

# Get the analytical power you need for better decision making

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Base features  
1 2 3

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Add-on: Custom tables and advanced statistics

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Add-on: Complex sampling and testing

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Add-on: Forecasting and decision trees

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IBM SPSS Statistics Subscription delivers the power of SPSS Statistics with a flexible subscription payment option, including an easier purchasing, management and licensing experience.

The benefits of a subscription plan are numerous. For starters, you get flexible payment plans – buy monthly or annual. Software updates are made available several times a year and will be downloaded directly to your desktop, when you want them. Plus, it's easy to set up a subscription account for your company and enable as many users as you need for your team. Also, your subscription application can be used on multiple devices.

IBM SPSS Statistics Subscription includes a Base plan plus three add-on options for Windows or Mac.

## *SPSS Subscription Base*

Base Edition provides a wide variety of analytics capabilities, including descriptive statistics, linear regression, and presentation quality graphing and reporting. You can access multiple data formats without any size constraints. Advanced data preparation capabilities enable you to eliminate manual checks. You can leverage bivariate statistics procedures, factor and cluster analysis, as well as bootstrapping. Additionally, you can extend your capabilities with R or Python.

## *Custom Tables and Advanced Statistics Add-on*

Custom Tables and Advanced Statistics Add-on provides easy-to-use drag-and-drop interactive tables exportable to Microsoft or PDF formats. You can access a variety of additional techniques, such as: non-linear, logistic, 2-stage least squares regression, generalized linear modeling and survival analysis.

## *Complex Sampling and Testing Add-on*

Complex Sampling and Testing Add-on provides functionality for small sample sizes, missing data, and complex sampling. You can access regression with optimal scaling including lasso and elastic net. Additional features include categorical principal components analysis, multidimensional scaling and unfolding, and multiple correspondence analysis.

## *Forecasting and Decision Trees Add-on*

Forecasting and Decision Trees Add-on provides ARIMA and exponential smoothing forecasting capabilities. Classification and decision trees based on four established tree-growing algorithms are also available. You can also create neural network predictive models as well as RFM analysis to test marketing campaigns.



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	Subscription Plan			
Modules	Base	Custom tables and advanced statistics	Complex sampling and testing	Forecasting and decision trees
Statistics Base	●			
Data Preparation	●			
Bootstrapping	●			
Advanced Statistics		●		
Regression		●		
Custom Tables		●		
Missing Values			●	
Categories			●	
Forecasting				●
Decision Trees				●
Neural Networks				●
Direct Marketing				●
Complex Samples			●	
Conjoint			●	
Exact Tests			●	



Want to know about the SPSS Statistics Traditional on-premises deployment option? [Read this datasheet](#)

# IBM® SPSS® Statistics Subscription: Base, add-ons and features

## Base features

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## Base package

The Base subscription includes the following features:

### *Data access and management*

- Compare two data files for compatibility
- Data prep features: Define Variable Properties tool; Copy Data Properties tool, Visual Bander, Identify Duplicate Cases; Date/Time wizard
- Data Restructure wizard
  - Single record to multiple records
  - Multiple records to single record
- Direct Excel data access
- Easier importing from Excel and CSV
- Export data to SAS and current versions of Excel
- Export/insert to Database wizard
- Import data from IBM Cognos® Business Intelligence
- Import/export to/from Dimensions
- Import Stata files (until V14)
- Long variable names
- Longer value labels
- Multiple datasets can be run in one SPSS session
- ODBC Capture—DataDirect drivers
- OLE DB data access
- Password protection
- SAS 7/8/9 data files including compressed files)
- Text wizard
- Unicode support
- Very long text strings

### *Data preparation*

- Automated data preparation—enhanced model viewer for automated data preparation
- Validate data—streamline the process of validating data before analyzing it
- Anomaly detection—identify unusual cases in a multivariate setting
- Optimal binning

### *Graphs*

- Auto and cross correlation graphs
- Basic graphs
- Mapping (geospatial analysis)
- Chart gallery
- Chart options
- ChartBuilder UI for commonly used charts
- Charts for multiple response variables
- Graphics Production Language for custom charts
- Interactive graphs—scriptable
- Overlay and dual Y charts
- Panelled charts
- ROC analysis
- Time series charts
- Relationship map



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## *Output*

- Case summaries
- Style output
- Conditional formatting
- Codebook
- Export charts as Microsoft Graphic Object
- Export model as XML to SmartScore
- Export to PDF
- Export to Word/Excel/PowerPoint
- HTML output

## *Help features*

- Application examples
- Index
- Tutorial
- Extensions
- Search

## *Data editor enhancements*

- Custom attributes for user-defined metadata
- Spell checker
- Splitter controls
- Variable sets for wide data
- Variable icons
- Optimal binning
- Improved performance for large pivot tables
- OLAP cubes/pivot tables
- Output management system
- Output scripting
- Reports summaries in rows and columns
- Search and replace
- Smart devices (tablets and phones)
- Table to graph conversion
- Web reports

## *Extended programmability*

- Custom UI builder enhancements (work seamlessly with Python and R and can be used in IBM SPSS Modeler)
- New Extensions hub
- Custom dialog builder for Extensions
- Flow control or syntax jobs
- Partial least squares regression
- Python, .NET and Java for front-end scripting
- SPSS equivalent of the SAS DATA STEP
- Support for R algorithms and graphics
- User-defined procedures



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## Statistics

- ANOVA (in syntax only)
- Automatic linear models
- Cluster
- Correlate—bivariate, partial, distances
- Crosstabs
- Define variable sets
- Descriptive ratio statistics (PVA)
- Descriptives
- Discriminant analysis
- Enhanced model viewer on two-step cluster and new nonparametrics
- Explore
- Factor analysis
- Frequencies
- Geo-spatial analytics (STP and GSAR) (NEW!)
- Improved performance for frequencies, crosstabs, descriptives
- Power Analysis
- (Statistics Base Server)
- Matrix operations
- Means
- Monte Carlo simulation
- Nearest neighbor analysis
- New nonparametric tests
- One way ANOVA
- Ordinal regression (PLUM)
- Ordinary least squares regression
- Power Analysis
- PP plots
- QQ plots
- Ratio
- Reliability and ALSCAL multidimensional scaling
- ROC curve
- Compare ROC curves
- Rule checking on secondary SPC charts
- Summarize data
- T tests: paired samples, independent samples, one-samples
- Two-step cluster: categorical and continuous data/ large data sets
- Weighted Cohen's kappa
- Meta-analysis

## Multithreaded algorithms

- SORT

## Bootstrapping

- Sampling and pooling
- Descriptive procedures that can be bootstrapped
  - Correlations/nonparametric correlations
  - Crosstabs
  - Descriptives
  - Examine
  - Frequencies
  - Means
  - Partial correlations
  - T tests



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## Add-on: Custom tables and advanced statistics

This add-on to the Base subscription includes the following features:

### Custom tables

- 35 descriptive statistics
- Drag and drop interface
- Inferential statistics
- Nested tables
- Place totals in any row, column, or layer
- Post computed categories
- Effective base for weighted sample results
- Put multiple variables into the same table
- Significance tests on multiple response variables
- Significance test in custom tables main table
- Significance values for column means and column proportion tests
- Specialized multiple response set tables
- False discovery correction method for multiple comparisons
- Syntax converter

### Regression

- Binary logistic regression
- Logit response models
- Multinomial logistic regression
- Nonlinear regression
- Probit response analysis
- Two stage least squares
- Weighted least squares
- Quantile regression

### Advanced statistics

- Cox regression
- General linear modeling (GLM)
  - General factorial
  - Multivariate (MANOVA)
  - Repeated measures
  - Variance components
- Generalized linear models and generalized estimating equations
  - Gamma regression
  - Poisson regression
  - Negative binomial
- GENLOG for loglinear and logit
- Generalized linear mixed models (GLMM) (ordinal targets included)
- Bayesian statistics
- Hierarchical loglinear models
- Kaplan Meier
- Linear mixed-level models (aka hierarchical linear models)
- Survival
- Variance component estimation



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## Add-on: Complex sampling and testing

This add-on to the Base subscription includes the following features:

### Complex samples (CS)

- CS Cox regression (also multithreaded)
- CS descriptives
- CS general linear models
- CS logistic regression
- CS ordinal regression
- CS selection
- CS tabulate
- Sampling wizard/Analysis Plan wizard

### Exact tests

- Cochran's Q test
- Contingency coefficient
- Cramer's V
- Fisher's exact test
- Somers' D—symmetric and asymmetric
- Friedman test
- Gamma
- Goodman and Kruskal tau
- Jonckheere-Terpstra test
- Kappa
- Kendall's coefficient of concordance
- Kendall's tau-b and tau-c
- Kruskal-Wallis test
- Likelihood ratio test
- Linear-by-linear association test
- Mann-Whitney U or Wilcoxon rank-sum W test
- Marginal homogeneity test
- McNemar test
- Median test
- Pearson Chi-square test
- Pearson's R
- Phi
- Sign test
- Spearman correlation
- Uncertainty coefficient—symmetric or asymmetric
- Wald-Wolfowitz runs test
- Wilcoxon signed-rank test

### Categories

- Correspondence analysis (ANACOR)
- Principal components analysis for categorical data (CATPCA; replaces PRINCALS)
- Ridge regression, lasso, elastic net (CATREG)
- CORRESPONDENCE
- Nonlinear canonical correlation (OVERALS)
- Multidimensional scaling for individual differences scaling with constraints (PROXSCAL)
- Preference scaling (PREFSCAL; multidimensional unfolding)
- Multiple correspondence analysis

### Missing values

- Data patterns table
- Imputation with means estimation or regression
- Listwise and pairwise statistics
- Missing patterns table
- Multiple imputation of missing data
- Pooling

### Conjoint

- Estimate utilities (CONJOINT)
- For conjoint analysis (ORTHOPLAN)
- PLANCARDS



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### Add-on: Forecasting and decision trees

This add-on to the Base subscription includes the following features:

#### *Decision trees*

- C&RT
- CHAID
- Exhaustive CHAID
- QUEST

#### *Forecasting*

- Auto regressive integrated moving average
- Autoregression
- Expert modeler exponential smoothing methods
- Forecast multiple series (outcomes) at once
- Temporal causal modeling
- Seasonal decomposition
- Spectral analysis

#### *Neural networks*

- Multilayer perception
- Radial basis function

#### *Direct marketing*

- Cluster analysis
- Contact profiling
- Control package test
- Propensity to purchase
- RFM analysis: recency, frequency, monetary
- Zip code response





## For more information

To learn more about IBM SPSS Statistics, to start a free trial or to make a purchase, visit:  
[www.ibm.com/spssstatistics](http://www.ibm.com/spssstatistics)

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