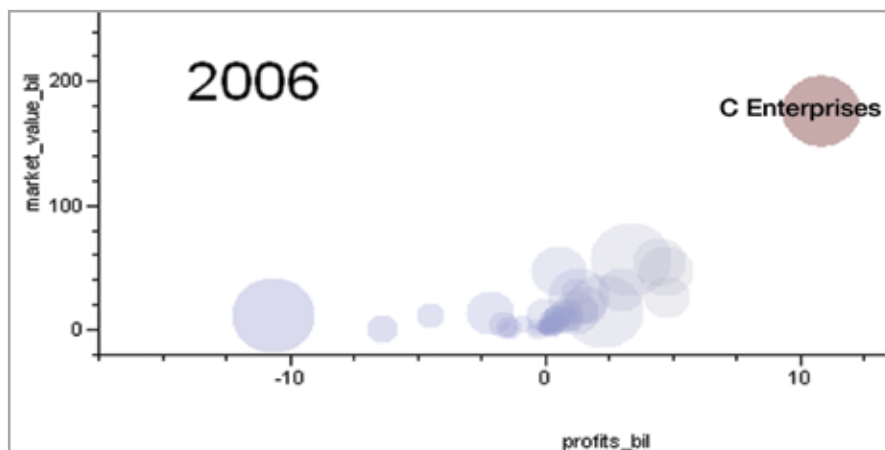
Graphics that take you beyond 3-D

Most graphs limit the number of variables to three dimensions. Not JMP. New graphs routinely allow you to visualize up to seven dimensions at a time.

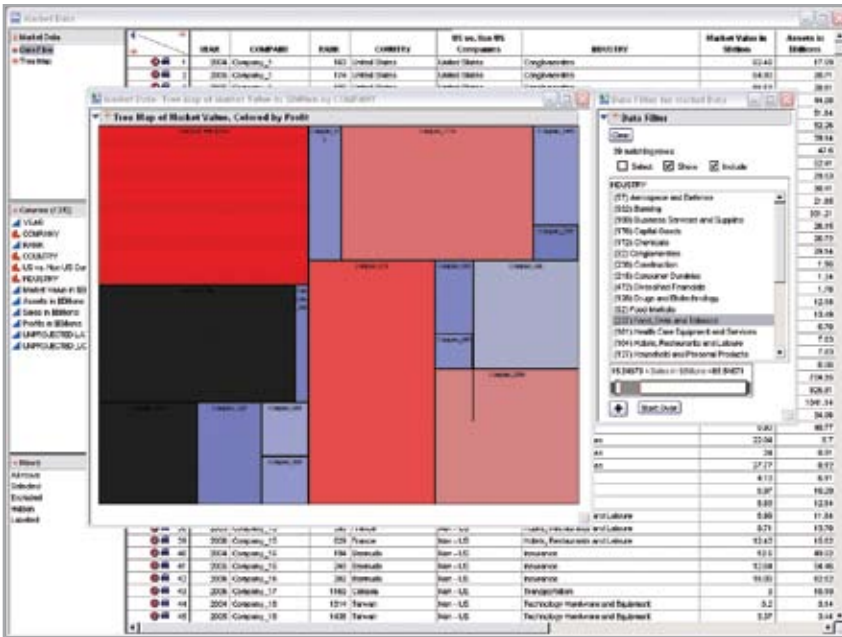
For example, the bubble plot below represents the market value and profits of several companies, colored by assets and sized by annual sales. New motion-enabled graphics show the variation in the value of any specified variable over time, business segment and company name.

Interactive data filtering updates all graphs at once

Previously, JMP let you capture and replay your analyses. You could even save them with your data or edit them for reuse with other data. JMP 7 goes one giant step further. Now you can select, exclude, hide or otherwise filter data, and then all graphs and reports will update automatically.



**STATISTICAL
DISCOVERY.™
FROM SAS.**



Share information and limit rework

After JMP helps you make sense of your data, it also makes it easy for you to share with your co-workers or managers all the project files, including data tables, journals and scripts.

Just drag files and windows to the project window, and then save the project in

an embedded form. When a colleague opens the project, JMP restores everything so you're ready for the next step, wherever that takes you.

