

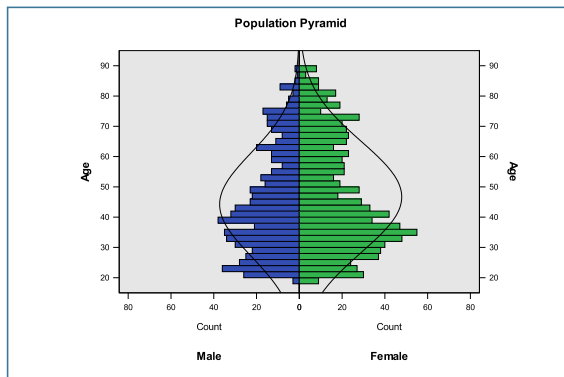
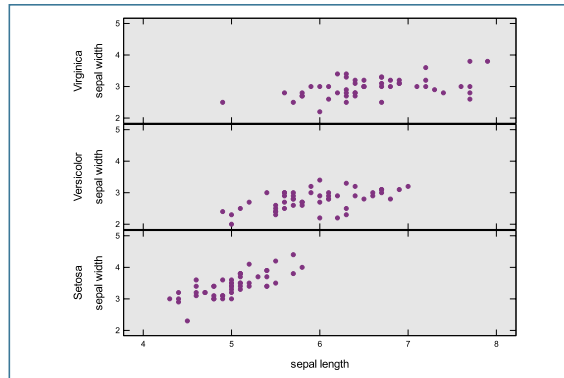
> What's New in SPSS 13.0 for Windows

SPSS Base 13.0 for Windows enhancements

Graphics and output

- SPSS 13.0 provides you with better reporting capabilities through improvements to the presentation graphics system (added in SPSS 12.0). These enhanced reporting capabilities give you the ability to:
 - Include three new chart types in your work
 - Population pyramids, also called mirror plots or dual charts, for creating graphs that clearly show the distribution between two groups
 - 3-D bar charts for creating charts that highlight differences across combinations of categories
 - Dot charts, also called dot density charts, for displaying individual observations on a continuous scale using a dot or other symbol. This enables you to represent the frequency distribution of your data while displaying all individual points or observations.
 - Better explain your data when you use new chart display features/options in your graphs
 - Create paneled charts for displaying rows and variables from more than one chart in a table-like arrangement of sub-charts, showing differences among groups, and visualizing effects of conditioning variables. Paneled charts are available for most SPSS graphs.

Features subject to change based on final product release.



SPSS 13.0 provides you with new ways to present your data. For example, show differences among groups and visualize effects of conditioning variables using the new paneled chart feature (top). Create graphs that clearly show the distribution between two groups using population pyramids (bottom), one of three new chart types in SPSS 13.0.

- Include error bars on categorical charts for displaying information about the variability of measurement. You can use error bars to represent confidence level, standard deviation, or standard error spread measures. Add error bars to nearly any categorical chart, including bar charts, area plots, and line plots.
- Use the sort categories display option to automatically reorder categories in differing order (descending or ascending) or by different sort methods (value, including dates, label, or summary statistic)
- Drag data value labels to any position on your chart, add connecting lines, and match font color to subgroup
- Add diagonal reference lines to compare your data to a diagonal line. Also, drag horizontal and vertical reference lines to any position on the axis
- More easily work with templates and the Chart Editor
 - Browse the template settings in the new tree-view layout, then explicitly select the settings you want to save in your chart templates
 - Quickly modify your charts using new features in the Chart Editor interface. You can automatically add titles, footnotes, and gridlines; drag annotations to any position on the chart; and more intuitively select objects.
- Improve the presentation quality of your results. Pivot table output is now available for a number of procedures, including AREG, CURVEFIT, KAPLAN-MEIER, MULT RESPONSE, NLR, and CNLR.

Output export enhancements

- With just a few mouseclicks, you can export tables and charts directly from SPSS 13.0 to Microsoft® PowerPoint®

“Overall, I think the new feature set is a major improvement in an already outstanding product.”

