



SAS[®] Graph Builder

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Access the Graph Builder

Side Menu

SAS Drive

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SAS Drive - Share and Collaborate

Search

Projects Prepare Data Reports Build Models Manage Models Build Decisions Develop SAS Code Analyze IoT Data **Build Custom Graphs** All Recent

Filter: Build C...

Item Name	Name	Date Created	Created By	Date Modified	Modified By
	<input type="checkbox"/> Bar Chart Trio	08/20/20 12:15 PM	Me	08/20/20 12:15 PM	Me
	<input type="checkbox"/> Bar Chart Trio (H)	08/20/20 01:11 PM	Me	08/20/20 01:11 PM	Me
	<input type="checkbox"/> Bar Chart Trio (V)	08/20/20 01:12 PM	Me	08/20/20 01:12 PM	Me
	<input type="checkbox"/> Blog - Line Chart	06/24/20 11:00 AM	Me	06/24/20 11:00 AM	Me
	<input checked="" type="checkbox"/> Blog - Line Chart with Ref Line	07/01/20 11:10 AM	Me	07/01/20 11:10 AM	Me
	<input type="checkbox"/> Layered Line Chart	06/23/20 09:15 AM	Me	06/23/20 09:15 AM	Me
	<input type="checkbox"/> YouTube - Demo Line Chart with Ref Line	06/26/20 02:53 PM	Me	06/26/20 02:53 PM	Me
	<input type="checkbox"/> YouTube - Line Chart with Ref Line	06/25/20 03:29 PM	Me	06/25/20 03:29 PM	Me
	<input type="checkbox"/> YouTube - Line Chart with Reference Line	06/26/20 02:20 PM	Me	06/26/20 02:20 PM	Me

Blog - Line Chart with Ref Line
My Folder

Details Comments

Thumbnail

Properties

Date modified: 07/01/20 04:04 P...

Date created: 07/01/20 11:10 A...

All users can access Graph Builder

Create New Custom Graph Template

The screenshot shows the SAS Graph Builder interface. At the top, there is a navigation bar with the text 'SAS® Graph Builder - Build Graphs', a search bar, and user information 'Gate Demo300'. Below the navigation bar, there is a 'Filter' input field. A blue callout box with the text 'Create new custom graph' points to a 'New Custom Graph' button. To the right of this button is a 'Browse' button. Below the navigation bar is a table with three columns: 'Name', 'Author', and 'Last Modified'. The table contains two rows of data. To the right of the table is a 'Graph Gallery' panel. A blue callout box with the text 'Graph Gallery allows for single click starting point' points to the 'Graph Gallery' header. The 'Graph Gallery' panel lists several graph types: 'Bubble Change Plot', 'Butterfly Chart', 'Comparative Time Series Plot', and 'Dot Plot', each with a brief description.

SAS® Graph Builder - Build Graphs

Search

Gate Demo300

New Custom Graph

Browse

Filter

Name	Author	Last Modified
MegaCorp Bar Line Custom Graph	gatedemo300	05/09/19 06:19 PM
Teri Bar Line Custom Graph	gatedemo300	05/09/19 06:17 PM

Graph Gallery

- Bubble Change Plot**
Show changes in two sets of measures using bubbles and directed lines.
- Butterfly Chart**
Compare a measure across two categories of values.
- Comparative Time Series Plot**
Use line segments to chart two measures on different scales over time.
- Dot Plot**
Compare data that is aggregated by the value of a category.

Graph Builder Interface

Left Pane

- Elements
- Outline

Right Pane








- Options
- Roles

The screenshot displays the SAS Graph Builder interface. The left pane is titled "Graph Elements" and contains a list of chart types: 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, and Waterfall Chart. The central workspace is labeled "A" and contains a single data point "1". The right pane is divided into two sections: "Options" and "Role Definitions". The "Options" section includes a "Graph Template" dropdown menu and checkboxes for "Border" and "Overview axis". The "Role Definitions" section includes a "Shared Roles" section with an "Add Role" button, a "Data Driven Lattice Roles" section with an "Add Role" button, and a "Graph" section. The interface also features a search bar at the top, a "Close" button in the top right, and a "demo300" label in the top right corner.







Graph Template Gallery

Contains predefined graph options from which you can build and customize.

