



**SALIENT®**

# **Salient Dashboards**

## **Training Guide** for Dashboard Designers

Version 8.4

August 31, 2023

# Legal notices

## Limited warranty

Information in this document is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by Salient Corporation. Salient Corporation assumes no responsibility or liability for any errors or inaccuracies that may appear in this guide.

## Trademarks

Salient, UXT, and the Salient logo are registered trademarks of Salient Corporation. Salient Interactive Miner (SIM) and Salient Knowledge Manager are trademarks of Salient Corporation. Windows is a trademark of Microsoft Corporation. Apple, iPhone, and iPad are trademarks of Apple. Android and Google are trademarks of Google LLC.

## Copyright notice

Copyright on software and documentation 2014-2023 Salient Corporation. All rights reserved. Printed in the United States of America. No part of this manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or information storage and retrieval systems, for any purpose without the express written permission of Salient Corporation. This document is provided solely in connection with the licensing of Salient Corporation software. The use of this document is subject in all respects to the terms and conditions of the Salient Corporation license agreement for the software delivered concurrently herewith.

Salient Management Company

203 Colonial Drive, Horseheads, NY 14845

(607) 739-4511

[support@salient.com](mailto:support@salient.com)

[www.salient.com](http://www.salient.com)

# Contents

Introduction .....	5
About Salient Dashboards .....	5
Overview of dashboard creation .....	6
Getting Started .....	8
Log in .....	8
Choose a starting point for dashboard creation .....	9
General Dashboard Design.....	10
Layout settings.....	10
Create widgets .....	17
Position widgets .....	18
Content widgets .....	19
Import dashboard options .....	30
Data Analysis Widgets .....	32
Types of data analysis widgets .....	33
Add measures.....	38
Select the dates .....	45
Group By attributes .....	52
Filter.....	69
Customize widgets.....	85
Save and Share .....	99
Save and publish dashboards.....	99
How users can access dashboards .....	100
Share a dashboard .....	102
Limiting export options for users .....	103
Knowledge Manager .....	105
Additional Concepts .....	107
Dashboard settings .....	107
Trellis setup.....	109
Geo .....	114
Custom groups.....	119
Record details .....	122
Reference lines .....	125
Navigation links.....	128

Custom drill-downs .....	130
Notify.....	132
Customize the portal dashboard .....	138
Custom views.....	140
Column filters (in Multi Comparative) .....	144



# Overview of dashboard creation

The following is a general process for creating dashboards.

## 1. Choose a starting point for dashboard creation.

Create a new dashboard or open a dashboard with similar characteristics to the one you want to create (i.e., template). You can also [import dashboard options](#) (see page 30) and [copy widgets](#) (see page 17) from other dashboards to facilitate dashboard creation.

## 2. Set up layouts.

Set up [layouts](#) (see page 10) for optimal display on different devices. In general, the desktop/tablet layout will be used when viewing a dashboard in a browser window, and the phone layout (optional) will be used in the Salient mobile app.

## 3. Add content widgets.

You can add widgets, such as [tabs](#) (see page 19), [images](#) (see page 29), [text/HTML](#) (see page 23), [buttons](#) (see page 25), [lines](#) (see page 26), [dashboard widgets](#) (see page 27), and Knowledge Manager widgets, that help with the overall design. These widgets may be added before or after data analysis widgets. Some content widgets do not display in the Salient mobile app.

## 4. Add and customize data analysis widgets.

These widgets display data to help users make better decisions. A variety of analysis types are available. For each widget, perform the following steps:

**Tip:** If a similar widget already exists, you can copy it to eliminate some setup.

1. [Add a data widget](#) (see page 17).
2. [Add measures](#) (see page 38).
3. [Select the dates](#) (see page 45) (Dates may be linked across the dashboard.)
4. [Group by attributes](#) (see page 52).
5. [Filter](#) (see page 69) (Filters may be applied to the entire dashboard at once via workspace filters.)
6. Customize by [sorting](#) (see page 65), [highlighting](#) (see page 95), changing widget settings, etc.
7. Place the widget in the desired location for each [layout](#) (see page 10). To switch between desktop/tablet and phone layouts, go to workspace settings in the toolkit and make your selection under **Layout View**.

## 5. Save and share the dashboard.

We recommend saving the dashboard as you build it to avoid losing any changes (e.g., save as private until you are ready to share it). When the dashboard is finished, [save it in the desired location](#) (see page 99). Other users have access to "published" dashboards. You may also share a dashboard's URL, create links to the dashboard, or use other methods of sharing.

**1. Choose a starting point:**

- New
- Pricing Trend
- Recent

New or "template" dashboard

**2. Set up layouts.**  
desktop/tablet & phone

**3. Add content widgets**  
tabs, buttons, text, etc.

**4. Add & customize data analysis widgets.**

- measures
- dates
- group by
- filter
- other settings

**5. Save and share.**

**ADD WIDGET**

**CUSTOMIZE WIDGET**

**Regional Performance**

**NorthEast** **SouthEast**

**Trend**

**Net Price**

**Units** **Net Revenue** **Net Price** **Margin**

**Workspace**

**Context**

Filters: None

Layout Preview: Desktop/Tablet View

Phone View

**Desktop/Tablet Layout**

Dynamic Layout

# of Columns: 12

Row Height: 40

Min Width: 700

**Comparative**

**Analysis**

**Context**

Cube: Sales

Date Range: Month To Date vs. YAG

Group By: Company

Filters: None

Measures: None

Equivalent: None

**Grid Settings**

**Graph Settings**

**Navigation Links**

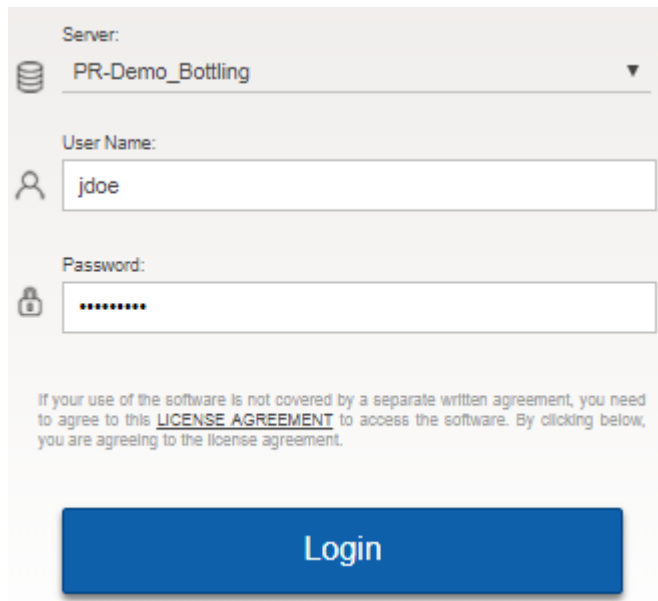
**General Settings**

# Getting Started

## Log in

Before you can use Salient Dashboards, you must log into a dataset. Contact your administrator if you don't know your user name and password or the login page URL.

1. In your web browser, go to the address of the Salient Dashboards login page.
2. From the **Server** menu, select a dataset.
3. *For classic login* (i.e., credentials entered directly in Salient Dashboards), enter your user name and password. Then, click **Login**.




The login form is displayed on a light gray background. At the top, there is a 'Server:' label next to a dropdown menu showing 'PR-Demo\_Bottling' with a downward arrow. Below this is a 'User Name:' label next to a text input field containing 'jdoe'. Underneath is a 'Password:' label next to a password input field with masked characters. A small lock icon is visible to the left of the password field. Below the input fields, there is a line of small text: 'If your use of the software is not covered by a separate written agreement, you need to agree to this [LICENSE AGREEMENT](#) to access the software. By clicking below, you are agreeing to the license agreement.' At the bottom of the form is a large blue button with the text 'Login' in white.

*External/SSO authentication:* Click the **SSO Login** button. If you are not already logged in, the next screen will allow you to enter your user name and password and **Sign in**.

*LDAP login* (i.e., machine login used for authentication): The user name and password entries may not be needed.

### Tips:

- The portal dashboard opens after login unless you have entered a URL for a specific dashboard or changed the home page in user preferences.
- In general, Salient recommends Google Chrome™; however, other browsers are supported.
- A dataset may be configured for a specific language. In this case, the login page will immediately switch to that language after it is selected.
- The first login is typically the slowest due to the downloading and caching of application files.
- Do not attempt to log in to the same dataset more than once at the same time using the same user ID. Multiple logins are not supported.
- You can log out at any time by clicking  in the upper-right corner of the dashboard screen and selecting **Logout**.



# Choose a starting point for dashboard creation

You might start building from a blank dashboard, or a dashboard with similar properties to the one you want to create. Either way, you must be in edit mode to add widgets. Only Dashboard Designers can access edit mode.

Option 1: In the dashboards menu, click **New** (keyboard shortcut: *n*) to go to a blank dashboard in edit mode.

Option 2: Open a specific dashboard and then click the Edit button at the top of the screen.

**Option 1: Go to blank dashboard.**

**Option 2: Open "template" dashboard and then edit it.**

Channel		Units		Margin	
	This	Last	This	Last	
<input type="checkbox"/> Regional Chains	75,260	115,504	26,805	426,029	
<input type="checkbox"/> Conv With Gas	29,393	38,590	16,774	232,179	
<input type="checkbox"/> Other Groceries	23,519	30,926	12,674	173,329	

# General Dashboard Design

---

When designing a dashboard, you should set up [layouts](#) (see page 10) for optimal display on different devices. You can then [create widgets](#) (see page 17) and arrange them in the dashboard. Many different types of widgets are available to design customized dashboards that meet the needs of every user:

- *Content widgets:* [tabs](#) (see page 19), [images](#) (see page 29), [text/HTML](#) (see page 23), [buttons](#) (see page 25), [lines](#) (see page 26), [dashboard widgets](#) (see page 27), and Knowledge Manager widgets - These widgets improve the appearance and functionality of the dashboard.
- *Data analysis widgets:* Comparative, Multi Comparative, Trend, Share Trend, Mix, Gauge, Scattergram, etc. - These widgets display data to help users make better decisions.

## Layout settings

A dashboard can have two separate layouts to optimize its appearance on different devices.

[Desktop/tablet layout](#) (see page 11)

This layout is used any time the dashboard is opened in a browser whether it is on a desktop, tablet, or phone.

The desktop/tablet layout may also be used in the mobile app on wide screens (e.g., tablet or landscape orientation) depending on layout settings.



[Phone layout](#) (see page 14)

If enabled, this layout controls the dashboard's appearance in the Salient mobile app on a phone or tablet below a specified screen size.



