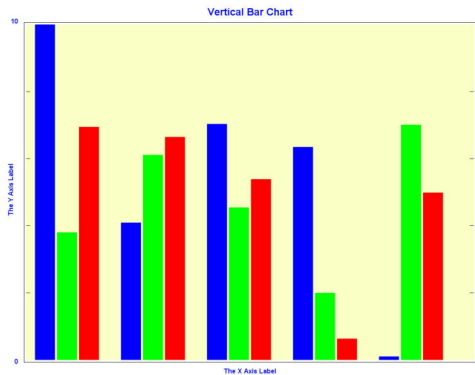


chart Reference

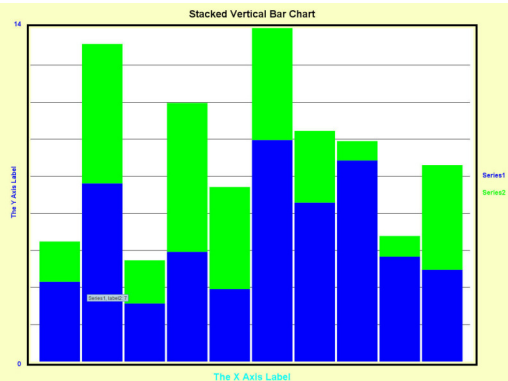
Willis L. Boughton
August 2026

`chart` is a Java package for displaying 2D charts. `chart`'s features include:

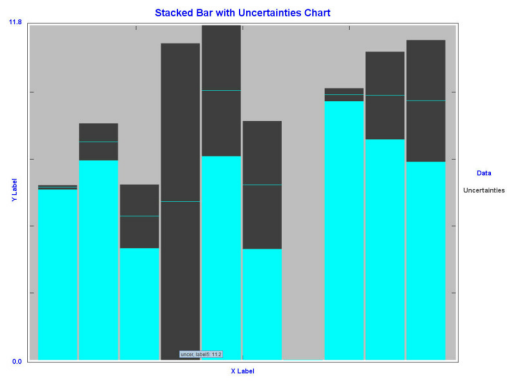
- Five chart types: Unstacked Vertical Bar, Stacked Vertical Bar, Vertical Bar with Uncertainties, Scatter, and Horizontal Overlap (Gantt-like). Table 1 shows examples of these types.
- Multiple data series on a chart
- Selectable ordering of bars and data points
- Customizable colors for bars and data points
- Customizable vertical, horizontal, and slope/intercept lines
- Customizable axes and tick markers
- Customizable data point connection lines on scatter charts
- Customizable title and legend
- Customizable hover text for bars and data points
- Vertical uncertainty bars on scatter chart data points
- Serializable data series
- Serializable chart appearance separate from data (appearance "templates")
- Serializable chart with data (write and read complete charts, with data)
- A standalone program for reading and displaying serialized charts.

Table 1. Chart Types	
Type	Example
Unstacked Vertical Bar	

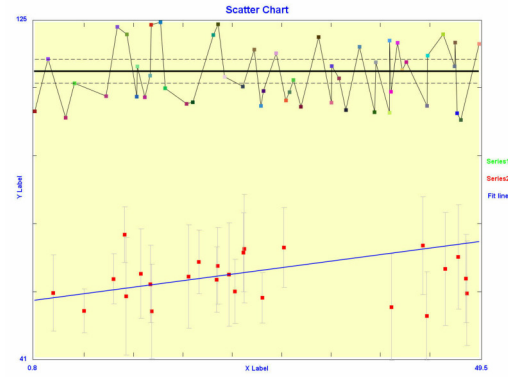
Stacked Vertical Bar



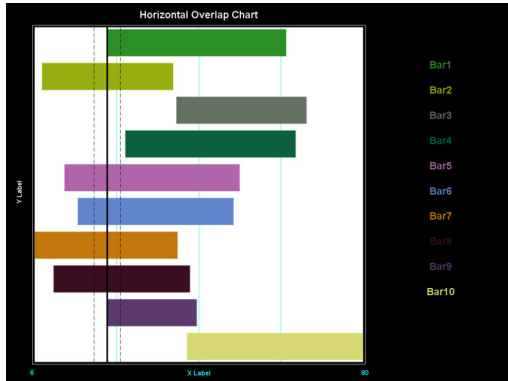
Vertical Bar with Uncertanties



Scatter



Horizontal Overlap
(Gantt-like)



License

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Distribution

`chart` is distributed in Zip file `chart-distrib.zip` containing the following:

- JAR file `chart.jar`, a non-executable JAR which contains all `chart` class files. `chart.jar` must be placed in the Java classpath.
- Package `chart.demo`, which contains a documented, demonstration source code file for each type of chart plus a source code file that demonstrates saving and reading charts. The demonstration files demonstrate many but not all features of `chart`.

javadoc for the `chart` API are at <http://www.bluemontsw.com/chart/api/>.

Getting Started

To get started with `chart`:

- Study this document.
- Study and run the demonstration programs and study the javadoc.

Class Summary

Table 2 summarizes `chart` classes. Italics denote an abstract class. See the `chart` API for details.

Table 2. Classes	
<i>Name*</i>	<i>Description</i>
<i>chart.Appearance</i>	Appearance attributes common to all charts.
<code>chart.Appearance.Axis</code>	A chart axis.
<code>chart.Appearance.Axis.Ticks</code>	Axis ticks.
<code>chart.Appearance.HorzLine</code>	A horizontal line.
<code>chart.Appearance.HorzOverlapChart</code>	Appearance attributes for a Horizontal Overlap chart.
<i>chart.Appearance.Line</i>	A line.
<code>chart.Appearance.LinearFitLine</code>	A line with a slope and intercept.

<code>chart.Appearance.ScatterChart</code>	Appearance attributes for a Scatter chart.
<code>chart.Appearance.ScatterChart.Marker</code>	A data point display marker, enumerated, for a Scatter chart.
<code>chart.Appearance.TextItem</code>	A text item.
<code>chart.Appearance.VertBarChart</code>	Appearance attributes for a Vertical Bar chart.
<code>chart.Appearance.VertBarChart.Type</code>	A type, enumerated, of Vertical Bar chart.
<code>chart.Appearance.VertLine</code>	A vertical line.
<code>chart.Chart</code>	A chart consisting of an appearance and one or more data series. <code>Chart</code> defines the state of a chart, including appearance and data, but does not draw a chart.
<code>chart.ChartPanel</code>	Panel that draws and displays a chart.
<code>math.DataSeries<XYpoint.Float>.List</code>	A collection of <code>XYpoint.Float</code> objects arranged as a list (a Java <code>LinkedList</code>)
<code>math.DataSeries<XYpoint.Float>.Set</code>	A collection of <code>XYpoint.Float</code> objects arranged as a set (a Java <code>TreeSet</code>)
<code>math.XYpoint.Float</code>	A data point with x axis and y axis float values.
<code>mswing.StdColor</code>	Enumerated standard colors.

Viewer Program

The chart distribution includes program, `viewer.jar` for viewing saved charts. The program has built-in help.

