GreenPoint, Inc.

# WebCharts3D v5.0 Designer User's Guide

June 3, 2004

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## 1.0 Introduction

## Scope

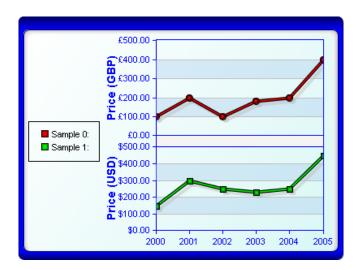
This document provides WebCharts3D v5.0 users information and instructions for using WebCharts3D Designer. This document does not require you to know programming and does not cover Designer's features related to programming.

WebCharts3D Designer is an integrated package for designing charts, binding them to data sources, previewing results in the browser and deploying charts to the server. This document demonstrates the features of the Designer by using a number of examples to create and modify the charts.

If you are planning to use this product only for the purposes of creating static charts and are not familiar with web programming you might skip Chapter 6.0 "Server deployment" and instead export the charts from the Designer in the required format.

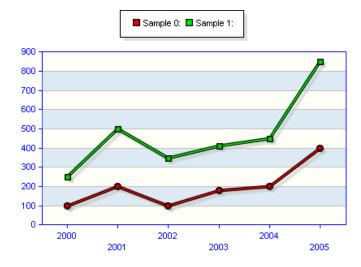
# 2.0 Creating charts in Designer – Lesson 1

In this section you will learn how to create a chart and modify chart's basic attributes by developing the following chart:



# Selecting base type chart

To create a new chart select File>>New menu item. A Gallery window displaying a number of the templates will appear. Usually starting with the right template can greatly reduce the development time, but for the demonstration purposes we will pick the following chart as our base chart:



When a new chart is created it always has dimensions 400x300. To resize the chart drag one of the chart's handles or use UP, DOWN, LEFT and RIGHT keys to adjust the chart's size.

## **Modifying Attributes**

The chart's attributes are displayed on the right side of the Designer in Properties Table. There are three types of the attributes:

#### **Primitive**

The primitive attributes are displayed in plain font and can be edited by clicking on the Value's cell of the corresponding attribute. These attributes are usually edited by checkbox, combo box or input field.

#### Compound

The compound attributes are displayed in Bold with a small box preceding the name of the attribute. To edit a compound attribute you need to click on this box. The '+' sign will change to '-', and all child attributes of this attribute will be displayed inside the Property table.

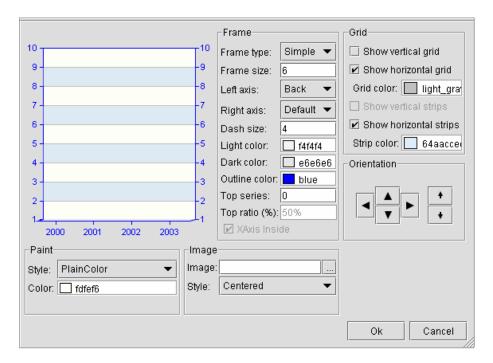
Property	Value
Туре	Frame chart
font	Arial-11
foreground	■ black
is3D	
isMultiline	
isTransposed	
seriesTitle	
Background	PlainColor
DataLabels	None
Decoration	None
<b>⊞</b> Elements	
Frame	Simple
<b>⊞</b> Insets	
Legend	Тор
Paint	Shade [Standard]
Popup	MouseOver
<b>⊞ Table</b>	
Title	
TopYAxis	Scale
TopYAxis2	Scale
XAxis	Category
YAxis	Scale
YAxis2	Scale

#### **Object**

The object attributes are displayed in bold font and can be edited by clicking on the Value's cell of the corresponding attribute. A specialized dialog will appear that allows you to define primitive attributes for this object. To adjust the dialog's position/size move the cursor over it's top/right bottom corner until move/resize cursor appears, press the left mouse button and drag the mouse to the desired location. When you are done editing, you should press "Ok" or "Cancel" button to accept/cancel all modifications.

