

Minitab Statistical Software

Powerful statistical software everyone can use.

The Company

Minitab helps companies and institutions to spot trends, solve problems and discover valuable insights in data by delivering a comprehensive and best-in-class suite of data analysis and process improvement tools. Combined with unparalleled ease-of-use, Minitab makes it simpler than ever to get deep insights from data. Plus, a team of highly trained data analytic experts ensure that users get the most out of their analyses, enabling them to make better, faster and more accurate decisions.

For nearly 50 years, Minitab has helped organizations drive cost containment, enhance quality, boost customer satisfaction and increase effectiveness. Thousands of businesses and institutions worldwide use Minitab Statistical Software, Companion by Minitab, and Quality Trainer to uncover flaws in their processes and improve them. In 2017, Minitab acquired Salford Systems, a leading provider of advanced analytics which delivers a suite of powerful machine learning, predictive analytics and modeling capabilities.



Minitab provides the tools you need to analyze data and find meaningful solutions to your toughest business problems.

Minitab has the market's most trusted tools that streamline your workflow, a comprehensive set of statistics for analyzing your data, and visualizations for communicating your success. You don't have to be a statistics expert to get the insight you need from your data. And with Minitab's Assistant, you will be guided through every step of your analysis, including help with interpreting and presenting your results.

Powerful statistical software everyone can use.



Better decision-making is possible

With a comprehensive set of statistical tools for exploring your data and visualizations that illustrate insights, Minitab Statistical Software can help at any stage of your analytical journey.

From beginner to advanced: Expert guidance every step of the way

- **Minitab's Assistant** is a built-in interactive feature that guides you through your analysis and even helps you interpret and present results.

Not everyone uses data analysis every day — for infrequent or new users, Minitab's Assistant feature helps complete or troubleshoot analysis.

- **Industry-leading support and training to help make your life easier.**

Highly technical user support — access the help you need to use our software from trained data scientists and statisticians at www.minitab.com/support.

Public training and customized training courses — gain insight into your data and improve the quality of your products and services with courses guided by expert statisticians.

Our library of online resources includes general introductory videos, software overviews and tips and tricks.

- **E-learning course Quality Trainer*** can supplement any new employee or team member's onboarding. Quality Trainer includes animated lessons, quizzes, and hands-on exercises to help you easily learn statistics and how to use Minitab Statistical software.



*Quality Trainer e-learning sold separately



Ease of Use

What I really appreciate about the usability [of Minitab] is that you don't have to be an expert in stats to be able to use it and to be able to get value from it.

Quality Manager, Manufacturing Organization



Visualization

Minitab made that information so clear not only through the statistical output that you get, but also through all of the graphical output that you can do and that you cannot do in some of the other software programs.

Six Sigma Master Black Belt, Top Automotive Company



Self-Help & Training

I owe a lot of credit to where I'm at today from the training I got at Minitab. From the capabilities it has given me — it just ignited the passion in me to apply statistics to manufacturing.

Quality Manager, Medical Device Organization



Customer Support

There's actually people on the other end of the phone that can help you get there. That's awesome.

Continuous Improvement Manager, Manufacturing Organization

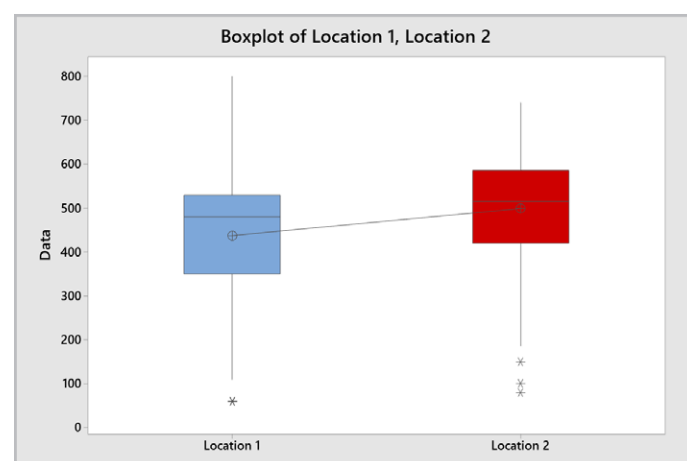


Look at current and past data to find trends and patterns. Uncover hidden relationships between variables and identify important factors to answer even the most challenging questions.

