

To do overlays in Summit software:

Click on the 'Histogram' button to be sure you are viewing the manager called 'Create Histograms/Plots' in the toolbar on the left side.

The top left dropdown list of this tool defaults to 'Histogram'. Select 'Overlay' from this dropdown list.

Use the X- parameter box to generate an overlay plot the same way you make a histogram by double clicking the parameter to graph. Note that Summit does not generate scatterplot overlays, only histogram overlays.

A new plot will appear on the workspace with the title "Overlay".

Be sure that a standard data plot with the same parameter is already existing on the workspace.

(If you don't have a standard histogram on the workspace, switch the dropdown list on the manager for 'Create Histogram/Plots' to the 'Histogram' choice. Then make a standard plot with the x-parameter identical to the overlay plot).

Click on the upper left corner of the Overlay plot and select "Add Histogram Data". The mouse icon turns into a double line mountain. Click on the standard plot you would like included in the overlay (the standard plot must have the same parameter as the overlay plot). The data will appear with a hashed line fill.

To add another data set to the Overlay, hold and drag a sample number from the 'Database samples' window onto the overlay graph. (If the window with the list of samples is not open, it can easily be opened with F8). Or if you have a standard plot from a different sample visible on the workspace, then you can click on it when the mouse arrow is a double line mountain (which can be obtained again by following the step described in the paragraph above).

When you drag a sample from the 'Database samples' window onto the overlay graph, a standard graph will be displayed on the workspace. If you select that graph and change which sample you are viewing on the 'Database samples' window by double-clicking on a different sample in the list, be aware that the overlay histogram associated with that standard graph will update to house the new sample you selected from the list in the overlay in the stead of the original sample. This is useful to know if you want to change the displayed samples on the overlay or to keep you aware that it is possible to accidentally change the samples in the overlay by viewing other samples in the standard plot.

It is also good to keep in mind that if you have a gate set on the standard histogram associated with the overlay, then the overlay data is also gated data for that sample. If you don't have a gate set on the data and you want one applied, then you set the gate on the standard histogram and the overlay will update the data on that sample. If you want overlay data from all displayed samples to be gated, you must apply the gate to each standard histogram associated with each overlaid sample on the overlay plot. This feature is useful if you wish to overlay data where the two overlay data sets are from the same sample but gated differently.