

Histograms

A histogram is a plot that summarizes the underlying frequency of a set of data with the variable of interest on one axis and the frequency distribution of that variable in the other axis. In Partek Flow, histogram can be invoked on continuous or categorical variable.

From a data viewer session, click on *New plot > Bar chart* (Figure 1).

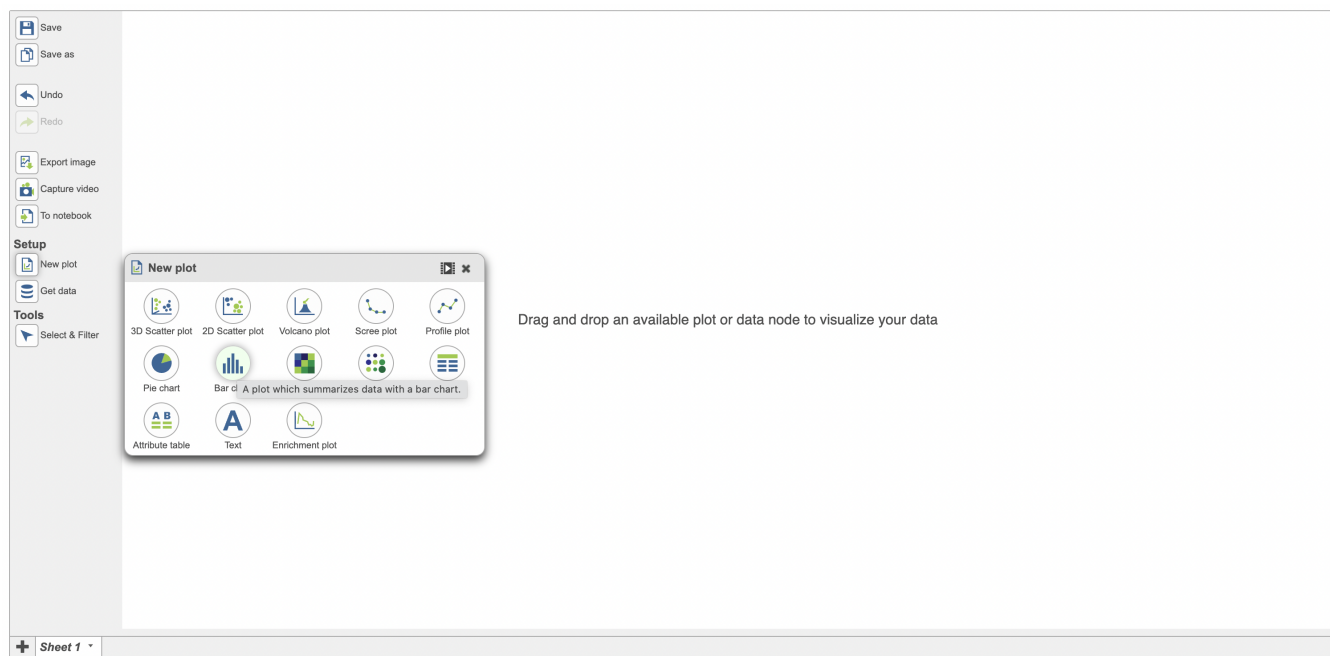


Figure 1. Select the Bar chart option from the New plot menu.

Upon clicking on the *Bar chart* menu, a dialogue opens up with the different data sources that can be displayed on the histogram. Select your data node of interest and the content data (Figure 2).

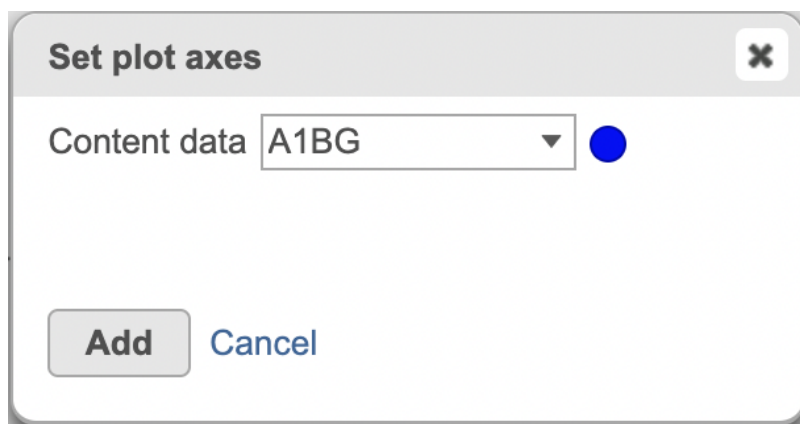


Figure 2. Select the appropriate data node and content data to display on the histogram plot

The first row in the data will be displayed by default in the histogram and in this case, it is the histogram of the expression values for the gene A1BG (Figure 3).

