

IBM SPSS STATISTICS

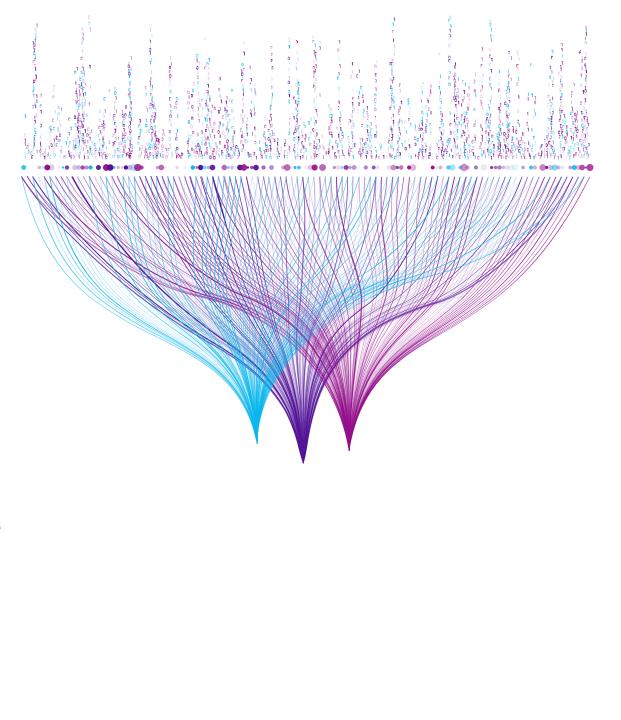
Learning Course



Gain insights from data

Using statistical analysis enables organizations to quickly dig deeper and more effectively into their data than they can by using spreadsheets, databases, or other standard multi-dimensional analytics tools.

Statistics can help data scientists, executives, business analysts, and managers throughout the entire analytics process: from planning, to data collection, analysis, reporting, and through to deployment. Users, from Chief Data Officers (CDOs) to market researchers, can use SPSS statistical analysis to identify the insights they need to succeed, whether that is determining student drop-out risk assessments or picking the next box office hit. No matter the industry or the application, there is always a need to confirm — or deny — the existence of trends in data, and SPSS is the perfect fit for such a task.



Your data consumers used to just be your analysts and data scientists

Now, everyone needs access to consumable data for useful insights



Education

Improve outcomes by understanding the factors that lead to drop-outs



Market research

Gain insights from largescale customer data



Government

Improve citizen services, make smarter decisions, manage budgets, and mitigate fraud and threats



Healthcare

Implement a data-driven model of care that improves quality, lowers costs, and drives better outcomes



Retail

Better understand customers, make the right offers to consumers, and deliver those offers through the right channels

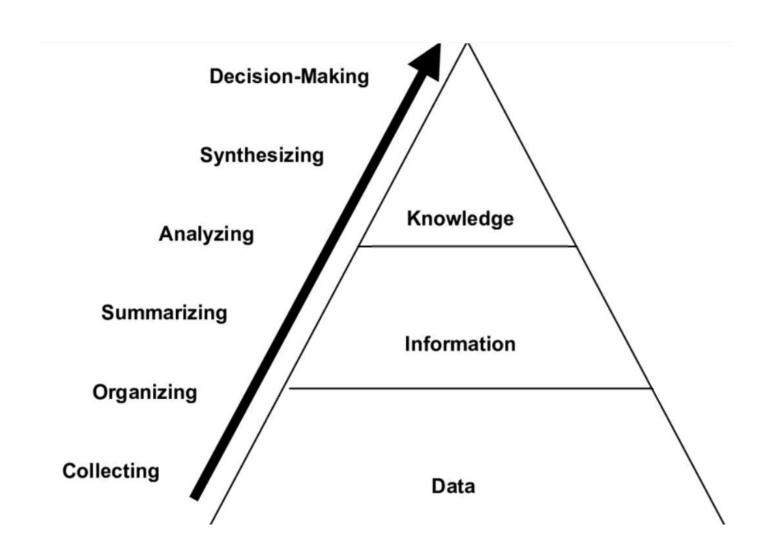
Common challenges that clients face

- Disparate, disconnected sets of tools
- Missing or dirty data
- Inefficient analyses and lackluster analysis results
- Involvement of other parties to complete work



