Border Plots

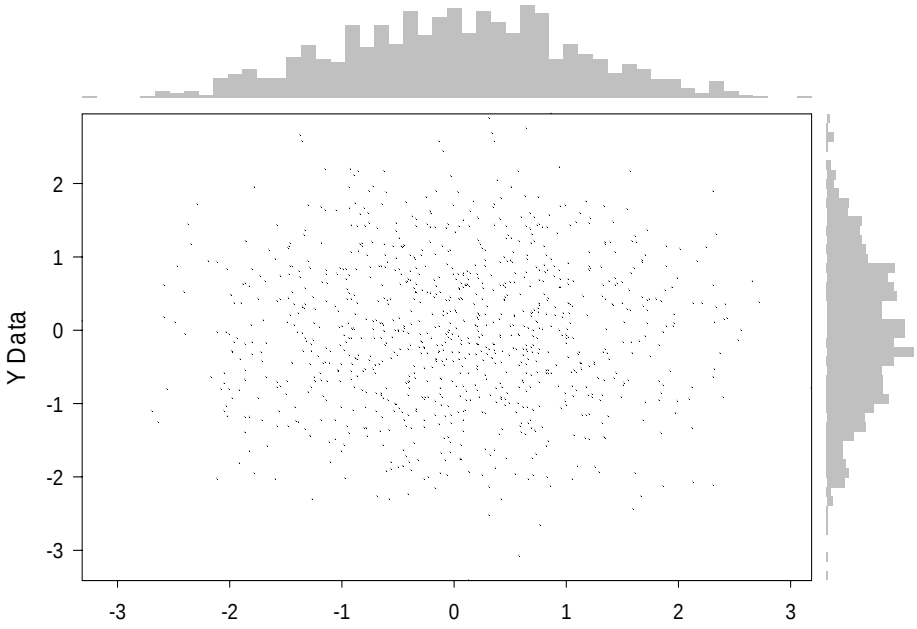
a) Border Plot Sample Graph
b) Border Plot Macro

Border plots show the individual distribution of variables along the axes of a 2D graph.
There is a sample graph in the SigmaPlot Samples.JNB notebook file, and there is a Border Plots macro in the SigmaPlot macro library.

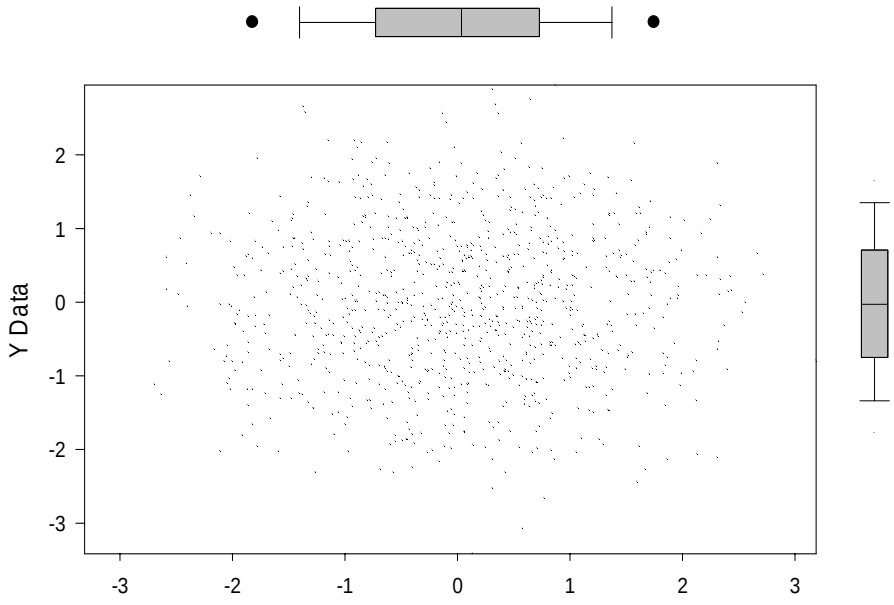
a) Border Plot Sample Graph

In the SigmaPlot Samples.JNB notebook file, you find a graph page with these 2 border plots on a graph page in the “Example 18: Border Plots” section.