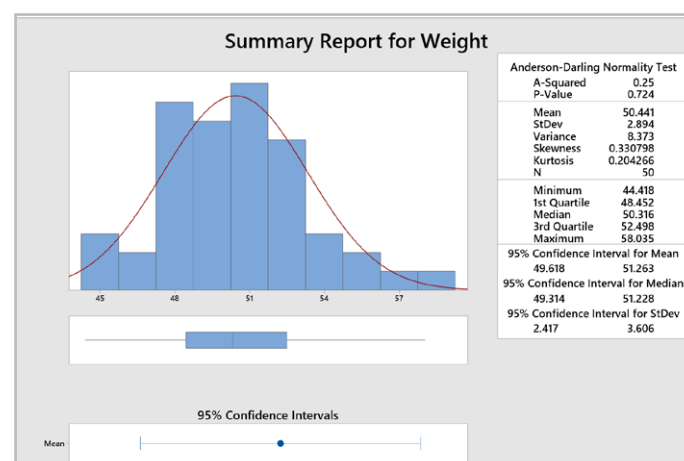


Descriptive and inferential statistics

- Basic statistics that are easy to use even if your expertise is non-statistical. Easily identify distributions, correlations, outliers and missing values.
- Key statistical tests include: paired t-test, one and two proportions test, normality test, chi-square test and non-parametric tests.



Box Plots

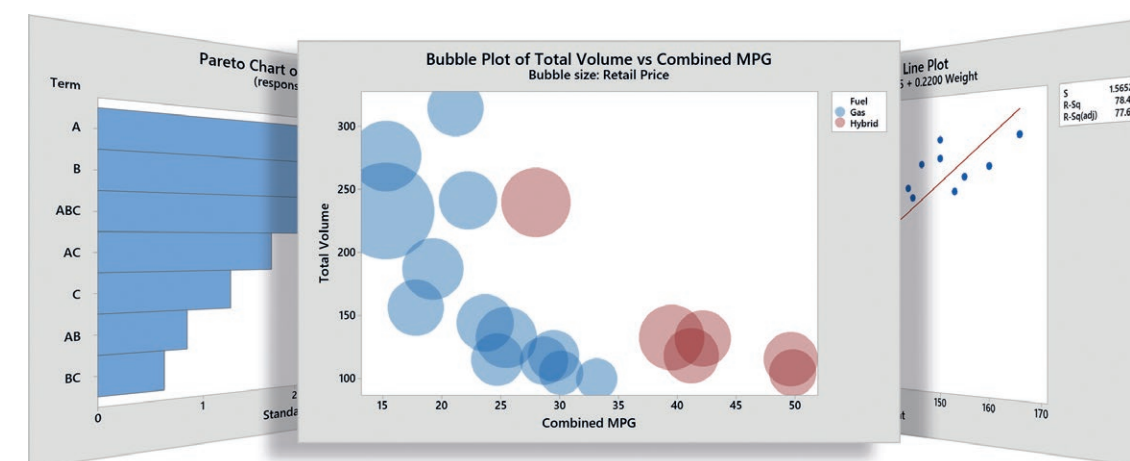


Graphical summary



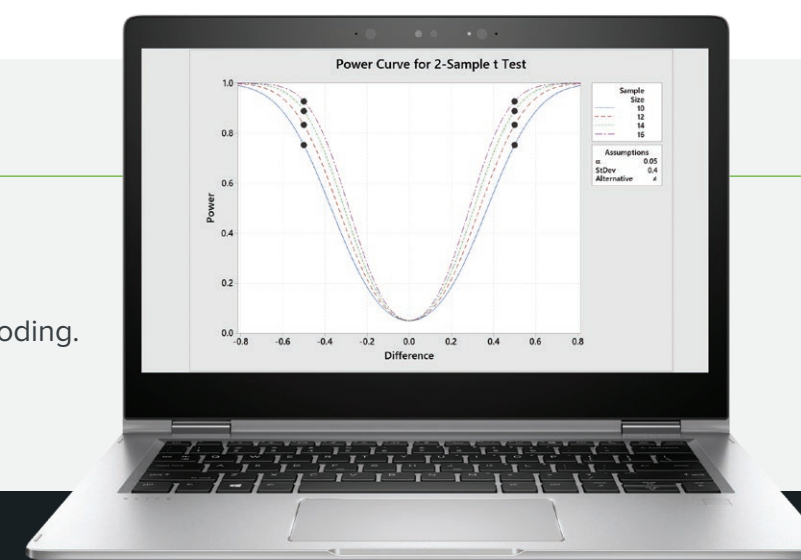
Visualizations

- Graphical output that illustrates your findings; scatterplots, bubble plots, boxplots, dotplots, histograms, charts, time series plots, etc.
- Graphs seamlessly update as data changes. Explore points of interest in more detail with brushing feature that zooms into sections of your graph.
- Graph export: TIF, JPEG, PNG, BMP, GIF, EMF



