

The order in which you make these settings is important. If you change an overall setting, any corresponding values for individual datasets are reset to the overall value. So to make the box plot above with light blue overall, and light green for the second dataset, you need to first set the light blue color for the entire trace followed by setting the light green color for the second dataset only. You do not need to close the dialog between these two changes.

Making Each Data Point Look Different

Sometimes the data points in a single dataset come from different sources, or represent different conditions, and you would like to show that in the graph. Using an auxiliary wave you can set the marker color, marker size or marker style for each data point. Controls for these settings appear in the Markers tab of the Modify Box Plot dialog.

For instance, this table shows a fake dataset in the first column and a corresponding three-column wave to specify the marker color for each data point:

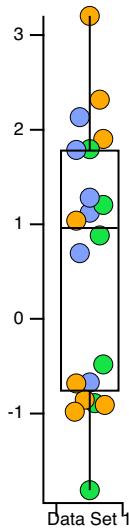
DifferentMarker	BoxPlotColors	BoxPlotColors	BoxPlotColors
Data Set 1	0	1	2
1.12358	32768	40777	65535
-0.670571	32768	40777	65535
0.696167	32768	40777	65535
-0.48165	5545.79	58663.6	17962.9
-0.888855	5546	58664	17963
-1.81002	5546	58664	17963
0.883285	5546	58664	17963
-0.854401	65535	43690	0
-0.908264	65535	43690	0
-0.682166	65535	43690	0
-0.979681	65535	43690	0
1.90386	65535	43690	0
1.79543	5546	58664	17963
1.20602	5546	58664	17963
1.28203	32768	40777	65535
2.13408	32768	40777	65535
1.78677	32768	40777	65535
1.04066	65535	43690	0
3.2046	65535	43690	0
2.31871	65535	43690	0

We made a box plot with that dataset and selected the wave BoxPlotColors to set the marker colors for the data points:

Chapter II-13 — Graphs

<input checked="" type="checkbox"/> Use Color Wave	▼ BoxPlotColors
<input type="checkbox"/> Use Marker Wave	▼ _none_
<input type="checkbox"/> Use Marker Size Wave	▼ _none_

The result is this box plot:



The color wave for this figure was created using the Color Wave Editor package, accessed by choosing Data→Packages→Color Wave Editor.

Similarly, you can set each data point marker to a different size or to a different marker style using a 1D wave with a size or marker number for each data point. For instance:

<input checked="" type="checkbox"/> Use Color Wave	▼ BoxPlotColors
<input checked="" type="checkbox"/> Use Marker Wave	▼ MarkerNumbers
<input checked="" type="checkbox"/> Use Marker Size Wave	▼ MarkerSizes