Example 1: Border Histograms



Example 2: Border Boxplots



Each example consists of 3 graphs, with 1 plot per graph

- the main graph, a 2D scatter plot,
  showing the bivariate XY cloud of data points;

- the horizontal axis graph, with a horizontal bar or box plot,
  showing the univariate X distribution;

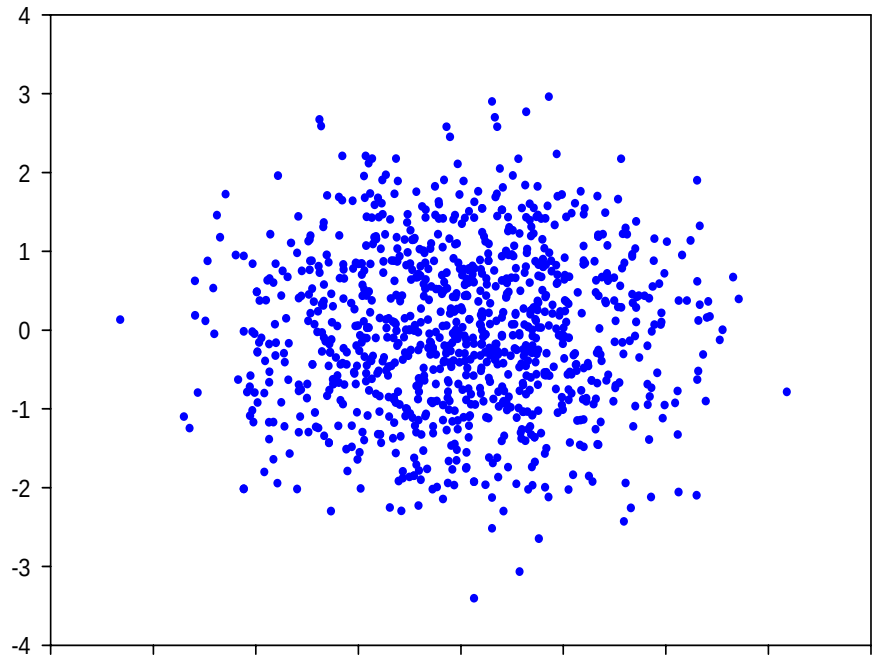
- the vertical axis graph, with a vertical bar or box plot,
  showing the univariate Y distribution;

Within the 2 axis graphs, all axes, titles, legends etc. are set to “none”.
Each graph can be modified and customized (colors etc.) like any other SigmaPlot graph.

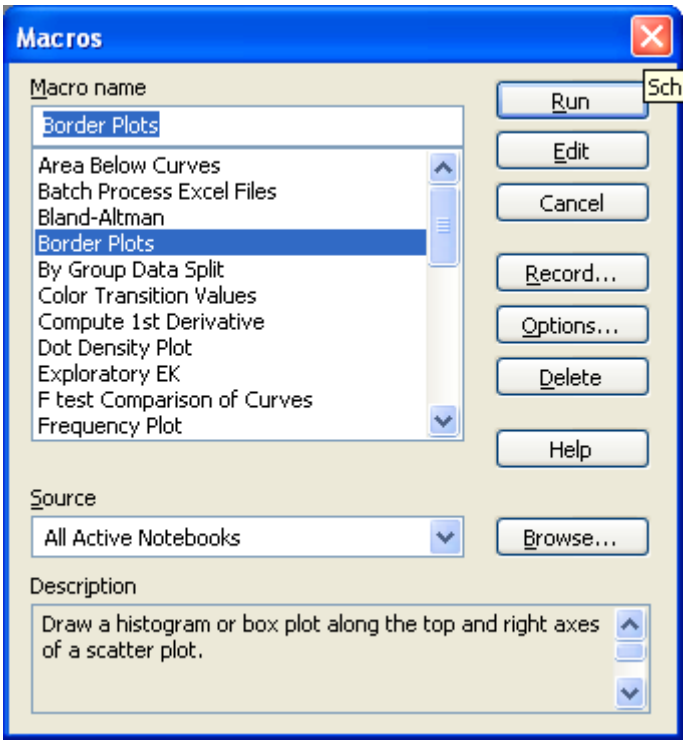
b) Border Plot Macro

In the SigmaPlot macro library, there is a macro which runs all necessary steps for you.

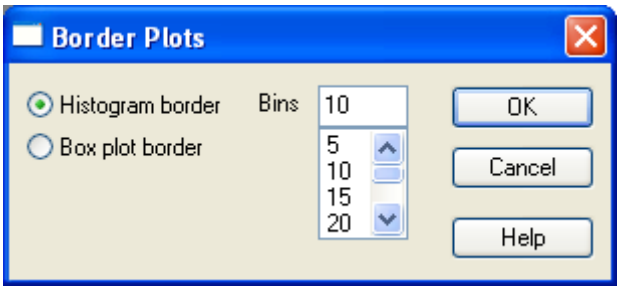
Start with a 2D scatter plot.