Take the work out of data preparation — Import and prepare your data for analysis with ease

- One-click import from Excel or Microsoft Access.
- Intuitive menu allows for one-click sort, stack, transpose and merging of worksheets.
- Quickly recode numeric, text, data/time values. Provide Minitab a conversion table for even faster recoding.
- One-click send to Microsoft PowerPoint, Word, and Companion by Minitab

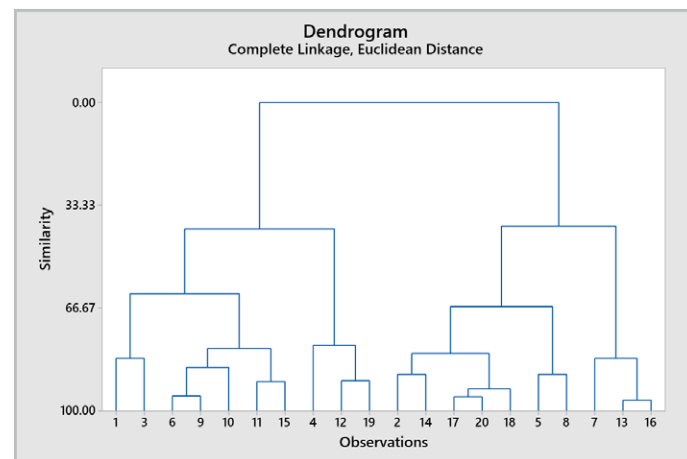


Build predictive models that drive future decisions. Improve decision-making, harnessing the data you have today.

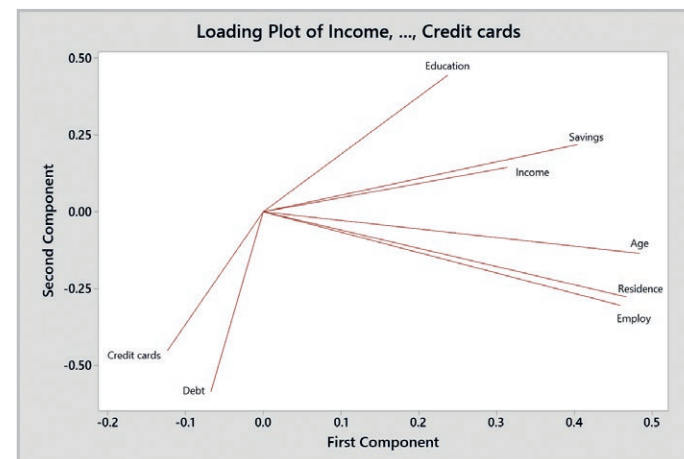


Multivariate, Classification/Segmentation

- Reduce the number of variables with factor analysis and principal component analysis
- Cluster variables and K-Means clustering



