



Getting Started with IBM SPSS Statistics

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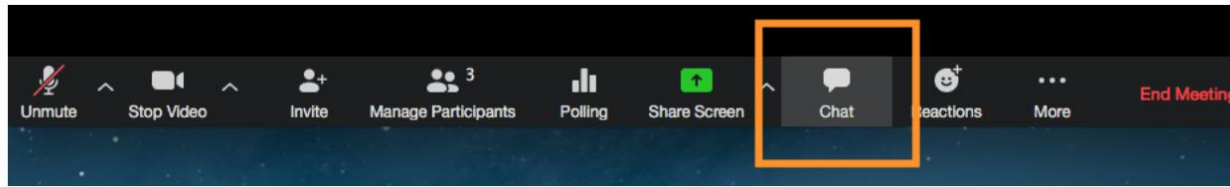
Getting Started with IBM SPSS Statistics

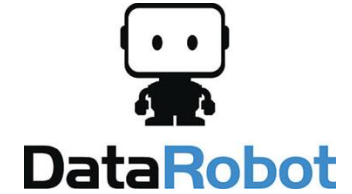
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Just waiting for all attendees to join...

FAQ's

- Is this session being recorded? Yes
- Can I get a copy of the slides? Yes, we'll email links to download materials after the session has ended.
- Can we arrange a re-run for colleagues? Yes, just ask us.
- How can I ask questions? All lines are muted so please use the chat panel – if we run out of time we will follow up with you.





- Gold accredited partner to IBM, Predictive Solutions and DataRobot specialising in advanced analytics & big data technologies
- Work with open-source technologies (R, Python, Spark etc.)
- Team each has 15 to 30 years of experience working in the advanced and predictive analytics industry
- Deep experience of applied advanced analytics applications across sectors
 - Retail
 - Gaming
 - Utilities
 - Insurance
 - Telecommunications
 - Media
 - FMCG



Agenda

- An overview of SPSS Statistics
- Reading data from databases and spreadsheets
- Formatting the data
- Creating filters and banded fields
- Using SPSS Tables functionality to create publication-quality reports
- Finding statistically significant differences in groups