Client needs

- Manage and transform data prior to analysis
- Understand data, analyze trends, and forecast/plan
- Help users validate or disprove assumptions faster



IBM SPSS Statistics

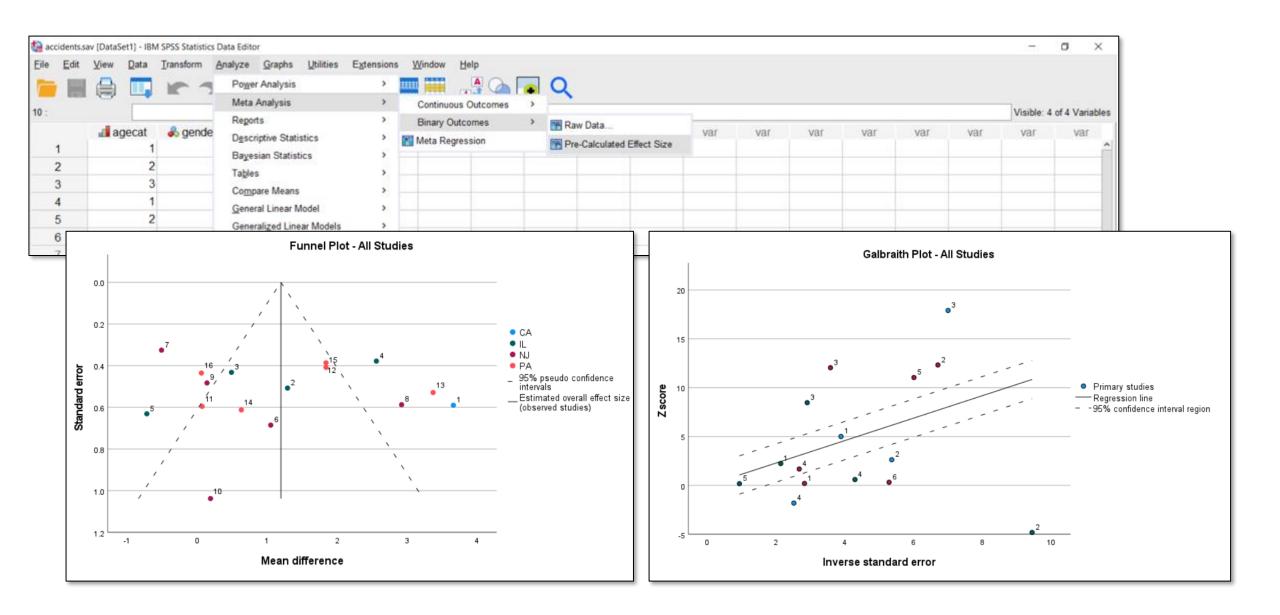


Intuitive, fullyfeatured statistical software package Flexible product packaging

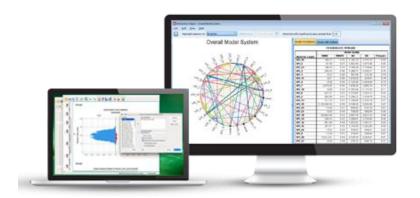
Wide range of integrations

Full spectrum of analytic capabilities

What is SPSS Statistics?



IBM SPSS Statistics software components



SPSS Statistics

Base software for analyzing data and running statistical tests

SPSS Statistics Server

Provides features of SPSS Statistics with faster performance.

