

New in Minitab® 20.1 & 20.2. & 20.3



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Overview key changes introduced since Minitab v20:

▶ Interface Improvements

- Multi-Select in Navigator
- Model selection for Classification and Regression Trees

▶ Statistical Methods

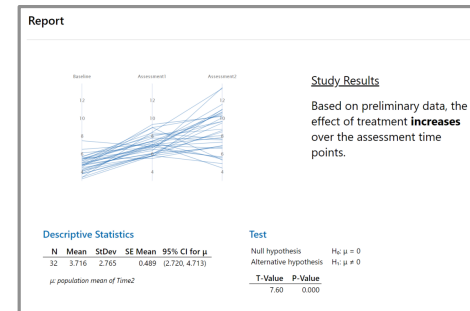
- Model Validation for Binary Logistic Regression and Poisson Regression

▶ Visualisations

- Update: Variability Chart
- New: Parallel Coordinates Plot
- New: Binned Scatterplot
- New: Heat Map

▶ New Addition

- Reports with live-linked data summaries and plots, ability to add annotations



▶ Accessibility

- Platform extension - Minitab Statistical Software now available on the cloud via new web application

▶ New Graph Builder suite

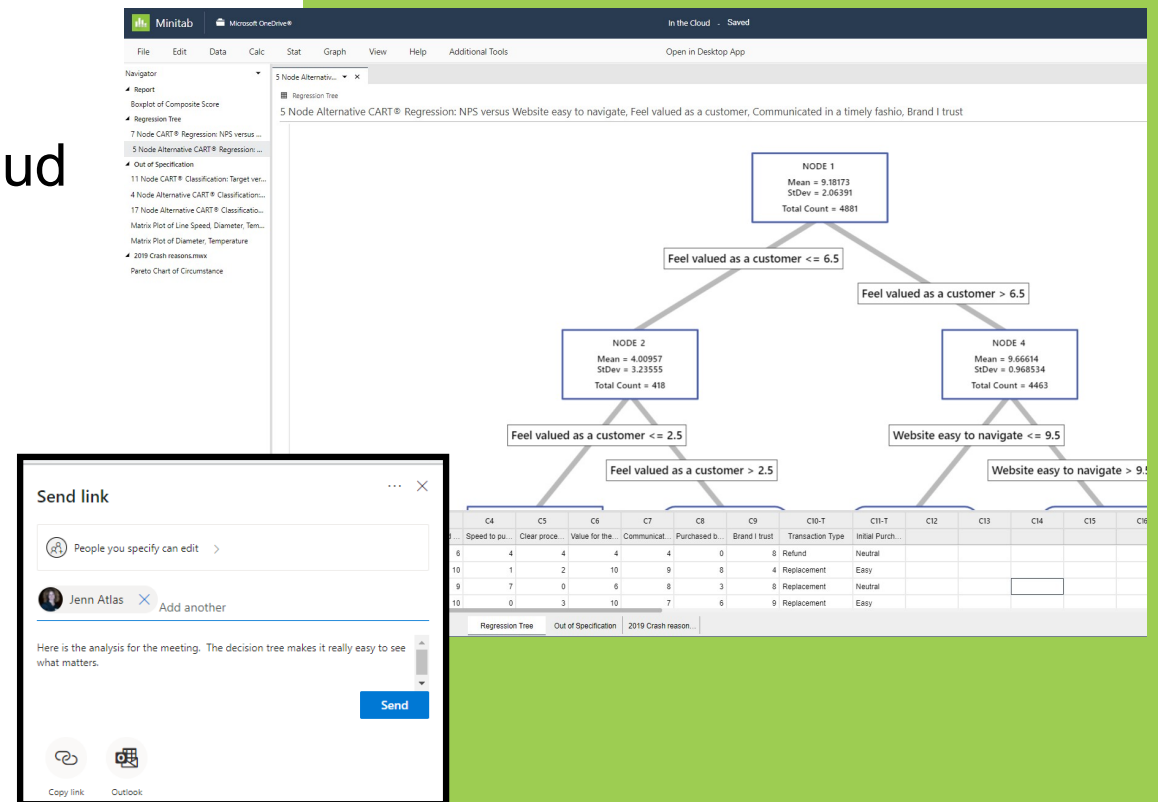
▶ Optional Predictive Analytics Modul



Minitab®

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- Data Access and store from Google Drive™, Microsoft OneDrive® or local files
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Update: Report

Addition:

A Report within a Minitab project.