Dendrogram

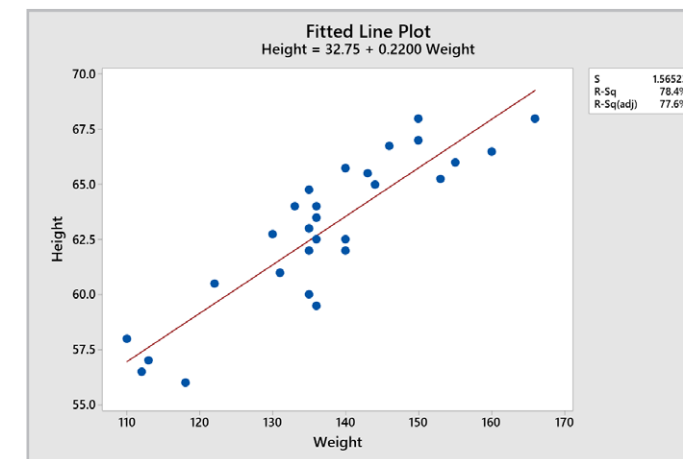


Loading Plot

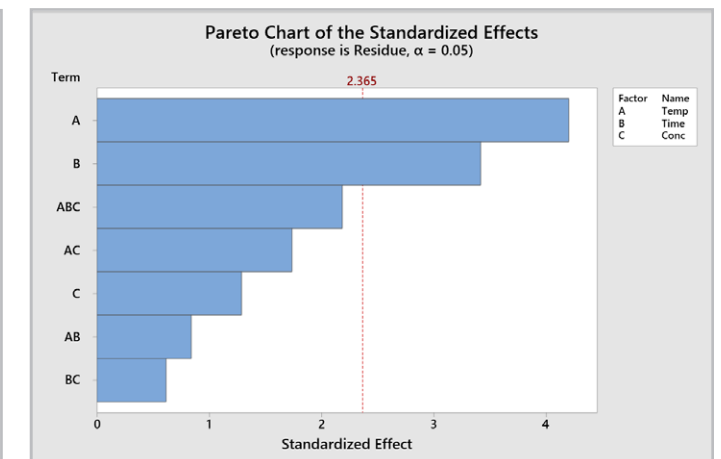


Predictive Modeling

- Logistic Regression
- Time Series and Forecasting
- Regression Techniques



Fitted Line Plot



Pareto for DOE



Unleash the Full Potential of Minitab

Save your team time: run your analyses at a click of a button

Customizable Menus and Toolbars

- Create custom commands to run frequently used analyses
- Add a shortcut to a menu or toolbar to run a Minitab macro or Exec file



Minitab Assistant

Minitab’s Assistant guides you through your analysis and even helps you interpret and present your results.



Choose the right tool.
Work through an interactive decision tree to pick the correct statistical tool.



Analyze data correctly.
Follow clear guidelines to ensure your analysis is effective. Get results quickly using simplified dialogs.



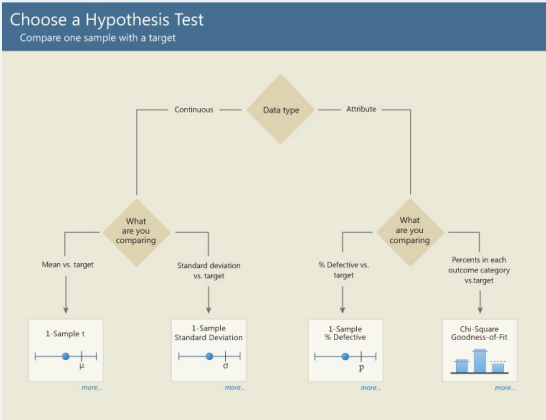
Act with confidence.
Easily interpret your finding with detailed reports that are simple to understand and export.

1 Pick the appropriate statistical tool.

The Assistant outlines the process for choosing the right analysis.

Step-by-step guidance

An interactive decision tree leads you to the right statistical tool by posing a series of questions you need to answer, such as the type of data you’re working with and the objective of your analysis.



Expert support

When you face a question you can’t answer, the Assistant provides the information you need to respond correctly, such as the definitions of important terms and illustrated examples that help you understand how the question relates to your own data.

What type of data do you have?

Continuous data
Measures a characteristic of a part or process, such as weight, or temperature. The data often includes fractional (decimal) values.
Example
A quality engineer wants to determine whether the weight differs from the value stated on the cereal box. The engineer samples cereal boxes and weighs them.

Attribute data
Counts the presence of a characteristic or condition, such as a physical trait, a type of defect, or a rating, such as pass/fail. The data are whole numbers.
Example
Managers at a bank want to know whether the proportion of customers who are interested in student loans is high enough (at least 5%) to warrant offering the service. They survey 3500 customers and count how many of them are interested in student loans.

1-Sample t-Test

The 1-sample t-test determines whether the mean is significantly different from a target value.

Collecting the data

- Collect a random sample of data.
- Collect enough data.
The sample should be large enough to determine, with reasonable certainty, whether the process mean and standard deviation differ from the target. Additionally, if you enter the difference that has practical significance, the Assistant determines how large of a difference between the mean and the target value are significantly different. The sample size is at least 20.

Evaluating the results

- Examine unusual data points.

2 Ensure your success.

The Assistant provides clear guidelines for an effective analysis, including information about how to set up, collect, and enter your data, and more.