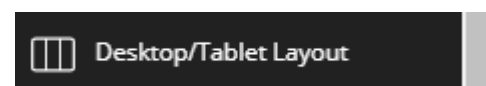
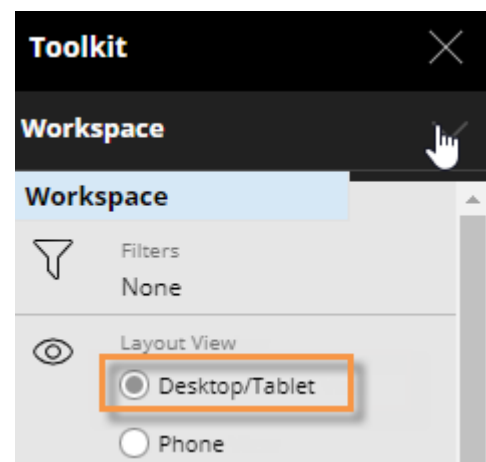
Each layout stores its own arrangement of the dashboard's widgets in addition to other settings, as explained in the following sections.

As you design dashboards, consider the best placement of each widget in both layouts. For example, the recommended process for adding a widget would be to place the new widget in the desired location in the desktop/tablet layout, switch to the phone layout (if used), place the widget in the desired location in that layout, and then save your changes.

## Desktop/tablet layout

To set up the desktop/tablet layout

1. In edit mode, open the dashboard you want to design, or start a new dashboard.
2. Select the workspace by clicking in a blank area of the dashboard, selecting **Workspace** in the toolkit menu, or pressing **w** on the keyboard.
3. Under **Layout View**, choose **Desktop/Tablet**.
4. In the **Desktop/Tablet Layout** section of the toolkit, choose a dynamic layout or fixed layout and select from the following options.



### Option 1: Dynamic layout

In a dynamic layout, the widgets will dynamically resize relative to the width of the browser window or screen.

**# of columns** - Choose the number of columns (i.e., vertical grid) for arranging widgets. (Widgets can span multiple columns.) A larger number will provide more precise control over the layout; however, an unreasonably large number may affect performance.

**Row height** - Choose the row height (i.e., horizontal grid) in pixels. A smaller number will provide more precise control over the layout. (A widget can span multiple rows.)

**Tip:** For **# of columns** or **Row height**, you can enter a number, use the arrow buttons to increase/decrease the number, or click the **2x** or **1/2** buttons. However, [these methods affect existing widgets differently](#) (see page 10).

For **Min width** and **Max width**, specify the minimum and maximum width (in pixels) of the dashboard. Widgets will dynamically resize when the browser window or screen is within this range.

**Gutter Spacing** - To add space between columns, enter a horizontal (H) value in pixels. To add space between rows, enter a vertical (V) value in pixels. Gutter spacing can be used to add a uniform amount of space between widgets. Note that widgets that span multiple rows/columns will also include the gutters.

**Dashboard Margin** - To add space on the sides of the dashboard, enter a horizontal (H) value in pixels. To add space at the top of the dashboard, enter a vertical (V) value in pixels.

**Background Image** - Optionally, select a background image for the dashboard. The dashboard will repeat the background image to fill the dashboard area.

**Show This View in App** - To use this layout in the Salient mobile app, check this box and enter a screen width (in pixels) above which the mobile app will use the desktop/tablet layout. The mobile app will use the phone layout (see below) when the screen width is below this value. In general widget settings, you can optionally hide any of the widgets in the mobile app.

Dynamic Layout (selected)

Fixed Layout

# of Columns: 12 2x 1/2

Row Height: 40 2x 1/2

Min Width: 1000

Max Width: 2560

Gutter Spacing: H: 8 V: 8

Dashboard Margin: H: 8 V: 0

Background Image: none Image Clear

☒ Show This View in App

If Screen Wider than: 700

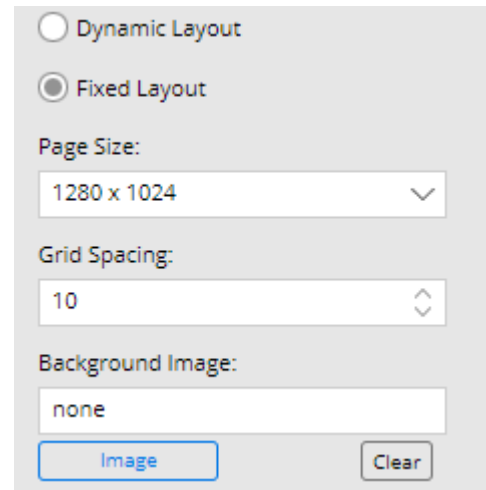
### Option 2: Fixed layout

In a fixed layout, the dashboard and widgets will remain the same size regardless of the width of the browser window.

**Page size** - Select the width and height in pixels of the dashboard. To select a custom size, select Set Custom Size and then enter your own values.

**Grid spacing** - Salient Dashboards snap widgets to a grid when you move or resize them. The grid spacing is the number of pixels between grid points.

**Background Image** - Optionally, select a background image for the dashboard. The dashboard will repeat the background image to fill the dashboard area.



Dynamic Layout ☐

Fixed Layout ☒

Page Size: 1280 x 1024

Grid Spacing: 10

Background Image: none

Image Clear

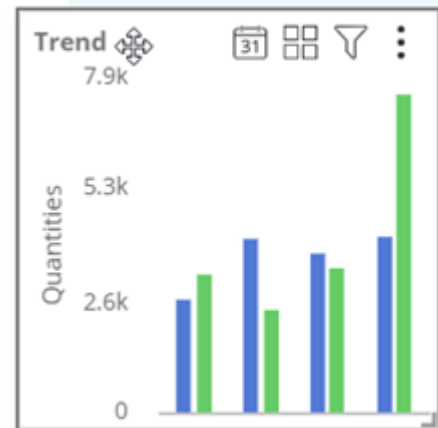
5. Add and arrange widgets in the workspace.

- To move a widget, drag and drop it in the desired location.
- To resize a widget, drag and drop one of its handles.

Widgets will snap to columns and rows in a dynamic layout. In a fixed layout, widgets will snap to the grid.

6. Save the dashboard.

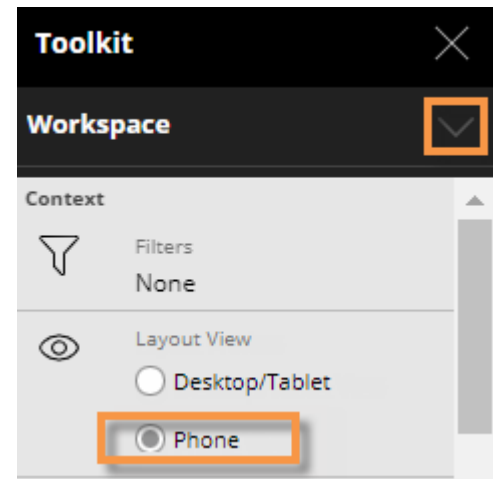
**Tip:** To reuse layout settings, you may want to apply them to a "template" dashboard to use as a starting point when building dashboards.



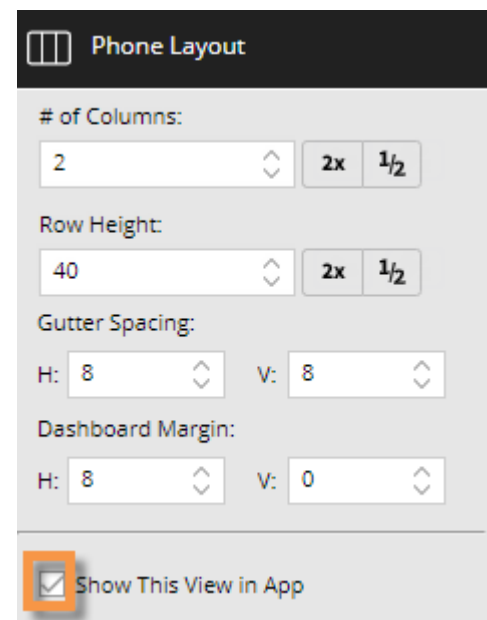
## Phone layout

To set up the phone layout

1. Select the workspace by clicking in a blank area of the dashboard, selecting **Workspace** in the toolkit menu, or pressing **w** on the keyboard.
2. Under **Layout View**, choose **Phone**. This will open the **Phone Layout** section where you can choose settings.



3. Choose the **# of Columns** (i.e. vertical grid) for arranging widgets. (Widgets can span multiple columns.) A larger number will provide more precise control over the layout; however, an unreasonably large number may affect performance. You can enter the number, use the arrow buttons to increase/decrease the number, or click the **2x** or **1/2** buttons. However, these methods affect existing widgets differently, as explained [below](#) (see page 16).
4. Choose the **Row Height** (i.e. horizontal grid) in pixels. A smaller number will provide more precise control over the layout. (A widget can span multiple rows.) You can enter the number, use the arrow buttons to increase/decrease the number, or click the **2x** or **1/2** buttons. However, these methods affect existing widgets differently, as explained [below](#) (see page 16).
5. **Gutter Spacing** - To add space between columns, enter a horizontal (H) value in pixels. To add space between rows, enter a vertical (V) value in pixels. Gutter spacing can be used to add a uniform amount of space between widgets.
6. **Dashboard Margin** - To add space on the sides of the dashboard, enter a horizontal (H) value in pixels. To add space at the top of the dashboard, enter a vertical (V) value in pixels.
7. **Important:** Make sure the **Show This View in App** box is checked to enable the phone layout in the mobile app. Depending on the desktop/tablet settings, the mobile app may switch from the phone layout to the desktop/tablet layout (see the previous section) when the screen width is above a specified width (e.g., on a large tablet or when a device rotates).

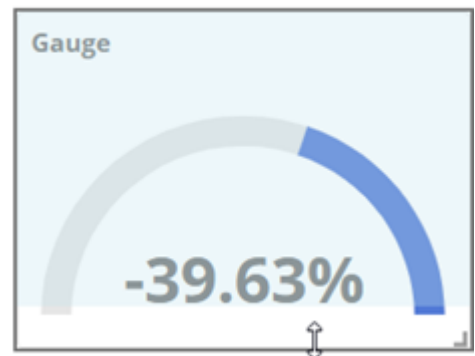


If the **Show This View in App** box is cleared, the mobile app will use the default one-pane layout or the layout defined in the mobile app itself if one exists.

## To set up the phone layout

8. Add and arrange widgets in the workspace. Widgets will snap to columns and rows as you move or resize them.

- To move a widget, drag and drop it in the desired location.
- To resize a widget, drag and drop one of its handles.



9. (Optional) If the dashboard includes tabs, you can choose a different [tab style](#) (see page 19) for the phone layout than the desktop/tablet layout.
10. (Optional) The following settings allow you to hide widgets in the mobile app but keep them in browser-based dashboards. For example, you might want to hide some widgets on mobile devices to save screen space. You can access these settings in general widget settings or the widget's menu.