More data, faster analytics, no limits

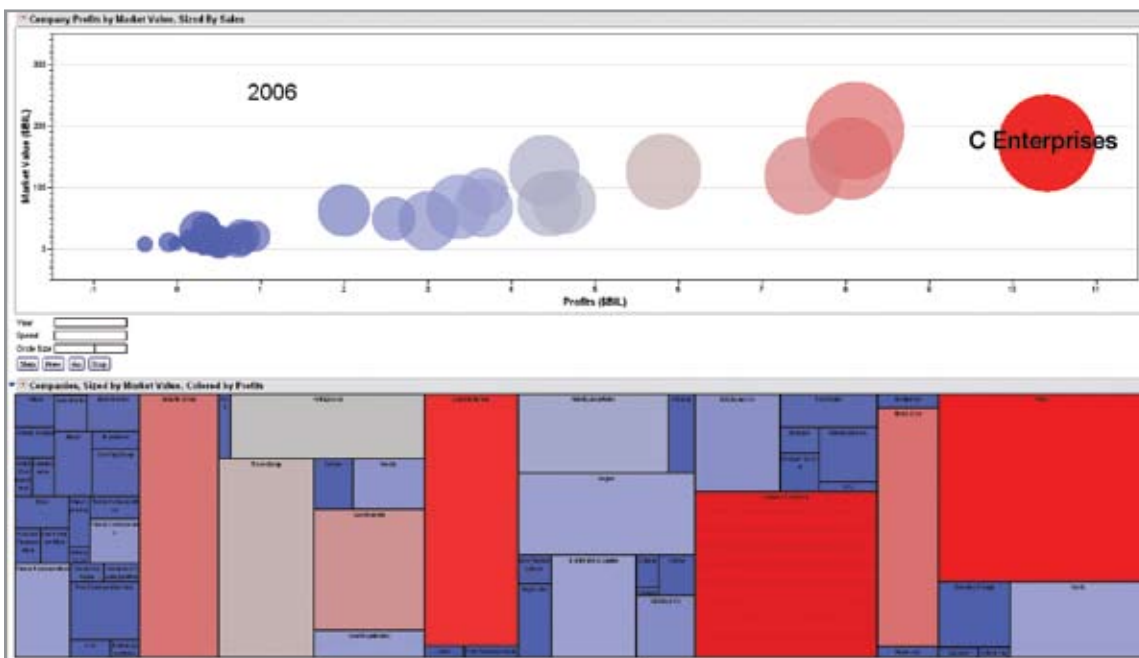
JMP keeps pace with your data and computing demands. The software pro-

cesses up to 2 billion columns and an unlimited number of rows. That means JMP can handle any real-world problem. With JMP 7 on 64-bit Windows and Linux systems, there are virtually no restrictions on data size. And JMP 7 runs on Windows Vista™.

Query, visualize and interact with your SAS® data like never before

SAS provides a rich environment for batch analytics and stored processes—plus powerful integration and manipulation tools for large amounts of data.

JMP 7 adds an important dimension to the SAS System: dynamic business visualization. JMP is a SAS client that lets you grab your data to make it come alive. Everything in JMP is active. There's no waiting for results when you submit a change, request a report or make a query to the server. With JMP, you just point, click, drag and drop to explore items of interest, and then you see the results instantly. SAS programmers can write SAS code using JMP, submit it to the server and view results as interactive JMP graphs and reports.



Key Features

Graphs

- Visually query data and analyses using an interactive data filter.
- New 3-D scatterplot displays a high-resolution three-dimensional view of data.
 - Displays bi-plot representation of the points and variables when you request principal components.
 - Displays factor-analysis-style rotations of the principal components to form orthogonal combinations that correspond to variable-direction clusters in the space.
- Motion-enabled bubble plot creates interactive animated scatterplots.
 - Displays up to seven dimensions at once.
 - Bubbles can be sized according to a third column, colored by a fourth column, aggregated across groups defined by one or more other columns and dynamically indexed by a time column.
- Scatterplot matrix enables visualizing multivariate relationships with both continuous and categorical values.
 - Plots can be customized and decorated with other analytical quantities, like density ellipses.
 - Matrices can be square, rectangular or triangular, showing only unique pairs of variables.
- Customize graph components to change colors and styles, and to add graphics.

SAS® integration

Direct access to SAS

- Connect to and query any SAS data, including SAS libraries, metadata-defined libraries and relational databases.
- Browse and run SAS Stored Processes directly from JMP.
- Write and submit SAS programs in a SAS-syntax-aware program editor.
- Customize content to output HTML, JMP Scripting Language (JSL) or SAS data sets.
- Create interactive JSL output that can be explored, subset or modified without having to rerun the stored process.

Modeling

- Time series platform supports a large class of transfer function models that allow multiple input series.
- New categorical platform provides response analysis for many types of categorical variables, including separate, aligned and multiple responses; repeated measures; rater agreement; multiple response, multiple response by ID and multiple delimited; indicator group; and response frequencies.
- New fast Ward clustering method handles large numbers of rows.
- Gaussian process modeling provides maximum likelihood based curve fitting using Gaussian stochastic processes models with the product exponential correlation function, which is intended for building prediction model emulators from computer experiments and finite element codes.