– James W. Golden, PhD
Associate Professor
Department of Criminal Justice
University of Arkansas at Little Rock

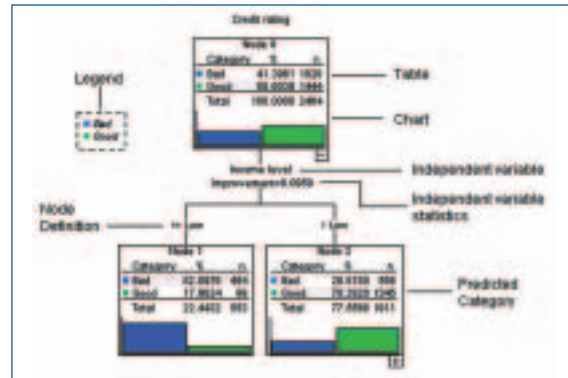
Data and output management

- More powerful data management in SPSS 13.0 allows you to:
 - Ensure data containing text strings of more than 256 bytes is not truncated or lost when working with open-ended question responses, data from other software that allows long data strings (up to 32,767 bytes), and other types of long text strings
 - Easily work with dates and times in SPSS using the Date and Time Wizard. You can perform calculations with the dates and times, bring date/time data from a variety of sources to SPSS, create a date/time variable from a string containing a date variable, and parse individual date/time units.
 - More quickly and easily understand wide and long datasets using splitter controls in the Data Editor
 - Automatically convert string variables to numeric variables using the improved autorecode command
 - Recode multiple variables simultaneously
 - Append new products to an existing scheme using recode templates
 - Save aggregated values directly to your active file—in just one mouseclick—using the improved aggregate command
 - Create custom programs in SPSS 13.0, even if you have little or no experience using syntax in SPSS. SPSS 13.0 provides Output Management System (OMS) functionality through the interface.
 - Conveniently share data between SPSS 13.0 and SAS® 9 because SPSS 13.0 can read/write SAS 9 files
 - Run the majority of your syntax jobs uninterrupted, even if you encounter an error in your job. The new INSERT command enables you to specify interactive syntax rules that tell SPSS 13.0 to bypass errors.
 - Keep a log of your work while maintaining a high level of performance. SPSS 13.0 provides improved system performance by optimizing the way SPSS writes syntax to journal files.
 - Use the HOST command to enable applications to “escape” to the operating system and execute other programs in sync with the SPSS session

- Obtain flexibility for your version-dependent applications because automation scripts in SPSS 13.0 can recognize configuration parameters, including UI language, options installed, and the SPSS version being used
- Prevent syntax jobs from breaking by creating a common, or main project, directory that enables you to include transformations for multiple projects using the new Change Dictionary command

New SPSS add-on module: SPSS Classification Trees™ 13.0

- This new add-on module creates classification and decision trees directly within SPSS to identify groups, discover relationships between groups, and predict future events. With SPSS Classification Trees, you can:
 - Use classification and decision trees for segmentation, stratification, prediction, data reduction and variable screening, interaction identification, category merging, and discretizing continuous variables
 - Visually explain categorical results. Highly visual trees enable you to present results in an intuitive manner—so you can more clearly explain categorical results to non-technical audiences.
 - Use results to enhance existing and new data. You can identify a particular subset of the data via the tree and run further analysis, segment and group cases directly within the data, and create predictive values and probabilities within your dataset. Write information from the tree model directly to your data or create XML models for use in SPSS Server 13.0 to score other data files. You can also generate selection or classification/prediction rules in the form of SPSS syntax, SQL statements, or simple text (through syntax).
 - Perform analysis using one of four established tree-growing algorithms: CHAID, exhaustive CHAID, classification & regression trees (CRT), or QUEST. You can try different types of tree-growing algorithms and find the one that best fits your data.



Trees, tables, and graphs in SPSS Classification Trees are easy to interpret. Use the highly visual trees to discover relationships that might otherwise remain hidden in your data.

SPSS Complex Samples™ 13.0 enhancements

- Use predictive analytics for survey research. SPSS Complex Samples 13.0 extends this module, which was new in SPSS 12.0, enabling you to:
 - More accurately analyze and predict numerical outcomes from your complex sample designs. Use the new complex samples general linear model (CSGLM) to build linear regression, analysis of variance (ANOVA), and analysis of covariance (ANCOVA) models to predict numerical outcomes.
 - More accurately analyze and predict categorical outcomes from your complex sample designs. Use the new complex samples logistic regression (CSLOGISTIC) statistic for binary and multinomial outcomes.

