Creating 1D-Diagrams in VirtualLab Fusion
Abstract

This use case demonstrates how to configure 1D diagrams in a way that meets the demands of an appealing presentation. VirtualLab Fusion enables the users to tune various ranging from axis names and units to interpolation and color schemes. In other words, all settings are configured on the GUI level which allows users without programming experience to generate 1D plot with arbitrary settings.
Window Size

The window size can be defined by just dragging one of the corners as well as by entering the desired size into the Property Browser.
Increasing the font size improves the readability of the axis labels and the axis tick labels.
Coordinate Range

If a certain coordinate range is to be shown, this can be specified via the Property Browser too.
If one were to scale the shown values for better usage of the diagram space, it is recommended to activate the Range Marker first. Followed by that, the user may mark the intended range for rescaling.
• Choosing „Selection Based Scaling“ will lead to a rescaled y-axis of the diagram where the available vertical space is used completely by the selected data range.

• The range marker can then be deactivated.
Number of Axis Ticks

The number of ticks for the y-axis will be increased by setting a higher value for “Minimum Number of Ticks” in the “Data” section of the Property Browser.
Line Thickness and Color

If a different line thickness or line color is desired, it can be changed via the Property Browser as well.
Symbols marking the single data points can be activated too.
The symbols’ color and size can be set to suitable values.
Non-interpolated View

If it is intended that no interpolation be applied between the data points, it can then be easily deactivated.
The view configuration of one diagram can be transferred easily to another one.

While the diagram the settings shall be copied to is activated, “View > Copy View Settings” has to be called.
Copy View Settings II

After selecting the desired diagram from the list, the view configuration is then transferred automatically.
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