3 Run your analysis quickly and easily.

The Assistant’s dialogs are simple to complete. Steps have been streamlined and the text that accompanies the input fields is accessible and direct. Fields will even dynamically change based on your input.

What target do you want to test the mean against?

Target:

What do you want to determine?

- ☐ Is the mean of Weight greater than 920?
- ☐ Is the mean of Weight less than 920?
- ☒ Is the mean of Weight different from 920?

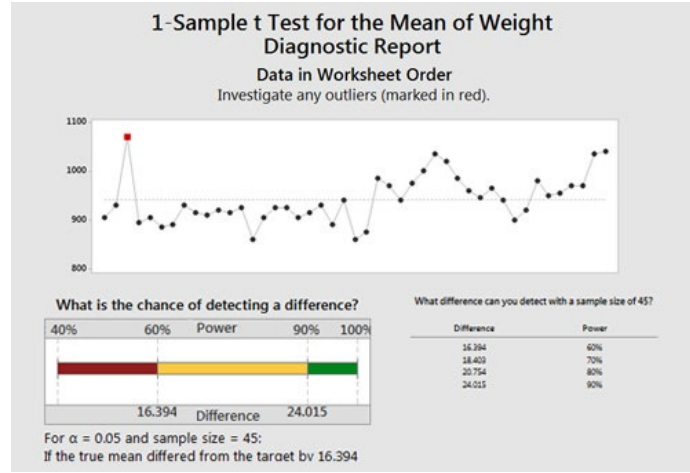
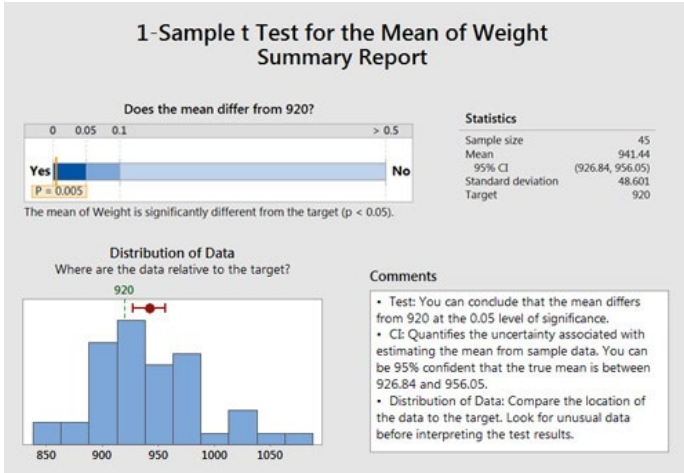
4

Interpret your results with confidence.

The Assistant provides a series of reports that help you understand your analysis. Clear graphs and concise results give you the insight you need to make decisions you can trust.

Summary Report

Summary Reports help you draw the correct conclusions and explain why. They illustrate the answers to important questions, and include comments that give your analysis context and meaning.

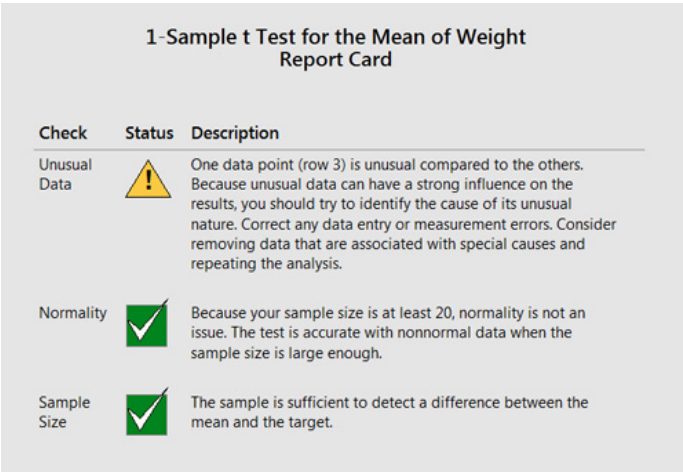


Diagnostic Report

Diagnostic Reports help you further understand your analysis by providing additional detail, such as outliers you should explore and the probability of detecting a significant difference.