## **Modifying Frame Attributes**

The chart we are trying to design has different frame attributes. To edit frame attributes, click on the Frame's value cell in the Properties Table, the following dialog will appear:

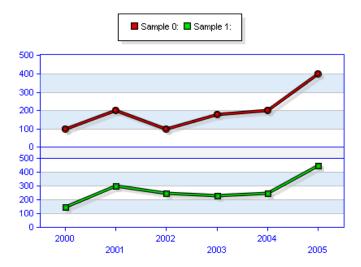


First, we need to split the frame into two views. In the 'Top Series' input field enter 1. This will tell the engine to place first series of data into the top view. You will need to leave the field (by clicking on some other element or pressing Tab key in order for the preview to be refreshed).

Second, we want X axis to be placed at the bottom of the chart. Uncheck 'X Axis Inside' checkbox. If this checkbox is grayed out you need to make sure that you left 'Top series' field.

Finally, we need to set the frame's background to transparent in order to be able to specify the background for the entire chart later on. Click on the 'Style' combobox located in 'Paint' subpane at the bottom of the dialog, and select 'Transparent'.

Click 'Ok' to close the dialog and accept new values. The chart will change to:

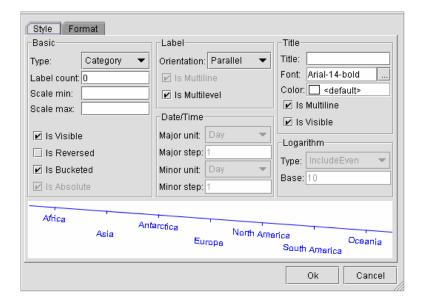


## Adjusting Axes attributes

We will need to adjust attributes for the X axis and both top and bottom Y axes.

## **Adjusting X Axis**

In the Properties Table click on the xAxis cell. The following dialog will appear:

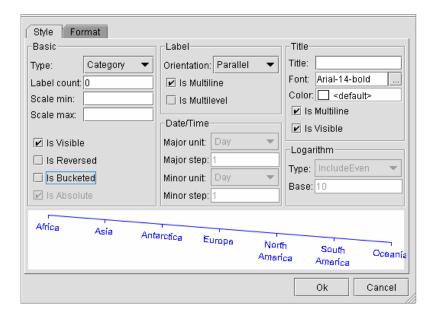


Axis editor dialog has two subpanes and displays the axis's preview at the bottom of it. To make X axis to look the desired way we need to:

1. Turn off placement of labels on the different levels. To do so, click on 'Is Multilevel' checkbox in 'Label' subpane.

2. Place the labels at the edges of the axis. In 'Basic' subpane uncheck 'Is Bucketed' checkbox.

After these modifications the dialog will look the following way:

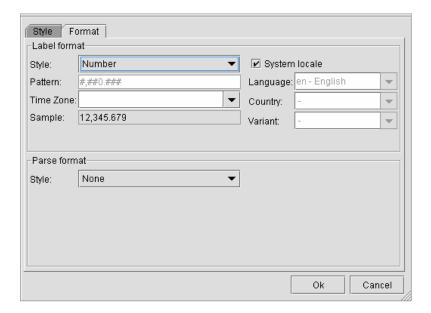


Press 'Ok' button to accept the new values and close the dialog.

## **Adjusting Y Axes**

First we will adjust the bottom view Y axis:

- 1. In the Property Table click on YAxis cell. The Axis dialog will appear.
- 2. Enter 'Price (USD)' into 'Title' input box.
- 3. Click on 'Format' tab on the top of the dialog. The dialog will change to:

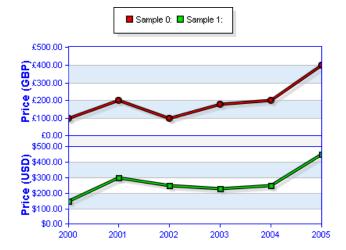


4. In the Style combobox select 'Currency' and press 'Ok' button to close the dialog.

To adjust the top view's yAxis:

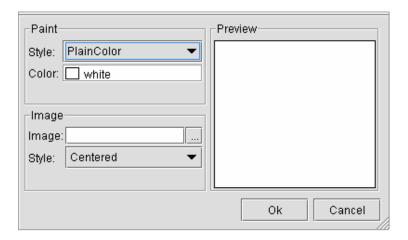
- 1. In the Property Table click on 'topYAxis' cell.
- 2. In the axis dialog switch to the Style tab and enter 'Price (GBP)' into 'Title' input box.
- 3. Switch to 'Format' tab and select 'Currency' in the Style combobox.
- 4. Uncheck 'System Locale' checkbox and select 'en-English' as the language and 'GB-United Kindom' as the country.
- 5. Click 'Ok' button to close the dialog.