SPSS Amos

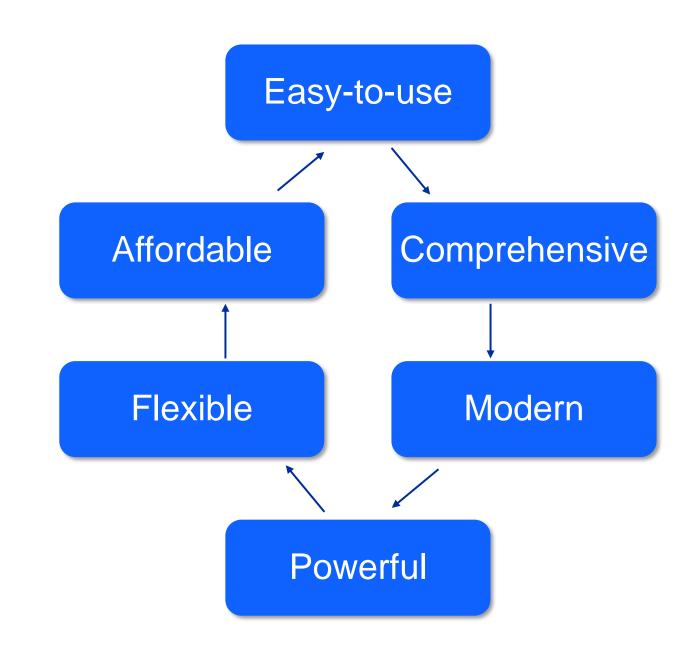
Structural equation modeling software that extends standard multivariate analysis methods

Extensions

Allows integration with tools such as R, Python, and Java

IBM SPSS Statistics

- Covers the entire analytical process
- Intuitive user interface
- Automated data preparation
- Advanced data visualizations
- Flexible product packaging



Fighting crime with data

"SPSS Analytics helps us optimize our operations and make sure we meet targeted response times."

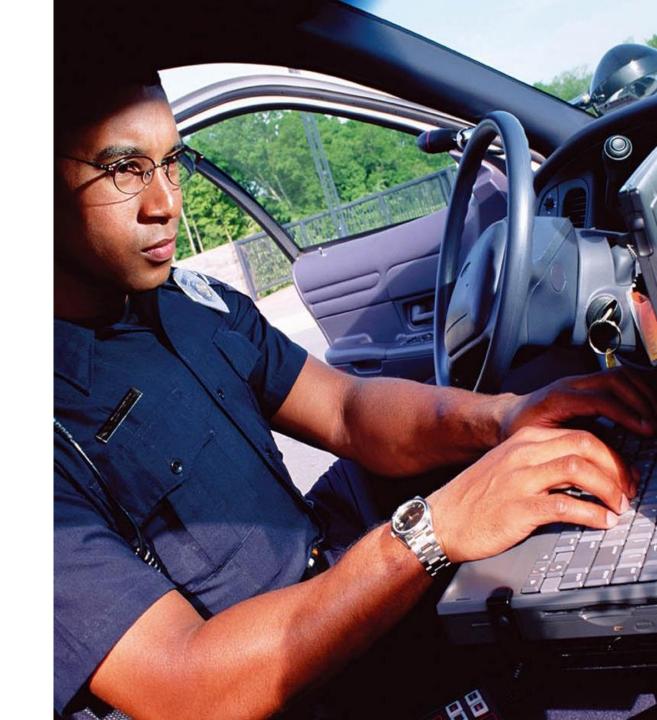
Valérie Dupire, Counsellor, Police Charleroi

Business problem

With limited staffing, how can Police Charleroi focus on the most important and urgent issues: measuring their effectiveness over time and keeping stakeholders informed?

Solution

Performing statistical analyses on incident data to produce heat-maps and dashboards to help deploy resources in the right places, at the right times



Pushing the boundaries of AI with SPS SrI

"By building on the IBM SPSS platform, we're ... helping business users gain deep insights independently & freeing the data science team from the burden of routine analysis tasks."

Stefano da Col, Sales Director, SPS Srl

Business problem

Take advantage of the increased demand for advanced analytics solutions across industries and maintaining its dominant position

Solution

Build proprietary software solutions that extend IBM SPSS Statistics' built-in capabilities to open up advanced analytics and machine learning to new audiences



Influence Health – predicting required patient services

Business problem

Maximize return on marketing spend, score existing and potential patients on the likelihood that they will need specific healthcare services

Solution

Influence Health builds and runs sophisticated propensity models that can analyze 195 million patient records and predict the likelihood that each prospect will need specific healthcare services, such as medical procedures or courses of treatment for diseases



What clients say about it?

