

# Bar Charts

## 1. Stacked Bar Charts

Here is some code to generate a Stacked Bar Chart. You can send 1..n data sets through it to be plotted.

```
String[] xAxisLabels= { "1998", "1999", "2000", "2001", "2002", "2003", "2004" };
String xAxisTitle= "Years";
String yAxisTitle= "Problems";
String title= "Microsoft at Work";
DataSeries dataSeries = new DataSeries( xAxisLabels,
                                       xAxisTitle,
                                       yAxisTitle,
                                       title );

double[][] data= new double[][]{ { 250, 45, 36, 66, 145, 80, 55 },
                                 { 150, 15, 6, 62, 54, 10, 84 },
                                 { 250, 45, 36, 66, 145, 80, 55 } };

String[] legendLabels= { "Bugs", "Security Holes", "Backdoors" };
Paint[] paints= TestDataGenerator.getRandomPaints( 3 );
StackedBarChartProperties stackedBarChartProperties=
    new StackedBarChartProperties();
AxisChartDataSet axisChartDataSet= new AxisChartDataSet( data,
                                                         legendLabels,
                                                         paints,
                                                         ChartType.BAR_STACKED,
                                                         stackedBarChartProperties );

dataSeries.addIAxisPlotDataSet( axisChartDataSet );

ChartProperties chartProperties= new ChartProperties();
AxisProperties axisProperties= new AxisProperties();
LegendProperties legendProperties= new LegendProperties();
AxisChart axisChart= new AxisChart( dataSeries,
                                    chartProperties,
                                    axisProperties,
                                    legendProperties,
                                    AxisChartsGuide.width,
                                    AxisChartsGuide.height );
```

Stacked Bar Chart