- **Show in Mobile** - Leave this option on to show the widget in the mobile app; the widget may be hidden on narrow screens using the **Hide For Phone** setting (see below). Clear this option to always hide the widget in the mobile app.

- **Hide For Phone** - Turn this option on to hide the widget when the phone layout is used (i.e. on narrow screens such as phones) but show it when the desktop/tablet layout is used in the mobile app (e.g., on tablets). The screen width in the desktop/tablet layout controls when the phone layout is used.

Note that hiding the widget using either option will remove it from the phone preview. You can switch to the desktop/tablet preview to modify the widget's settings if necessary.

Line, dashboard, and Knowledge Manager widgets will not display in the mobile app; therefore, they do not have these settings.

11. Save the dashboard.

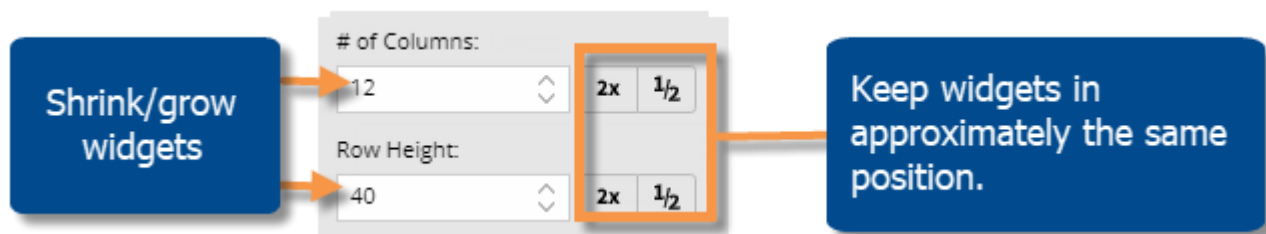
## Options for changing number of columns and row height in layouts

To keep widgets in approximately the same position

Click 2x to double the value or 1/2 to halve the value. This will adjust the number of columns/rows in existing widgets proportional to the total columns/rows in the dashboard; therefore relative widget widths will stay approximately the same and the widget arrangement will not change significantly in most situations. (Some rounding may occur.) For example, a widget that spans 6 out of 12 columns or 50% would span 12 out of 24 columns or 50%.

To shrink/grow widgets

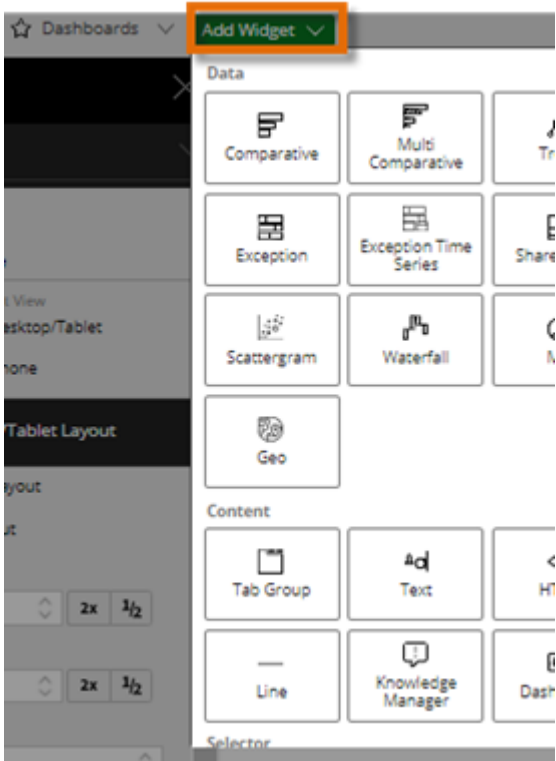
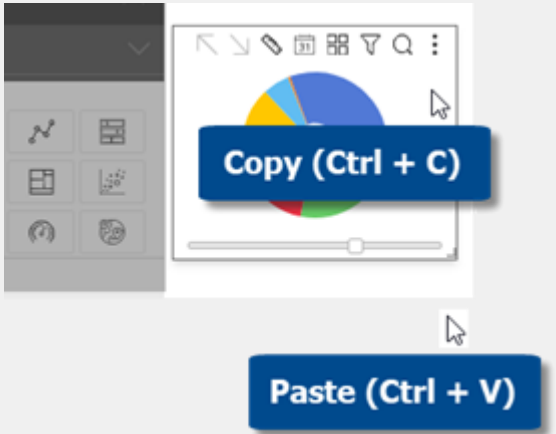
Enter a value in the corresponding box or use the arrows. This will not adjust the number of columns/rows in existing widgets; therefore, their relative widths and heights will change as compared to the total columns/rows in the dashboard. For example, a widget that spans 6 out of 12 columns or 50% would span 6 out of 24 columns or 25%.








# Create widgets

You can use any of the following methods to create [data widgets](#) (see page 32) or content widgets (tabs, text/HTML, buttons, etc.), depending on whether you want to make them from scratch or copy/duplicate existing widgets. In general, widgets must be created in edit mode. After creating widgets, you can [position them within the dashboard](#) (see page 18).

Option	Explanation	
Add a blank widget	<p><b>Tip:</b> If you click on another widget prior to adding a data widget, the new widget will inherit its context settings (date range, group by, etc.). Otherwise, the new widget will use the default settings.</p> <ol style="list-style-type: none"> <li>1. Click the <b>Add Widget</b> button at the top of the screen.</li> <li>2. In the pop-up window, <u>click and drag</u> the button of the widget type onto the workspace. If you prefer, you can <u>click</u> the button to place the widget in the upper-left corner.</li> </ol>	
Copy a widget (from the same dashboard or a different dashboard)	<ol style="list-style-type: none"> <li>1. Click on the widget you want to copy.</li> <li>2. Press <b>Ctrl + C</b> on the keyboard.</li> <li>3. Click on the dashboard where you want to paste the widget.</li> <li>4. Press <b>Ctrl + V</b> on the keyboard.</li> </ol> <p><b>Tips:</b></p> <ul style="list-style-type: none"> <li>• You may want to open a new browser window if you plan to copy multiple widgets from another dashboard.</li> <li>• You can also <a href="#">import settings from other dashboards</a> (see page 30).</li> </ul>	

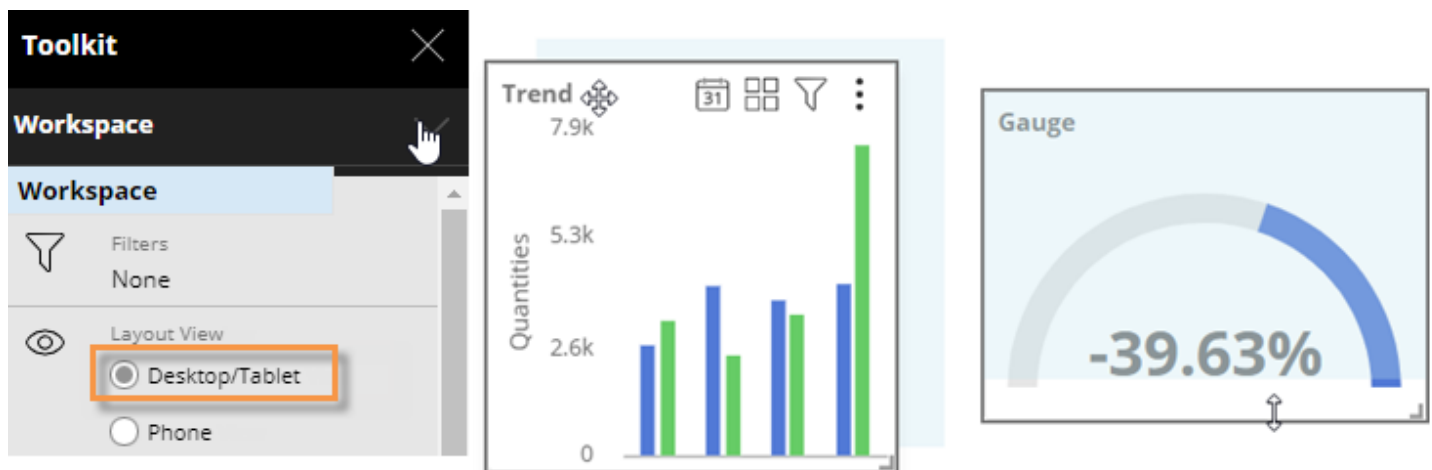
Option	Explanation	
Duplicate a widget within a dashboard	<ol style="list-style-type: none"> <li>1. Select the widget you want to duplicate.</li> <li>2. On the widget title bar, click the  menu button and select  Duplicate Widget, or press <b>+</b> on the keyboard.</li> </ol> <p><b>Tip:</b> In explore mode, the new widget will be maximized in its own tab.</p>	

## Position widgets

After [creating widgets](#) (see page 17), you should arrange them in the desktop/tablet layout and phone layout (if used). Each [layout](#) (see page 10) can store a different size/position for a widget.

To position widgets

1. In the Workspace area of the toolkit, select the layout (desktop/tablet or phone) for which you want to arrange widgets.
2. Position widgets in the workspace.
  - Drag and drop to move a widget. The widget will snap to the underlying grid (columns and rows) as defined in the layout.
  - To resize the widget, drag its bottom or right border, or enter a precise size in general settings.
  - To place a widget in a tab, drag and drop it onto the tab or go to [Tab Settings](#) (see page 19).
3. Repeat the process for the phone layout (if used)—moving and resizing widgets as desired. In addition, you can optionally [hide widgets in the phone layout](#) (see page 15) to save screen space on mobile devices.



**Tips:**

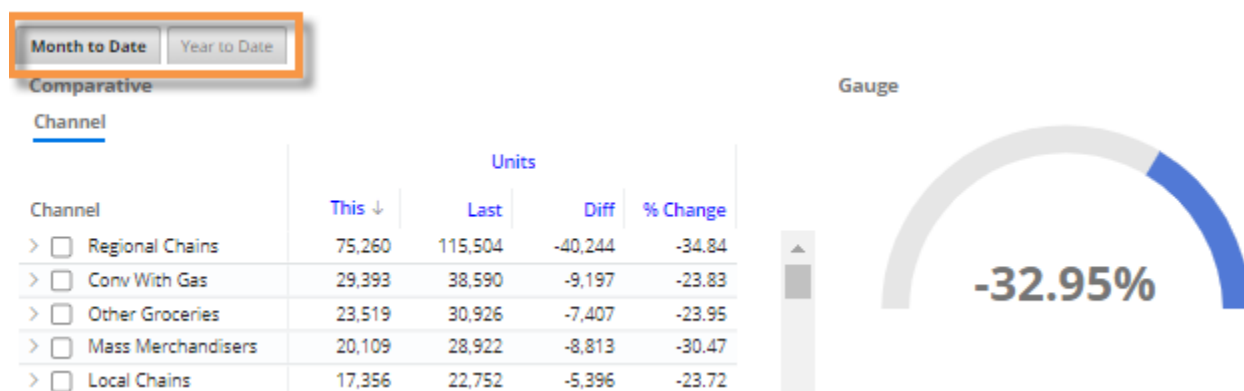
- To control the order of overlapping widgets, go to general settings where you can send a widget to the back or front.
- [General settings](#) (see page **Error! Bookmark not defined.**) provide additional design options for widgets, such as widget styles, transparency, borders, and customized titles.

