

# Business Graphic Solutions



## Unit: Web Dynpro Business Graphics

### Topic: Simple Business Graphics

#### 1 Overview

This exercise will test your knowledge on how to create simple business graphics. If you run into any problems you should review the presentation on simple business graphics. Everything you need to know to do this exercise is contained in that presentation.

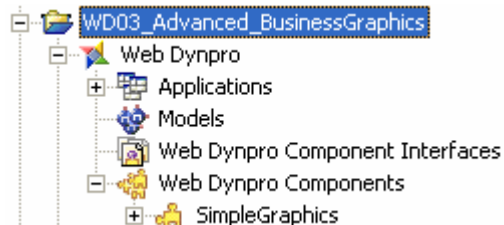
#### 2 Prerequisites

- 2-1 The SAP NetWeaver Developer Studio is installed on your computer.
- 2-2 You have access to the SAP J2EE Engine (Release 6.40), and it has been configured for using the Internet Graphics Server (IGS).

#### 3 Solution Guide

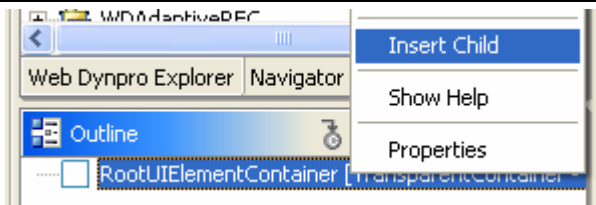
##### 1 Open the project template in the exercise directory called **WD03\_Advanced\_BusinessGraphics**.

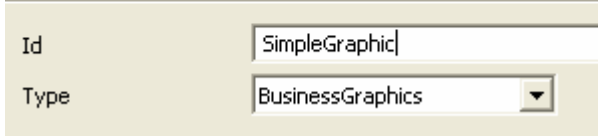
Once opened you will see that the project template already includes an Application, Web Dynpro Component, and a View.

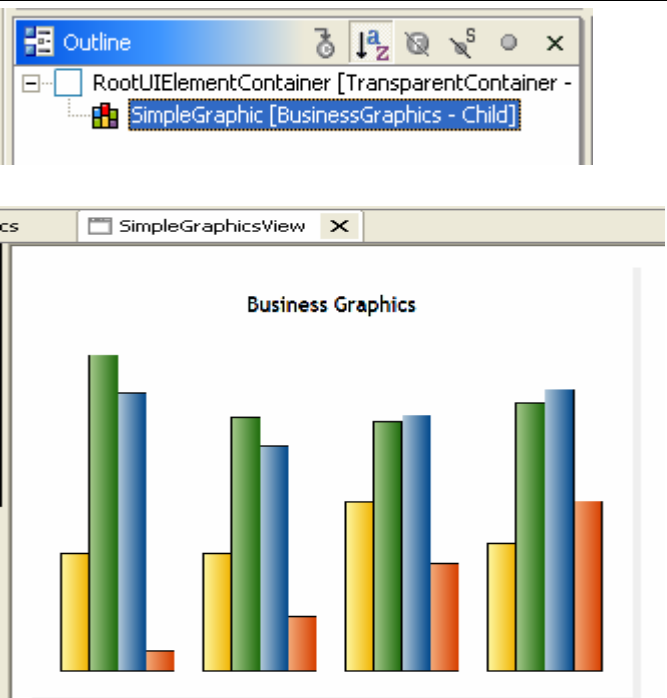


##### 2 Open the view called **SimpleGraphicsView** and add a **Business Graphic** to the layout.

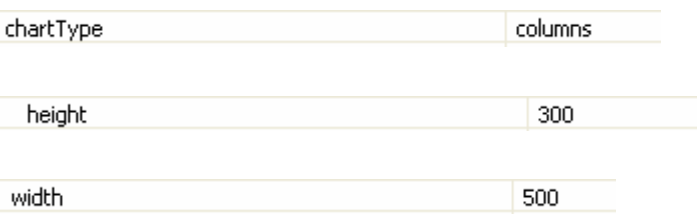
- Open the SimpleGraphicsView.
- Right click on the "RootUIElementContainer" in the Outline pane and select "Insert Child".



