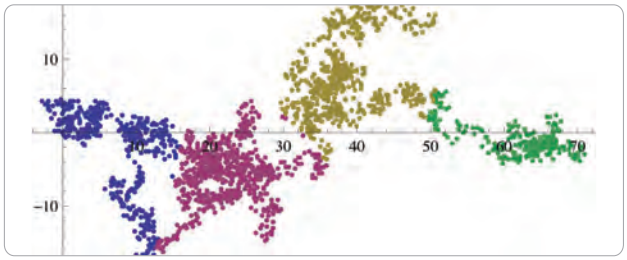
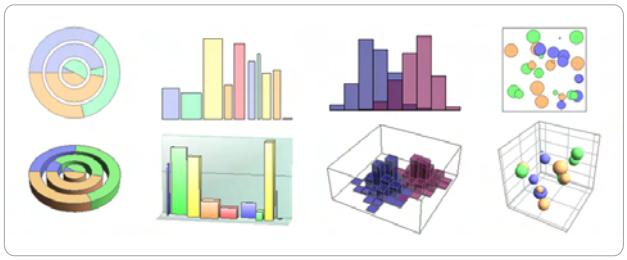
THE *MATHEMATICA*® STATISTICS SOLUTION

Pull in your data or ours, do standardized or custom analysis and visualization, then generate and deploy interactive reports—all in one system, with one integrated workflow.

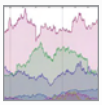
The *Mathematica* statistics solution includes powerful optimization and statistics functionality alongside unique capabilities like built-in data sources, instant interactivity, and the reliability of any-precision numerics and symbolic analysis.





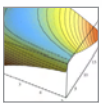
Why *Mathematica* in Statistics?

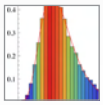
Mathematica includes thousands of built-in functions for computation, modeling, visualization, development, and deployment.



KEY STATISTICS CAPABILITIES

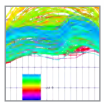
- Fit and analyze parametric models of data, including linear, nonlinear, logit, probit, and generalized linear models
- Perform cluster analysis on numerical, Boolean, and string data in arbitrary dimensions and with arbitrary distance functions
- Import and export data in hundreds of formats
- Create fully interactive interfaces for real-time analysis
- Deploy your interactive applications, reports, or documents using the *Mathematica Player*™ family
- Advanced charting and 2D and 3D visualizations for all data types

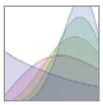




WAYS TO USE

- Perform Monte Carlo simulations, bootstrap analysis, estimate probabilities, and more for pricing options
- Model and predict a wide range of failure rates, such as the reliability of engineering materials, using built-in Weibull distribution functions
- Analyze FRAP (fluorescence recovery after photobleaching) experiments to quantify the mobility of molecules in live cells or develop models to investigate SIR epidemic dynamics
- Study public health statistics, voting patterns, consumer spending data, and more for predictive modeling



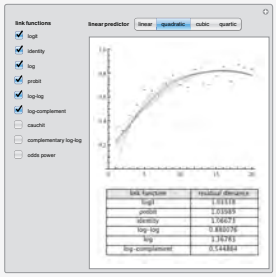


And more at:
wolfram.com/solutions/flyer/statistics

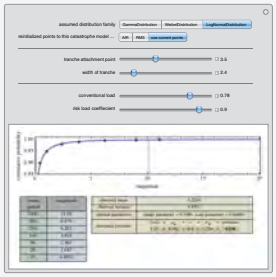
MATHEMATICA IN STATISTICS

Interactive Statistics Examples

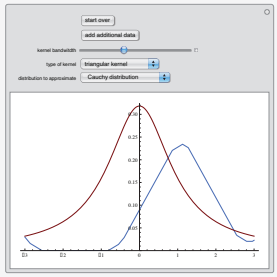
The Wolfram Demonstrations Project offers thousands of free, ready-to-use models contributed by users. Here are a few examples:



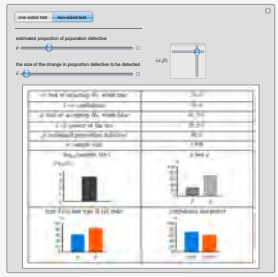
Comparing Binomial Generalized Linear Models



Estimating Insurance Premiums Using Exceedance Data and the Method of Moments



Kernel Density Estimation



Sample Size Calculation — Proportions

WHO USES *MATHEMATICA*?

Some of the most important institutions in the world, including:

The Institute of Statistical Mathematics
Deutsche Bank AG
Federal Reserve Board
Goldman Sachs
Allstate Insurance
Bank of America
Bloomberg
Citigroup

WHAT ARE THE EXPERTS SAYING ABOUT *MATHEMATICA*?

"With other languages I think we would spend weeks on simply the production of the graphics or the computation of the differential equations or the drawing of random distributions, and *Mathematica* is a seamless environment in which we can put this all together in a reasonable time."

Seth Chandler
University of Houston Law Center

"Now that we have the powers of *Mathematica*, especially some of the new stuff in [*Mathematica*], we can do things we couldn't do before.... We can get better results and we can do it quickly."

William Meyer
Vice President of Technology Development, Scattering Solutions, LLC

NEXT STEPS

Visit our Statistics Solutions page to find out how to incorporate *Mathematica* into your daily work and research.

Key resources include:

- Video screencasts
- Free online seminars
- Full *Mathematica* documentation, with more than 50,000 examples, how tos, and tutorials
- Statistics books and articles

wolfram.com/solutions/flyer/statistics

QUESTIONS?

Contact us and let us work with you to find the right solution for your computational needs.

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