## Content widgets

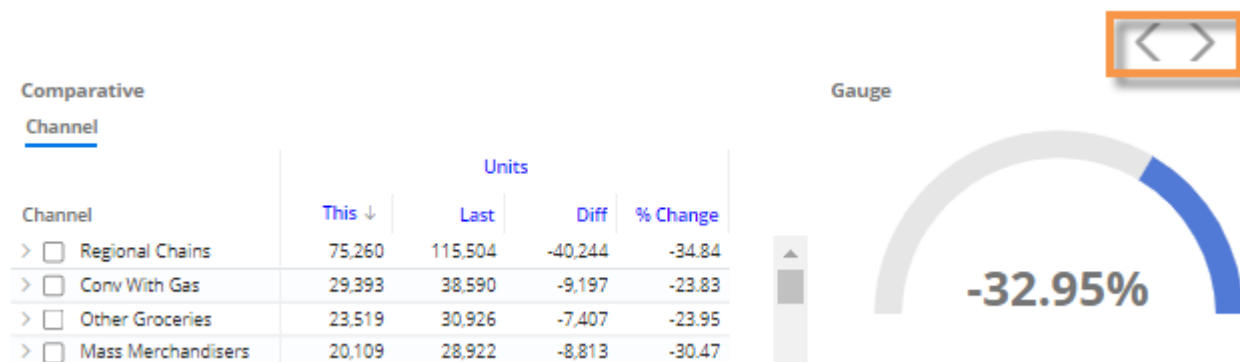
### Tab group

The tab group widget can organize a dashboard and maximize screen space by providing a tabbed or carousel view of multiple widgets. The user simply clicks to switch between the tabs. Each tab can have one or more widgets. Tab groups are available in browser-based dashboards as well as the mobile app.

#### Tab format

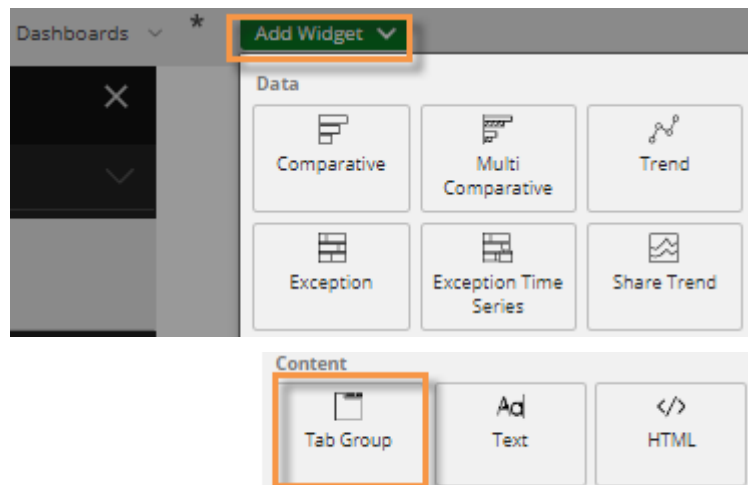




#### Carousel format



## To add a tab group

1. Click the **Add Widget** button at the top of the screen.
2. In the pop-up window, click and drag Tab Group onto the workspace.




3. The tab group has two tabs when you first add it. To add additional tabs, click the  button in the upper-right corner (visible on mouseover) and select **Add Tab**, or click  in the tab settings area (see the next step).



## To add a tab group

4. Configure display options for the tab group.

- i. Click **Tab Settings** in the toolkit (the tab group must be selected). The pop-up window will list all widgets in the dashboard.

- ii. Hover over the tab group and click .

- iii. Select from the following options.

**Type** - Tabs or carousel

**Style** - A variety of styles are available. These may be configured by your administrator.

**Show border in viewer**

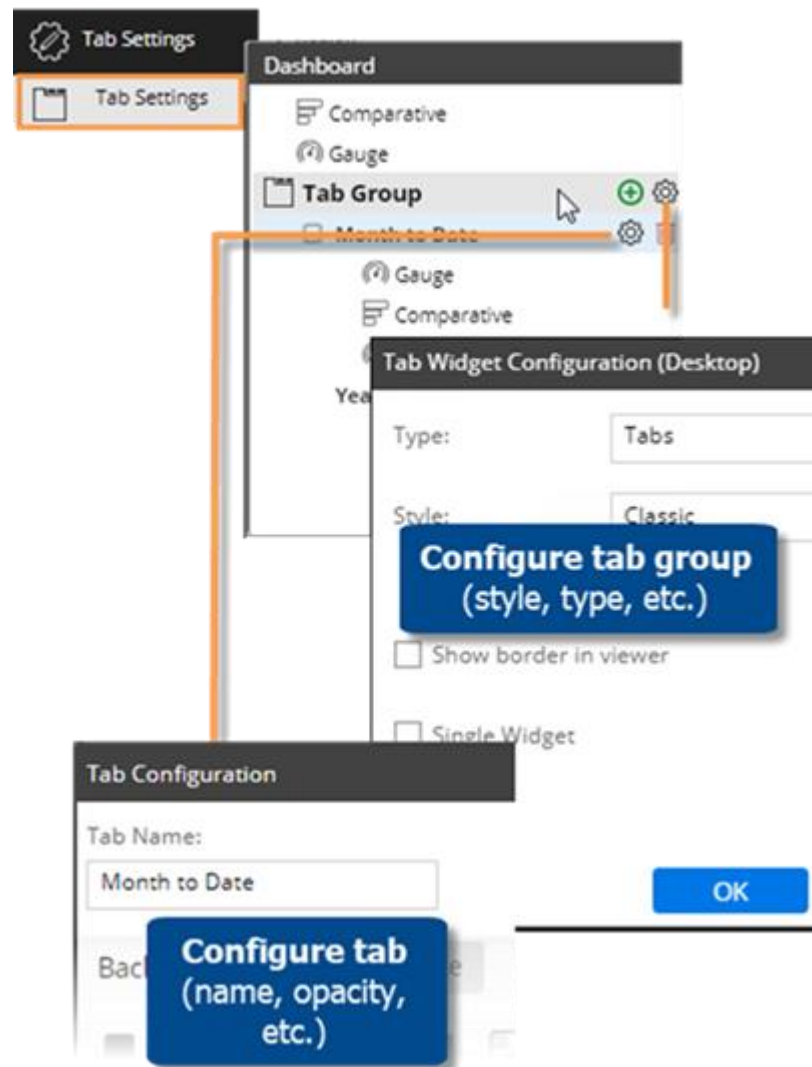
**Single widget** (in desktop/tablet layout only) - This option facilitates the creation of a simple tabbed view by allowing one widget per tab, automatically maximizing each widget in its tab, and populating the tab name with the widget title.

- iv. (Optional) To use different display settings in the desktop/tablet and phone layouts, switch the layout type (under Layout View in the toolkit) and repeat step 4, selecting your preferred type and style for the layout.

5. Configure tabs within tab group.

- i. In the pop-up window, hover over the tab and click .


- ii. Enter a tab name and choose display settings, including the background color, if desired.

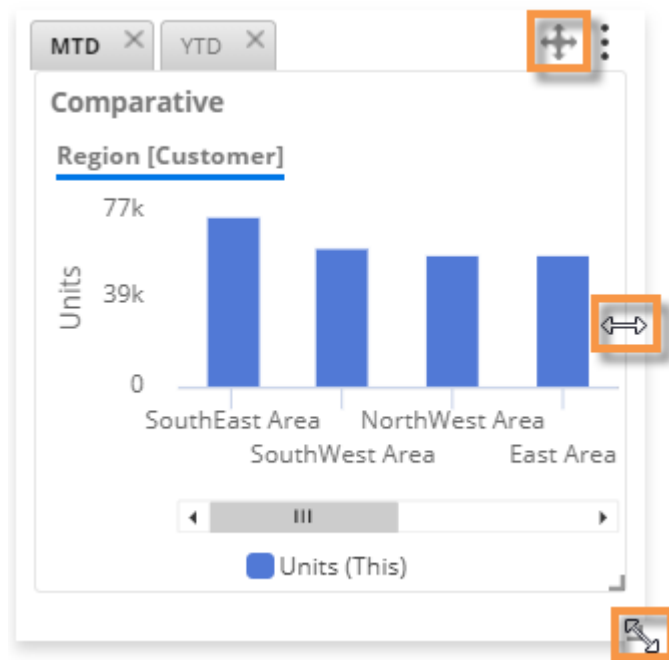


## To add a tab group

6. Add widgets to the tabs using either of the following methods.
  - In the workspace, select the tab and then drag a widget onto it.
  - In the tab settings pop-up window (see step 5), drag the name of a widget onto the row of a tab.



7. Position and size the tab group and its widgets.
  - To move the tab group, drag and drop the  icon.
  - To resize the tab group, drag its border or enter a precise size in the tab group's general settings.
  - Position each widget within the tab group as desired by dragging and dropping or entering values in the widget's general settings.
  - Repeat this step for the desktop/tablet layout and phone layout (if used). Each layout can store a different tab group size and position as well as arrangement of widgets within each tab.




**Tip:** To change the layout of the tab group (# of columns, row height, etc.), change the [layout settings](#) (see page 10) of the dashboard itself. In a dynamic layout, the tab group uses a "mini-layout" with the same settings. For example, if the dashboard has 12 columns, the tab group will have 12 columns within its allocated space. Likewise, the tab group will have the same margins and padding as the dashboard. In a fixed layout, the grid spacing will affect the tab group.