<ul style="list-style-type: none"> <li>- In the “New Element” popup window, select the element “Type” of BusinessGraphics.</li> <li>- Give your Element the name “SimpleGraphic”.</li> </ul>	<p><b>Create new element</b></p> 
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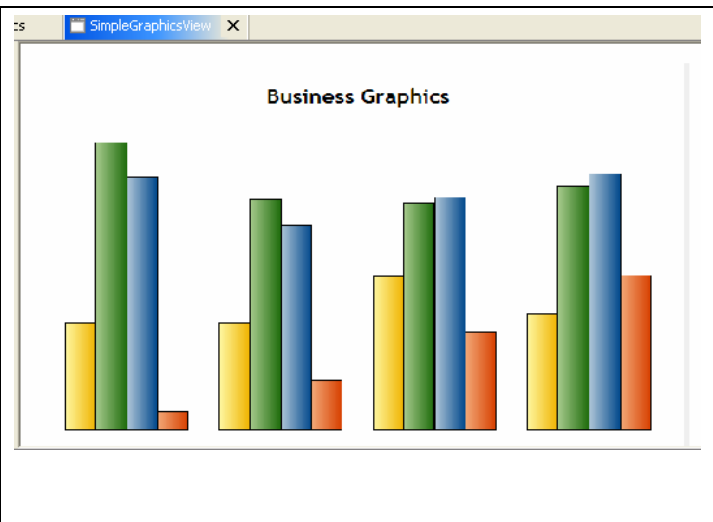
<p><b>Result</b></p> <p>The Business Graphic element is placed in your view.</p> <p>You can see it both in the Outline pane, and the Layout pane, both shown here.</p>	
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### 3 Set the properties of the Business Graphic appropriately.

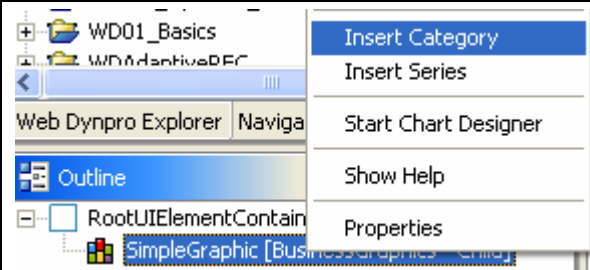
<ul style="list-style-type: none"> <li>- Highlight “SimpleGraphic” element in your view. Then go to the “Property” view in the bottom right hand pane.</li> <li>- Ensure that the property chartType is set to “columns”.</li> <li>- Change the height property to 300</li> <li>- Change the width property to 500</li> </ul>	
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**Result**

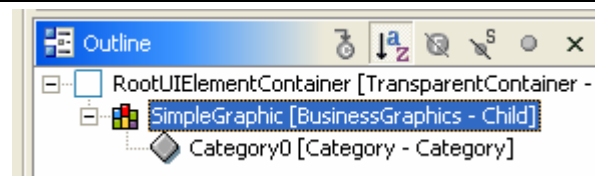
You will see that Business graphic in your View's layout has been resized, and is now shown as a column cart, if it already wasn't.

**4 Add a category to your Business Graphic.**

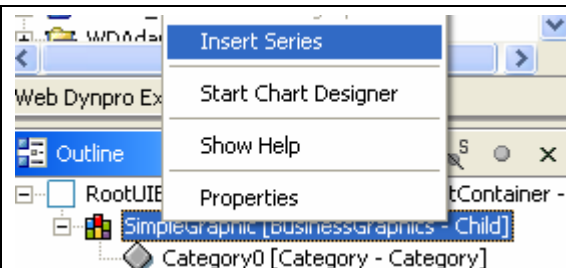
- Right Click on the "SimpleGraphic" element in the Outline pane.
- In the menu select "Insert Category"


**Result**

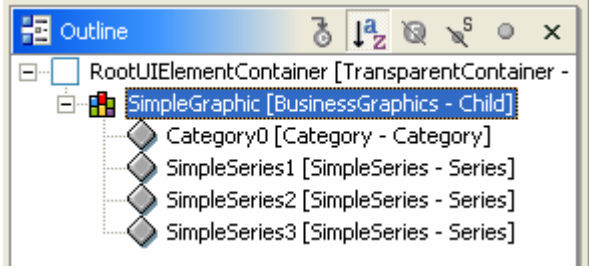
A Category node is added to your Business Graphic, and can be seen in the Outline pane.