Your chart should new look like:



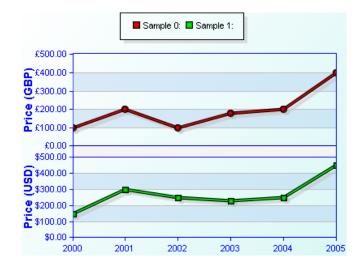
## **Editing Background**

To specify chart's background click on 'Background' cell in the Properties Table. The following Dialog will appear:



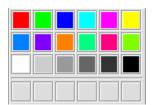
To define gradient background:

- 1. Select appropriate gradient type in the Style combobox. For this chart you should select DiagonalLtRbGradient style. (Diagonal LeftTop RightBottom).
- 2. Define first and last colors by clicking on Min and Max color field and selecting the appropriate colors as it is discussed in the next section. In our example we set Max color to RGB(218, 248, 246).
- 3. Close the dialog by pressing 'Ok' button. The chart should look like:



## **Editing Colors**

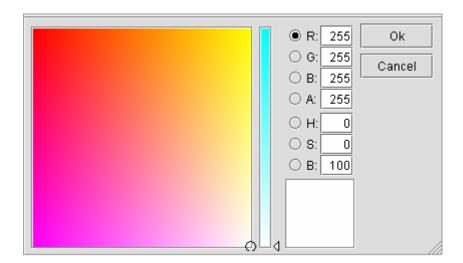
To edit a color you need to click on the corresponding color box. The following popup will be displayed:



This popup contains two parts – the top part is a preset set of colors defined by the current palette. The bottom part contains user defined colors that were used in this project. To select a color left click on one of the colors. To define a custom color, right click on one of the colors to use it as an initial color or click on one of the empty custom slots. The Custom color dialog will be

displayed. Once a custom color is defined it will be shown in all color popups in this project.

The Custom color dialog shown below allows you to define a new color by either picking it from the color square, or entering RGBA or HSB values into the corresponding input boxes. In order to enter hexadecimal values you can use #XX notation where XX are hexadecimal digits. For example, to introduce white color you can enter either 255 or #FF as red, green and blue values.

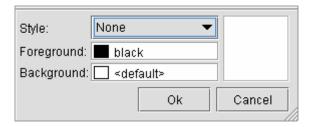


WebCharts3D Designer allows you to disable color space editing by unchecking 'Use Color Spaces' in the Setup dialog. When this option is disabled, the custom color dialog is immediately displayed when the user clicks on the color box.

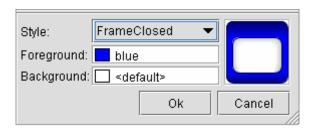
# **Defining Decoration**

WebCharts3D allows you to create decoration around the chart and its individual elements. To define chart's decoration:

1. Click on the Decoration cell in the Property Table. The following Dialog will be displayed:



2. Click on the Style combobox and select 'FrameClosed' decoration. Change foreground to blue. The dialog will look like:

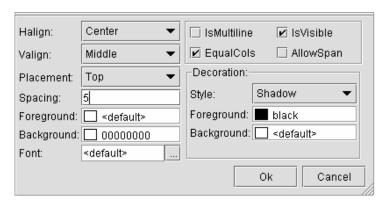


Click 'Ok' Button to accept the new values and close the dialog.

# Editing legend

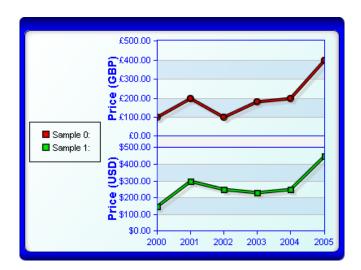
Finally, we need to change the legend placement and decoration:

1. Click on the Legend cell in the Properties Table. The following dialog will appear:



- 2. Select 'Left' in the Placement combobox.
- 3. Select 'Simple' in the Decoration's Style combobox
- 4. Press Ok button to close the dialog.