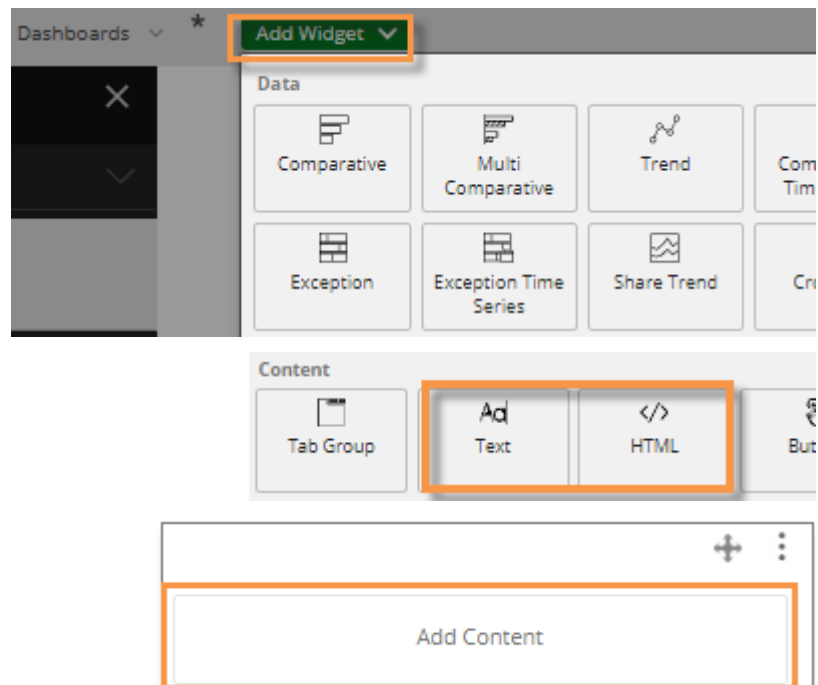
## Text and HTML widgets

Text and HTML widgets show text or other content. These widgets can include hyperlinks and embedded content from other web pages. The only difference between HTML and text widgets is that the default editor is source (i.e., code) mode for HTML widgets and WYSIWYG mode (i.e., formatting controls) for content widget.


Text/HTML widgets are available in browser-based dashboards and the mobile app (if turned on as explained in step 7). Due to the flexibility of text and HTML content widgets, we cannot guarantee their appearance, especially for information pasted into the editor, on all browsers. As always, you should preview a dashboard before publishing it.

To add a text or HTML widget

1. Click the **Add Widget** button at the top of the screen.
2. In the pop-up window, click and drag Text or HTML onto the workspace, depending on your preferred edit mode (WYSIWYG for text or source code for HTML).
3. Click **Add Content** in the widget, or click the  button at the top of the widget and then select **Edit**.

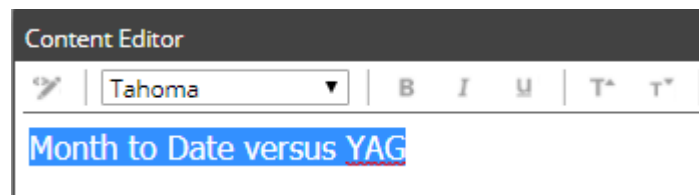


4. Depending on the edit mode, enter text or HTML code into the **Content Editor**.

To switch between modes, click  on the Content Editor toolbar.

5. Click **OK**.

Content Editor (WYSIWYG mode):

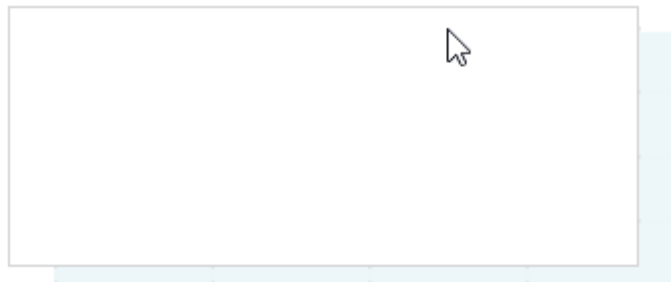
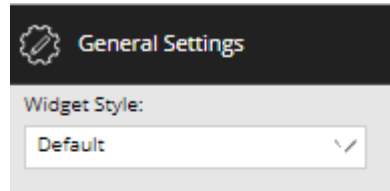


Content Editor (source edit mode):



### To add a text or HTML widget

6. To customize display settings, go to General Settings in the toolkit, where you can choose a style, turn on/off borders, select transparency, etc.
7. (Optional) To allow the text/HTML to be shown in the mobile app regardless of screen width, keep the **Show in Mobile** box checked and the **Hide for Phone** box cleared.
8. [Position and size the widget](#) (see page 18) in the desktop/tablet layout and the phone layout (if used in the mobile app).





## Button widgets

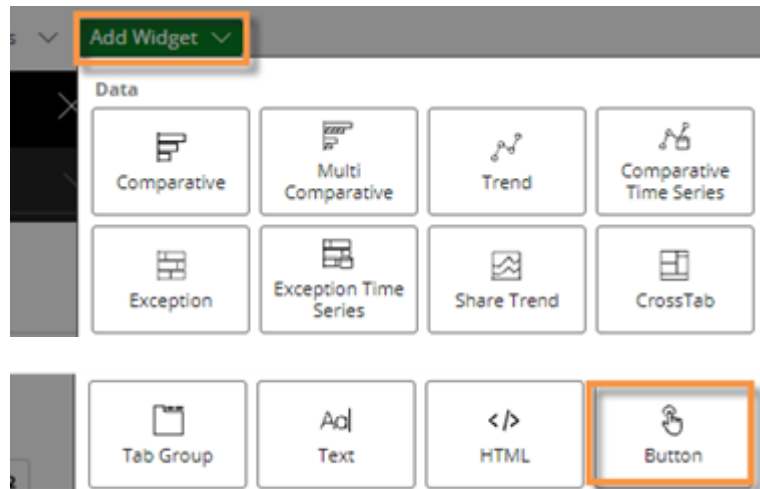
You can add a button(s) to allow users to quickly go to a URL, open a dashboard (with or without filters applied), filter the current dashboard, turn on equivalents, or change the date range.

Button widgets are available in browser-based dashboards and the mobile app (if turned on as explained in step 4).

To add a button widget

1. Click the **Add Widget** button at the top of the screen.
2. In the pop-up window, click and drag Button onto the workspace.

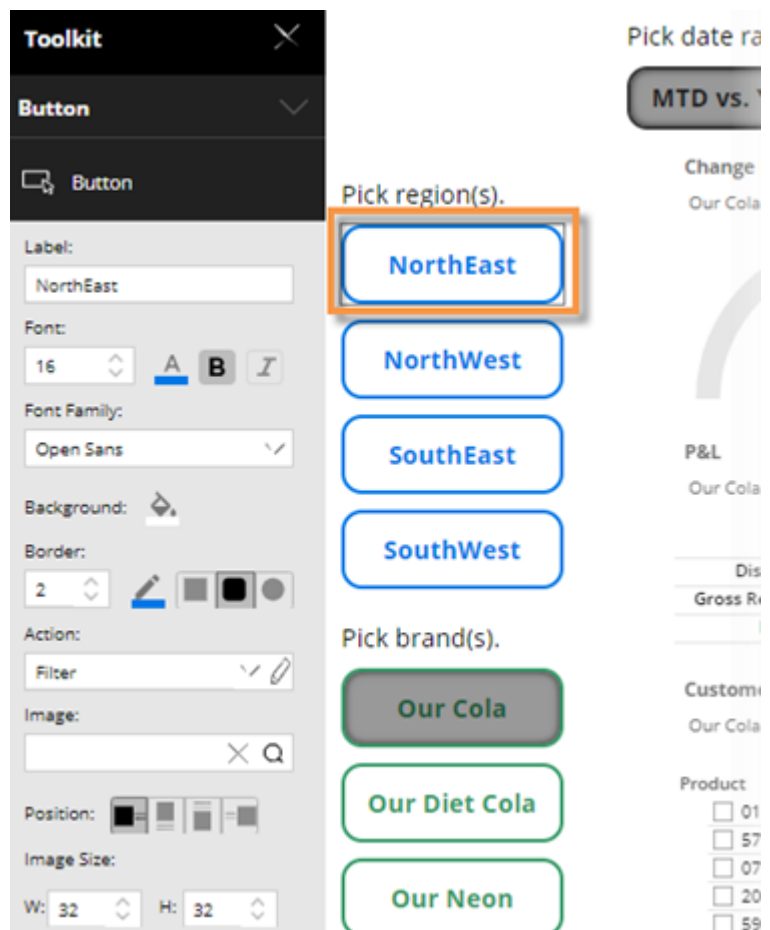
**Tip:** The button should be automatically selected so that you can customize it in the next step. If the button is not selected, click on it and, in the prompt, choose not to execute the action at this time.



3. In the toolkit, configure button settings:
  - Enter the button label and apply text formatting as desired.
  - Customize the button appearance by choosing a background color, border, and image (optional). If you choose an image, you can select its size and position relative to the button label. You may also be able to change the widget style under general settings.
  - Choose an action (URL, Dashboard, Date Range, or Filter) and enter settings.

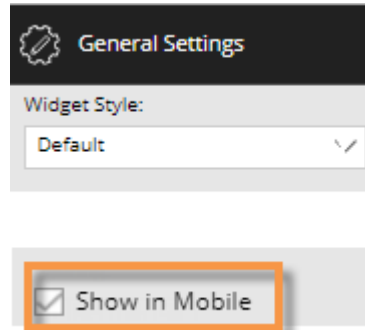
### Tips:

- To create a button that goes to a different mode (e.g., explore mode), choose URL and [enter an appropriate URL](#) (see page 139).
- Any widget can ignore filter, date, or equivalent buttons if you wish. Select the widget, go to general settings, and then clear the option for the type of button to ignore.



To add a button widget

4. To show the button in the mobile app, checkmark the **Show in Mobile** box in General Settings. To hide the button in the mobile app, clear this option.



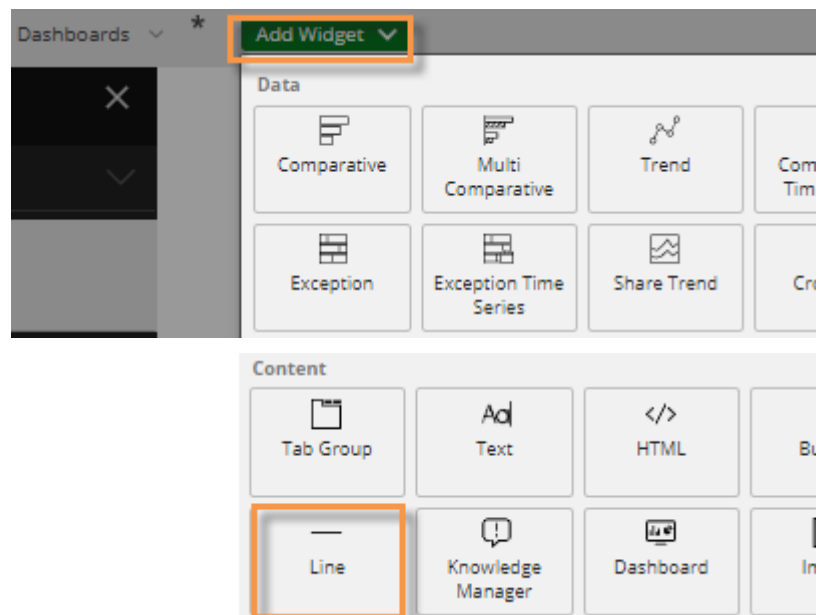
## Line widgets

You can add lines to organize or enhance a dashboard. Line widgets will be hidden in the mobile app.