**5 Add 3 Simple Series to your Business Graphic.**


- Right Click on the "SimpleGraphic" element in the Outline pane.
- In the menu select "Insert Series".



<ul style="list-style-type: none"> <li>- In the popup window, select the type to be “SimpleSeries” in the dropdown</li> <li>- Click “Finish” and repeat the steps 2 more times.</li> </ul>	
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<p><b>Result</b></p> <p>The Business Graphic now contains 3 SimpleSeries nodes, and can be seen in the Outline pane.</p>	
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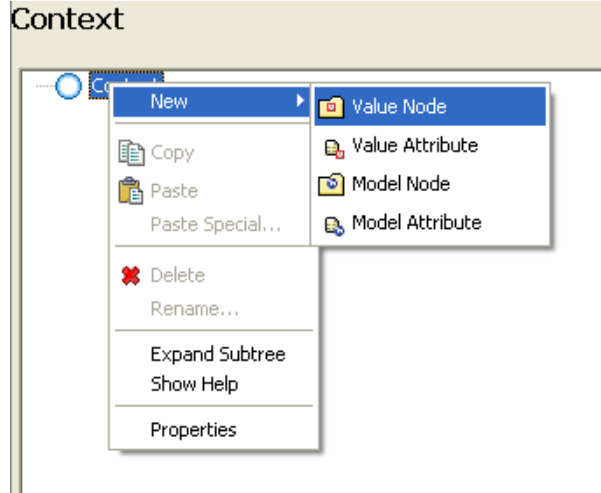
## 6 Set the “label” property of your Simple Series.

<ul style="list-style-type: none"> <li>- Highlight the first SimpleSeries element that you created in the Outline pane.</li> <li>- Go to the Properties view in the bottom right hand pane.</li> <li>- Set the label property to be “Biz One”</li> <li>- Do the same for the other 2 SimpleSeries, (Biz Two, Biz Three)</li> </ul>	
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<p><b>Result</b></p> <p>You will see the result once you run your application. In the resulting business graphic image a legend will be created with the labels you have created.</p>	
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## 7 Create the necessary elements in your views context.

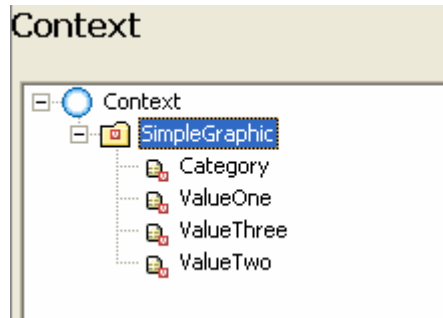
- Go to the “Context” view of your View.
- Right Click on the “Context” node and in the menu select “New > Value Node”.
- In the popup give it the name “SimpleGraphic”.
- Click “Finish”.
- Add 4 “Value Attributes” to the node “SimpleGraphic” in your context – with the names: Category, ValueOne, ValueTwo, and ValueThree.
- Category should be of type “string”
- ValueOne, ValueTwo, and ValueThree should be of type “double”.



### Result

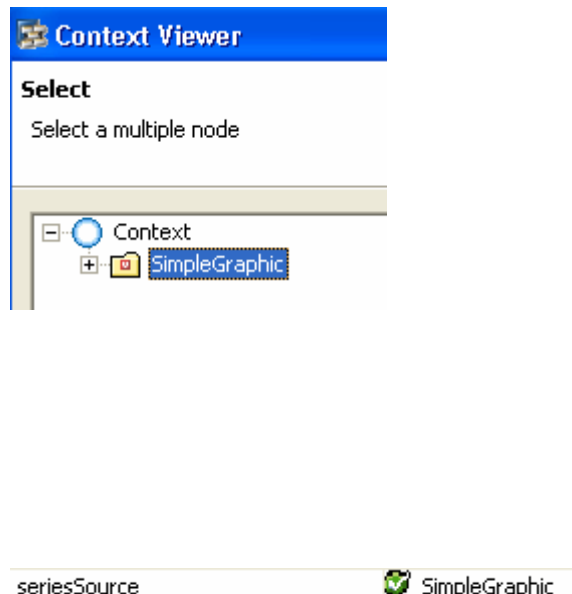
You will have your context setup as show to the right.

