Learn What’s New ➤

Upgrade now to access new and improved statistical features and other enhancements that make it even easier to analyze your data.
Minitab Statistical Software has all the tools you need to effectively analyze your data. By guiding you to the right analysis and giving you clear results, Minitab helps you solve your toughest business problems.

Minitab 18 includes new features and functionality to make data analysis easier than ever.

Updated Session Window
The Session window not only looks better, but it also includes several great enhancements, including the ability to:

- Specify the number of significant digits
- Easily access graphs via links
- Zoom in and out

Sort Worksheets
Easily manage your data within the Project Manager using new options for sorting your worksheets by title or in chronological order.
New Statistical Features

Definitive Screening Designs
Identify which inputs affect your outputs with this new type of DOE screening design. These designs can provide an alternative to standard screening designs where main effects are confounded with two-way interactions.

More Distributions for Tolerance Intervals
Calculate statistical tolerance intervals for nonnormal data using a wide variety of distributions including Weibull, lognormal, exponential, and more.
New Statistical Features

REML for Random and Fixed X’s
Explore relationships between variables, run multiple comparisons, and calculate predictions for mixed models.

Gage R&R
Incorporate a user-specified process (historical) standard deviation in relevant calculations.

DOE Effects Plots
Visually identify significant X’s with effects plots for general factorial and response surface designs.
GLM Response Optimizer

Include both your factors and covariates when using the response optimizer to find optimal settings.

Additional Enhancements

Command Line Pane
Enter commands to expand Minitab’s functionality using a docked pane that keeps commands separate from Session output.

Word and Excel Improvements
Import Session output into Word and Excel in table format to easily manipulate and customize the appearance of your results.

Visit Minitab.com for a free 30-day trial of Minitab 18.
Minitab 18 Features List

Assistant
- Measurement systems analysis
- Capability analysis
- Graphical analysis
- Hypothesis tests
- Regression
- DOE
- Control charts

Basic Statistics
- Descriptive statistics
- One-sample Z-test, one- and two-sample t-tests, paired t-test
- One and two proportions tests
- One- and two-sample Poisson rate tests
- One and two variances tests
- Correlation and covariance
- Normality test
- Outlier test
- Poisson goodness-of-fit test

Graphics
- Scatterplots, matrix plots, boxplots, dotplots, histograms, charts, time series plots, etc.
- Contour and rotating 3D plots
- Probability and probability distribution plots
- Automatically update graphs as data change
- Brush graphs to explore points of interest
- Export: TIF, JPEG, PNG, BMP, GIF, EMF

Regression
- Linear and nonlinear regression
- Binary, ordinal, nominal logistic regression
- Stability studies
- Partial least squares
- Orthogonal regression
- Poisson regression
- Plots: residual, factorial, contour, surface, etc.
- Stepwise and best subsets
- Response prediction and optimization

Analysis of Variance
- ANOVA
- General linear models

Mixed models
- MANOVA

Multiple comparisons
- Response prediction and optimization
- Test for equal variances
- Plots: residual, factorial, contour, surface, etc.
- Analysis of means

Quality Tools
- Run chart
- Pareto chart
- Cause-and-effect diagram
- Attributes control charts: P, NP, C, U, Laney P’ and U’
- Time-weighted control charts: MA, EWMA, CUSUM
- Multivariate control charts: T^2, generalized variance, MEWMA
- Rare events charts: G and T
- Historical/shift-in-process charts
- Box-Cox and Johnson transformations
- Individual distribution identification
- Process capability: normal, non-normal, attribute, batch
- Process Capability Sixpack™

Tolerance intervals
- Acceptance sampling and OC curves

Measurement Systems Analysis
- Data collection worksheets
- Gage R&R Crossed
- Gage R&R Nested
- Gage R&R Expanded
- Gage run chart
- Gage linearity and bias
- Type 1 Gage Study
- Attribute Gage Study
- Attribute agreement analysis

Design of Experiments
- Definitive screening designs
- Plackett-Burman designs
- Two-level factorial designs
Split-plot designs

**General factorial designs**
- Mixture designs
- D-optimal and distance-based designs
- Taguchi designs
- User-specified designs
- Analyze variability for factorial designs
- Botched runs

**Effects plots: normal, half-normal, Pareto**
- Response prediction and optimization
- Plots: residual, main effects, interaction, cube, contour, surface, wireframe

**Reliability/Survival**

**Parametric and nonparametric distribution analysis**
- Goodness-of-fit measures
- Exact failure, right-, left-, and interval-censored data
- Accelerated life testing
- Regression with life data
- Test plans
- Threshold parameter distributions
- Repairable systems
- Multiple failure modes
- Probit analysis
- Weibayes analysis
- Plots: distribution, probability, hazard, survival
- Warranty analysis

**Power and Sample Size**
- Sample size for estimation
- **Sample size for tolerance intervals**
  - One-sample Z, one- and two-sample t
  - Paired t
  - One and two proportions
  - One- and two-sample Poisson rates
  - One and two variances
  - Equivalence tests
  - One-Way ANOVA
  - Two-level, Plackett-Burman and general full factorial designs
  - Power curves

**Multivariate**
- Principal components analysis
- Factor analysis
- Discriminant analysis
- Cluster analysis
- Correspondence analysis
- Item analysis and Cronbach's alpha

**Time Series and Forecasting**
- Time series plots
- Trend analysis
- Decomposition
- Moving average
- Exponential smoothing
- Winters’ method
- Auto-, partial auto-, and cross correlation functions
- ARIMA

**Nonparametrics**
- Sign test
- Wilcoxon test
- Mann-Whitney test
- Kruskal-Wallis test
- Mood’s median test
- Friedman test
- Runs test

**Equivalence Tests**
- One- and two-sample, paired
- 2x2 crossover design

**Tables**
- Chi-square, Fisher’s exact, and other tests
- Chi-square goodness-of-fit test
- Tally and cross tabulation

**Simulations and Distributions**
- Random number generator
- Probability density, cumulative distribution, and inverse cumulative distribution functions
- Random sampling

**Macros and Customization**
- Customizable menus and toolbars
- Extensive preferences and user profiles
- Powerful scripting capabilities

= New or Improved