SPSS Tables™ 13.0 enhancements

- Better control how you display your data using expanded category options in SPSS Tables by:
 - Sorting categories by any summary statistic in your table
 - Hiding the categories that comprise subtotals—you can remove a category from the table without removing it from the subtotal calculation

SPSS Categories™ 13.0 enhancements

- A new procedure in SPSS Categories greatly enhances this add-on module's functionality for multiple correspondence. This procedure enables you to:
 - Reveal the underlying relationships between more than two nominal variables when similar categories are grouped close to one another in a chart. Market researchers typically refer to these types of analyses and charts as “perceptual maps.”
 - Use the new multiple correspondence analysis functionality for object weighting, data binning, supplementary object inclusion, and correlation matrix
 - Use the expanded multiple correspondence analysis functionality for missing data, diagnostics, plot, output, and export

SPSS Regression Models™ 13.0 enhancements

- New options available for multinomial logistic regression (MLR) in the SPSS Regression Models add-on module enable you to:
 - More quickly reach results when you have a large number of predictors by using Score and Wald methods for stepwise selection in MLR
 - Assess your model fit using Aikake information criterion (AIC) and Bayesian information criterion (BIC; also called Schwarz Bayesian Criterion, or SBC)

SPSS Server 13.0 enhancements

- SPSS Server continues to help your organization increase its productivity by giving you the ability to:
 - Sort and aggregate data within the database prior to retrieval
 - Increase performance for select users when you assign temporary disk location and user priority through new administrative tools
 - Achieve high-performance sorting using SyncSort® (must be purchased separately; contact your SPSS representative to learn more) with dynamic optimization, parallel processing (with multiple processors), and patented performance algorithms
 - Use XML models created through SPSS to score individual or new cases and data



“The new version of SPSS for Windows is a major upgrade. SPSS 13.0 includes an array of features that people will use often in their daily work.”

– *Bob Muenchen*
Manager, Statistical Consulting Center
The University of Tennessee Office of
Information Technology

System requirements

SPSS Base 13.0:

- Operating system: Microsoft® Windows® XP, 2000, and Me are the preferred platforms. Windows 98 is also supported.
- Hardware: Intel® Pentium®-compatible processor
- Memory: 128MB RAM minimum
- Minimum-free drive space: 220MB
- SVGA monitor

SPSS 13.0 add-on modules:

- All SPSS 13.0 add-on modules require SPSS Base 13.0
- Memory: See individual specification sheets or www.spss.com for information on minimum required RAM

SPSS Server:

- System requirements vary according to platform. Contact your SPSS account representative for requirements on your platform.

Version comparison chart: New features added to SPSS by version number and by area