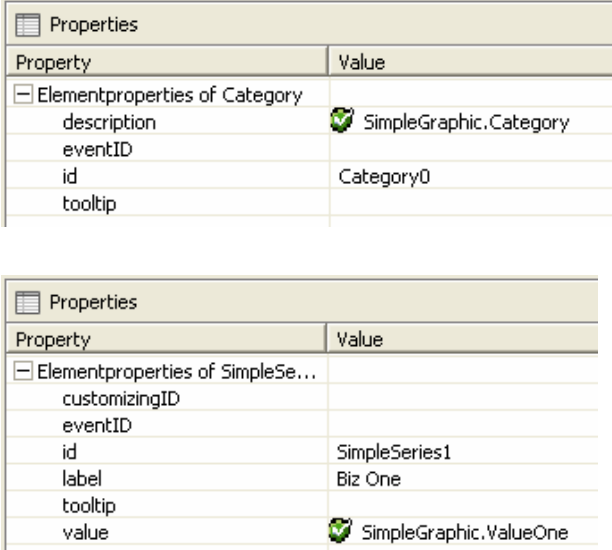
The “type” property will also be set as described above for each of your Value Attributes.



## 8 Map your Business Graphic, SimpleSeries, and Category to the context elements.

- Select the “Layout” of the SimpleGraphicsView.
- In the Outline pane of the SimpleGraphicsView, highlight the “SimpleGraphic” node.
- In the Property view in the bottom right hand pane, set the “seriesSource” property.
- Click the button shown in the seriesSource This will show a popup window of your views context.
- In the context popup select the node “SimpleGraphic”, then click “OK”.
- The seriesSource property will



<p>then be set as shown.</p> <ul style="list-style-type: none"> <li>- Set the “Category” view element’s “description” property to the context SimpleGraphic.Category</li> <li>- Set the “SimpleSeries1” view element’s “value” property to the context SimpleGraphic.ValueOne.</li> <li>- Set the “SimpleSeries2” view element’s “value” property to the context SimpleGraphic.ValueTwo.</li> <li>- Set the “SimpleSeries3” view element’s “value” property to the context SimpleGraphic.ValueThree.</li> </ul>	
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<p><b>Result</b></p> <p>The view’s layout and context is now set. Now all that is left to do is add some coding to the view’s implementation that will fill the view’s context with data.</p>	
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<p><b>9 Add code to fill the view’s context.</b></p>	
<ul style="list-style-type: none"> <li>- Go to the “Implementation” of the view SimpleGraphicsView.</li> <li>- Add the code shown below to the wdDoInit(...) method.</li> </ul>	

```

IPrivateSimpleGraphicsView.ISimpleGraphicNode graphicNode
    = wdContext.nodeSimpleGraphic();
IPrivateSimpleGraphicsView.ISimpleGraphicElement graphicElement;

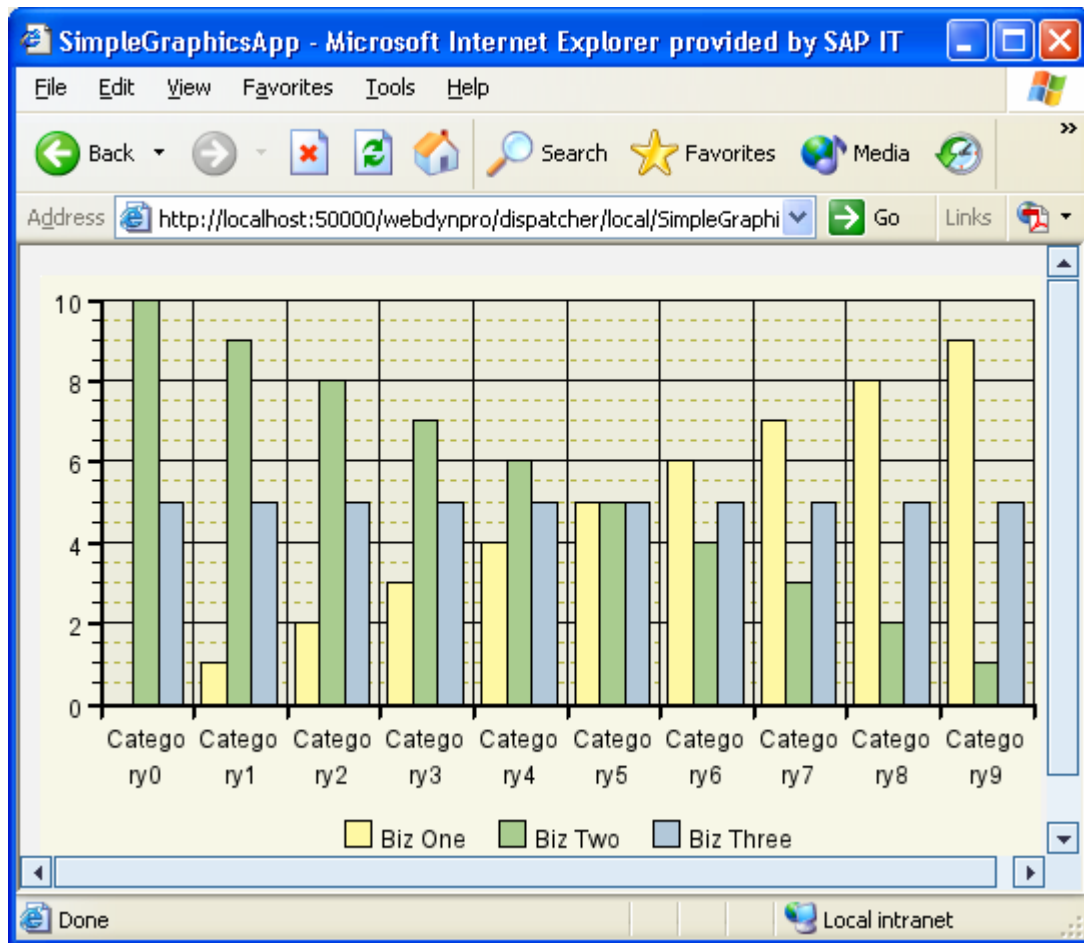
for (int i=0; i<10; i++) {
    graphicElement = graphicNode.createSimpleGraphicElement();
    graphicElement.setCategory("Category" + i);
    graphicElement.setValueOne(i);
    graphicElement.setValueTwo(10 - i);
    graphicElement.setValueThree(5);
    graphicNode.addElement(graphicElement);
}

