



Using Custom Graph Builder

Using Custom Graph Builder

1 Interface Overview

2 Creating Custom Graph Objects

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Chapter Objectives

Upon completion of this chapter, you will be able to

- Describe the features of the SAS Visual Graph Builder
- Access the Graph Builder from the Home Page and Designer
- Add graph elements
- Set graph properties
- Set role definitions
- Save and use graph objects

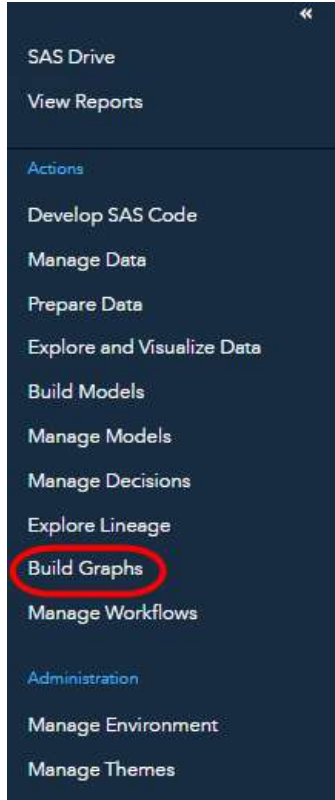
SAS Visual Analytics Graph Builder

SAS Visual Analytics Graph Builder enables you to create graph objects which can be used in reports created in SAS Visual Analytics “Explore and Visualize Data” Interface. You can:

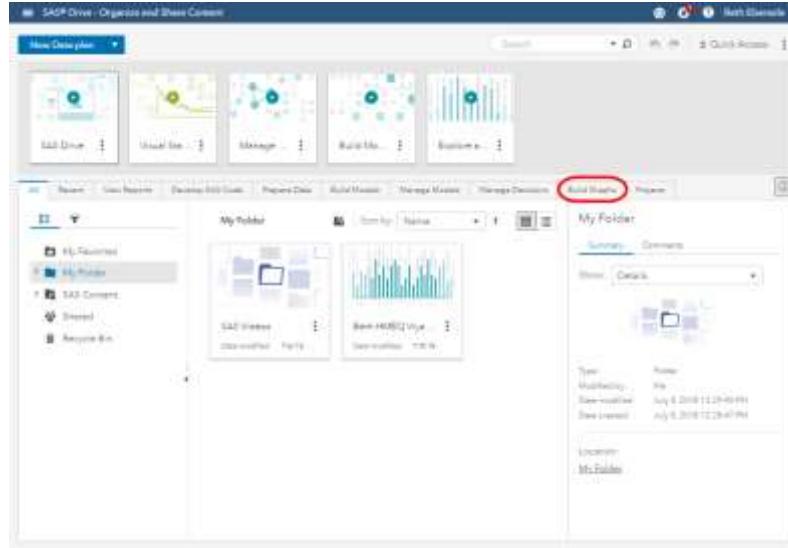
- Drag and drop graph elements onto the canvas
- Combine and arrange graph elements as needed
- Determine and configure which data roles are available for assignment
- Specify visual attributes of the graph elements