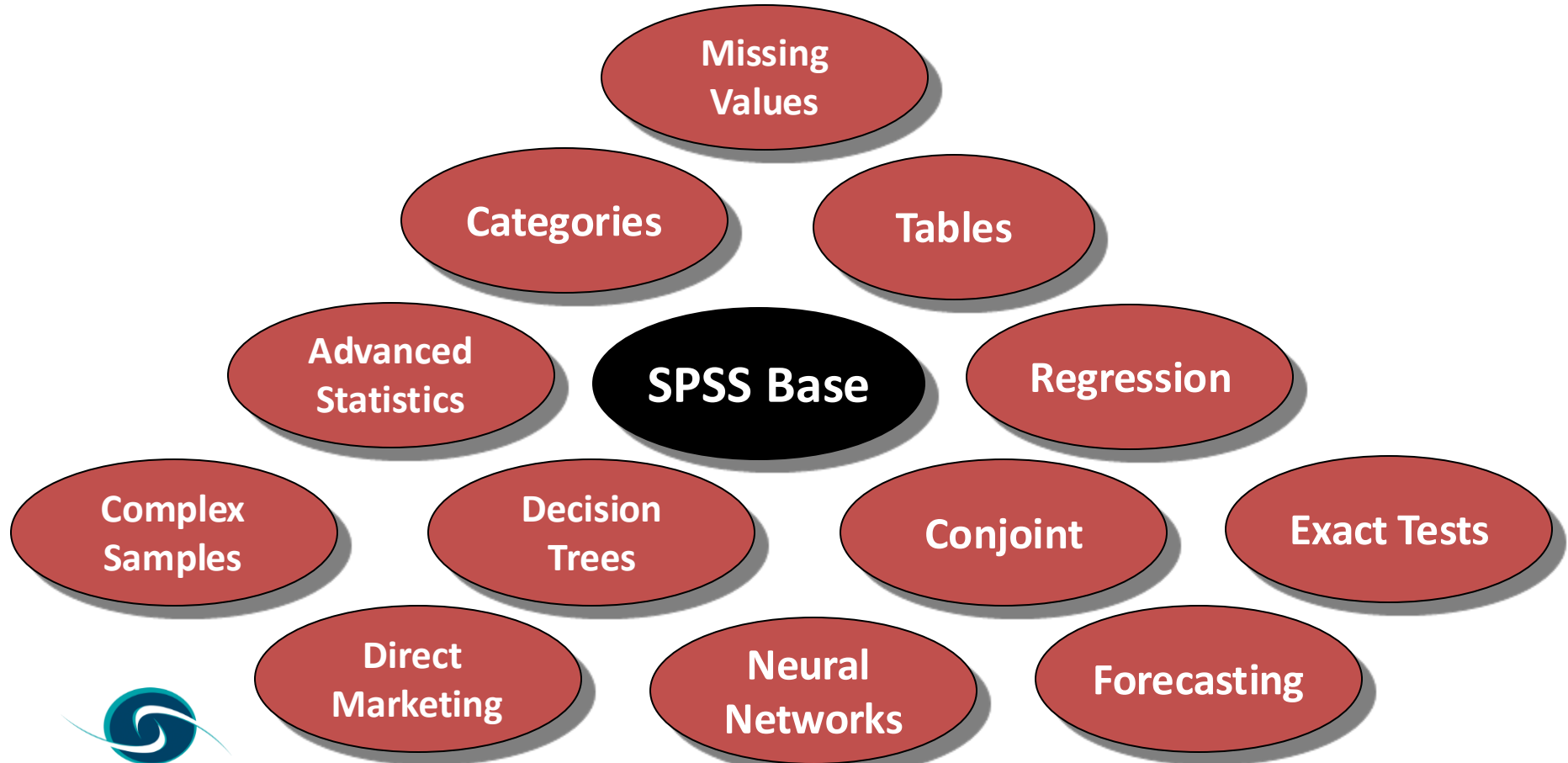


An Overview of IBM SPSS Statistics

SPSS Statistics

- Since 1968 one of the world's most popular data analysis and statistical interrogation platforms
- Used for everything from epidemiology studies , survey research and business reporting to direct marketing, credit risk, process modelling and asset management
- Statistics included in the base software:
 - Descriptive statistics: Cross tabulation, Frequencies, Descriptives statistics
 - Statistical Tests: T-test, ANOVA, Correlation
 - Prediction for numerical outcomes: Linear regression
 - Identifying relationships and groups: Factor analysis, Cluster analysis