```

**Result**

Your application is now ready to run!

Deploy and Run you application...you should see the below image show up in your browser.



# Solutions



## Unit: Web Dynpro Business Graphics

### Topic: Introduction to the Chart Designer

#### 1 Overview

This solution will step you through using the Chart Designer to customize the Business Graphic that you created in Exercise 1.

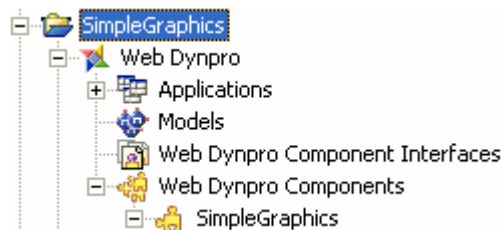
#### 2 Prerequisites

- 2-1 The SAP NetWeaver Developer Studio is installed on your computer.
- 2-2 You have access to the SAP J2EE Engine (Release 6.40), and it has been configured for using the Internet Graphics Server (IGS).
- 2-3 You have successfully finished exercise 1 – Simple Business Graphics.

#### 3 Solution Guide

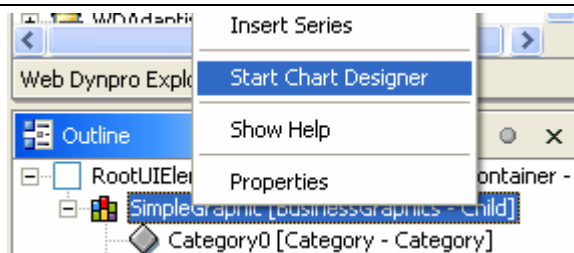
##### 1 Open the SimpleGraphics Project.

- Open your project that you completed in Exercise 1 – Simple Business Graphics. The name of the project should be “SimpleGraphics”.