Graph Gallery

-  [Bubble Change Plot](#)
Show changes in two sets of measures using bubbles and directed line segments.
-  [Butterfly Chart](#)
Compare a measure across two categories of values.
-  [Comparative Time Series Plot](#)
Use line segments to chart two measures on different scales over time.
-  [Dot Plot](#)
Compare data that is aggregated by the value of a category.
-  [Dual Axis Bar Chart](#)
Compare the values of two measures on different scales that are aggregated by the value of a category.
-  [Dual Axis Bar-Line Chart](#)
Compare a numeric variable and a trend line on different scales across a category of values.
-  [Dual Axis Line Chart](#)
Show the relationship of two measures on different scales across a category of values.

Graph Gallery


















-  [Dual Axis Line Chart](#)
Show the relationship of two measures on different scales across a category of values.
-  [Dual Axis Time Series Plot](#)
Use line segments to chart two measures on different scales over time.
-  [Numeric Series Plot](#)
Show the relationship of one or more measures across a series of numeric values. The X axis in this series plot is set to Measure.
-  [Stock High-Low Plot](#)
Track changes in the price of a tradable asset over time.
-  [Stock Volume and Volatility Plot](#)
Track changes in the price of a tradable asset over time along with additional context.
-  [Targeted Bar Chart](#)
Compare data that is summarized by the value of a category in reference to target values.

Available Graph Elements

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

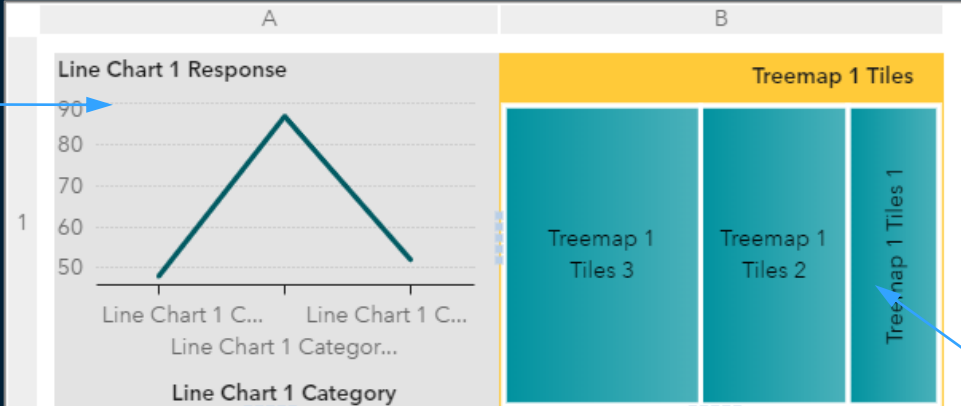
- Bar Chart
- Band Plot
- Bubble Plot
- Contour Plot (geo only)
- Line Chart
- Geo Map
- Region Plot (geo only)
- Needle Plot
- Pie Chart
- Scatter Plot
- Schedule Chart
- Series Plot
- Step Plot
- Time Series Plot
- Treemap
- Vector Plot
- Waterfall Chart

Graph Elements

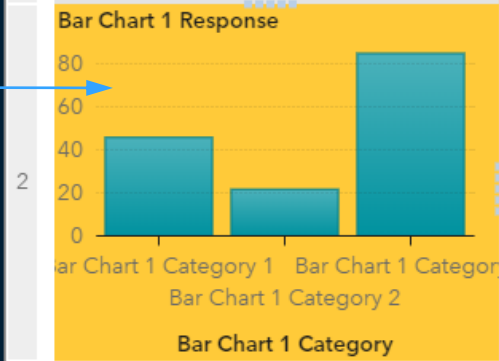
-  Bar Chart
-  Band Plot
-  Bubble Plot
-  Contour Plot (geo only)
-  Line Chart
-  Geo Map
-  Region Plot (geo only)
-  Needle Plot
-  Pie Chart
-  Scatter Plot
-  Schedule Chart
-  Series Plot
-  Step Plot
-  Time Series Plot
-  Treemap
-  Vector Plot
-  Waterfall Chart

