

Usage of Plotly package with SPSS Modeler

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Requirements

SPSS Modeler 17.1 with IBM SPSS Modeler - Essentials for R or higher is needed and. R installation is needed in version 3.1.3 for Modeler 17.1 / version 3.2.2 for Modeler 18.

Installation

Close SPSS Modeler. Save the .cfe files in the CDB folder of the IBM SPSS Modeler. The default location of the CDB folder on Windows 7 is "C:\ProgramData\IBM\SPSS\Modeler\17\CDB". If the ProgramData folder is hidden type the path manually.

All needed R packages are downloaded and installed automatically when SPSS stream is launched.

Output

3.0.1 Bar Chart



Dialog Option:

- \bullet $Ploted\ column$ Ploted column. Must be categorical.
- Overlay column Overlay column. Must be categorical. (OPTIONAL)
- Display statistics for columns Display statistics of selected columns over each bar. Must be continuous. (OPTIONAL)
- ullet Label for x-axis Type label for x axis.
- Label for y-axis Type label for y axis.



Figure 3.1: Dialog option of Bar Chart.

Lets see an example of Bar Chart output.

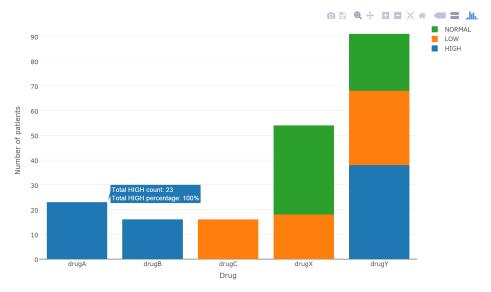


Figure 3.2: Bar Chart generated by Plotly.

3.0.2 Histogram Chart



Dialog Option:

- Ploted column Ploted column. Must be continuous.
- Overlay column Overlay column. Must be categorical. (OPTIONAL)
- $\bullet \ \ Label \ for \ x-axis$ Type label for x axis.
- Label for y-axis Type label for y axis.
- ullet Binning type For Auto option algorithm automatically selects optimal number of bins. For option Manual must be set Number of bins.
- The way of display histogram This option is used only when Overlay column is set. Two visualizations are availabe Stack and Overlay.
- Opacity of histogram Sets opacity of histogram. Can be from 0 to 1.

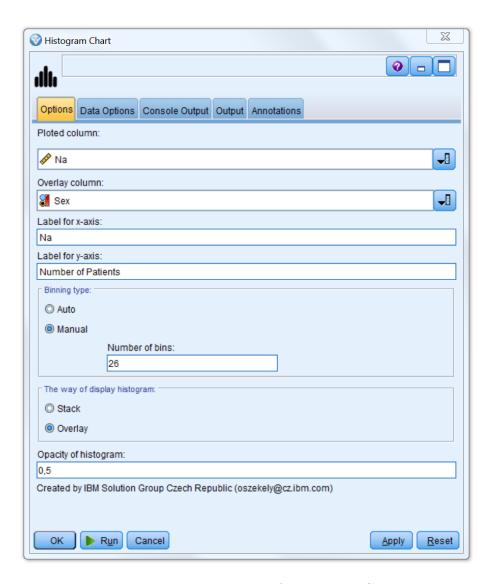


Figure 3.3: Dialog option of Histogram Chart.

Lets see an example of Histogram Chart output.

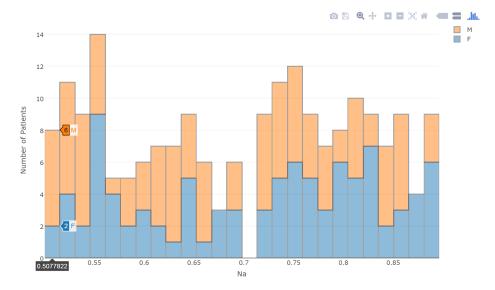


Figure 3.4: Bar Chart generated by Plotly.

3.0.3 Scatter Plot Chart



Dialog Option:

- Define ploted column on x-axis Ploted column on x axis. Can be continuous or categorical.
- Define ploted column on y-axis Ploted column on y axis. Can be continuous or categorical.
- Overlay column Overlay column. Must be categorical. (OPTIONAL)
- *Printed attributes* Select fields that will be displayed for each ploted point. (OPTIONAL)
- \bullet Size of marks Select field which values will describe size of points . (OPTIONAL)
- Label for x-axis Type label for x axis.
- Label for y-axis Type label for y axis.



Figure 3.5: Dialog option of Scatter Plot Chart.

Lets see an example of Scatter Plot Chart output.

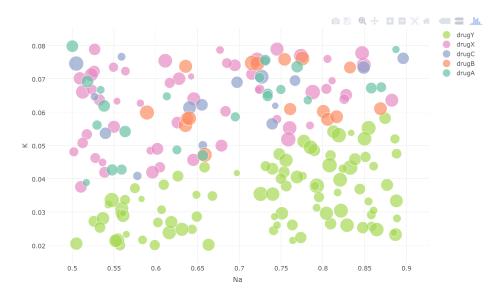


Figure 3.6: Scatter Plot Chart generated by Plotly.

3.0.4 Plotly bar

Each plot genereted by **Plotly** has a special bar.



Figure 3.7: Plotly bar.

This bar allows us to save chart as PNG, zooming, move in chart, specify display option.

Contact

If there are any problems, or do you have any more questions please contact Ondrej Szekely at oszekely@cz.ibm.com