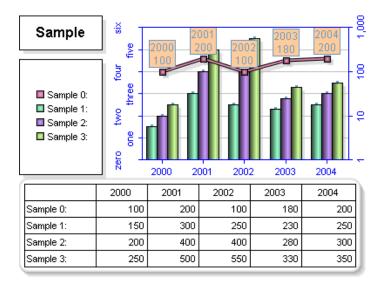
Your chart should now look like the chart shown below:



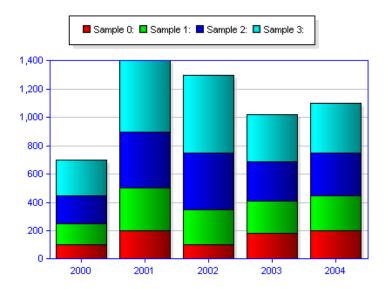
This concludes the first lesson that demonstrated creating charts and editing basic chart styles.

# 3.0 Creating charts in Designer - Lesson 2

In this section you will learn how to specify advanced chart's attributes and attributes that can be overridden for each series or each element. The goal of this chapter is to design the following chart:



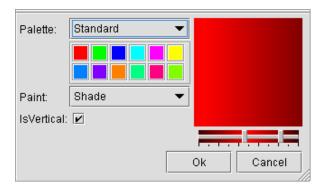
We will start development with the following template chart:



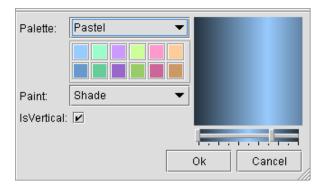
## **Using Paints and Palettes**

To change the chart's paint and colors:

1. Click on the Paint cell of the Properties Table. The following dialog will appear:



- 2. In the palette combobox select 'Pastel'. That will switch the Designer's and chart's default colors to Pastel.
- 3. Drag the left handle below the preview box to the leftmost position. Your dialog should now look like:



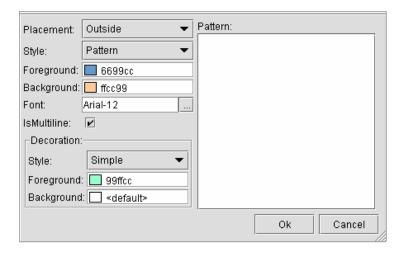
Press Ok to close the dialog.

# Defining Data Labels

Data Labels are labels placed inside the chart. WebCharts3D supports different types of the Data Labels. The most flexible one is Pattern that allows you to define your own text (possibly including pseudo-variables) as data label.

To define data labels:

- 1. Click on the Data Labels cell of the Properties Table. The Data Label editor dialog will show up.
- 2. Set Placement to Outside, Style to pattern, and define other attributes to match the picture shown below:



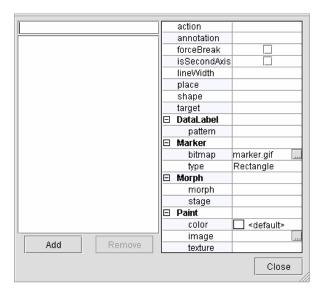
- 3. In the Pattern textbox enter: \$(. The text will change to \$() and the popup with the available pseudo-variables will appear. Select 'value' from the popup. The text in the Pattern textbox will change to \$(value).
- 4. Click ok to close the dialog.

# **Editing Individual Series Attributes**

To define a custom color for the series:

- 1. Click on 

  box of the Element's cell. The plus sign will change to minus and the Properties Table will expand
- 2. Click on the 'series' cell of the Properties Table. The following dialog will show up:

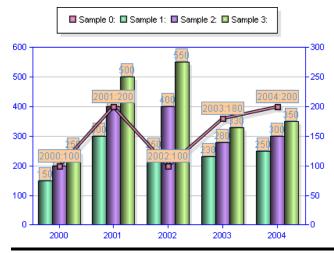


- 3. Enter 0 into the input box and click 'Add' button.
- 4. Click on the Color field located under Paint cell of the Dialog's Property Table and select one of the colors.
- 5. Change Shape cell to Line, Place cell to Default and check is SecondAxis checkbox.
- 6. Click on the pattern child of DataLabel element and enter into the textbox (in two lines):

\$(colLabel) \$(value)

7. Click Close button to close the Dialog.

Your chart should now look like:



At this point, go back to Data Labels attribute of the Properties Table and clear its pattern field. As a result, only data labels for the line (series with index 0) will be displayed.