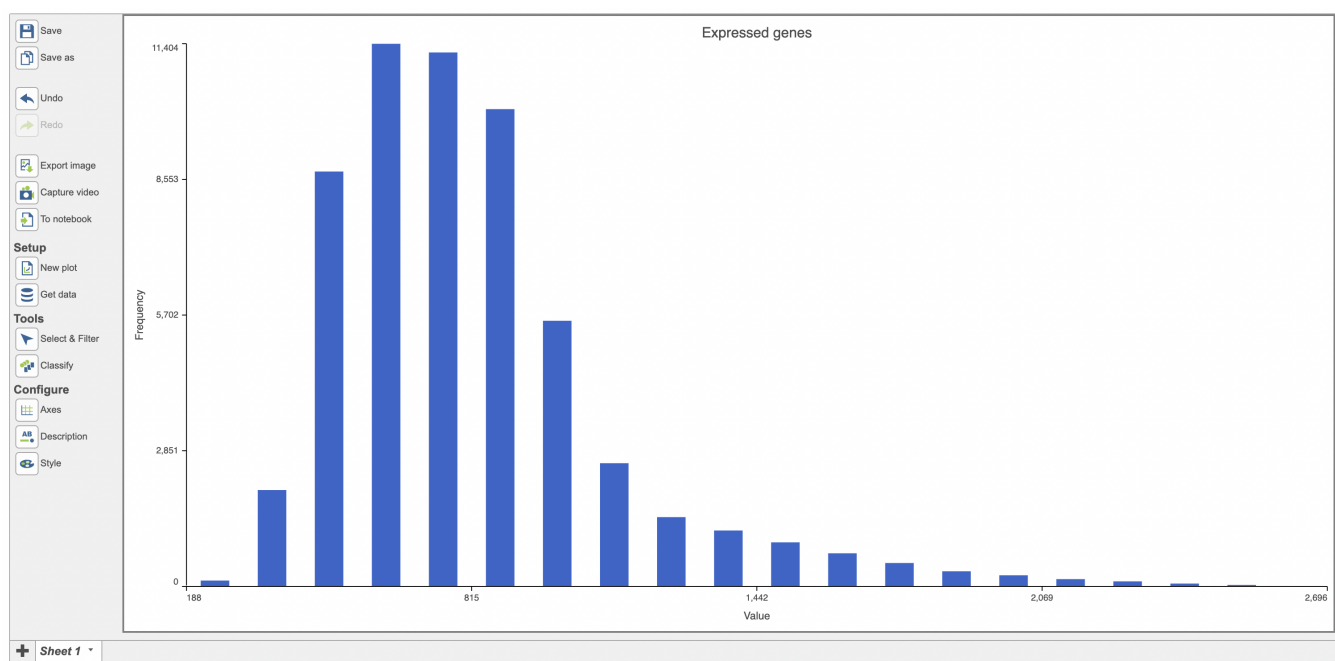


Figure 4. Histogram showing the distribution of expressed genes variable (red rectangle)

Use the "Sort by" function to sort the plot. The default sorting is by Value on the x-axis and this default setting is sorted in ascending order. Users have the option to change that by changing the Default to value or frequency in the sort option (Figure 5)