To add a line

1. Click the **Add Widget** button at the top of the screen.
2. In the pop-up window, click and drag Line onto the workspace.

**Tip:** The new widget should be automatically selected so that you can format it. If the line widget is not selected, click on it.

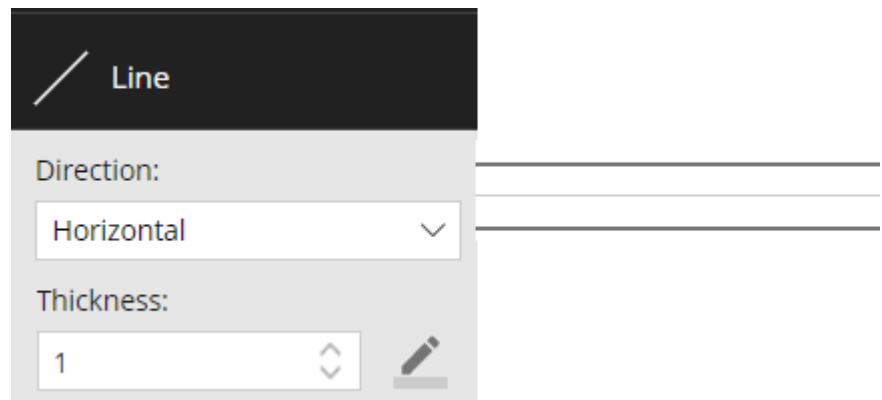


### To add a line

3. In the toolkit, configure line settings:

- Choose a line direction.
- Choose a line thickness and color.

**Tip:** To change the line length, click and drag in the workspace or go to general settings. You may also be able to change the widget style under general settings.



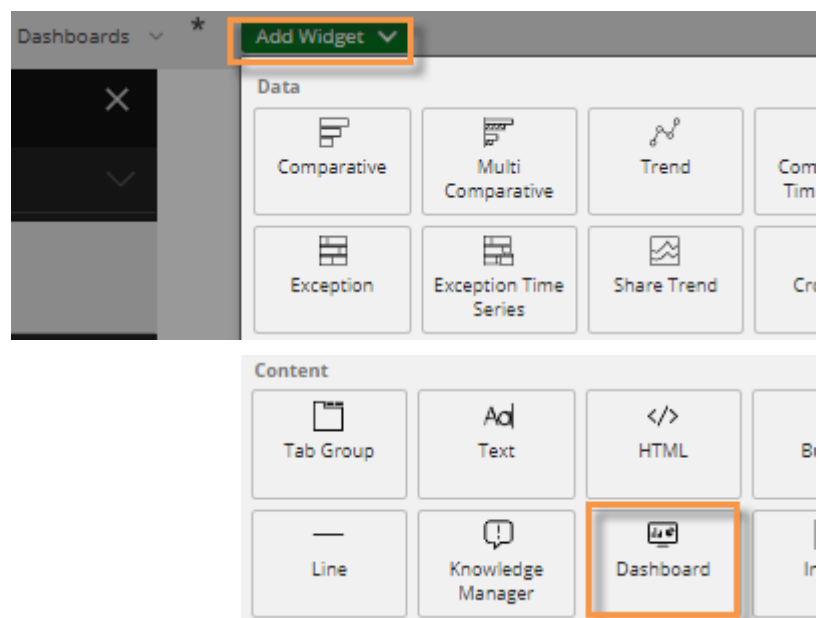
## Dashboard widgets

A dashboard widget provides a set of links to other dashboards, such as recent dashboards, favorite dashboards, all dashboards, published dashboards, or a custom assortment of dashboards. Dashboard widgets will be hidden in the mobile app.

### To add a dashboard widget

1. Click the **Add Widget** button at the top of the screen.
2. In the pop-up window, click and drag Dashboard onto the workspace.

**Tip:** The new widget should be automatically selected so that you can customize it in the next step. If the widget is not selected, click on it.



To add a dashboard widget

- From the **Filter** menu in the toolkit, select the type/category of dashboards for which to provide links:

- **Favorites** or **Recent** shows a simple list or tile array.

- **All**, **Published**, **Unpublished**, or **Private** reflects the folder structure; users will be able to navigate to folders and select dashboards.

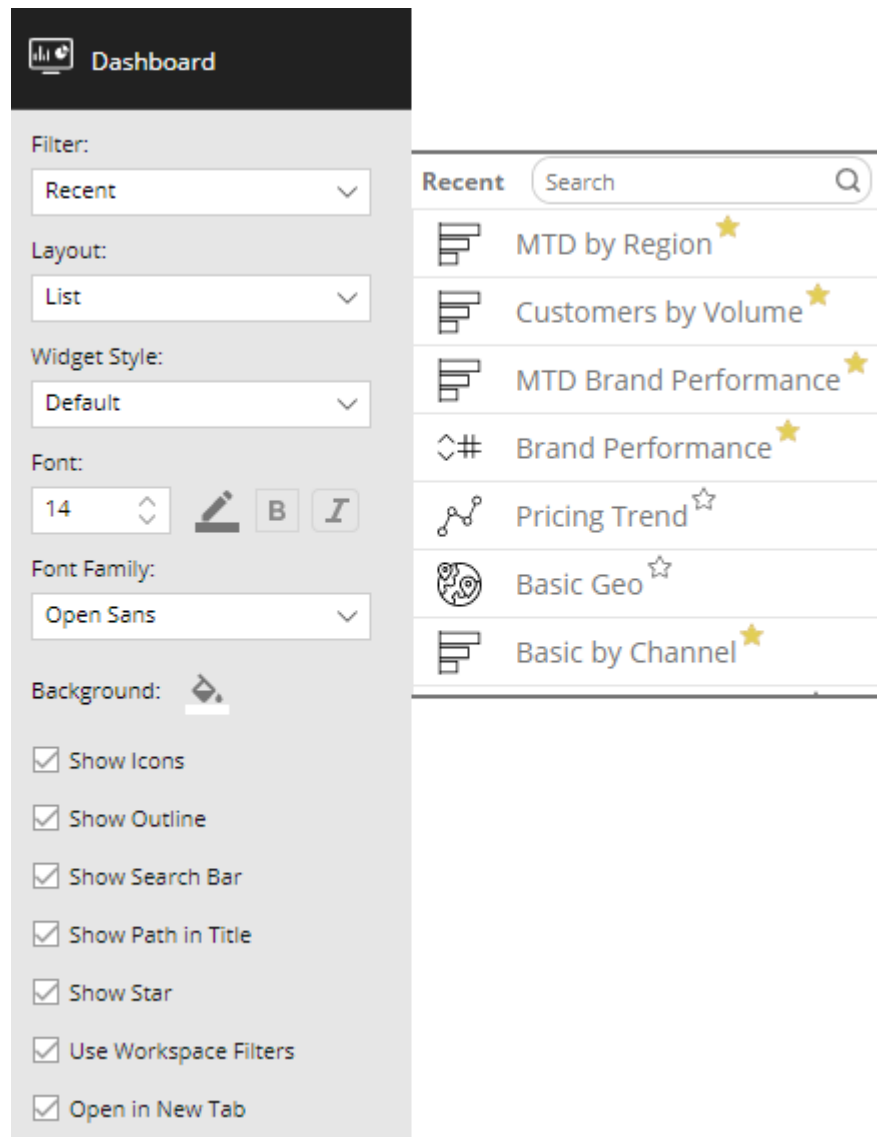
- **Custom** provides links to specific dashboards. After selecting this option, you can select the dashboards from the pop-up window.

Keep in mind that a user must have the necessary rights to a dashboard to open it.

- In the toolkit, select formatting options, including the layout (list or tile), style, font, and background. In addition, you can show or hide the following: icons (i.e. badges, chart symbols, and folder icons), outline, search bar, and favorite stars.

The **Show Path in Title** option affects widgets that include the dashboard folder structure (e.g., All). If enabled, the widget title will reflect path of the current folder.

- If you want to carry forward any applied workspace filters to the linked dashboards, check the **Use Workspace Filters** box. This would allow a user to narrow down on a business segment, and then continue their investigation in another dashboard.
- To open linked dashboards in a new browser tab, check the **Open in New Tab** box. Or, clear this option to open dashboards in the same browser tab.
- To apply additional formatting options, such as a widget style, title, transparency, and border, go to General Settings in the toolkit.

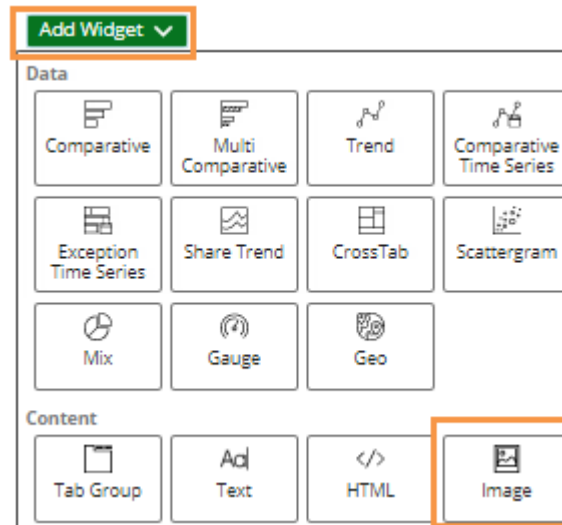



## Image widgets

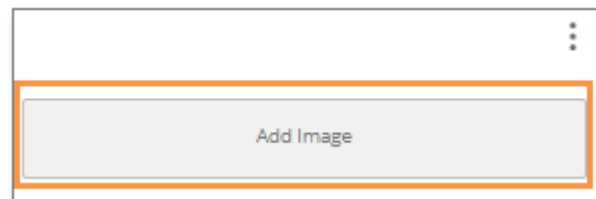
Image widgets allow you to add images to a dashboard. Image widgets are available in browser-based dashboards and the mobile app (if turned on as explained in step 7).