User Benefit:

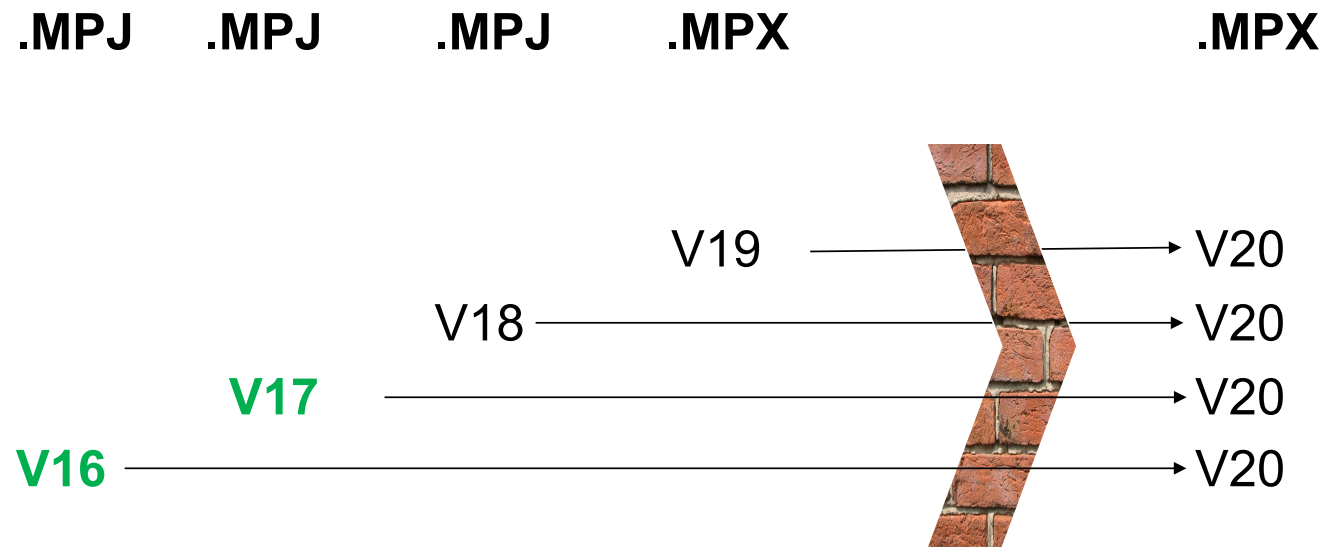
Create and view reports directly within your Minitab Project file, making it easy to organise results. Reports are customisable and support the aggregation and curation of live-linked Minitab tables and graphs. Users can also add annotations to a Report.

Summary:

Reports can be easily created within Minitab projects and are easily discovered in the Navigator. With a single click, users can send to Microsoft Word, Microsoft PowerPoint, Companion by Minitab or Minitab Workspace

The screenshot displays the Minitab software interface. The main window shows a report titled "Report" containing a line graph with three data points: "Baseline", "Assessment1", and "Assessment2". The y-axis ranges from 4 to 12. The graph shows multiple lines representing individual data points, with a general upward trend from Baseline to Assessment2. To the right of the graph, the text "Study Results" is displayed, followed by the sentence: "Based on preliminary data, the effect of treatment **increases** over the assessment time points." Below the graph, a context menu is open, listing options such as "Send to Microsoft Word", "Send to Microsoft PowerPoint", "Send to Companion", "Send to Minitab Workspace", "Send to Report", "Copy Graph", "Reset to Default Size", "Save Graph As...", and "Print...". The "Send to Report" option is highlighted.