Components of a Graph Object

Cell A1

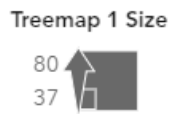
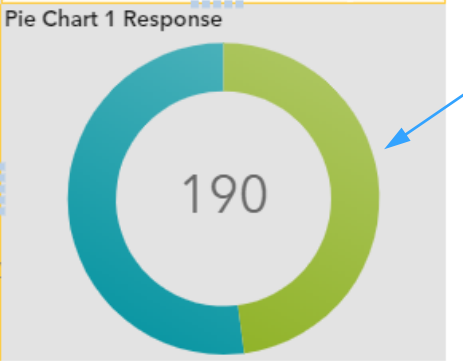


Cell A2



Legend

- Pie Chart 1 Category 1
- Pie Chart 1 Category 3
- Line Chart 1 Response
- Bar Chart 1 Response



Graph Object

Graph Elements

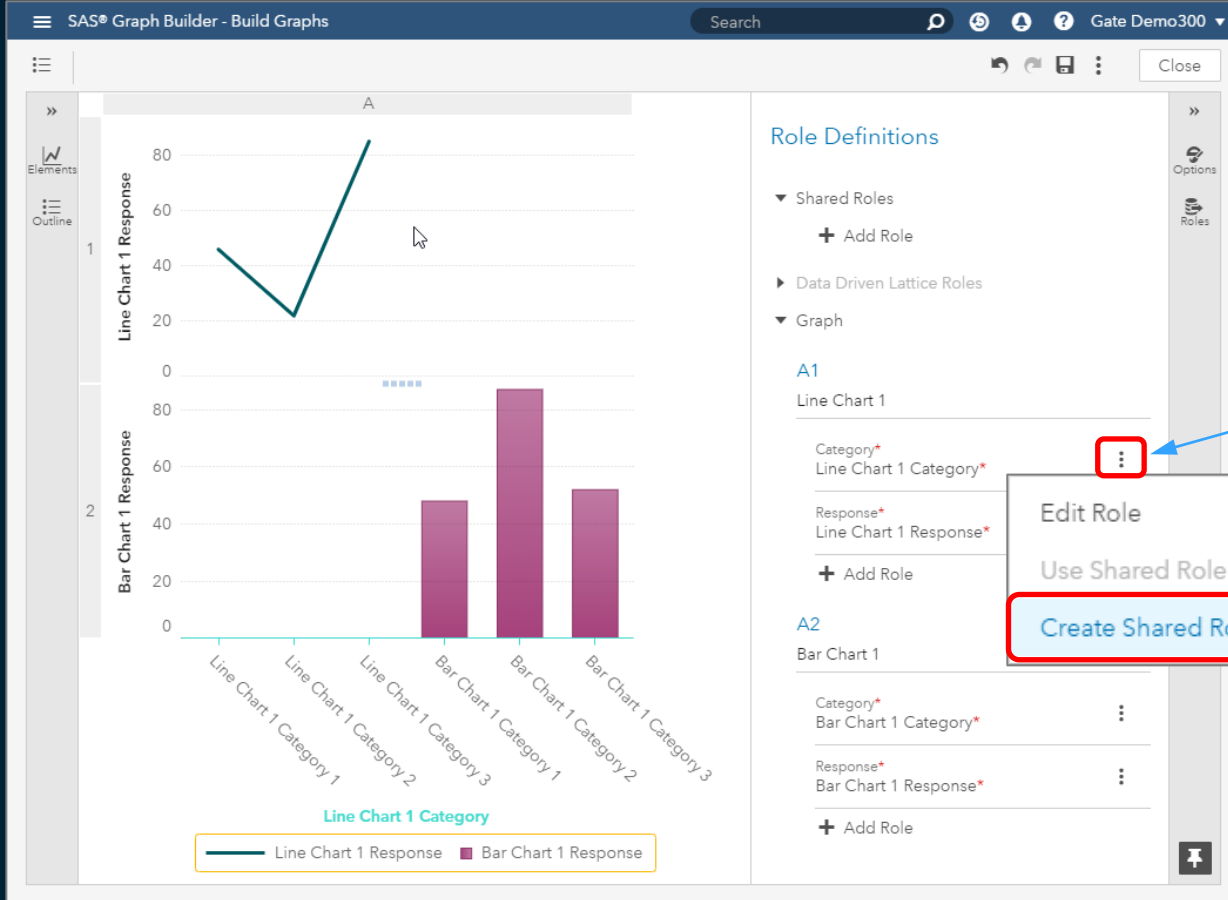
Adding Graph Elements

The screenshot shows the SAS Graph Builder interface. On the left, a sidebar titled "Graph Elements" lists various chart types: 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, and Waterfall Chart. A red arrow points from the "Line Chart" option in the sidebar to a bar chart in the main workspace. The bar chart, titled "Bar Chart 1 Response", has three categories on the x-axis: "Bar Chart 1 Category 1", "Bar Chart 1 Category 2", and "Bar Chart 1 Category 3". The y-axis ranges from 0 to 80. A tooltip menu is open over the chart, showing a "Line Chart" icon and the text "+ Add to new row". The interface also includes a search bar at the top, a "Close" button, and "Options" and "Roles" panels on the right side.

Category	Value
Bar Chart 1 Category 1	48
Bar Chart 1 Category 2	75
Bar Chart 1 Category 3	52

Role Definitions

Use Shared Roles when you want the graph elements to use the same data item in the report.



