



XY Series

```
plot("SeriesName", source, "xCol", "yCol") //table source
plot("SeriesName", [x],[y]) //array source
plot("SeriesName", function) //function source
```



Category (including Bar Charts)

```
catPlot("SeriesName", source, "CategoryCol", "ValueCol") //table source
catPlot("SeriesName", [category], [values]) //array source
```



Histogram

```
histPlot("seriesName", source, "ValueCol", nbins) //table source
histPlot("SeriesName", [x], nbins) //array source
```



Category Histogram

```
catHistPlot("seriesName", source, "ValueCol") //table source
catHistPlot("SeriesName", [Values]) //array source
```



Pie

```
piePlot("SeriesName", source, "CategoryCol", "ValueCol") //table source
piePlot("SeriesName", [category], [values]) //array source
```



Open, High, Low, and Close (OHLC)

```
ohlcPlot("SeriesName", source, "Time", "Open", "High", "Low", "Close") //table source
ohlcPlot("SeriesName", [Time], [Open], [High], [Low], [Close]) //array source
```



ErrorBar Charts

```
errorBarX("SeriesName", source, "x", "y", "xLow", "xHigh") //table source
errorBarX("SeriesName", [x], [y], [xLow], [xHigh]) //array source
errorBarY("SeriesName", source, "x", "y", "yLow", "yHigh") //table source
errorBarY("SeriesName", [x], [y], [yLow], [yHigh]) //array source
errorBarXY("SeriesName", source, "x", "xLow", "xHigh", "y", "yLow", "yHigh") //table source
errorBarXY("SeriesName", [x], [xLow], [xHigh], [y], [yLow], [yHigh]) //array source
catErrorBar("SeriesName", source, "x", "y", "yLow", "yHigh") //table source
catErrorBar("SeriesName", [x], [y], [yLow], [yHigh]) //array source
```



Scatter Plot Matrix

```
scatterPlotMatrix(table, "series1", "series2", ...)
```



Multiple Charts in a Figure

```
figure(int Rows, int Columns).newChart(r,c).plot...
.rowSpan(r) // span multiple rows
.colSpan(c) // span multiple columns
.span(r,c) // span multiple rows and columns
```

plotBy, catPlotBy, and ohlcPlotBy

```
plotBy("Series1", source, "xCol", "yCol", "groupByCol")
catPlotBy("SeriesName", source, "CategoryCol", "ValueCol", "groupByCol")
ohlcPlotBy("SeriesName", source, "Time", "Open", "High", "Low", "Close", "groupByCol")
```

OneClick

```
oneClick(source, "ColName1", "ColName2", ...)
```

Formatting

Plot Styles - Applies to XY Series and Category Charts only. Options: Bar, Stacked_Bar, Line, Area, Stacked_Area, Scatter, Step

```
plot(series, t, "x", "y")
plotStyle("optionName")
```

Time Formatting

```
xFormatPattern("yyyy-MM-dd")           // e.g., 2017-03-08
xFormatPattern("HH:mm")                 // e.g., 14:45
xFormatPattern("hh:mm a")               // e.g., 02:45 p.m.
xFormatPattern("HH:mm:ss")              // e.g., 14:45:59
xFormatPattern("yyyy-MM-dd'T'HH:mm:ss") // e.g., 2017-03-08T14:45:59
```

Decimal Formatting

```
yFormatPattern("###,###.00")           // e.g., 123,456.78
yFormatPattern("\$###,###.00")         // e.g., $123,456.78
yFormatPattern("\$###,###.00 Million") // e.g., $123,456 Million
yFormatPattern("###.00%")              // e.g., 100.11%
yFormatPattern("##0.00E00")            // e.g., 321.34E8
```

Themes

```
figure().theme("Dark")
```

Titles/Labels

```
figureTitle("Title")
chartTitle("Title")
xlabel("Label")
ylabel("Label")
```

Axis Ranges

```
xRange(value, value)
xMin(value)
yMax(value)
Shared axis: twinX() twinY()
```

Ticks - Angle, Gap, Visibility

```
xTickLabelAngle(45.0)
xTicks(10) -or- yMinorTicks(5)
xTicksVisible(false) -or- yMinorTicksVisible(false)
```

Font Formatting - .fontObject("FontFamily", "Style", size)

```
figureTitleFont("Arial Black", "p", 32)
chartTitleFont("Arial", "Bold", 24)
xlabelFont("SansSerif", "P", 10)
legendFont("Tahoma", "BI", 9)
```

Line Formatting

```
linesVisible(true)
lineStyle(lineStyle(width))
lineStyle(lineStyle("endStyle","joinStyle")) // ROUND, SQUARE, BUTT and ROUND, MITER, BEVEL
lineStyle(lineStyle([dashPattern]))           // dashLength, gapLength
lineStyle(lineStyle(width,[dashPattern]))
lineStyle(lineStyle(width,"endStyle","joinStyle",[dashPattern]))
```

Point Formatting

```
pointsVisible(true)
pointSize(2)
pointSize(0.5)
pointSize([1,2,3]) // array-based sizing
pointSize(t,"Size") // table columns sizing
```

Color Formatting - RGB, RGBA, HSL, HSLA, Hexadecimal or HTML Color Name

```
pointColor(colorRGB(153,204,255))
lineColor(colorHSL(0,100,50))
chartTitleColor("#9F9F9F") -or- chartTitleColor("BLACK")
```

Plot Orientation

```
plotOrientation("horizontal")
```

Legend

```
legendVisible(false)
```