Custom Designer

- Creates optimal randomized block designs, optimal split-split-plot and strip-plot designs, optimal Bayesian split-plot designs and Fraction of the Design Space (FDS) plots.
- Saves designed experiments as a script for subsequent reproduction.
- Rapidly computes very large ordinary least squares designs.

Prediction Profiler

- Real-time Monte Carlo simulation for tolerance design lets you investigate how input variables affect output defect rates.
- Defect profiler examines each input variable's effect on output defect rates.

Capability analysis

- Capability platform analyzes thousands of columns.
- Goal plot shows deviation from target for all columns in a single plot.
- Capability box plots show one box plot for each variable, centered on the target and scaled by the range of the spec limits.

Control charts

- New multivariate control chart addresses process monitoring problems where several related variables are of interest.
- Save summaries option creates a data table containing summary data.

Variability and gauge charts

- Mean diamonds option adds mean diamonds to the response plot.
- New XBar control limits option adds XBar control limits to the response plot.
- New variability summary report options adds table to response plot that contains the columns mean, standard deviation, standard error mean, lower 95%, upper 95% minimum, maximum and observations for the response and for each group.
- New mean of standard deviation option adds a line that shows the mean of the standard deviation on the standard deviation plot.
- New S control limits option adds S control limits to the standard deviation plot.
- New gauge RR plots option creates two new plots that you can add to your gauge studies report: mean plots and standard deviation plots.
- Custom default K value can be set as a platform preference.
- New overall and categorical Kappa statistics are available for attribute gauge charts.

JMP® 7 Technical Requirements

Windows

OS: Windows 2000 w/SP4, Windows XP or Windows Vista
CPU: Pentium II class processor or greater
RAM: 128 MB RAM minimum (512 MB recommended)
Drive Space: 130 MB free disk space
Browser: Microsoft Internet Explorer 5.01 or higher
Recommended Display Settings: True (24 bit+) color with resolution of 1024x768 or greater
Database: Unicode compliant ODBC 3.0 or higher (required only if connecting to a database)

64-bit Windows

OS: Windows XP 64 Bit Edition, Windows Vista 64 Bit Edition, Windows Server 2003 SP2 64 Bit Edition
CPU: x64 processor (Intel Xeon, AMD Opteron or AMD Athlon class processor)
RAM: 256 MB RAM (1 GB recommended)
Drive Space: 150 MB free disk space
Browser: Microsoft Internet Explorer 6.0 or higher
Recommended Display Configuration: True (24bit+) color with resolution 1024x768 or greater; video card with hardware accelerated 2D and 3D drivers recommended
Database: Unicode compliant ODBC 3.0 or higher (required only if connecting to a database)

Macintosh

CPU and OS: Any Macintosh computer running Mac OS X 10.4.8 or higher
RAM: 128 MB minimum
Drive Space: 110 MB minimum free disk space
Database: Unicode compliant ODBC 3.0 or higher (required only if connecting to database)

Linux

OS: Red Hat 9.0, Fedora Core 1, 2, 3
Red Hat 9.0, Fedora Core 4, 5, 6 with libstdc++ compatibility libraries installed
SuSE 9.0, 9.1, 9.2, 9.3, 10.0, 10.1, 10.2
Red Hat Advanced Server 3.0 or higher
Kernel: Linux kernel 2.4.20 or higher
Desktop: Compatible with the KDE and Gnome desktop environments
CPU: Pentium II or equivalent processor
RAM: 128 MB minimum (256+ MB recommended)
Drive Space: 110 MB minimum free disk space
Database: Unicode compliant ODBC 3.0 or higher (required only if connecting to database)

64-bit Linux

OS: Fedora Core 4, 5, 6 with libstdc++ compatibility libraries installed
SuSE 9.2, 9.3, 10.0, 10.1, 10.2
Red Hat Advanced Server 3.0 or higher
Kernel: Linux kernel 2.6.x
Desktop: Compatible with the KDE and Gnome desktop environments
CPU: 64-bit: AMD x86_64 (Athlon64, Opteron, Turion 64 or higher) or Intel EM64T (Pentium 4 6xx, Core 2 or higher)
RAM: 128 MB minimum (256+ MB recommended)
Drive Space: 110 MB minimum free disk space
Database: Unicode compliant ODBC 3.0 or higher (required only if connecting to database)