##### 2 Start the Chart Designer.

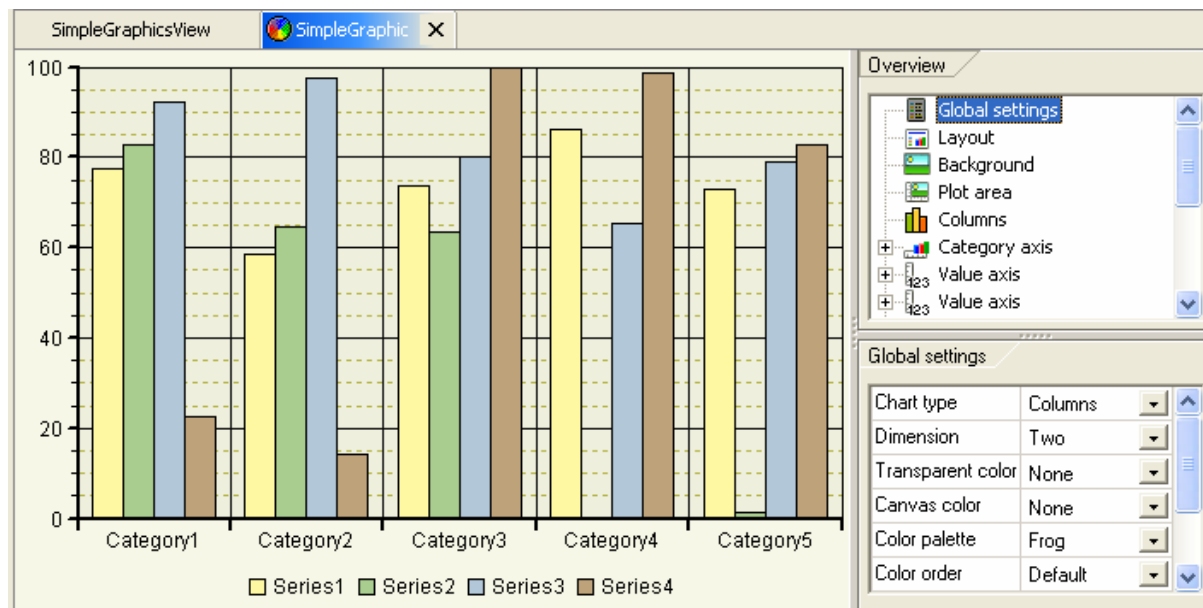
- Open the view SimpleGraphicsView.
- Go to the “Layout” of the view.
- In the Outline pane, right click on your Business Graphic “SimpleGraphic” and in the menu select “Start Chart Designer”.





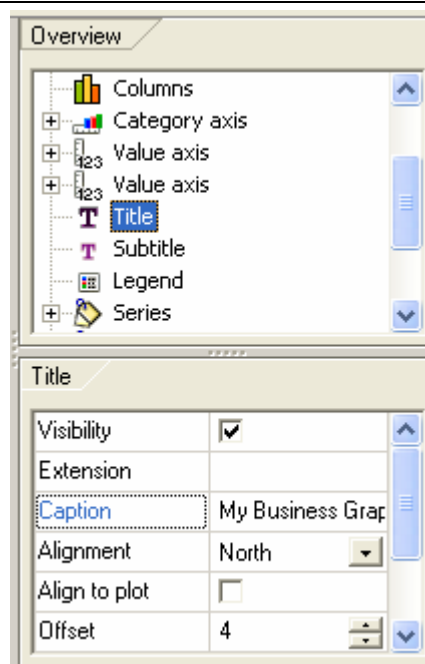
## Result

The Chart Designer will show up in the upper right hand pane for your Business Graphic. It is shown in the image below.