Accessing the Graph Builder

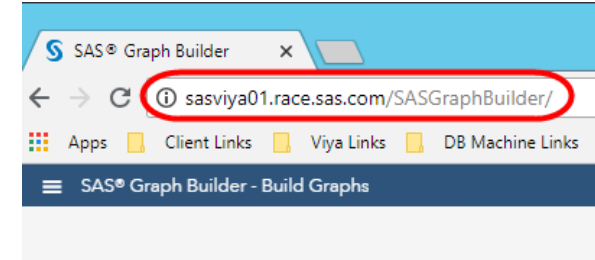
Side menu



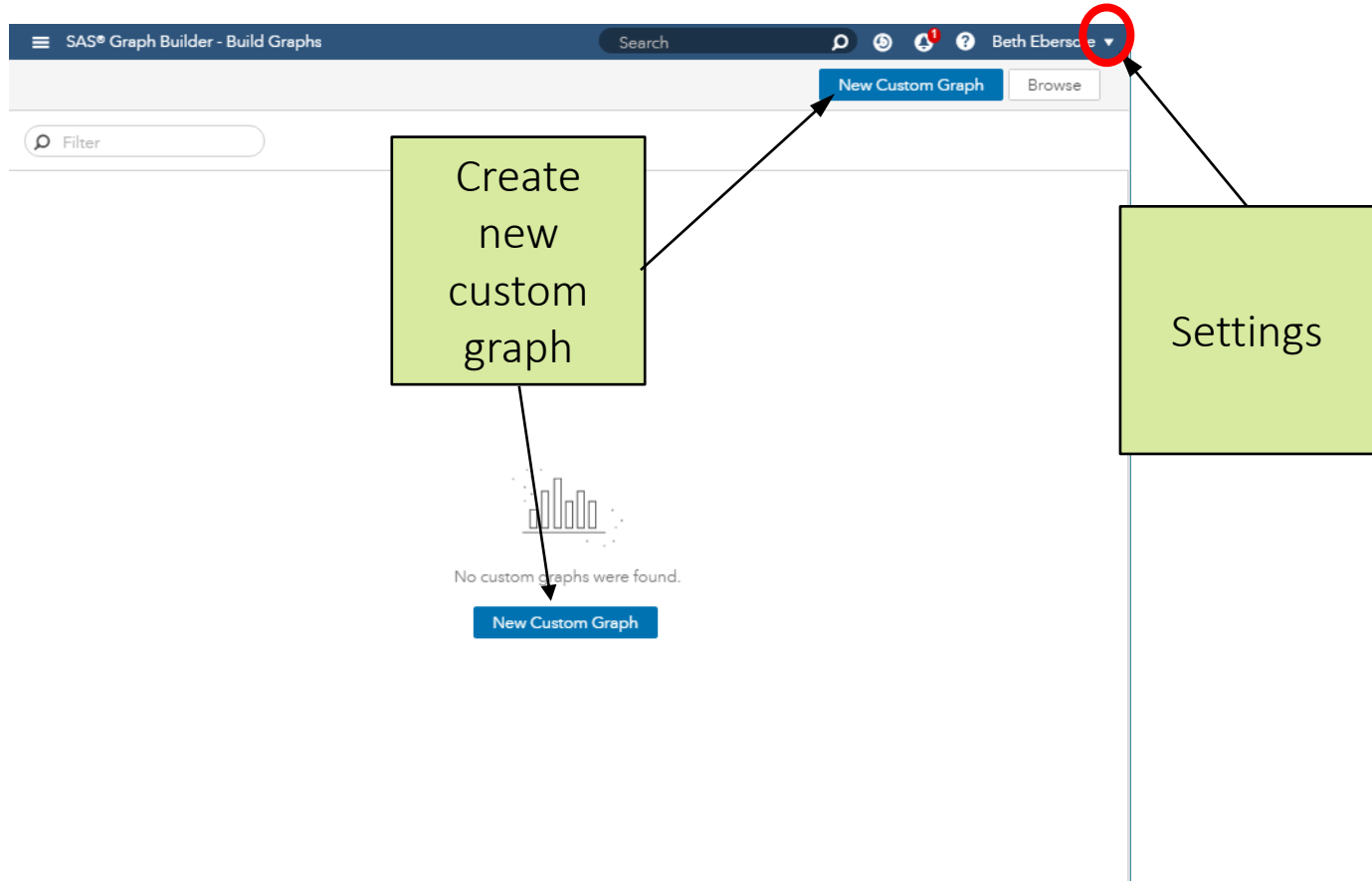
SAS Drive



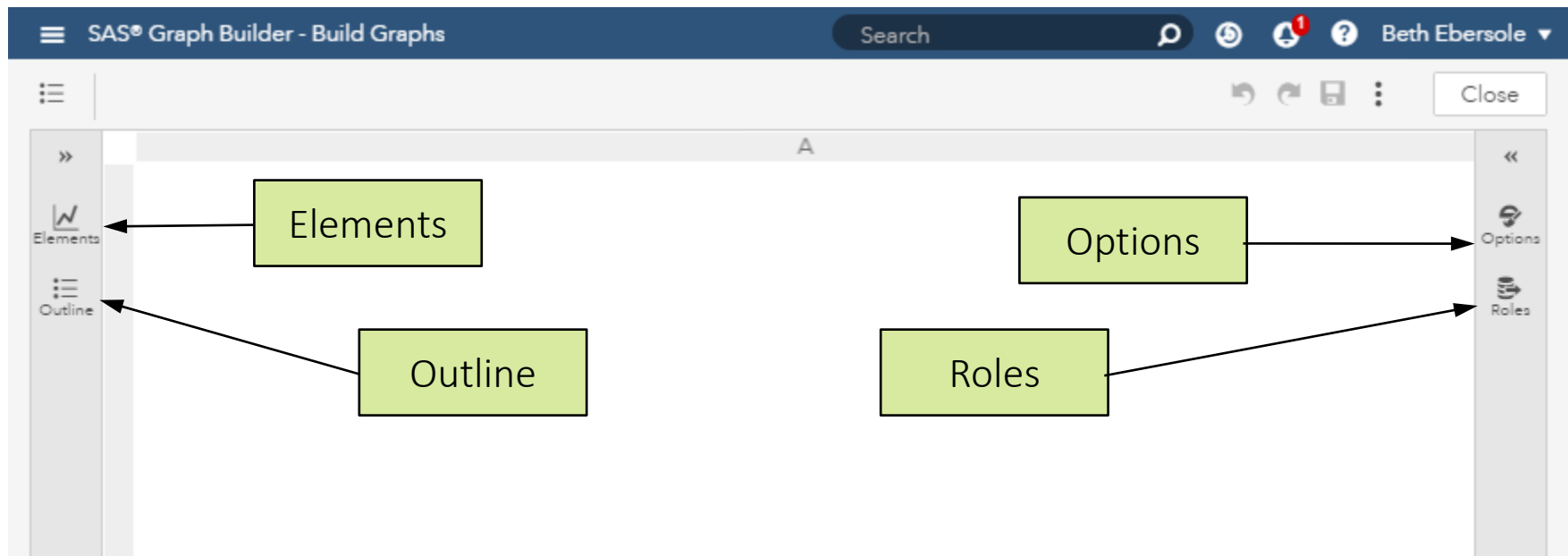
Direct link



Graph Builder Interface



Graph Builder Interface

















Available Graph Elements

You can create a custom graph using the following graph elements:

- Scheduled Bar Chart