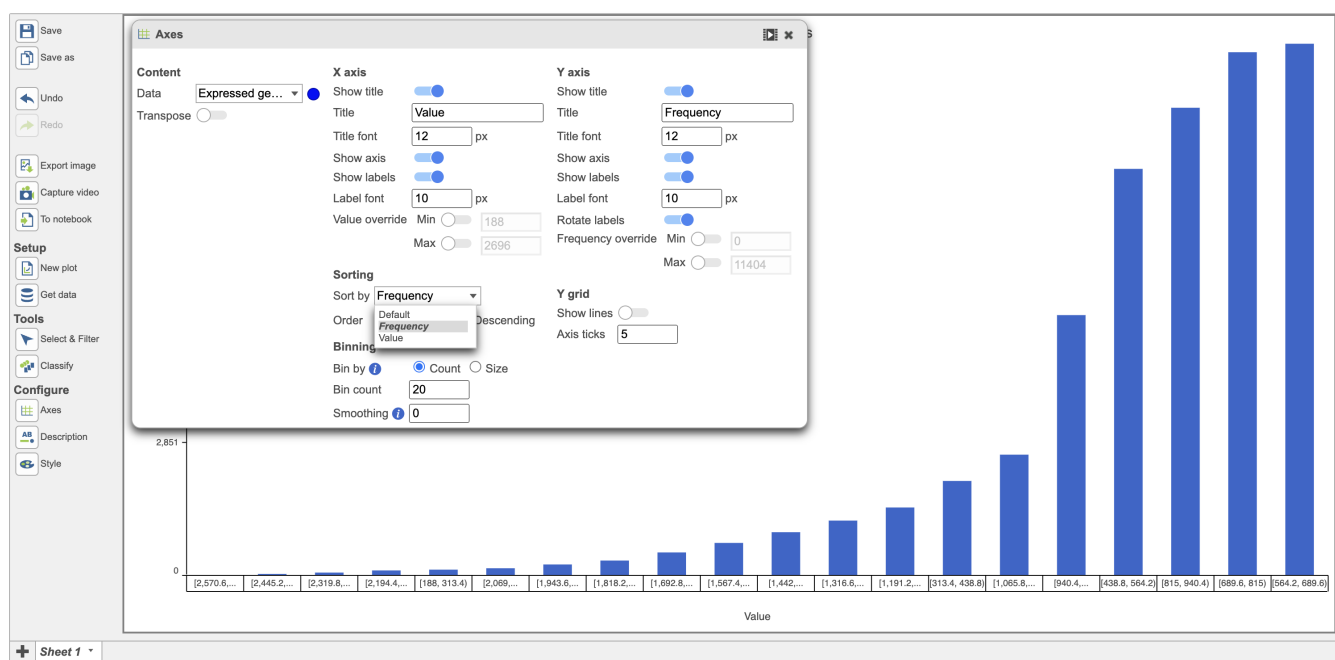


Figure 5. Sort by function can be by Value or Frequency (red)

Users can color the histograms by a categorical attribute using the Color by function (in red below). The bars were colored by the graph-based classifications in the example below (Figure 6).