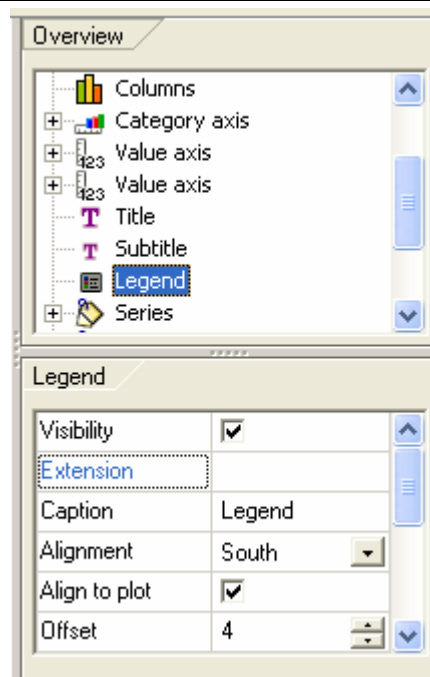


### 3 Edit the properties of your Business Graphic using the Chart Designer

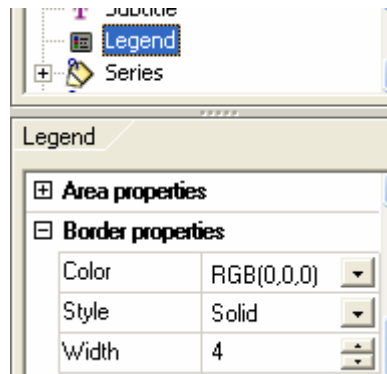
- Set the Title of your business graphic. Just highlight the "Title" element in the "Overview" pane. Then enter your title in the "Caption" property.



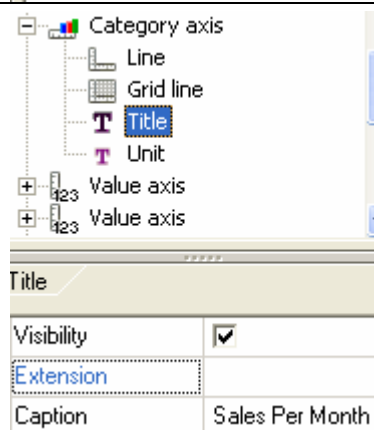
- Set the Legend caption. Same process you did for the “Title”, but for “Legend”.



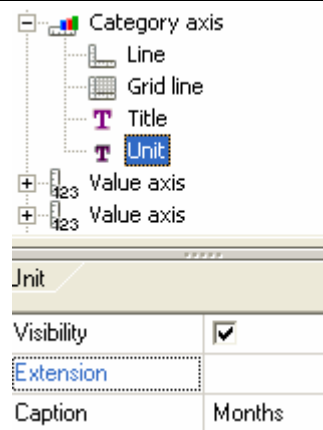
- Set the Border properties of the legend to have a solid black border.



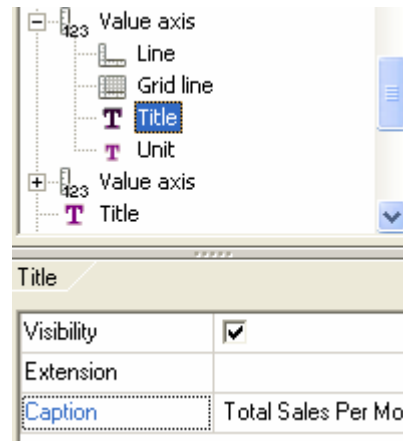
- Set the Title and Unit “caption” property under the “Category axis” element. (Open up the node, you will see a Title element).



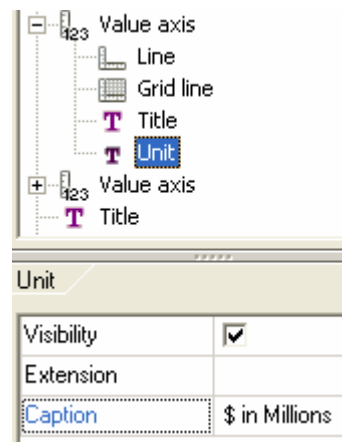
- Set the Unit caption >




- Do the same as above but for the first Value Axis node.
- Set the Value Axis Title Caption