IBM SPSS Statistics Base & Associated Modules

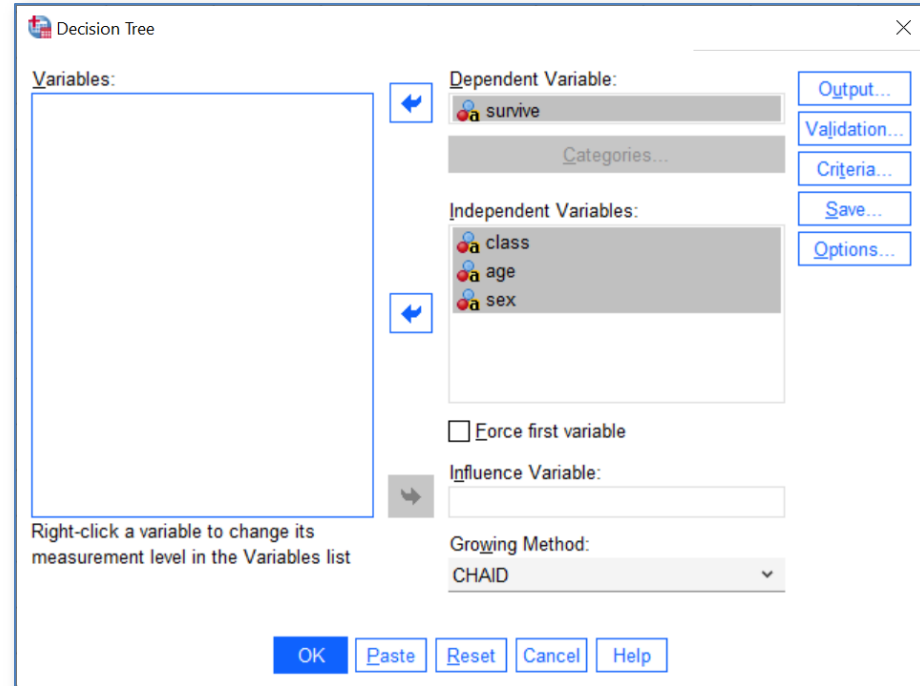




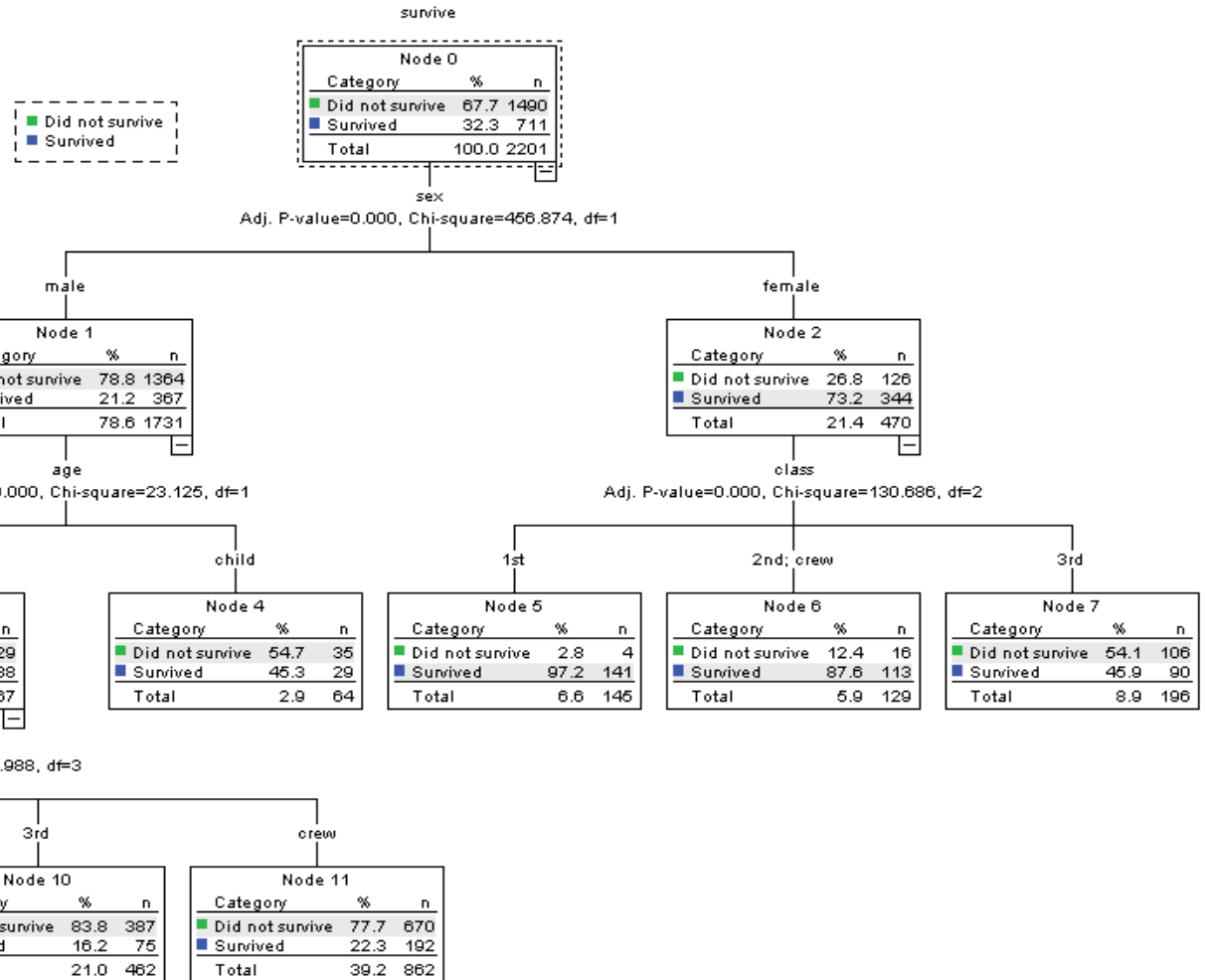
Example Module: IBM SPSS Decision Trees

SPSS Decision Trees

- Decision trees are used to:
 - Build predictive models
 - Create profiles of customers/employees/clients
 - Find key behavioural segments
- Very popular because they:
 - Represent models visually
 - Are easy to understand



