

Plots

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The way to plot inside a [GPanel](#) is very simple. These plots will be done thanks to JFreeChart product via the [GFreeChartXY](#) class.

First, we have just to instantiate a [GFreeChartXY](#) object like this:

```
boolean addLegendFlag = true;
GFreeChartXY plot = new GFreeChartXY("Main Title",
                                     "XAxis Title",
                                     "YAxis Title", "Sec YAxis Title",
                                     addLegendFlag);
```

Then, considering xVal and yVal, the both tables including the data to be plotted, we will add them to the **plot** object :

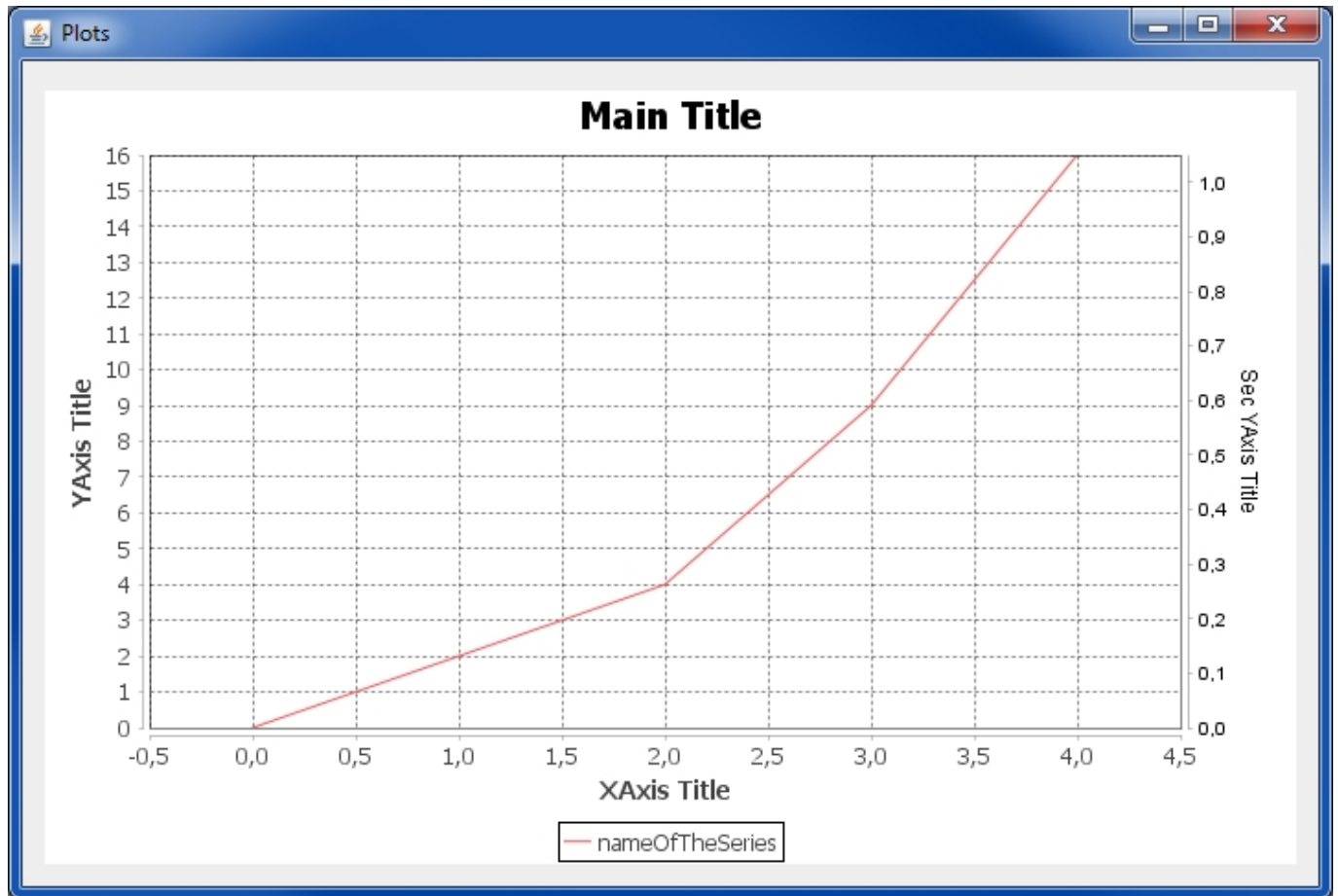
```
double[] xVal = { 0., 1., 2., 3., 4.};
double[] yVal = { 0., 2., 4., 9., 16.};

plot.addSerie("nameOfTheSeries", xVal, yVal, null, Color.RED, null);
```

