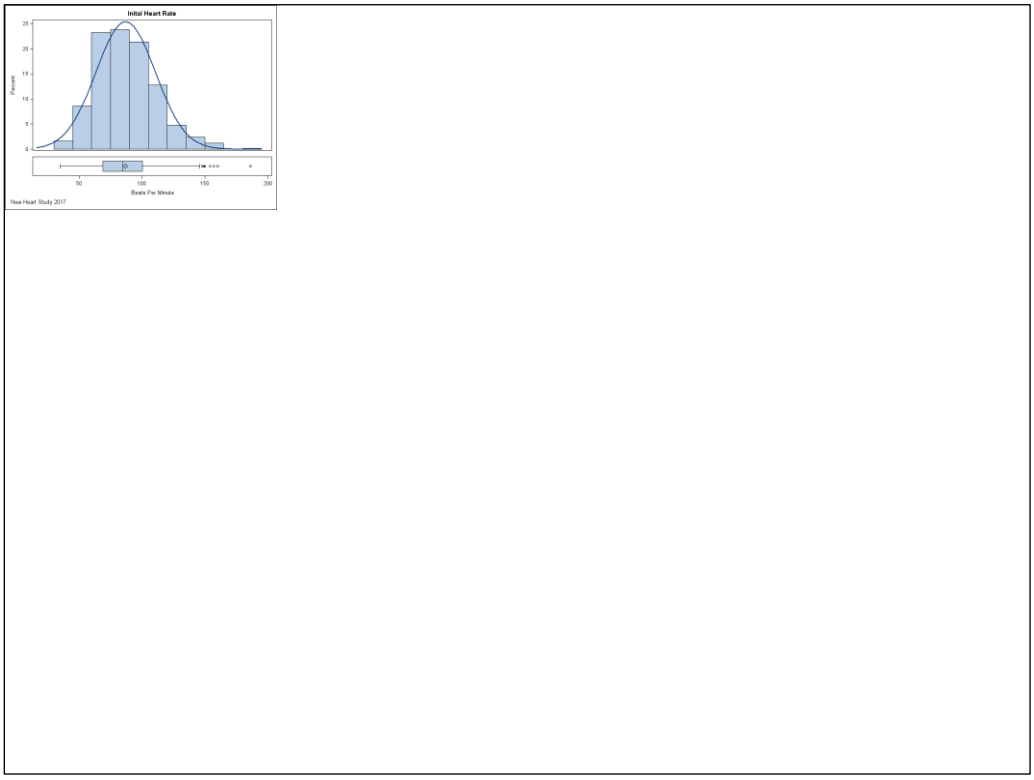
SAS 9.4 ODS Graphics: Step-by-Step Example Using the Designer's Point & Click/Drag & Drop Features

About This Example

In this example, you create a paneled graph with two cells, each containing different types of plots. The graph shows the initial heart rate for adults 18 and older. A normal resting heart rate is between 60 and 100 beats per minute, depending on the person's physical condition and age. This example uses the SASCLASS.NEWHEART data set.