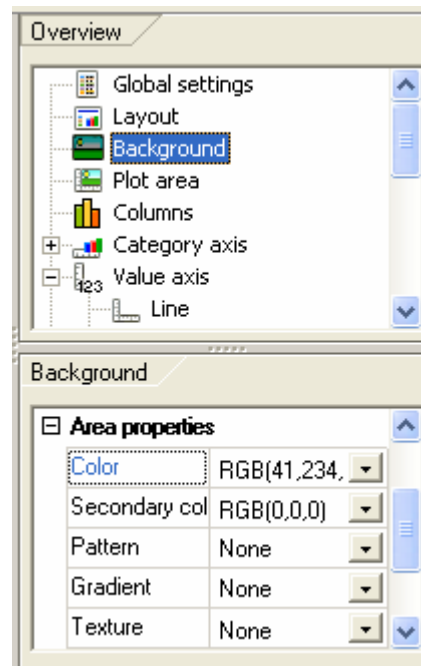


- Set the Value Axis Unit Caption



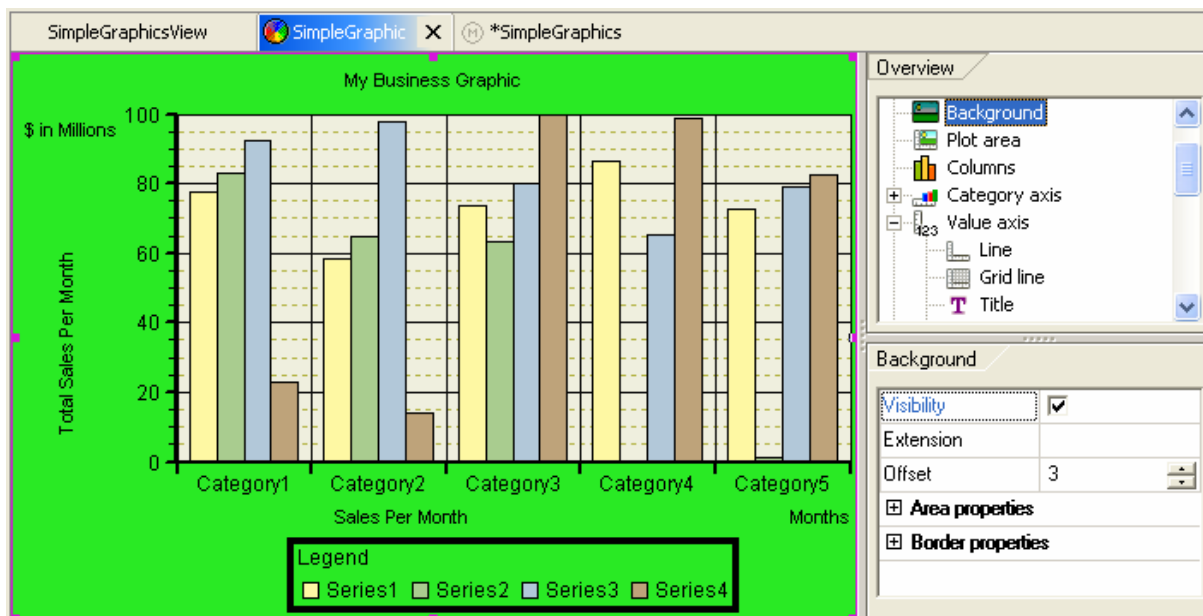
- Change the Background Color.
- Highlight the “Background” element in the Overview pane. Under “Area Properties” you can set the color.

- Go ahead and play around with all the settings and see what effect they have on your Business Graphic...have fun!
- Don’t forget to save your Meta Data! 



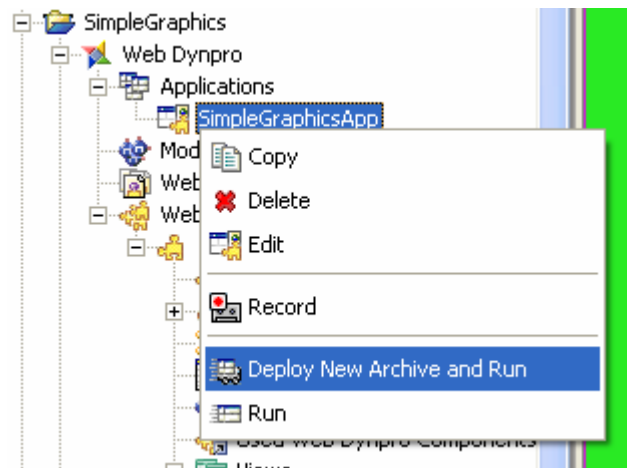
## Result

The Chart Designer will now show your chart looking something like the image below...of course it depends on how you customized your Business Graphic!



#### 4 Deploy and Run your application

- Highlight the application node "SimpleGraphicsApp" and select "Deploy New Archive and Run".



#### Result

The browser should start up and look somewhat similar to what you see below. Again, it depends on what customizing settings you made using the Chart Designer.