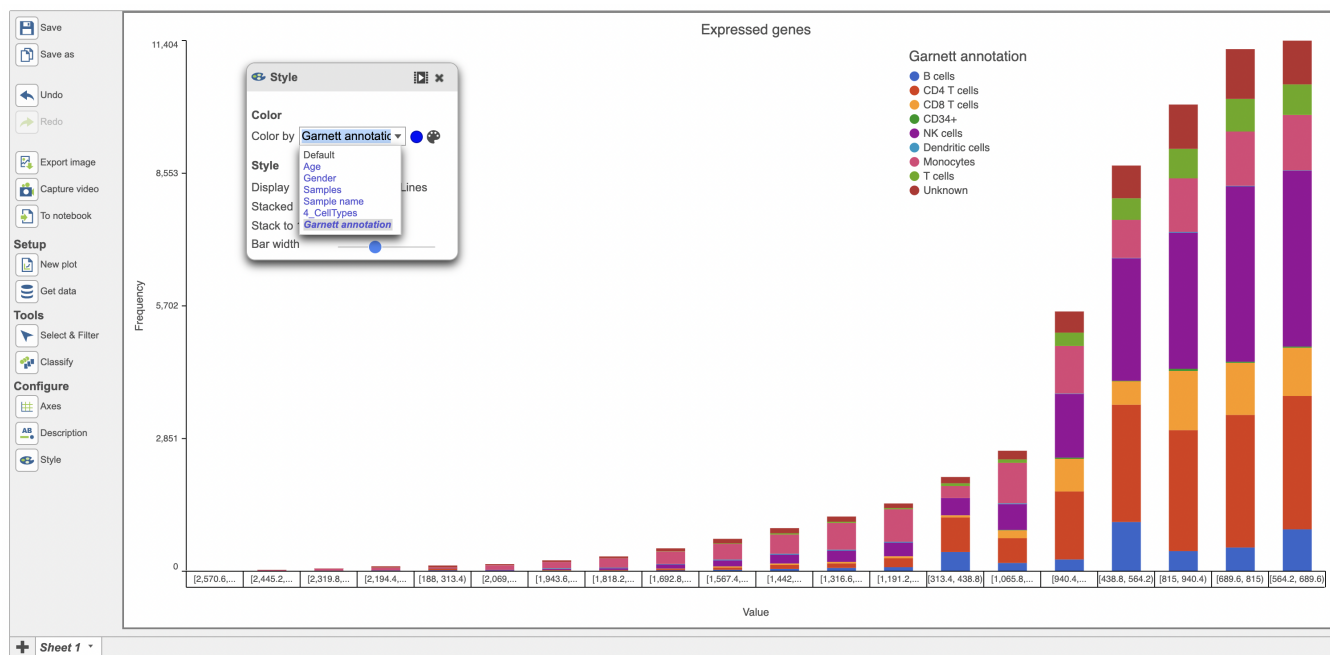


Figure 6. Histogram annotated by automatic classifications

The bars in the histogram above were stacked. They can be unstacked using the *Style* menu as seen below in red (Figure 7).

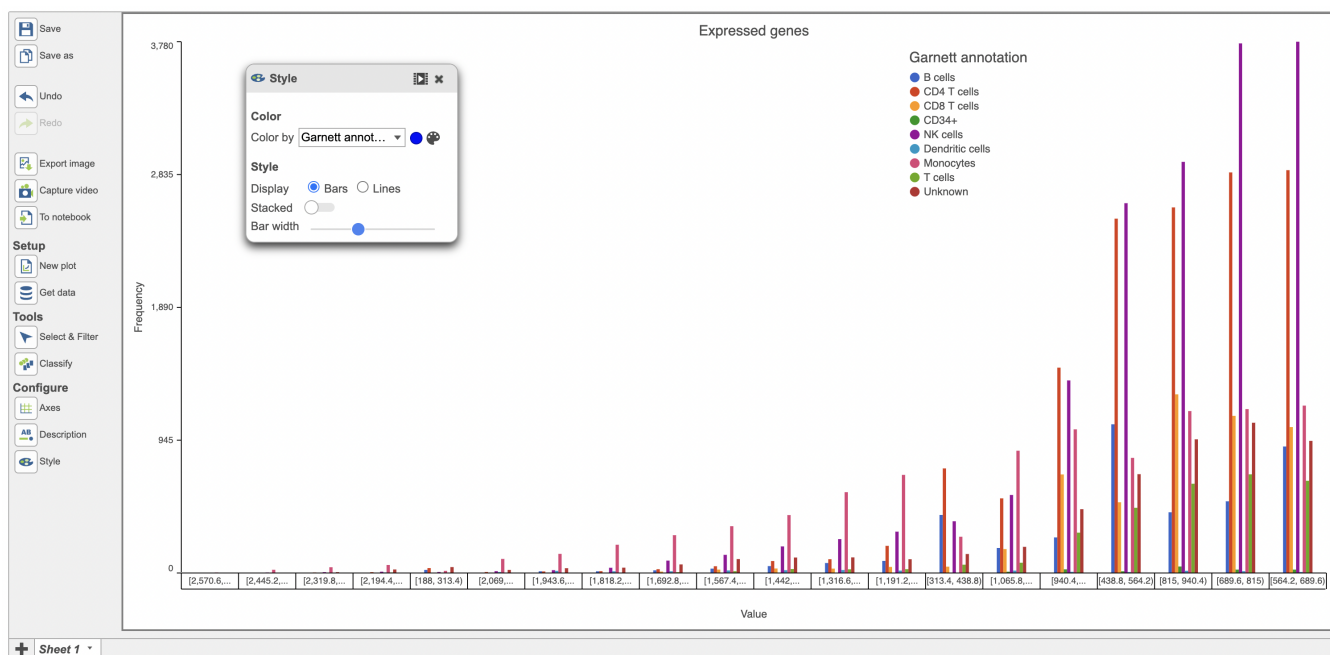


Figure 7. Unstacked bars in the histogram plot

Users also have the option to bin by either Count or Size. When binned by Count, the user specifies the number of bins for the data and the distribution is fit into the specified number of bins. Data below is binned by Count (Figure 8).

Additional Assistance

If you need additional assistance, please visit [our support page](#) to submit a help ticket or find phone numbers for regional support.