Able to easily define shared roles between graph elements

Edit Role

Use Shared Role

Create Shared Role With Another Role

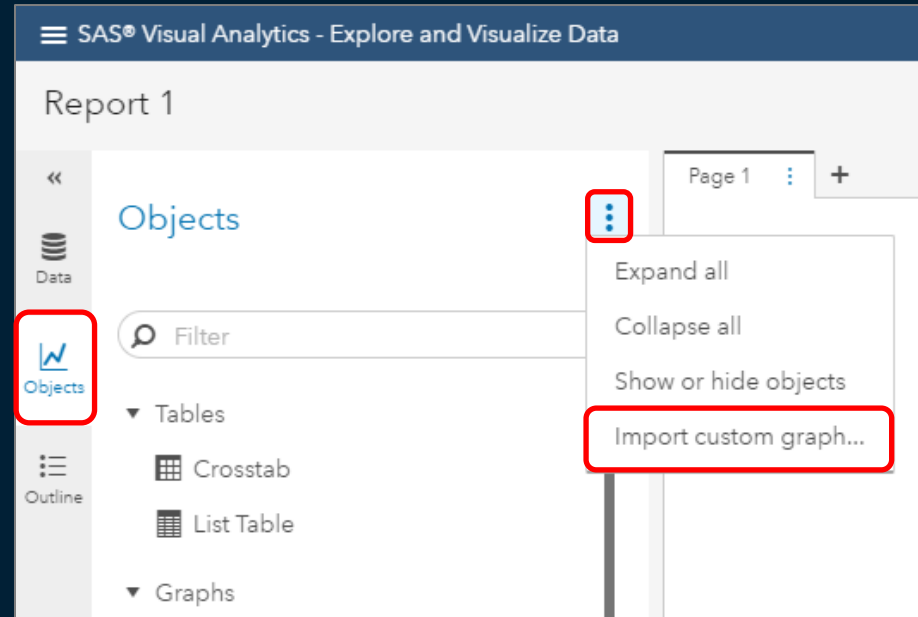
Bar Chart 1 Category

Importing a Custom Graph

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

- Open SAS Visual Analytics Explore and Visualize Data
- From the **Objects** pane, open the **More options** menu
- Select **Import custom graph...**
- Navigate to the custom graph you wish to import and select it

Custom graph objects are NOT automatically displayed in the Object pane



More info

Demo on youtube

- SAS Graph Builder: Custom Line Chart with Reference Line
<https://youtu.be/BfqPnwocToo>
- 18 Visualizations created by SAS Visual Analytics
<https://blogs.sas.com/content/sgf/2017/02/24/18-visualizations-created-by-sas-visual-analytics/>
- Visual Analytics Custom Graph Examples (github)
<https://github.com/sassoftware/va-custom-graphs>
- SAS[®] Graph Builder user's guide 7.5
<https://go.documentation.sas.com/doc/en/vacdc/7.5/grbldrug/titlepage.htm>
- SAS[®] Graph Builder user's guide 8.5:
<https://go.documentation.sas.com/doc/en/vacdc/8.5/grbldrug/titlepage.htm>



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