#### Using Logarithmic Scales

The chart we are trying to design uses logarithmic scale with vertical orientation of labels as second Y axis. To setup this axis:

- 1. Click on YAxis2 cell of the Properties Table.
- 2. Select Logarithmic as the axis's type and set scale's minimum to 1 and scale's maximum to 1000.
- 3. In the Logarithm subpane select ExcludeMinor as type.
- 4. Change the label orientation to Vertical.
- 5. Close the Axis editor dialog.

#### **Using Choice Formats**

Choice formats allow you to display arbitrary text instead of the numeric labels. For the detailed description of this format, please refer to the documentation included with the Designer. This section demonstrates the use of such format.

- 1. Open Axis Editor by clicking on the yAxis cell of the Properties Table and switch to the Format pane.
- 2. Set Label Format's style to Choice and enter in the Pattern field:

  0#zero | 100#one | 200#two | 300#three | 400#four | 500#five | 600#six
- 3. Switch to the Style pane by clicking on the Style tab, check Is Multilevel box and change label orientation to vertical.
- 4. Close the dialog by pressing 'Ok' button.

# Displaying Data Table

Data Table that shows underlying chart's data can be optionally displayed at the bottom of the chart. To display Data Table:

- 1. Click on **±** box of the Table cell of the Properties Table.
- 2. Check is Visible's cell checkbox. The Data Table should appear at the bottom of the chart.

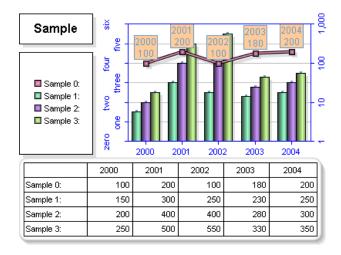
Data Table has a large number of attributes allowing you to display table as heatmap, define zebra background, specify alignments and colors for individual elements, show or hide row/column labels, choose different types of grids, define formats, and more. This attributes are mostly self-explanatory and are not covered in this manual.

## Editing Title and Legend

WebCharts3D supports multi-line chart's titles. Both the titles and the legends can be placed on top, bottom, left and right sides, and have vertical and horizontal alignments. When the title and the legend are placed on the same side and have opposite alignments (for example, both are placed on top and have alignments left and right correspondingly), then they are displayed in one line or column.

To achieve this result:

- 1. Open Title editor by clicking on Title cell and enter 'Sample' as Text.
- 2. Set Placement to Left, VAlign to Top, HAlign to Center, and close Title editor.
- 3. Open Legend Editor and set Placement to Left ,VAlign to Bottom, and HAlign to Center.
- 4. Close Legend editor. Your chart should look like:



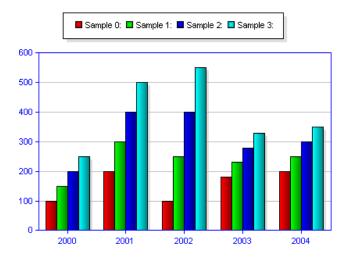
This concludes the second lesson that demonstrated advanced chart's attributes and attributes that can be overridden for each series or each element.

# 4.0 Creating Charts in Designer – Lesson 3

In this section you will learn about interactive and animation features of WebCharts3D. To demonstrate these features you will need to launch embedded HTTP server and connect to it using browser.

## Using Embedded HTTP Server

WebCharts3D includes an embedded HTTP server that can be used for previewing charts. Note that this server is not intended to be used in production environment and is provided solely for testing purposed. For the purposes of demonstration we will use the following chart available in the chart gallery:



# Launching Embedded Server

To launch embedded server:

- 1. Switch to Console pane by clicking on the Console tab located at the bottom of WebCharts3D Designer's screen.
- 2. Click 'Start' button. The following message will be displayed:

WebCharts3D Image Server v5.0 Copyright (C) GreenPoint, Inc. 1998-2004. All rights reserved.

3. Wait until the server is started and the message:

Server started <date> on port 8802

4. Open a web browser and enter the following address into the browser's address bar:

http://localhost:8802

5. Press enter. The chart displayed in the Designer should appear in the browser's window. You will be able to view this chart in different formats by clicking on the hyperlinks located at the bottom of the chart.

## Defining Annotations and using Popup

WebCharts3D provides popup window that can be displayed when the user moves mouse over the chart element or presses the mouse button. The text displayed inside the popup is called annotation.