- Series Band Plot
- Step Bubble Plot
- Time Series Chart
- Treemap Needle Plot
- Vector Pie Chart
- Waterfall Chart

Graph Elements

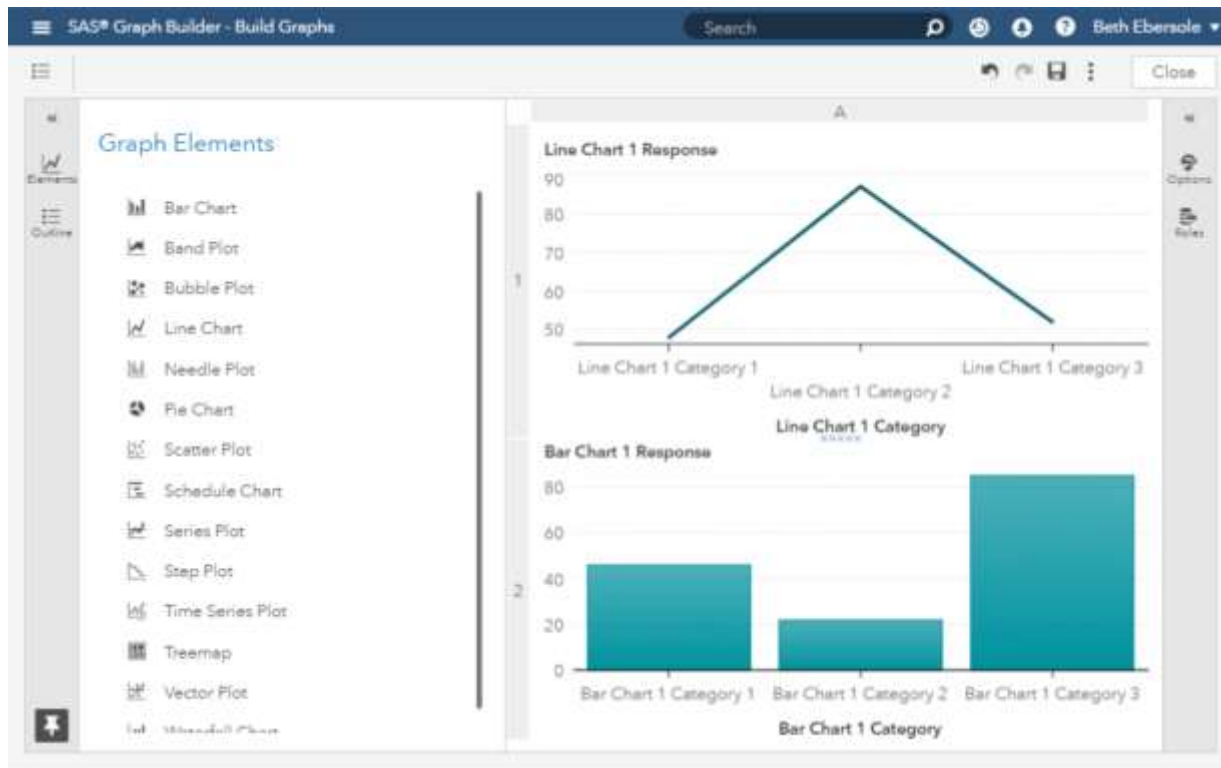
-  Bar Chart
-  Band Plot
-  Bubble Plot
-  Line Chart
-  Needle Plot
-  Pie Chart
-  Scatter Plot
-  Schedule Chart
-  Series Plot
-  Step Plot
-  Time Series Plot
-  Treemap
-  Vector Plot
-  Waterfall Chart