To add an image

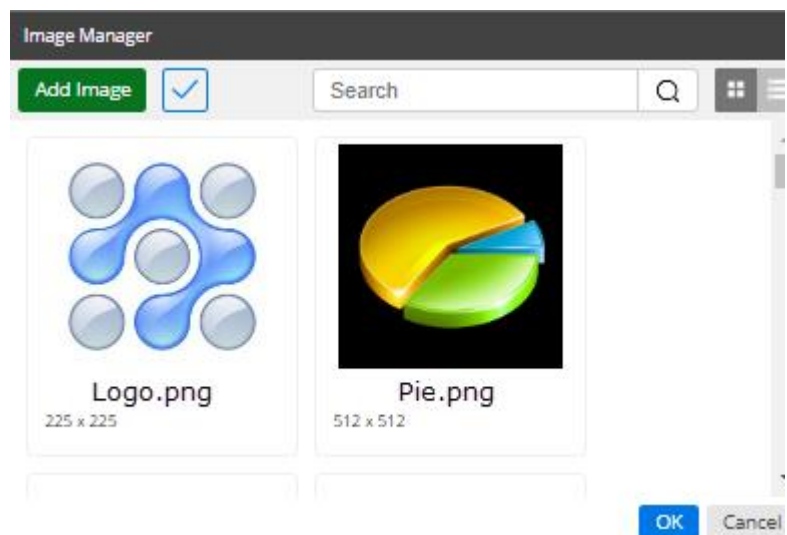
1. Click the **Add Widget** button at the top of the screen.
2. In the pop-up window, click and drag Image onto the workspace.



3. Click **Add Image** in the widget, or click the  button at the top of the widget and then select **Edit**.

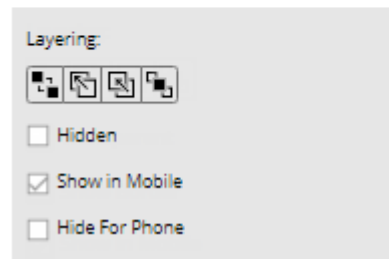
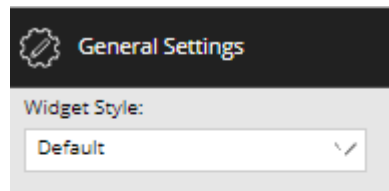


4. This opens the image manager, which stores all images used in dashboards. Select an image or click Add Image to upload a new image. You can also search for an image. The image file type must be supported by the web browser used.
5. After selecting an image, click OK.

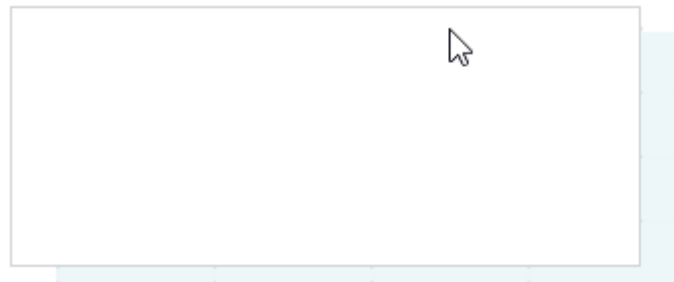


To add an image

6. To customize display settings, go to General Settings in the toolkit, where you can choose a style, turn on/off borders, adjust layering, select transparency, etc.
7. (Optional) To allow the image to be shown in the mobile app regardless of screen width, keep the **Show in Mobile** box checked and the **Hide for Phone** box cleared.



8. [Position and size the widget](#) (see page 18) in the desktop/tablet layout and the phone layout (if used in the mobile app).

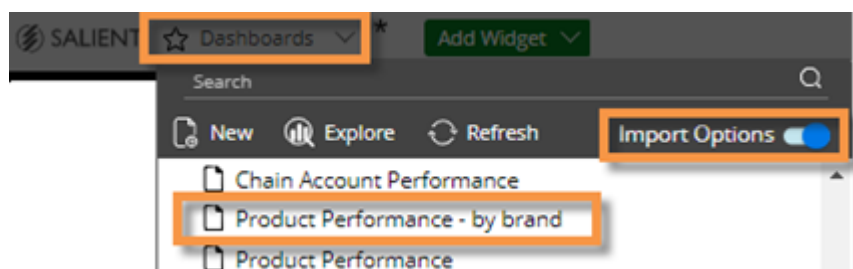


## Import dashboard options

You can import settings from other dashboards to facilitate dashboard design. For example, you might want to import filters, member coloring, and other dashboard settings.

To import dashboard options

1. Open the dashboard to which you want to apply the settings.
2. Go to the dashboards menu at the top of the screen.
3. Turn on **Import Options**.
4. Click on the name of the dashboard that has the settings you want to import.



## To import dashboard options

5. In the Import Options dialog, check the settings you wish to import, or check Select All to quickly import all available settings.

**Filters** - includes filters that have been applied to the workspace. (Workspace filters associated with filter widgets are not available for import.)

**Options** - include various [dashboard settings](#) (see page 107).

**Display** - includes settings for custom [coloring of members](#) (see page 92) and may also include a [background image](#) (see page 10) and badge image (if used).

6. Click **Import**.

**Tip:** You can also [copy widgets](#) (see page 17) from other dashboards.

**Import Options**

☐ **Select All**

To import widgets onto your dashboard, you can copy widgets by selecting a widget and hitting Ctrl/Cmd + C on the keyboard and hitting Ctrl/Cmd + V to paste it when you are focused on a dashboard workspace.

☐ **Filters**

- ☐ Form (Product)
- ☐ SalesRep (Customer)  
Baird, Jim

☐ **Options**

- ☐ Export: Prompt
- ☐ Display Host Code: Hide Code Mode: None ()
- ☐ Knowledge Manager Options
- ☐ Category Visibility Options
- ☐ Allow Spawning: True
- ☐ Show Standard Widget Title: False
- ☐ Add Cube Names: False
- ☐ Use Metric Colors on Grid: True
- ☐ Filter Panel Options  
Open on Load: False Position: Right


☐ **Display**

- ☐ Member Coloring: Brand(9), Region(7), Company(1)

**Import** **Cancel**

# Data Analysis Widgets

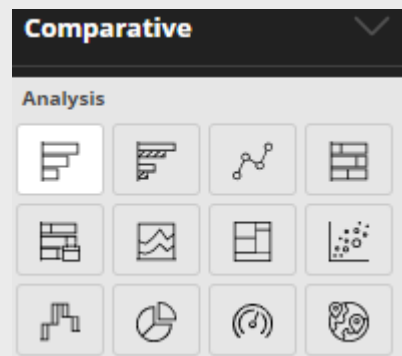
Many different [types of data widgets](#) (see page 33) are available to show performance metrics and answer questions such as: How did we do compared to last year or another timeframe? How is performance changing over time? What are the outliers or areas of concern? Who or what met performance criteria?

You can [create data analysis widgets](#) (see page 17) by adding them directly from the **Add Widget**  menu at the top of the screen, copying widgets, or duplicating widgets. After creating data analysis widgets, you should set them up by:

- [Adding measures](#) (see page 38)
- [Selecting the By to group the data](#) (see page 52)
- [Changing the date range](#) (see page 45)
- [Filtering the data](#) (see page 69)
- [Switching between numbers and graphs](#) (see page 85)
- [Customizing settings](#) (see page **Error! Bookmark not defined.**) - including grid, graph, and general settings
- [Positioning widgets](#) (see page 18) within the desktop/tablet layout and phone layout (if used)

## Tip:

You can change the analysis type of an existing data widget by clicking on it and then clicking in the analysis area of the toolkit.





# Types of data analysis widgets

You can choose from various analysis types depending on what you want to find out about the data. Most analysis types are available as either a grid or graph.

Analysis type	Examples																																													
<div><div><div></div><div></div></div><div>Comparative</div></div> <p>Comparison of members for one or two date ranges; any number measures.</p>	<table><thead><tr><th rowspan="2">Region</th><th colspan="2">Units</th><th colspan="2">Margin</th></tr><tr><th>This ↓</th><th>% Change</th><th>This</th><th>% Change</th></tr></thead><tbody><tr><td>&gt; <input type="checkbox"/> SouthEast Area</td><td>69,324</td><td>7.12</td><td>272,800</td><td>0.00</td></tr><tr><td>&gt; <input type="checkbox"/> SouthWest Area</td><td>65,067</td><td>6.87</td><td>240,924</td><td>1.70</td></tr><tr><td>&gt; <input type="checkbox"/> East Area</td><td>58,896</td><td>6.98</td><td>194,826</td><td>-4.60</td></tr><tr><td>&gt; <input type="checkbox"/> NorthWest Area</td><td>56,410</td><td>11.16</td><td>233,965</td><td>4.84</td></tr><tr><td>&gt; <input type="checkbox"/> Near West Area</td><td>20,919</td><td>-1.08</td><td>116,312</td><td>8.00</td></tr><tr><td>&gt; <input type="checkbox"/> NorthEast Area</td><td>289</td><td>-2.03</td><td>985</td><td>23.26</td></tr><tr><td>Total (6)</td><td>270,905</td><td>7.14</td><td>1,059,811</td><td>1.36</td></tr></tbody></table> <div><div><div>48k</div><div>32k</div><div>16k</div><div>0</div></div><div><div>310k</div><div>210k</div><div>100k</div><div>0</div></div><div><div>SouthEast Area</div><div>SouthWest Area</div><div>East Area</div><div>NorthWest Area</div></div><div><div>Units Sold (This)</div><div>Margin (This)</div></div></div> <div><div>Our Cola</div><div>Our Neon</div><div>Our DietCola</div><div>Our Lemon-Lime</div><div>Our SF CF Cola</div></div> <div><div>-33%</div><div>-21%</div><div>-9.8%</div><div>0%</div><div>14%</div></div> <div><div>% Change</div></div> <div><div>Units Sold [This vs Last]</div><div>Net Revenue [This vs Last]</div></div> <div><div><div></div><div></div></div><div>Comparative Time Series</div></div> <p>Trend over time for two date ranges; any number of measures</p> <div><div>Tip: This option in the Add Widget menu adds a Trend widget for two date ranges (This and Last).</div></div>	Region	Units		Margin		This ↓	% Change	This	% Change	> <input type="checkbox"/> SouthEast Area	69,324	7.12	272,800	0.00	> <input type="checkbox"/> SouthWest Area	65,067	6.87	240,924	1.70	> <input type="checkbox"/> East Area	58,896	6.98	194,826	-4.60	> <input type="checkbox"/> NorthWest Area	56,410	11.16	233,965	4.84	> <input type="checkbox"/> Near West Area	20,919	-1.08	116,312	8.00	> <input type="checkbox"/> NorthEast Area	289	-2.03	985	23.26	Total (6)	270,905	7.14	1,059,811	1.36	<div><div>420k</div><div>210k</div><div>0</div></div> <div><div>10/2009</div><div>04/2010</div><div>01/2011</div></div> <div><div>Units Sold (This)</div><div>Units Sold (Last)</div></div>
Region	Units		Margin																																											
	This ↓	% Change	This	% Change																																										
> <input type="checkbox"/> SouthEast Area	69,324	7.12	272,800	0.00																																										
> <input type="checkbox"/> SouthWest Area	65,067	6.87	240,924	1.70																																										
> <input type="checkbox"/> East Area	58,896	6.98	194,826	-4.60																																										
> <input type="checkbox"/> NorthWest Area	56,410	11.16	233,965	4.84																																										
> <input type="checkbox"/> Near West Area	20,919	-1.08	116,312	8.00																																										
> <input type="checkbox"/> NorthEast Area	289	-2.03	985	23.26																																										
Total (6)	270,905	7.14	1,059,811	1.36																																										

## Analysis type

*Crosstab*

Comparison grid or graph that organizes data by two different attributes (i.e., dimensions) to examine cross-sections of data.