You can control the popup's behavior and decoration by using Popup editor dialog that can be opened by clicking on the Popup cell in the Properties Table. The annotation can be defined by expanding Elements cell and entering a value for annotation cell. If the annotation is not defined, the default annotation is used.

In this example we will demonstrate defining custom annotation for the first series of data. To define this annotation:

- 1. Open Series Editor by clicking on the 'series' cell (child element of the Elements cell).
- 2. Select 0 from the list of the series and click on the annotation cell of the local Properties Table.
- 3. Enter the following text (in two lines) into the textbox (use tab to separate text from pseudo-variable):

In the year \$(colLabel) result was \$(value)

4. Click Ok button to close the dialog. Click Close button to close Series dialog.

Move mouse over the line's markers. The custom annotation will be displayed in the popup window.

NOTE. When you use tab to separate words in the annotation, WebCharts3D will display text in multiple columns. It is not required for pseudo-variables to be separated by tabs or any other characters.

## **Defining Animation Attributes**

WebCharts3D provides animation for some of the chart's formats. In this lesson we will be using Flash file format. To view Flash file format, switch to the browser window that you opened when launching embedded server and click on SWF link at the bottom of the page. You will see how groups of bars grow one by one.

## Changing animation style

To change animation style:

- 2. Open Morph group by clicking on the 

  box of the Morph cell inside Elements group.
- 3. Change morph element to Blur. Go to the browser window and click the Refresh button. You should see blurring effect.

## Changing animation order

To change animation order:

- 1. Open Elements group by clicking on the 

  box of the Element cell in the Properties Table.
- 2. Open Morph group by clicking on the 

  box of the Morph cell inside Elements group.
- 3. Change stage element to Rows. Go to the browser window and click the Refresh button. You should see how different sets of bars are blurring in together this time.

## Changing movie properties

To change movie properties:

1. Open Elements group by clicking on the 

box of the Element cell in the Properties Table.

- 3. Set replayDelay to 0 to make movie loop. Adjust stageDelay to introduce the delay between stages. Change frameCount and framesPerSecond to adjust the length and the quality of the animation.
- 4. Go to the browser window and click the Refresh button.

#### Changing individual attributes

You can change animation attributes for the individual series by going to the series dialog and editing morph and stage attributes of the particular series. To edit individual morphing attributes:

- 1. Open Elements group by clicking on the 

   box of the Element cell in the Properties Table.
- 2. Open series dialog by clicking on series cell inside Properties Table.
- 3. Select an existing series or add a new series and modify morph and stage attributes of the local Properties Table.

# **Defining Actions**

WebCharts3D allows you to attach parameterized event handlers to the chart elements. The event handler is defined by the action and the optional target. The action can be any valid url or javascript: handler. The target is the name of the target frame as it is specified in HTML manual or empty string for the current frame.

To define a simple action that will popup a dialog telling you what element was clicked, you can:

- 1. Open Elements group by clicking on the 

   box of the Element cell in the Properties Table.
- 2. Enter the following string as the action:
  - javascript:window.alert('\$(colLabel) \$(rowLabel) was clicked')
- 3. Go to the browser window and click the Refresh button. The new chart should display a small popup when you click on one of the chart's elements.

Similarly to annotations and data labels, actions can be defined on the individual level by using series or column editors.

NOTE: Avoid using double quotes inside the action handler – double quotes are used internally by HTML to introduce handlers.

# 5.0 Using Data Editor

WebCharts3D Designer's Xml Model pane shows the data used to produce the chart displayed in the Design pane of the Designer. This data can be loaded from XML files, delimited files and databases. This data is static and will not be automatically updated when the underlying data source changes. To learn how to create dynamic charts please refer to the Programmer's manual and to the "Server Deployment" section of this document.

The top part of the Xml Model pane displays the data in tabular format. You can modify the data by clicking on the particular cell and by adding/removing rows and columns.

You can edit the XML directly in the bottom pane. When this pane is modified, two additional buttons are shown – Apply and Reset. You need to press one of them for the changes to be accepted or rejected.