Two-Cell Graph Example

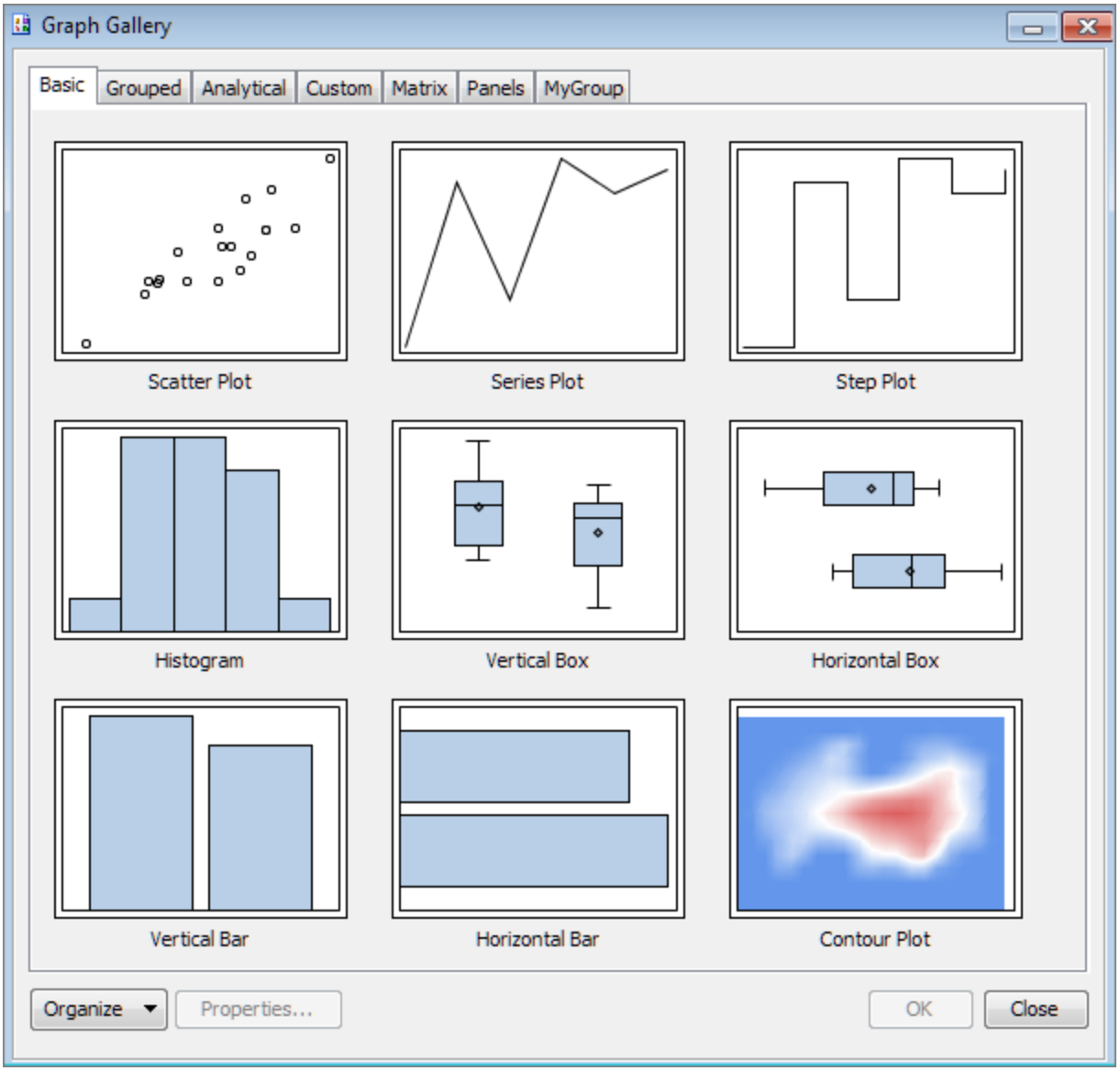


There are several ways to create and customize this graph. The following steps show one way to create the graph.

Step One: Create the First Cell and Assign Data

1. Start the ODS Graphics Designer. In the SAS windowing environment, select **Tools➧ODS Graphics Designer**. The designer opens and displays the Graph Gallery.

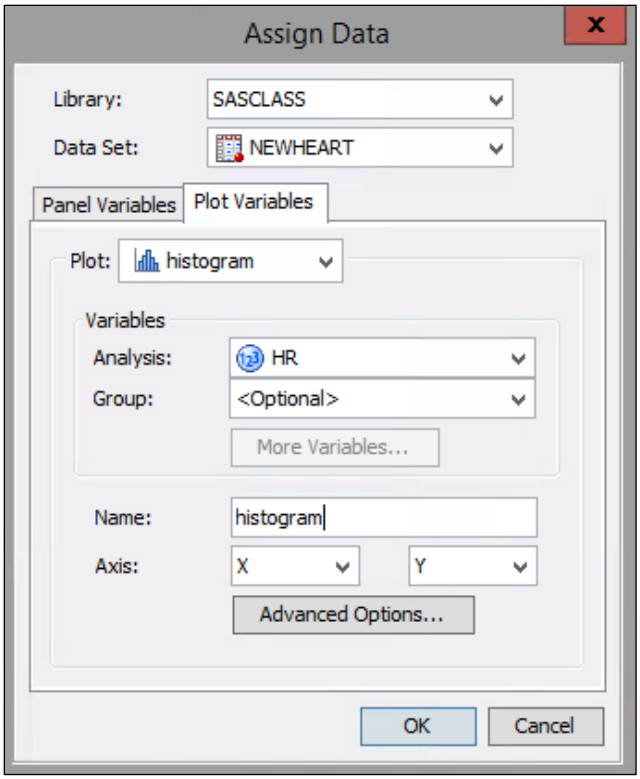
2. On the **Basic** tab of the Graph Gallery, double-click the **Histogram** icon.