Compatibility of project files:



* Migration note: On the update path graphics objects loose connection to data, also ReportPad from V18-V16 is not converted into V20 files. ADDITIVE offers migration support and consulting up to complete migration from any of your old Minitab projects. Please contact your account manager.

Interface Improvement: Multi-Select in the Navigator

Improvement:

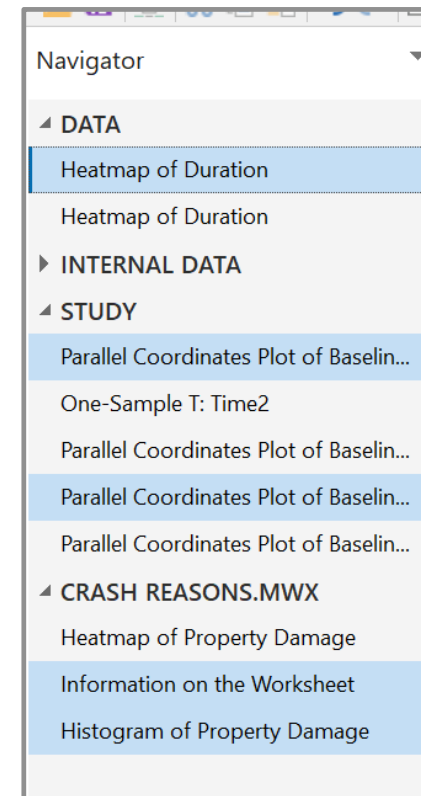
Ability to select multiple items from the Navigator that was introduced in Minitab 19.1.

User Benefit:

Selecting a range of output makes it easier for users who need to remove or send output from the Navigator.

Summary:

One of the top feedback items from users, this improvement makes sending or removing multiple items from the navigator much easier.



Improved Model Selection for Classification and Regression Trees

Improvement:

When evaluating alternate models, users now have an all-in-one view of the decision tree, scree plot and node details.

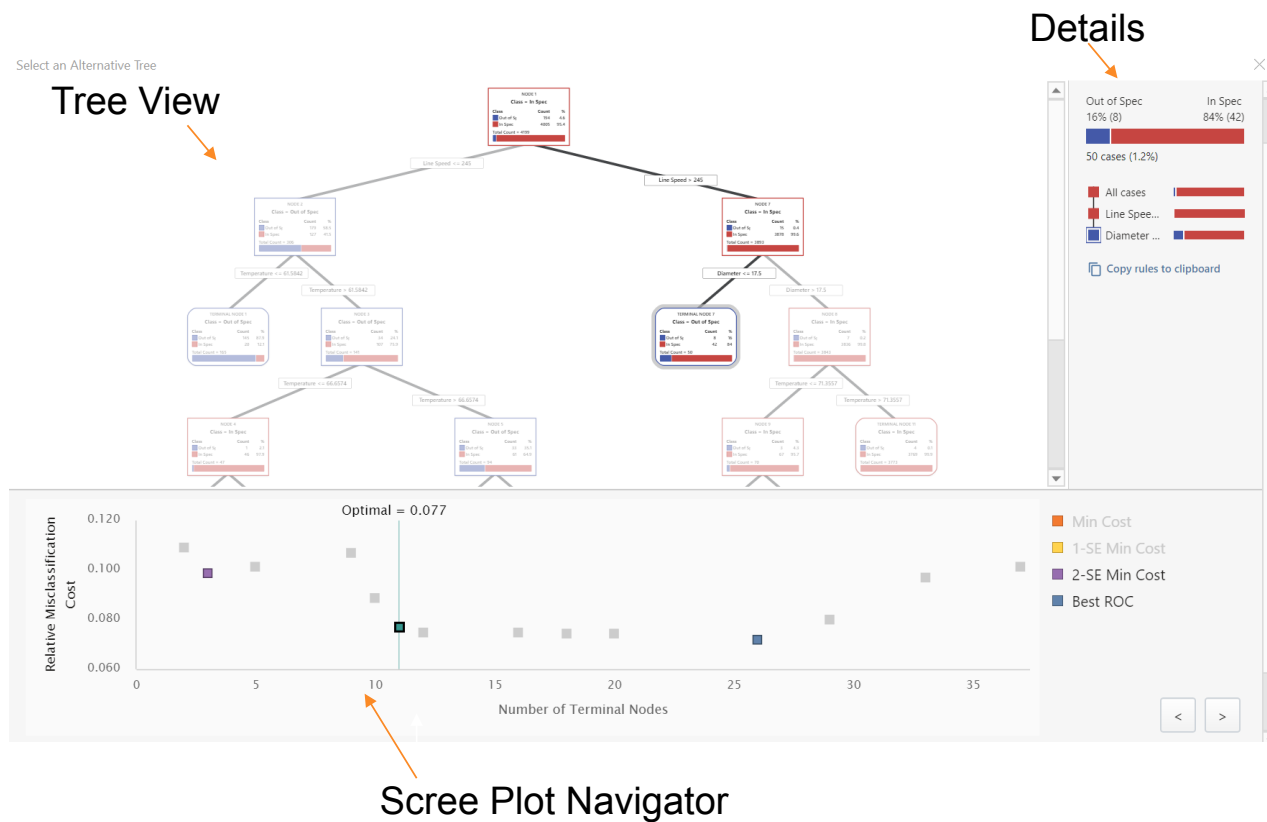
User Benefit:

Users can see the decision tree, model and node details in a single view, making alternative model selection easier than ever.

Select an Alternative Tree...

Summary:

When users choose to view an alternative tree, a single view provides them with detailed information for all possible models.



Model Validation in Binary Logistic Regression and Poisson Regression

Improvement:

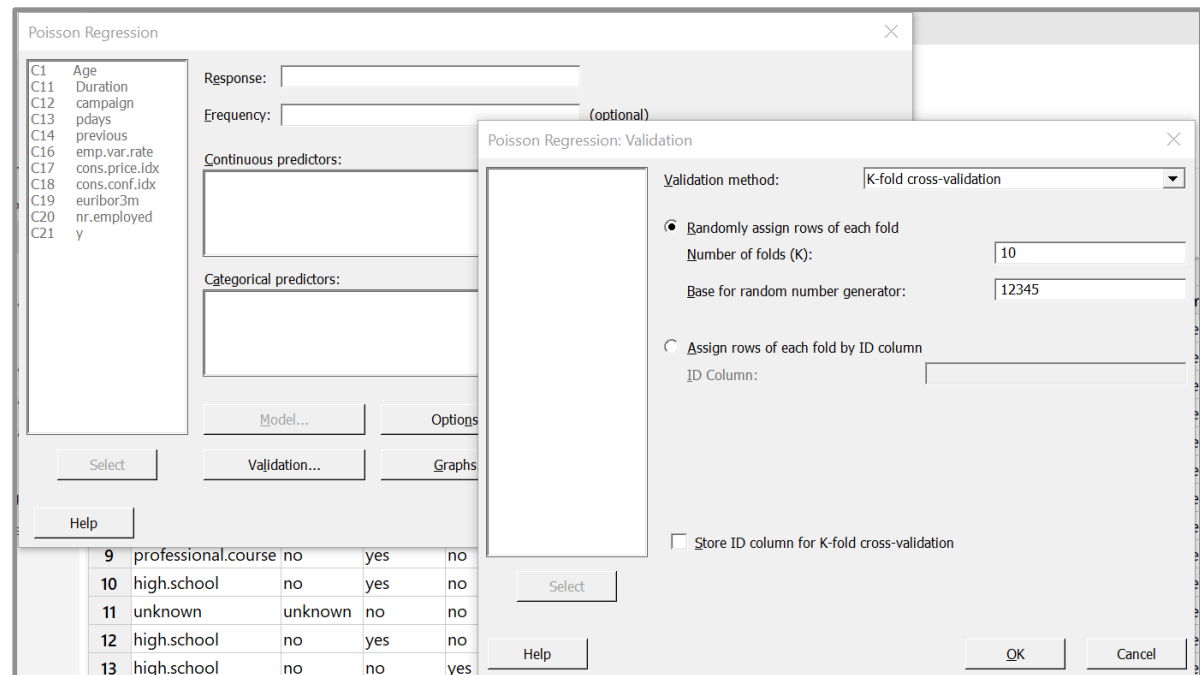
Model validation is now available in Binary Logistic and Poisson Regression.