Report Card

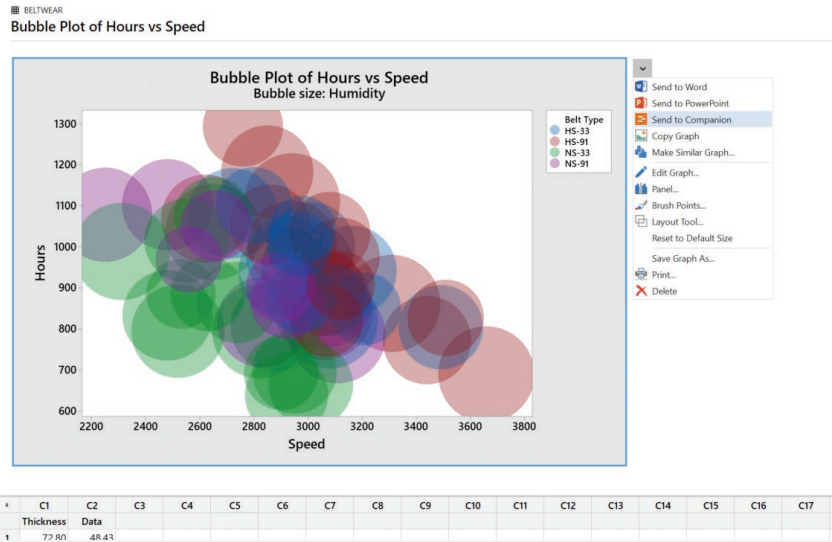
Report Cards verify your analysis by providing assumption checks and identifying any concerns you should be aware of, such as unusual data points and issues with normality and sample size.



5

Share your findings with one click.

Easily communicate your results by exploring your reports directly to Microsoft Word, PowerPoint and Companion by Minitab.



Minitab – your partner in your analytics journey

Comprehensive set of statistics for data analysis in your organization or role.

Visualizations and the right statistical methods to enable data-driven decisions; and better decisions mean better business outcomes.



For Quality

Measurement System Analysis

- Gage studies
- Attribute agreement analysis

Capability Analysis

- Capability Sixpack® – Quickly assess the assumptions for normal and non-normal capability analysis and focus only on the major indices of process capability

Control Charts

- Variable, attribute
- Multivariate
- Time weighted
- Rare event charts

Acceptance Sampling

Tolerance Intervals



For Reliability Engineering

Distribution Analysis

- Arbitrary censoring (left, right or interval censoring)
- Weibull analysis
- Censored data

