

# Generating Fantastic Graphs with EG – Hands on Workshop

## Exercise 1: Accessing Data (SALES\_09, SASHELP.CLASS, & COWBOYHAT)

1. Look in the Server list, expand the Libraries icon, find the **SASHELP** library.
2. Drag the **CLASS** dataset into the **Process Flow** tab of the Project Designer.
3. Find the **Cowboyhat** data set from the server list:  
`c:\Program Files\SAS\Enterprise Guide 4 \ Sample\Data\cowboyhat.sas7bdat.`
4. Browse in the server list to find the **Sales\_09** data set (this needs to be sent by Ben).

## Exercise 2: Creating a Vertical Bar Chart

1. Select **SALES\_09** data set, then double click on the **Bar Chart** task in the Task list.
2. Select **Simple Vertical Bar** Chart from the Chart Gallery.
3. Drag **sales\_year** and drop it on **Column** to chart.
4. Select the **Bar** pane (just underneath **Appearance**).
5. Select '**Specify number of bars**', then **One bar for each unique data value**.
6. Select **Run**.

### Modify the Bar Chart

1. After viewing the report, go back to the **Process Flow** window and select the **Bar Chart** task.
2. Go to the **Task Roles** pane and drag **qty** and drop it on **Sum of**.
3. Select **Run**.

### Creating a Stacked Vertical Bar Chart

1. Go back to the **Process Flow** window and select the **Bar Chart** task.
2. Select **Stacked Vertical Bar Chart** from the **gallery**.
3. From the **Task Roles** pane, drag **sales\_year** and drop it on **Column to chart**.
4. Drag **region** and drop it on **Stack**.
5. Drag **qty** and drop it on **Sum of**.
6. Select **Run**.

## Exercise 3:

### Creating a Grouped / Stacked Vertical Bar Chart

1. Go back to the **Process Flow** window and select the **Bar Chart** task.
2. Select **Grouped / Stacked Vertical Bar Chart** from the **gallery**.
3. From the **Task Roles** pane, drag **sales\_year** and drop it on **Column to chart**.
4. Drag **region** and drop it on **Group bars by**.
5. Drag **store** and drop it on **Stack**.
6. Drag **qty** and drop it on **Sum of**.
7. Select **Run**.

## Exercise 4:

### Creating a 3D Grouped / Stacked Vertical Bar Chart

1. Go back to the **Process Flow** window and select the **Bar Chart** task.
2. Select **3D Grouped / Stacked Vertical Bar Chart** from the **gallery**.
3. From the **Task Roles** pane, drag **sales\_mon** and drop it on **Column to chart**.
4. Drag **sales\_year** and drop it on **Group bars by**.
5. Drag **region** and drop it on **Stack**.
6. Drag **qty** and drop it on **Sum of**.
7. Select **Run**.

Select **Graph Properties** from the pop-up menu when you click on the output with the RMB.

- a. Change the Style. (Graph tab).
- b. Change the Bar shape to Hexagon (Bar tab).
- c. Change the Chart type to **Pie**.

Select **Graph Toolbar** from the pop-up menu when you click on the output with the RMB.

- d. Select the **Rotate** tool and rotate the graph.
- e. Zoom in and out with the Zoom tool.
- f. Change the lighting effect.
- g. Reset the chart view.

## Exercise 5:

### Creating a Scatter Plot:

1. Go to the **Server list** and find the **CLASS** data set in the **SASHELP** library of the Local Server.
2. Drag the **CLASS** data set to the Process flow window.
3. Select the Scatter Plot task. From the **Scatter Plot** pane, select **3D Scatter Plot with Needles**.
4. From the **Task Roles** pane, drag **Weight** and drop it on **Horizontal**.
5. Drag **Height** and drop it on **Vertical**.
7. Drag **Age** and drop it on **Depth**.
8. Select **Run**.

## Exercised 6:

### Creating a 'Cowboy Hat':

1. Find the **Cowboyhat** data set from the server list:  
**c:\Program Files\SAS\Enterprise Guide 4 \ Sample\Data\cowboyhat.sas7bdat.**
2. Drag it into the Process Flow window. Select the Scatter Plot task.
3. From the **Scatter Plot** pane, select **3D Scatter Plot with Needles**.
4. From the **Task Roles** pane, drag **X** and drop it on **Horizontal**.
5. Drag **Z** and drop it on **Vertical**.
6. Drag **Y** and drop it on **Depth**.
7. Select **Run**.

## Exercised 7:

### Creating a Surface Plot

1. From the **Process Flow** window and with the **CLASS** data set highlighted, select the **Surface Plot** task.
2. From the **Surface Plot** pane, select **3D Wire Frame Surface Plot**.
3. From the **Task Roles** pane, drag **Age** and drop it on **Horizontal**.
4. Drag **Height** and drop it on **Vertical**.
5. Drag **Weight** and drop it on **Depth**.
6. Go to the **Data** pane and check **Grid data before use**, then select **Run**.
7. After viewing the report, go back and select **3D Smooth Surface Plot** and **run** it.
8. Next, go back and select another type of surface plot and run it.

## Exercise 8:

### Create a Map from the MAPS.CNTYNAME dataset

1. Go to the **Server list** and find the **CNTYNAME** data set in the **MAPS** library of the Local Server.
2. Drag the **CNTYNAME** data set to the Process flow window.
3. Select the Map Graph task from the Task list. From the **Map Graph** pane, select **3D Prism Map**.
4. From the **Task Roles** pane, drag **CNTYNAME** and drop it on **Column to Chart**.
5. Drag the **\_MAP\_GEOMETRY\_** variable and drop it on the **Map Geometry task**.
6. Select **Run**.