The Assign Data dialog box appears. When you create a graph from the Graph Gallery, placeholder data is assigned to the graph's plot. To use other data, you must first run a SAS program using that data so that the SAS program can recognize its library location. The Assign Data dialog box enables you to easily change the data that is associated with the plot.

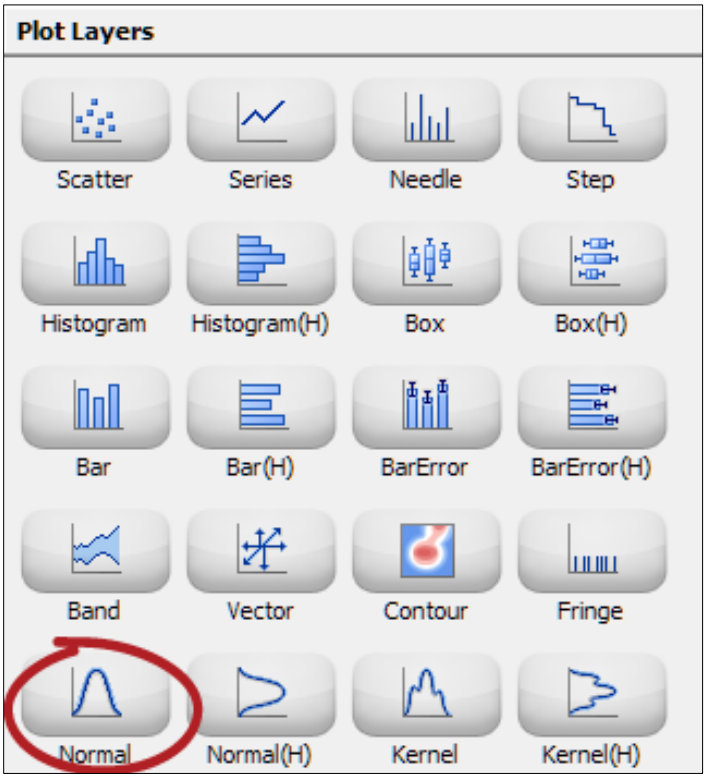
3. In the Assign Data dialog box, complete these steps:

    - Select **SASCLASS** from the **Library** list box, if it's not already selected.
    - Select **NEWHEART** from the **Data Set** list box.
    - Select **HR** from the **Analysis** list box.



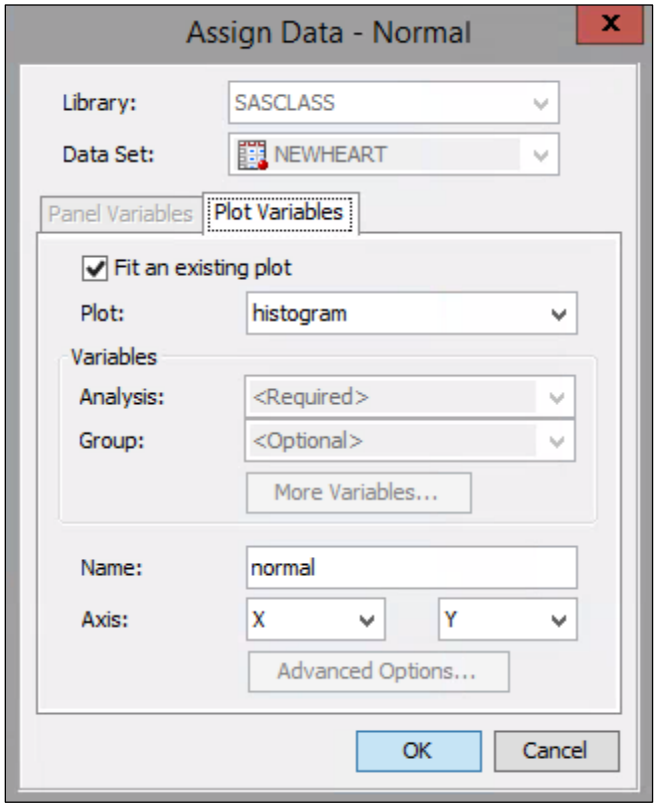
4. Click **OK**.