Warranty Analysis

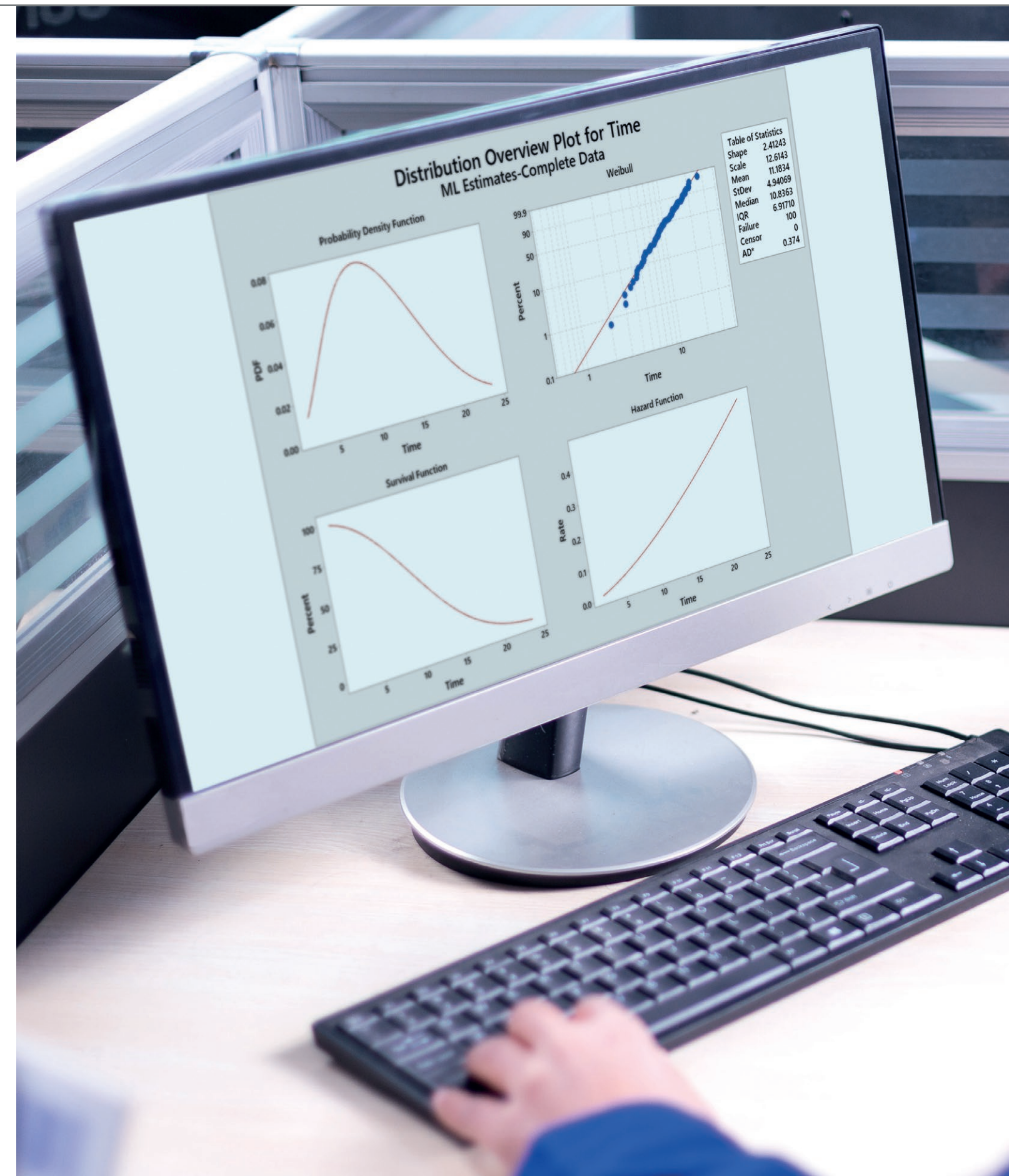
Repairable Systems Analysis

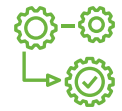
Test Plans

- Demonstration
- Estimation (Sample Size for Distribution Analysis)
- Accelerated Life Test

Regression with Life Data

Probit Analysis





For Product Development

Design of Experiments (DOE)

- Screening designs
- Full factorial
- Fractional factorial
- Response surface
- Mixture

Power Sample Size

- Tolerance intervals
- Normal and non-normal distributions



For Business Analytics

Correlation

Statistical Modeling:

- Regression
- Non-linear regression
- Multivariate models
- Cluster analysis

Time Series Analytics

- ARIMA modeling
- Time series / forecasting

Multivariate Methods

Chi-Square Test for Association



For Process Validation

Stage 1 Process Design

- Measurement systems analysis
- Hypothesis testing
- Regression / ANOVA
- Process capability

Stage 3 Continued Process Validation

- Measurement systems analysis
- Acceptance sampling
- Control charts

Stage 2 Process Qualification

- Control charts
- Capability analysis
- Tolerance Intervals

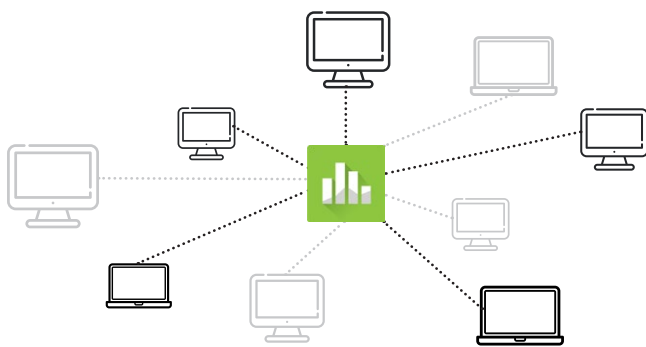


Minitab Statistical Software Licensing Options

Minitab offers licensing options for individual users and concurrent licensing for sharing a license across multiple users. Technical support is included for all currently licensed users through the life of the release.

- 32-bit and 64-bit available
- Available for Mac

Multi-User



Our flexible multi-user licensing option can be installed on an unlimited number of computers for concurrent use based on the number of “seats” purchased. Users share these “seats” — the number of seats is the total number of users that can access the software at the same time.

Single-User



Purchase a stand-alone copy of Minitab 19 for individual use with discounts available for future versions.

Try Minitab Statistical Software Free for 30 days

Get deeper insights from your data through Minitab’s comprehensive suite of tools and unparalleled ease-of-use.

[Download your free 30-day trial online at minitab.com](https://www.minitab.com)