"The real key to how we use SPSS Statistics is the ability to pull SPSS and grab data from our SIS (Student Information System) or any data warehouse during a live conversation and contextualize the conversation to validate if it is a good idea or a bad idea."

- David Wright, Professor at Wichita State

Additional case studies

- International Medical Corps (Healthcare)
- IMM (Media & Entertainment)
- RAV (Computer Services)



Where to get more information?

3rd-party reports

IBM SPSS Statistics is named a Leader in the G2 Grid report for Best Statistical Software – Spring 2022

IBM SPSS Statistics is named a Leader in the G2 Grid® report for Best Statistical Software – Winter 2020

Tech Talks

Open Source and SPSS Statistics – Better Together

Build powerful visualizations using statistics charting and advanced GPL language

ebooks

Accelerate the Path to Deeper Insights ebook

Interactive smart papers

How industry experts are using IBM SPSS Statistics for better outcomes

Webinars

Better Decision Making in Healthcare with SPSS Statistics

SPSS Statistics: 4 Most Popular Statistical Procedures Using SPSS Statistics

Learn How Industry Experts Are
Leveraging Predictive Analytics with
SPSS Statistics

Empower your educational institution to make the best decision every time using SPSS Statistics

Videos

Technical Demo videos library

Explore the power of statistical analysis in your organization

How IBM SPSS Statistics compares to competitors

How IBM SPSS Statistics can help academia make better decisions with data

User testimonials

<u>David Wright, SPSS Statistics</u> for Academics

D. Anthony Miles, SPSS Statistics for Market Research

<u>Laura Squier, SPSS Statistics</u> <u>for Government</u>

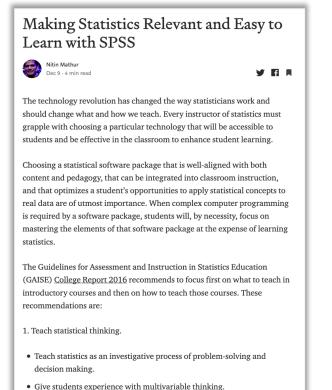
Blogs: Creating awareness for SPSS and addressing user questions

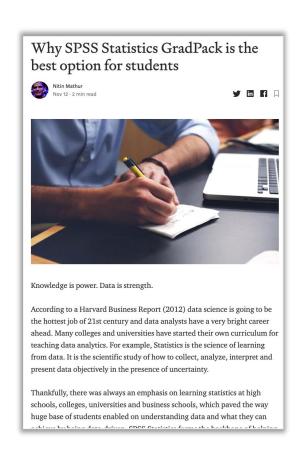
Why SPSS Statistics GradPack is the best option for students

Your ultimate guide to SPSS
Statistics vs SPSS Modeler



Making statistics relevant and easy to learn with SPSS





SPSS Demos: Explore advanced statistical procedures with SPSS Statistics

Advanced statistics: Use univariate and multivariate modeling for more accurate conclusions in analyzing complex relationships.

Watch the video (03:29)

Custom tables: Easily summarize large datasets.

Watch the video (02:46)

Regression: Predict categorical outcomes and apply nonlinear regression procedures.

Watch the video (02:37)

Decision trees: Use classification and decision trees to help identify groups and relationships and predict outcomes.

Watch the video (13:49)

Direct marketing: Easily identify the right customers and improve campaign results.

Watch the video (02:46)

Forecasting: Build time-series forecasts regardless

Watch the video (03:14)

Neural networks: Discover complex relationships and improve predictive models.

Watch the video (03:23)

Categories: Predict outcomes and reveal relationships using categorical data.

Watch the video (03:34)

Complex samples: Analyze statistical data and interpret survey results from complex samples.

Watch the video (03:05)

Conjoint: Better understand and measure

Watch the video (03:11)

Exact tests: Reach more accurate conclusions with small samples or rare occurrences.

Watch the video (03:09)

Missing values: Uncover missing data patterns, estimate summary statistics and impute missing values
Watch the video (03:23)

For more demos, visit the Technical Demo videos library

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