User Benefit:

Validation is the process of evaluating a trained model on a test data set. This feature makes it easier for users to create useful models.

Summary:

Validation prevents model overfitting, which is an important aspect in machine learning. This feature is now available in the Predictive Analytics menu and within Stat-Regression, Stat-Binary Logistic Regression and Stat-Poisson Regression



Visualisations: Variability Chart

Improvement:

Two improvements are added to the chart that was introduced in Minitab 19.2:

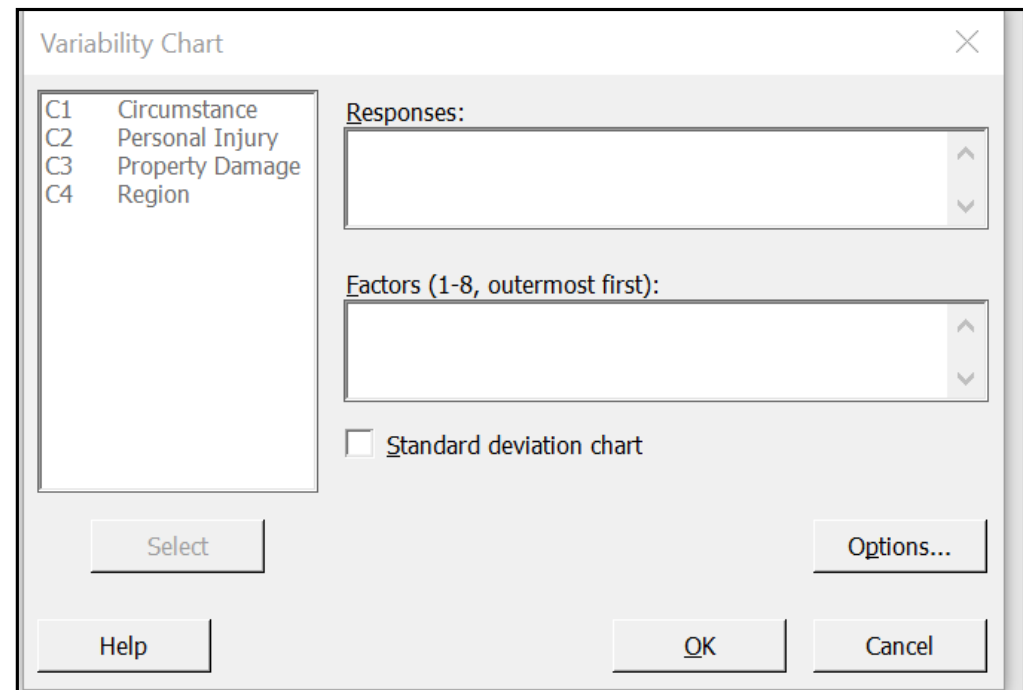
1. The ability to specify multiple response variables for a given set of factors – this results in multiple graphs, one for each response.
2. The ability to brush individual observations.

User Benefit:

It is easy to create multiple variability charts with a single click. Also, exploring data is easier with the added ability to brush individual observations.

Summary:

The Variability chart dialog can now support multiple responses, and brushing points is available when interacting with the graph.