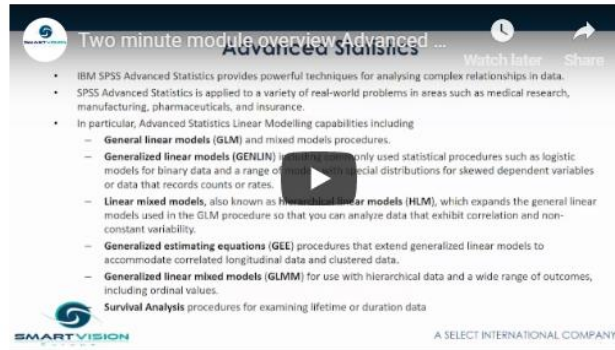
IBM SPSS Decision Trees



Smart Vision's Short Video Guides to SPSS Modules

IBM SPSS Advanced Statistics

Two minute module overview



What's in the Advanced Statistics module?

IBM SPSS Advanced Statistics provides powerful techniques for real-world problems in a variety of disciplines, including medical research, manufacturing, pharmaceuticals, and market research. It is an extremely 'analytically rich' SPSS Statistics module. Advanced Statistics includes a very wide range of multivariate procedures for investigating complex relationships in data. A number of the procedures in IBM SPSS Advanced Statistics are relatively technical in a statistical sense. In particular, Advanced Statistics encompasses General and Generalized Linear Modelling capabilities.

- General Linear Models allow you to model relationships and interactions between many factors. The general linear model incorporates a number of different statistical models: ANOVA, MANOVA, ANCOVA, Repeated Measures etc.
- An example of GLM would be one where we wish to see if males spend more money on average in a particular store than females when they have been given a particular discount coupon. The model can be made more complicated if we include more than one type of coupon or test to see whether region or age makes a difference.
- Generalized Linear Models are an extension of General Linear Models in that they are able to work with a greater range of data distributions. In particular, the model allows for the dependent variable to have a non-normal distribution.

SPSS modules

[IBM® SPSS® Statistics Base](#)

[IBM® SPSS® Advanced Statistics](#)

[IBM® SPSS® Bootstrapping](#)

[IBM® SPSS® Categories](#)

[IBM® SPSS® Complex Samples](#)

[IBM® SPSS® Conjoint](#)

[IBM® SPSS® Custom Tables](#)

[IBM® SPSS® Data Preparation](#)

[IBM® SPSS® Decision Trees](#)

[IBM® SPSS® Direct Marketing](#)

[IBM® SPSS® Exact Tests](#)

[IBM® SPSS® Forecasting](#)

[IBM® SPSS® Missing Values](#)

[IBM® SPSS® Neural Networks](#)

[IBM® SPSS® Regression](#)

[IBM® SPSS® Bundles](#)

Three Key Capabilities

The most effective users of technology like SPSS Statistics are able to demonstrate skills in three key areas:

1. Reading and formatting data
2. Transforming and manipulating data
3. Analysis and deployment of results



Let's take a closer look

Additional Resources

- [SPSS FAQs](#) everything from finding out what you have installed to how to merge files or change the language
- [Video Guides](#) a wide range of SPSS “how to” topics with mini demos
- [SPSS Software](#) information on products, modules and pricing
- [Eat your greens](#) blog series on statistical testing and procedures

Smart Vision Europe: Services and Expertise

Consultancy and Help

Guidance and support to help you get started. Embed our expertise alongside your team to help meet your objectives.

Training and Support

Educational support whether onsite or remote/virtual learning. Full day or half-day bite-size courses.

Data Science Recruitment

Help with staff recruitment utilising our technical expertise, extensive global network and decades of experience in the industry.



Smart Vision Europe: Services and Expertise

- **Software**
 - We can help you manage your existing SPSS licenses
 - You can buy your analytical software from us often with discounts
 - <http://www.sv-europe.com/buy-spss-online/>
- **Advice and Support**
 - We offer ‘no strings attached’ technical and business advice relating to analytical activities to anyone
 - Formal technical support services for the IBM SPSS product family
- **Access our online training catalogue**
 - Smart Vision Europe customers gain free access to our library of training materials and recorded self-paced training courses

Online training materials
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testing in SPSS Statistics

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Working with decision trees in
SPSS Statistics



Introduction to SPSS Modeler
course



Introduction to IBM SPSS
Statistics course





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Thank you