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Adding Graph Elements



Setting Role Definitions

The image shows the SAS Data Roles configuration interface. On the left, a dialog box titled "Add Shared Role" is open. It contains the following fields and options:

- Role Name:** A text input field containing "Shared Category".
- Classification:** A group of radio buttons with the following options:
 - ☐ Any classification
 - ☒ Category (This option is circled in red)
 - ☐ Datetime
 - ☐ Measure
- ☐ Required
- ☐ Allow multiple data assignments
- Buttons:** "OK" and "Cancel" buttons at the bottom right.

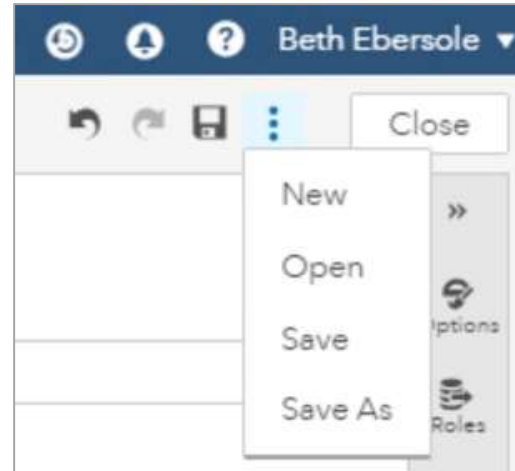
On the right, the "Data Roles" sidebar is visible. It has a "Roles" icon circled in red. Under the "Shared Roles" section, a "+ Add Role" button is circled in red. Below this, the "Data-Driven Lattice Roles" section contains a warning: "Data-driven lattice roles cannot be used when the template has more than one cell." The "Graph" section shows a role definition for "Line Chart 1" with the following roles:

| Role | Value |
|-----------|------------------------|
| Category* | Line Chart 1 Category* |
| Response* | Line Chart 1 Response* |

At the bottom of the sidebar, there is a "+ Add Role" button.

Saving a Custom Graph

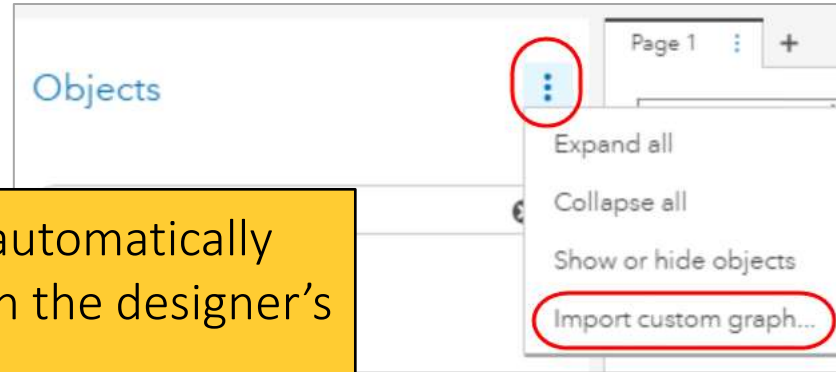
- Use the **More options** snowman (vertical ellipsis) and select **Save** or **Save as** or
- Click on the Save icon