To load data from the Database click "Load from Database" button and in the Database dialog:

- 1. Fill out the Connection name. If your ODBC connection is called MyDatabase, then this field should be set to jdbc:odbc:MyDatabase.
- 2. Fill out username and password.
- 3. Enter SQL statement.
- 4. If your query returns the data in crosstab format where every row contains row label, column label and value, then make sure that Crosstab checkbox is checked.
- 5. If your query contains row labels in the first column, then make sure that Row labels checkbox is checked.
- 6. Click Ok to close the dialog.

To load data from the delimited file click "Import from file" button and in the Import File dialog:

- 1. Enter full path to the file.
- 2. Fill other fields and checkboxes.
- 3. Click ok to close the dialog.

# 6.0 Server deployment

This section describes the process of deploying the chart to the web server by using WebCharts3D Designer. You can also deploy the charts to the web or application server manually and we recommend you to read Programmer's Guide that explains this process in details.

#### Server setup

To setup WebCharts3D module on a JSP compliant server:

- 1. Open Setup dialog by selecting Setup from the File menu.
- 2. In the Setup dialog switch to the Server tab.
- 3. Locate the application root of your application. You might need to check with your system administrator or refer to the server documentation. In our example we will consider that your application root is

C:\Tomcat5.0\webapps\ROOT

- 4. Enter the application root into Application home input field and press tab key. Jar and configuration file location and taglib location will change to .../WEB-INF/lib and .../WEB-INF.
- 5. Click Deploy Jar, Deploy Configuration and Deploy taglib buttons. Once you clicked Deploy Configuration, this button will change to Edit Configuration.
- 6. Click Deploy button under Page retrieval url field.
- 7. Click Edit Configuration button. Enter the server-side license or keep it blank for the evaluation. You can modify other server attributes here, but we recommend you to refer to the Programmer's Guide in order to understand the server settings.
- 8. Close Server Configuration dialog and the Setup Dialog.

# Chart Deployment

Once you used Setup dialog to install WebCharts3D runtime on the server you can start using Code Pane to deploy the charts to the server.

In order to deploy a chart to the server using Designer:

- 1. Switch to Code Pane by clicking Code Pane tab located at the bottom of the Designer.
- 2. Click Save button. A file dialog will appear pointing to your application root. Name the page mychart.jsp and click Save button.
- 3. Open web browser and enter url to the save file. This url will look like http://...../mychart.jsp.

The JSP file you saved contains code that will produce the chart. Usually you would want to copy this code into a real JSP page or include it by using JSP's include statement.

The code pane gives you an option of embedding the chart's styles into the page or storing them in a separate file. If you prefer to store the styles in a separate file:

- 1. Switch to Xml Style pane by clicking on the Xml Style tag located at the bottom of the Designer's window.
- 2. Click Save button and store the Xml file into an xml file.
- 3. Switch back to Code Pane and click Options button.
- 4. In the Options dialog uncheck 'Embed Styles' checkbox and enter the full path to the xml style file into Style location field.
- 5. Press Ok button to close the dialog.

# Data binding

The code pane allows you to establish dynamic binding between the chart and its data source. To establish a dynamic binding:

- 1. Click Option button and in the Option dialog select the appropriate data source type from Model combobox.
- 2. Press Database Properties or Import File Properties button to display data source properties dialog.
- 3. Follow the procedure outlined in Using Data Editor chapter of this document to define data source properties.

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4.	Close data source properties dialog and then close Options dialog by pressing Ok button.
5.	Deploy the new code to the server.

# 7.0 Using Help

To view Designer's Help, switch to the Help pane by clicking on the Help tab located at the bottom of the Designer's window. You can navigate Help by selecting items from the Table of Contents, or by searching for a keyword.

To navigate the help using Table of Contents:

- 1. Make sure that Contents button located at the top of the left pane is pressed.
- 2. Navigate to the desired help topic by either clicking on the topic's name or using UP, DOWN and ENTER keyboard keys.

To navigate the help using Search Panel:

- 1. Make sure that Search button located at the top of the left pane is pressed.
- 2. Type the keyword or the beginning of the keyword in the text box.
- 3. Refine the search by double-clicking on one of the keywords in the upper listbox.
- 4. Double-click on the topic in the lower listbox, or click on the topic and press "Display" button.

Inside Help window you can follow hyperlinks displayed in dark red color by clicking on them. To go back to the one of the previous topics use the menu associated with right mouse button.