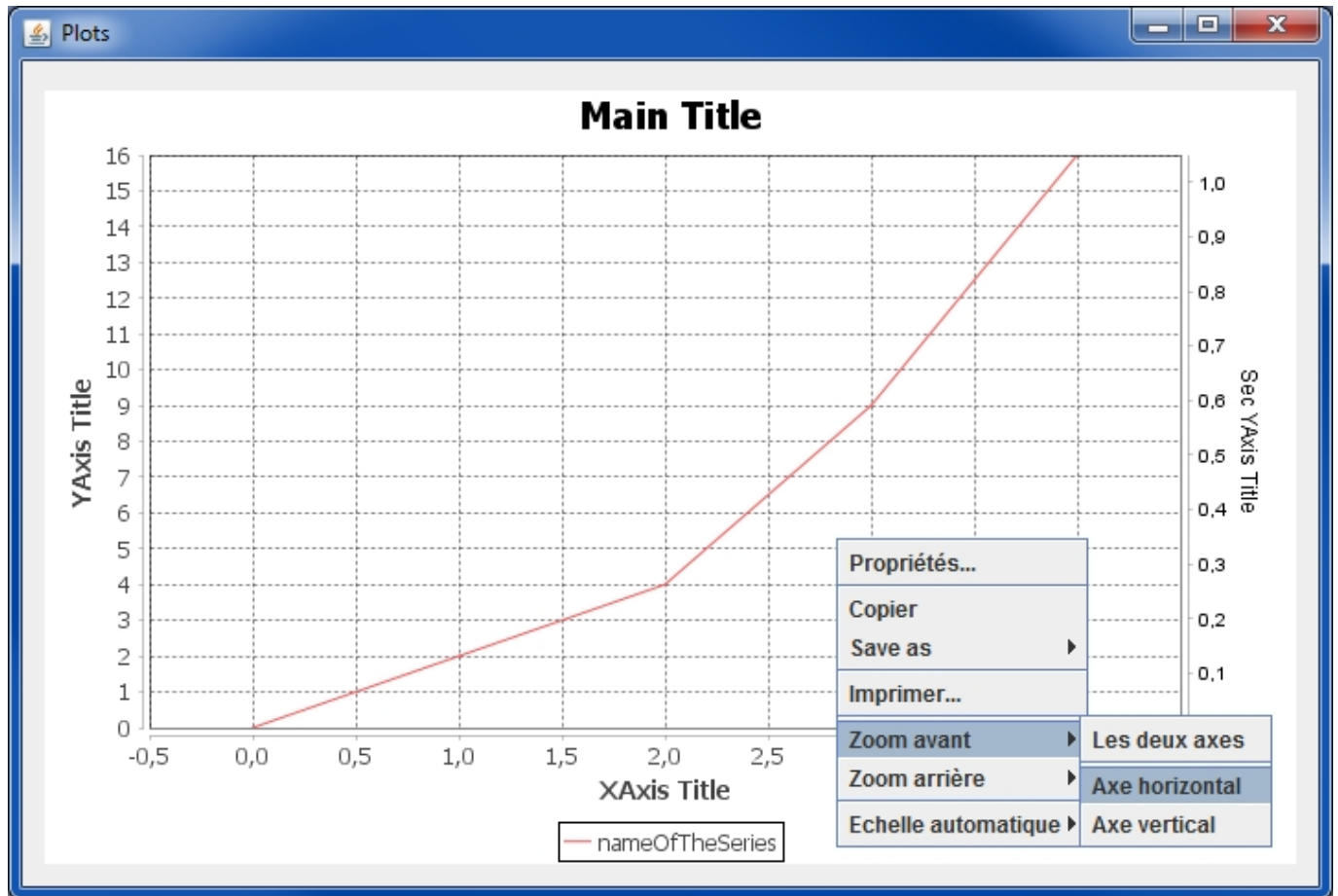
Note that it is possible to have continuous lines (last null argument ; see example above) or to specify some shape for each point using the GShapeFactory as:

```
Shape shape = GShapeFactory.createRectangle(10, 10);
plot.addSerie("nameOfTheSeries", xVal, yVal, null, Color.BLUE, shape);
```

At last, to display it in the current [GPanel](#), we will use the [put\(\)](#) method.



As we use JFreeChart, it is then possible to use all the fonctionnalités proposed by this product, specially by using the context menu obtained by clicking ont the right button of the mouse.



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