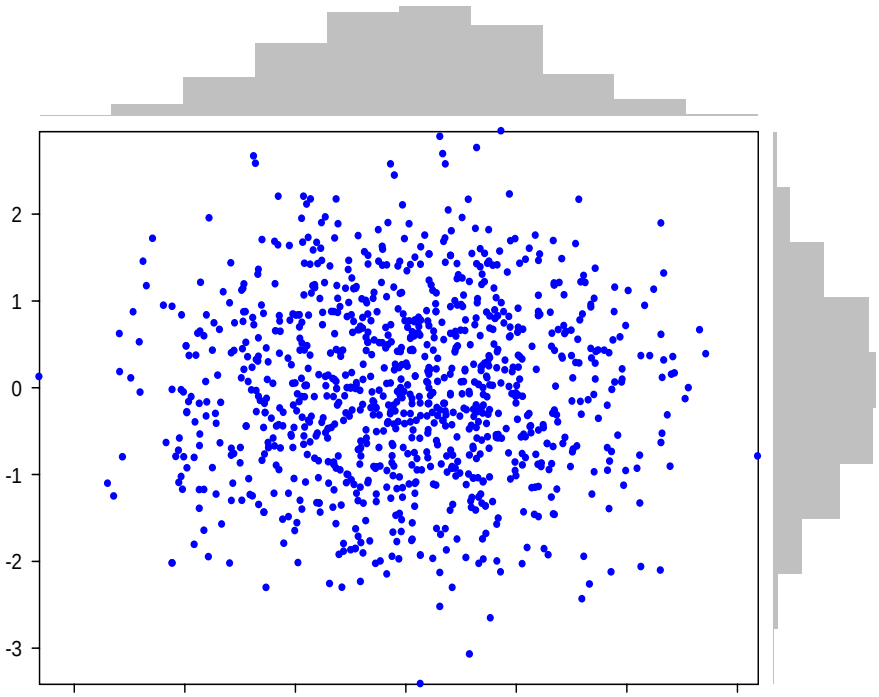


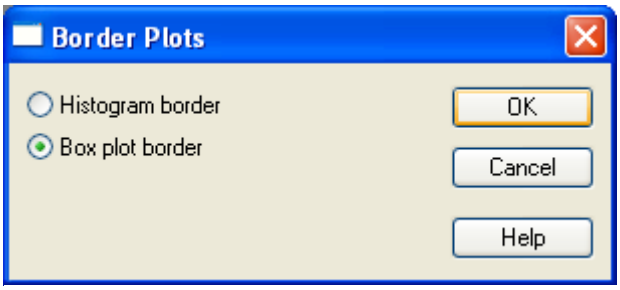
From the ToolBox ribbon, select Macros > Border Plots, and click on Run.

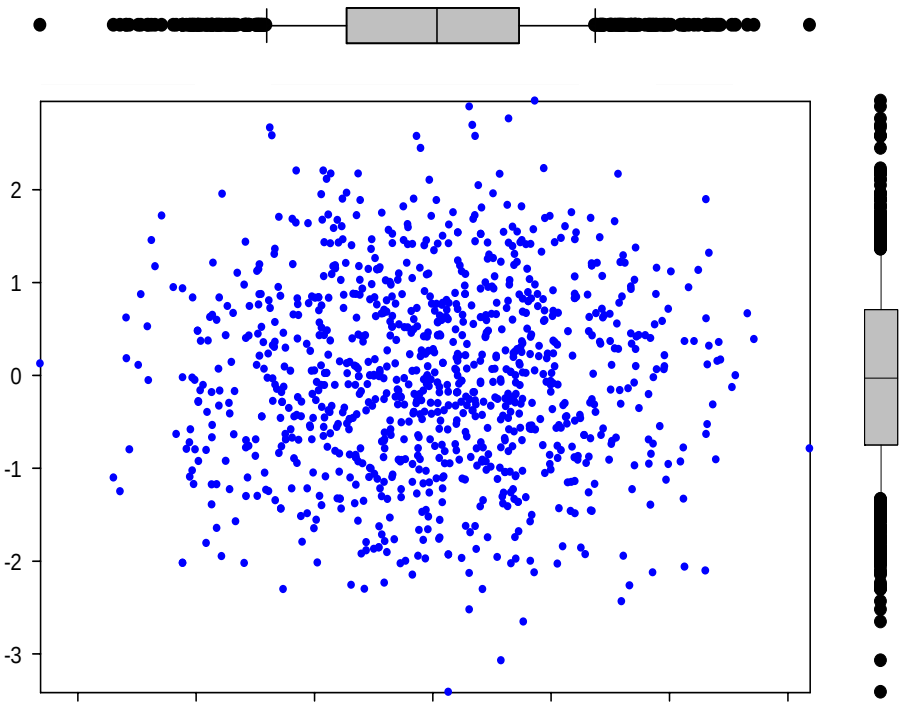


The macro presents a dialog to choose between Histogram or Box plots.
For Histogram, you can select or enter the number of bins = intervals.









Clicking on Help in the macro dialog brings up this description:

Border Plots

This macro draws a histogram or box plot along the top and right axes of a scatter plot. The border plots are located .5 inches from each axis. When using histogram border plots, specify the number of bins displayed.

Restriction

- A graph window containing a scatter plot must be open and in focus when running the macro. If the current plot is not a scatter plot, the macro can convert the plot to the required form.
- If the plot is an X only or Y only plot, the macro creates one border plot corresponding to the X or Y axis.