# 8.0 Where to get additional help

WebCharts3D v5.0 distribution includes Designer documentation for more information about Designer's panes not described in this document.

For more information about WebCharts3D please contact <a href="mailto:support@gpoint.com">support@gpoint.com</a>.

## APPENDIX A - CHART MODEL REQUIREMENTS

#### Frame charts

The number of the required rows for frame chart depends upon the shapes displayed inside of it. To see the number of the required rows for a particular shape click here. Stock shapes require elements in the order specified by its name. For example, HIGHLOWOPENCLOSE element requires 4 elements in the high-low-open-close order. Bubble shape requires 2 series - first series defining the Y coordinate of the bubble center and the second - defining its relative size. The size can be any number, but larger values will result in larger bubbles than the smaller values, and equal values will result in the bubbles of equal size.

**NOTE.** When your X-axis style is set to scale, logarithmic or date/time, the column labels are treated as values along this axis.

#### Pie charts

Pie charts can take any number of rows and columns and depending upon the type will either render multiple pies or combine all rows into one doughnut.

#### Radar charts

Radar charts can take any number of rows and columns, but for this chart to display anything you need to have at least 3 columns in your model.

#### **Dial Charts**

Dial charts require two series of data. The first series defines the position of the dial hand and only the first element in it is currently used. Other elements can be specified to set the range of the dial, but we recommend to set the range of the dial in the axis attribute of its style instead. The second series of data defines the ranges on the dial. Each value is a percentage of the dial that will be colored using the corresponding element color. For example, values 50, 30 and 20 will result in half of the dial being red, 30% green and 20% blue. If the second row is not specified, the edge of the dial will remain uncolored.

#### **Statistical Charts**

Statistical charts provide basic charts for statistical data visualization. These charts usually apply some calculations to the raw data prior to displaying it, show statistical information in the chart's legend and can optionally display statistical axes with step equal to the standard deviation of the underlying distribution. In addition, some charts can calculate and show Value-At-Risk for the specified level.

Histogram - Uses one row of data. Automatically buckets data into the number of

buckets defined by the number of XAxis labels. If the number of labels is 0, then Sturge's rule is used. The chart plots the histogram itself and the normal distribution density function fit to the underlying distribution mean and standard deviation. Can optionally plot Value at Risk as a shaded area under the normal curve.

Timeline - Uses one row of data. Displays timeline for the provided series of data. Can optionally plot band specified by the VaR level.

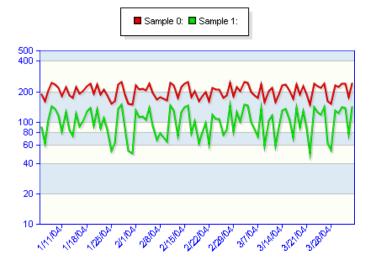
Profile - Uses one row of data. Displays profile for the provided series of data and

cumulative normal fitted to the underlying distribution parameters.

Regression - Uses two series of data. The first series is used as X axis (independent) coordinates, the second series is used as Y axis coordinates. Displays provided data points as dots and plots linear regression function obtained using least squares method. The chart's legend displays the regression's alpha and beta.

#### APPENDIX B - USING DATE/TIME SCALES

X Axes can use date/time style to render dates and times. These axes can use different parse and label formats and provide control over the label placement. This appendix demonstrates using this type of scales by modifying one of the standard charts. To start, pick the following chart from the chart gallery (available in the line section):



This chart already has X axis set to Date/Time. Click on xAxis cell of the Properties Table to open the axis editor and:

- 1. In the Format tab change Label format to MediumDate in order to specify MMM dd, yyyy format. Note that parse format in this case should not be changed since our data xml specifies dates in this format.
- 2. In the Style tab check Is Multilevel checkbox and change label's orientation to Horizontal.
- 3. We need to adjust the label step. In Style tab in Date/Time subpane there are two steps minorStep and majorStep.

Minor step is used to define the chart's granularity and when it is set to Day all dates and times will be rounded to a day. In other words 1/1/2001 1:00PM and 1/1/2001 4:PM will be considered the same values. Since our data does not use time, we can continue using Day as a minorStep.

Major step is used to define the label's spacing and is currently set to 1 Week. This tells the engine to display weekly labels using local first day of week as the day of week to display. You need to set the majorUnit to 2 in order to display every other week.

The resulting chart will look like:

