

# IBM SPSS Statistics Subscription Base Package

The Base package 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

## 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
- 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

## Help features

- Application examples
- Index
- Statistics coach
- Tutorial
- Extensions

## *Data editor enhancements*

- Custom attributes for user-defined metadata
- Spell checker
- Splitter controls
- Variable sets for wide data
- Variable icons

## *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

## *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

## *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 (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
- 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 datasets