Importing a Custom Graph

To add a custom graph object to the **Objects** pane select the graph object

- Use the snowman (vertical ellipsis) to expand the Objects actions
- Select Import custom graph
- Navigate to the custom graph you wish to import and select it
- Click OK



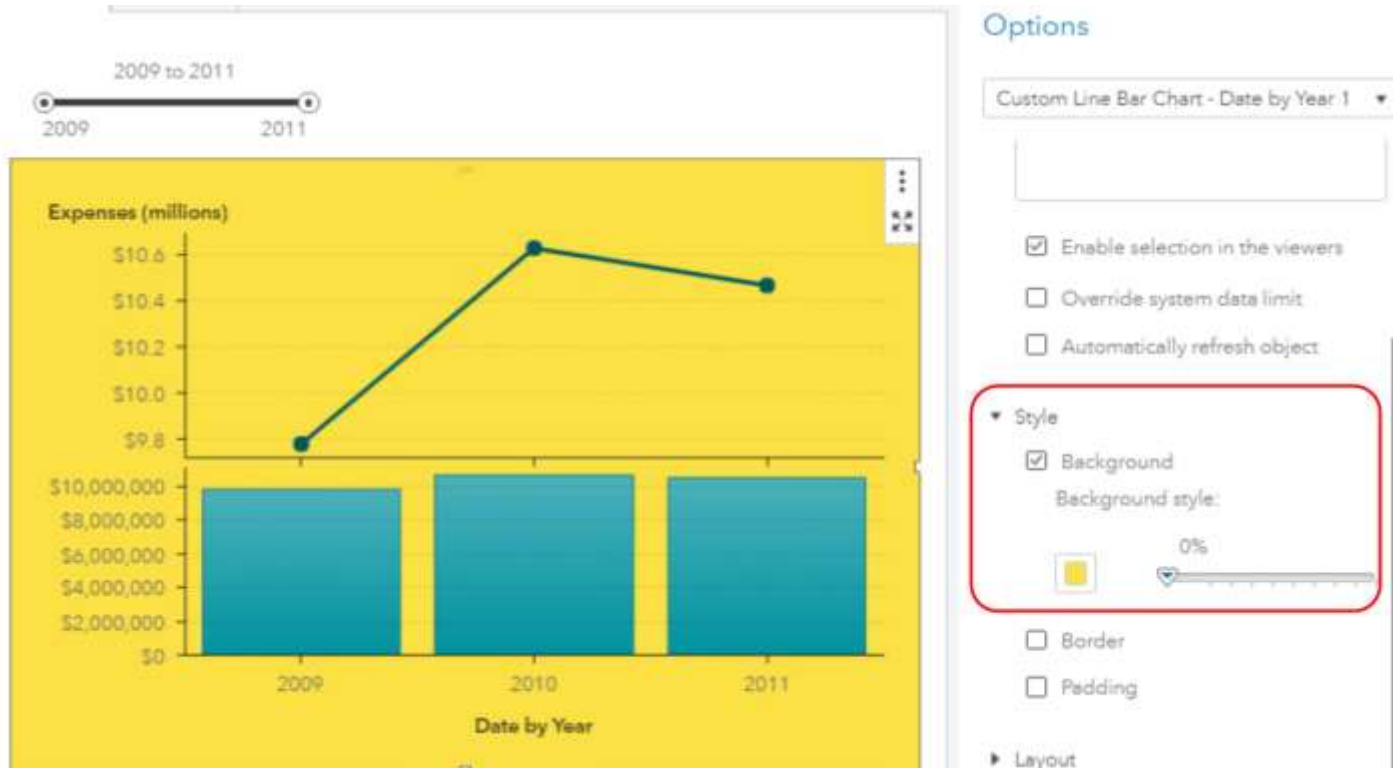
Custom graph objects are NOT automatically displayed in the list of objects on the designer's object tab

Using a Custom Graph

- Once you have imported the custom graph, it shows up in your **Objects** pane under **Graphs**.
- Use it like any other graph object.



Custom Graphs Can Be Edited





Exercise: Custom Graph

In this exercise you create a custom graph with shared roles.

Complete the steps in:

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