New feature	Version number	13.0	12.0	11.5	11.0	10.0	9.0	8.0	7.x
Client/server									
64-bit version of SPSS Server (coming soon)		X							
Conversion-free/copy-free data access in SQL DBMS		X	X	X	X	X			
Multithreading in selected data management and data access procedures to take advantage of multiple processors		X	X						
Support for Open SSL		X	X						
In-database data preparation (sort and aggregate) to improve performance		X							
Create and save PMML models for scoring data at a later time		X							
Data stays on server, which is where procedures run		X	X	X	X	X			
Download data only if you want to		X	X	X	X	X			
SPSS client can be used with all licensed SPSS Servers		X	X	X	X	X			
Data access and data management									
Customizable toolbar		X	X	X	X	X	X	X	X
Define variable properties tool to prepare your data for analysis		X	X	X					
Database Wizard		X	X	X	X	X	X	X	X
Date and Time Wizard		X							
Direct Microsoft Excel interface		X	X	X	X	X			
Identify Duplicate Cases tool		X	X						
Export data to recent versions of Excel and SAS		X	X	X					
Large file capability		X	X	X	X	X			
Long variable names (up to 64 bytes)		X	X						
Very long text strings (up to 32,767 bytes)		X							
Flexible Data Editor		X	X	X	X				
Read recent SAS files		X	X	X	X	X			
Restructure Data Wizard		X	X	X	X				
Text Wizard		X	X	X	X	X	X		
Visual Bander to easily create bands (for example, break income into income "bands" of \$10,000)		X	X						
Analysis									
Ability to run multiple SPSS sessions simultaneously and switch sessions		X	X	X	X	X			
CATPCA and PROXSCAL (in SPSS Categories add-on module)		X	X	X	X	X			
Multiple correspondence analysis (in SPSS Categories add-on module)		X							
Cluster analysis (in SPSS Base)		X	X	X	X	X	X	X	X
TwoStep cluster analysis (in SPSS Base)		X	X	X					
Descriptive ratio statistics		X	X	X	X				
Discriminant analysis (in SPSS Base)		X	X	X	X	X	X	X	X
Factor analysis (in SPSS Base)		X	X	X	X	X	X	X	X
General linear models (GLM) (in SPSS Advanced Models™ add-on module)		X	X	X	X	X	X	X	X
Linear mixed models (also known as hierarchical linear models) (in SPSS Advanced Models add-on module)		X	X	X	X				
Multinomial logistic regression (in SPSS Regression Models add-on module)		X	X	X	X	X	X		
Stepwise multinomial logistic regression (in SPSS Regression Models add-on module)		X	X						
PoLytomous universal models (PLUM) to model ordinal outcomes (in SPSS Advanced Models add-on module)		X	X	X	X	X			
Reliability and ALSCAL multidimensional scaling and matrix operations (in SPSS Base)		X	X	X	X	X	X		

Version comparison chart: New features added to SPSS by version number and by area

New feature	Version number	13.0	12.0	11.5	11.0	10.0	9.0	8.0	7.x
Analysis									
Receiver-operating characteristic (ROC) analysis (in SPSS Base)		X	X	X	X	X	X		
SPSS Complex Samples add-on module		X	X						
Complex samples general linear model (in SPSS Complex Samples add-on module)		X							
Complex samples logistic regression (in SPSS Complex Samples add-on module)		X							
Varcomp (in SPSS Advanced Models add-on module)		X	X	X	X	X	X	X	X
SPSS Classification Trees add-on module		X							
Graphs									
IGRAPH (interactive graphs)		X	X	X	X	X	X	X	
SPSS Maps™ add-on module for creating high-quality maps and performing demographic analysis		X	X	X	X	X			
Presentation graphics system		X	X						
Population pyramids (also called mirror charts or dual charts), 3-D bar charts, and dot charts (also called dot density charts)		X							
Additional chart display features/options, including paneled charts and error bars on categorical charts		X							
Output									
XML model export for model deployment with SmartScore®		X	X	X	X	X			
Enhanced SPSS Tables module with table preview builder and inferential statistics		X	X	X					
Draft Viewer/text output and control		X	X	X	X	X	X	X	
Export output to Microsoft Excel		X	X	X					
Export output to Microsoft Word		X	X	X					
Export output to Microsoft PowerPoint		X							
HTML output		X	X	X	X	X	X	X	X
Layered reports/OLAP cubes		X	X	X	X	X	X	X	
Output Navigator/Viewer		X	X	X	X	X	X	X	X
Output scripting/programming in Basic		X	X	X	X	X	X	X	X
Pivot tables/report cubes		X	X	X	X	X	X	X	X
Output management system (turn pivot table output, such as SPSS data files, XML, and HTML, into data/input)		X	X						
Interactive interface for the output management system		X							
Switch output language		X	X	X					
TableLooks™		X	X	X	X	X	X	X	X
Table to graph		X	X	X	X	X	X		
Help									
Interactive case studies		X	X	X	X				
“SPSS Manuals on CD,” featuring manuals in PDF format for SPSS Base and all add-on modules		X	X						
Results Coach™		X	X	X	X	X	X	X	
Statistical Coach™		X	X	X	X	X	X	X	X
Tutorial		X	X	X	X	X	X	X	X
Chart tutorial		X							
“What’s This?” (context-sensitive help)		X	X	X	X	X	X	X	X

To learn more, please call Technologies4Targeting Ltd +44 (0)1733 890790 or visit www.tech4t.co.uk/spss

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