New Visualisations: Parallel Coordinates Plot

Addition:

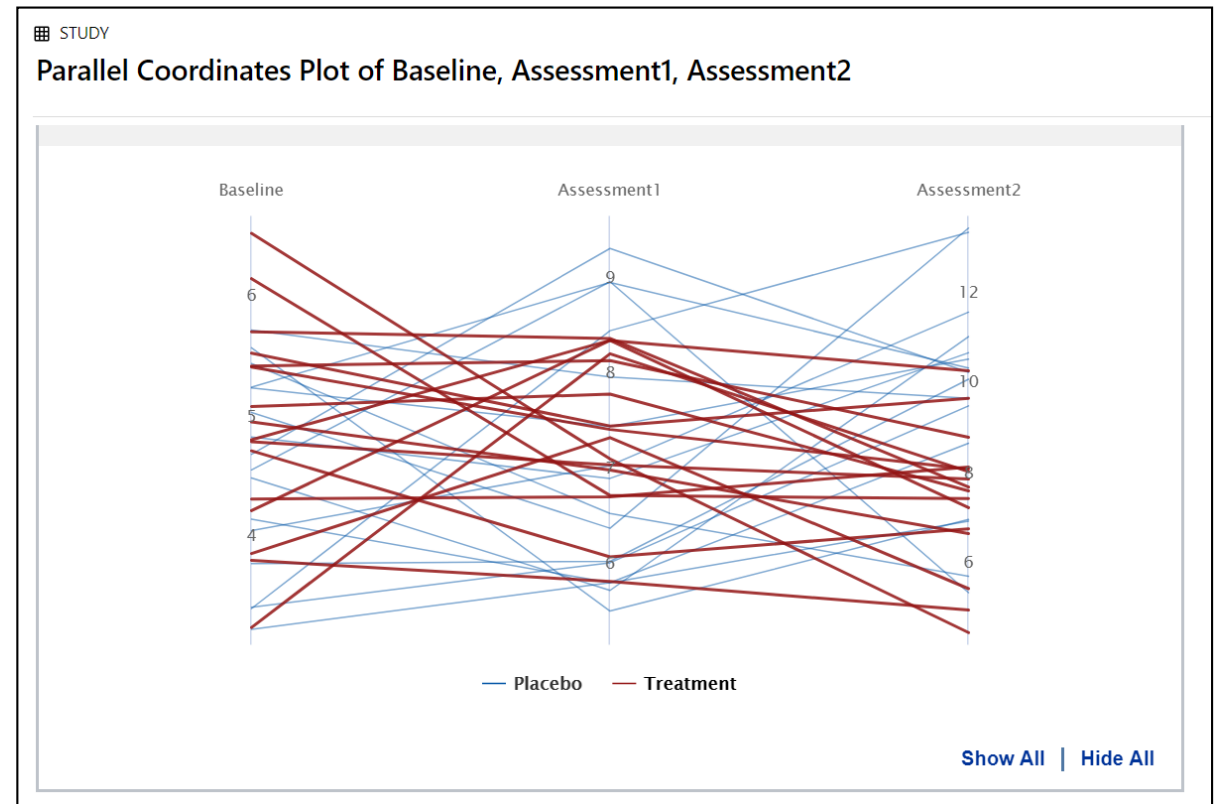
A parallel coordinates plot is a graph that displays multivariate numerical data, making it easy to visualise multiple dimensions.

User Benefit:

Parallel plots represent high dimensional data as a 2-dimensional visualisation. Data is represented in the form of a line making it easy to visualise trends.

Summary:

The parallel coordinates plot is an efficient way to visualise multidimensional and multivariate data.



New Visualisations: Binned Scatterplot

Addition:

A binned scatterplot is a visual to display the relationship between two continuous variables when the dataset contains many observations. The gradient can be defined by observation frequency or by the mean of another variable.

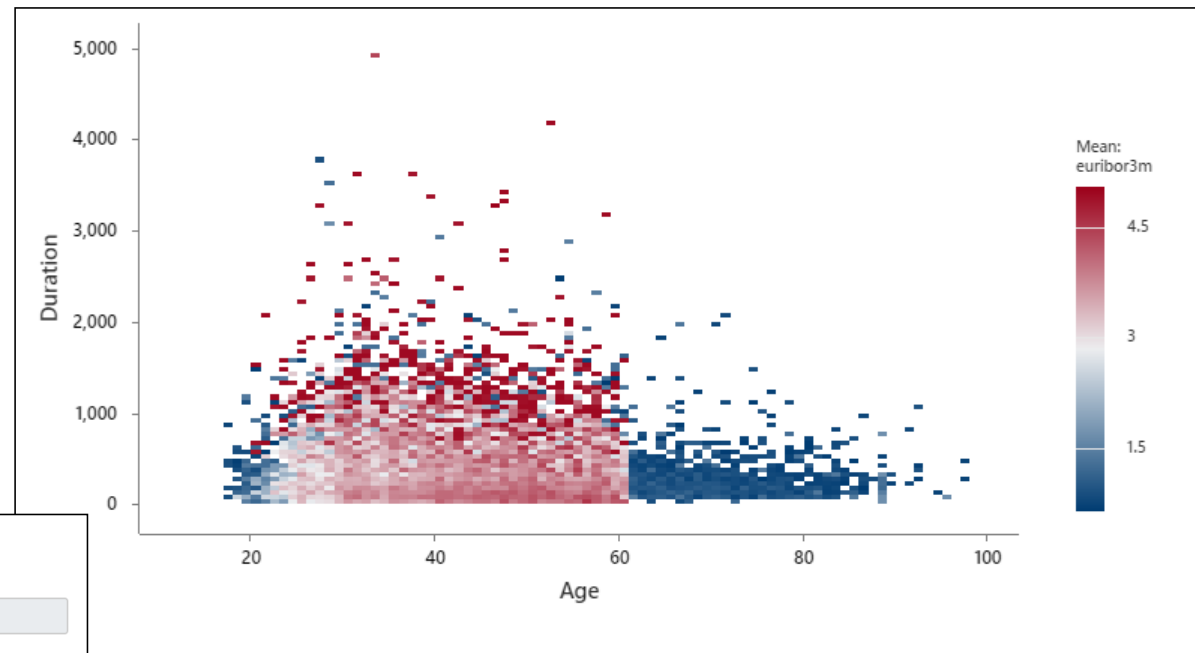
User Benefit:

Using a gradient to differentiate the density of data on a scatterplot makes it easier to communicate information to users. Users can also define the gradient as an average of another variable, providing additional flexibility for the visualisation.

Gradient defined by:

Frequency of binned data

Mean of variable:



Summary:

Binned scatterplots create meaningful graphics when displaying information for large data sets.

New Visualisations: Heat Map

Addition:

A heatmap is a visual to display the impact of multiple categorical variables on a metric. The multiple categorical variables are displayed in a table layout with a gradient to display a function of a metric (e.g., percent defects, average customer satisfaction rating).

User Benefit:

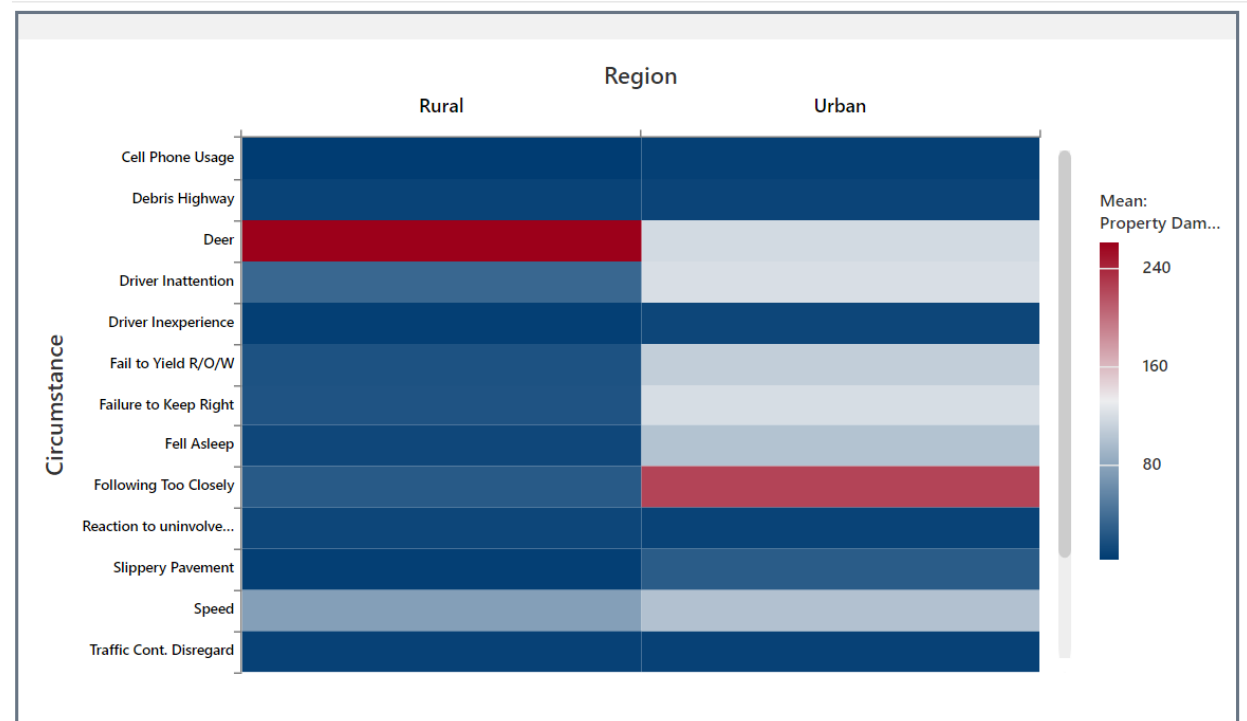
Heatmaps identify areas of interest. They can quickly uncover scenarios that lead to a high or low values.

Summary:

Heatmaps are located in the Graph menu, between the Bar and Pie Charts. When you have a large number of factor levels, they may be easier than a bar chart to communicate areas that are different.

CRASH REASONS.MWX

Heatmap of Property Damage



New in Minitab 20.2

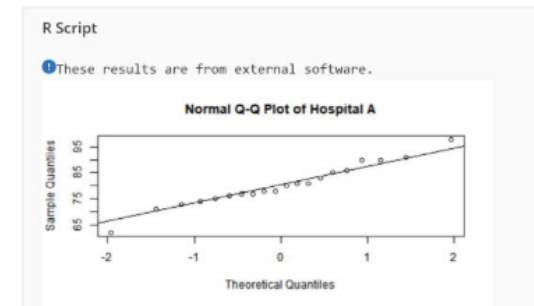
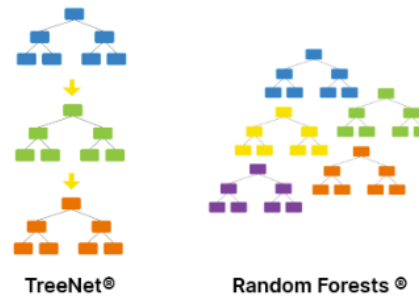
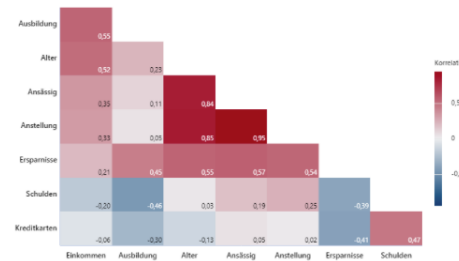
* **Correlogramm** for visual comparison of Pearson correlation coefficients between each pair of variables

* Enhancements for variable weighting in CART® classification and CART® regression

* Enhancements for **scatter plot**, **heat map** and **parallel coordinate plot**

* **R-Integration**

* Optional chargeable **Predictive Analytics Module** including TreeNet® classification, TreeNet® regression, Random Forests® classification and Random Forests® regression



New in Minitab 20.3

New "Graph Builder Suite" in Minitab 20.3

With its interactive and easy-to-browse gallery, the new Graph Builder in Minitab 20.3 allows users to move seamlessly from one graph to the next, using the same data each time.



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