5. From the **Plot Layers** panel of the **Elements** pane, click and drag the **Normal** icon to the graph.



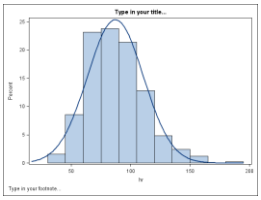
The Assign Data dialog box appears.

6. In the Assign Data dialog box, do not change the default selections.



Click **OK**. A normal curve is added to your graph.

Here are the results of your graph so far.



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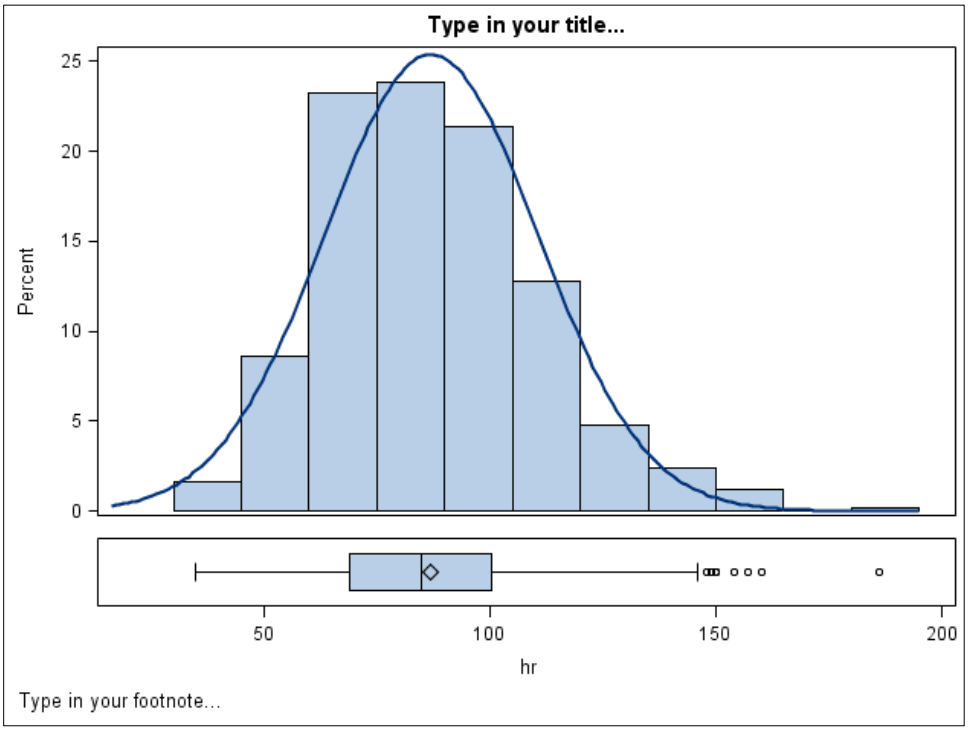
Step Two: Add a Second Cell, Adjust Cell Height, and Use a Common Axis

1. Right-click anywhere within the plot area and select **Add a Row**. A new row cell is added below the histogram.
2. From the **Plot Layers** panel, click and drag the **Box(H)** icon to the new cell. The Assign Data dialog box appears.
3. In the Assign Data dialog box, complete these steps:
    - If they are not already selected, select **SASCLASS** from the **Library** list box and **NEWHEART** from the **Data Set** list box.
    - Select **HR** from the **Analysis** list box.
4. Click **OK**.
5. Specify that both cells share a common X axis.

Right-click the bottom axis label and select **Common Column Axis**.

Here are the results of your changes.



Step Three: Customize the Title and Footnote

1. Double-click the placeholder title. The placeholder text is highlighted:

2. In the text box, enter **Initial Heart Rate**.

3. In the bottom left corner of the graph, double-click the placeholder footnote. The placeholder text is highlighted.

4. In the text box, enter **New Heart Study 2017**.

Step Four: Save the Graph

Save this graph so that you can later return to it. The next section references this example.

1. Select **File** ➡ **Save As**.

2. Save the file to the desired location. Specify the name that you want for the file. For example, you might enter **NHS2017heartrate**. The file type **SGD Files (*.sgd)** is selected by default.

3. Click **Save**.