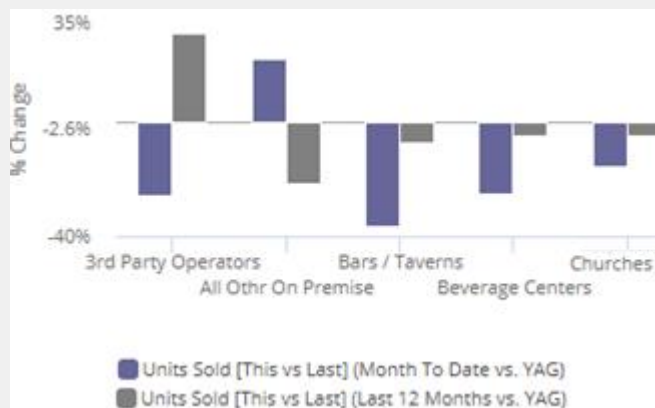
## Examples


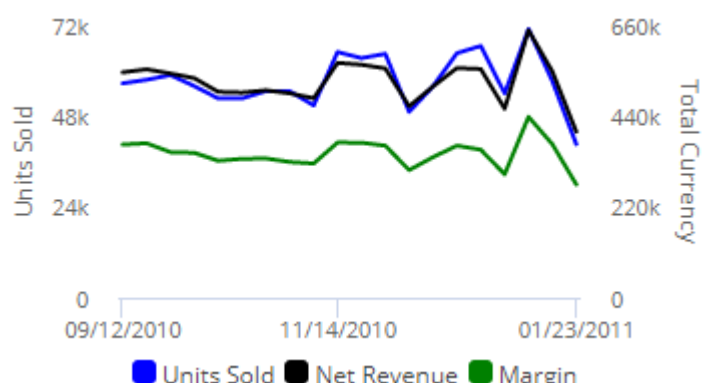

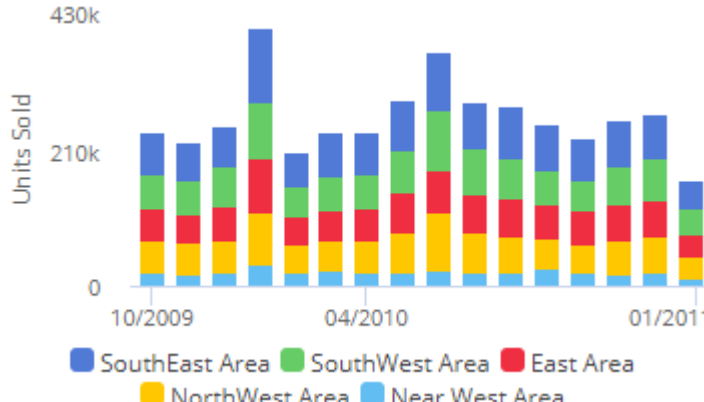

Region	Our Cola	Our Neon	Our DietCola	Our Lemon-Lime
> <input type="checkbox"/> SouthEast Area	27,332	10,090	9,316	2,650
> <input type="checkbox"/> SouthWest Area	27,513	8,239	9,750	3,362
> <input type="checkbox"/> East Area	25,313	10,343	8,364	2,644
> <input type="checkbox"/> NorthWest Area	23,342	9,620	7,189	2,358
> <input type="checkbox"/> Near West Area	5,634	2,352	2,772	868
> <input type="checkbox"/> NorthEast Area	182	10	32	11
Total (6)	109,316	40,654	37,423	11,893

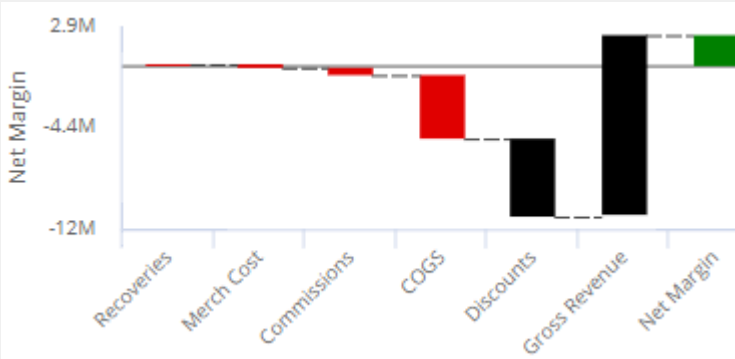
*Multi Comparative*


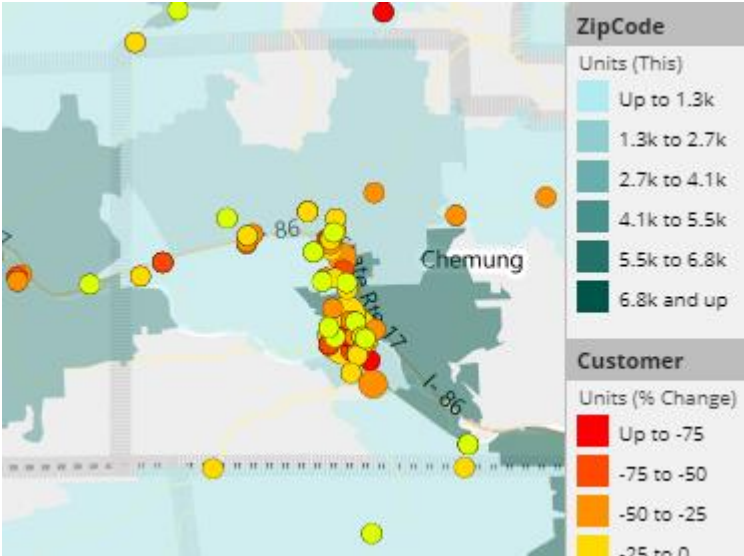

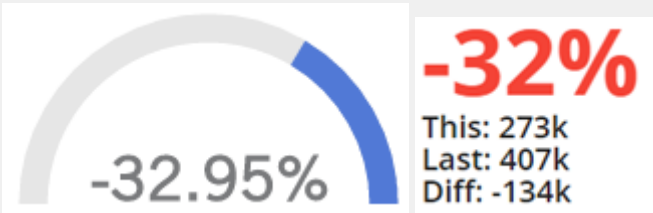

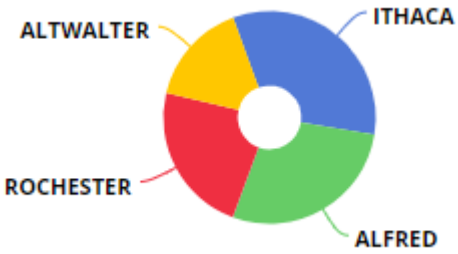
Comparison of members for any number of date ranges and measures; [column filters](#) (see page 144) may be applied to focus on specific subsets of data and provide dynamic [benchmark comparisons](#) (see page 146).

Region	Last Month vs. YAG		Last Year vs. YAG	
	Units		Units	
	This ↓	% Change	This	% Change
> <input type="checkbox"/> SouthEast Area	69,324	7.12	910,342	17.80
> <input type="checkbox"/> SouthWest Area	65,067	6.87	762,082	9.38
> <input type="checkbox"/> East Area	58,896	6.98	706,588	10.04
> <input type="checkbox"/> NorthWest Area	56,410	11.16	703,359	12.11
> <input type="checkbox"/> Near West Area	20,919	-1.08	279,479	12.90
> <input type="checkbox"/> NorthEast Area	289	-2.03	5,114	-40.75
Total (6)	270,905	7.14	3,366,964	12.41



Analysis type	Examples																																																												
<div> Trend</div> <div>Trend over time for one or two date ranges for multiple measures</div> <div><b>Tip:</b> This option in the Add Widget menu adds a Trend widget for one date range (This).</div>	<div></div> <div><table><tr><th>Date</th><th>Units Sold</th><th>Avg List Price per Unit</th><th>Margin</th></tr><tr><td>12/12/2010</td><td>55,849</td><td>12.56</td><td>340,300</td></tr><tr><td>12/19/2010</td><td>64,570</td><td>12.49</td><td>368,206</td></tr><tr><td>12/26/2010</td><td>66,486</td><td>12.50</td><td>358,264</td></tr><tr><td>1/2/2011</td><td>53,978</td><td>12.48</td><td>298,829</td></tr><tr><td>1/9/2011</td><td>70,920</td><td>12.40</td><td>437,850</td></tr><tr><td>1/16/2011</td><td>57,179</td><td>12.80</td><td>371,473</td></tr><tr><td>1/23/2011</td><td>40,547</td><td>13.01</td><td>274,320</td></tr><tr><td>Total</td><td>4,290,796</td><td>12.33</td><td>24,743,785</td></tr></table></div>	Date	Units Sold	Avg List Price per Unit	Margin	12/12/2010	55,849	12.56	340,300	12/19/2010	64,570	12.49	368,206	12/26/2010	66,486	12.50	358,264	1/2/2011	53,978	12.48	298,829	1/9/2011	70,920	12.40	437,850	1/16/2011	57,179	12.80	371,473	1/23/2011	40,547	13.01	274,320	Total	4,290,796	12.33	24,743,785																								
Date	Units Sold	Avg List Price per Unit	Margin																																																										
12/12/2010	55,849	12.56	340,300																																																										
12/19/2010	64,570	12.49	368,206																																																										
12/26/2010	66,486	12.50	358,264																																																										
1/2/2011	53,978	12.48	298,829																																																										
1/9/2011	70,920	12.40	437,850																																																										
1/16/2011	57,179	12.80	371,473																																																										
1/23/2011	40,547	13.01	274,320																																																										
Total	4,290,796	12.33	24,743,785																																																										
<div> Share Trend</div> <div>Comparison trend for multiple members; either actual values or percent of the total for single measure</div>	<div></div>																																																												
<div> Exception</div> <div>Pass and fail of key members for an exception test (e.g., customers with units &gt;=1)</div>	<div><table><tr><th>Channel</th><th>Totals ↓</th><th>Passed</th><th>% Passed</th><th>Failed</th><th>% Failed</th></tr><tr><td>&gt; <input type="checkbox"/> All Othr On Premise</td><td>1,122</td><td>184</td><td>16.4</td><td>938</td><td>83.6</td></tr><tr><td>&gt; <input type="checkbox"/> Industrial</td><td>578</td><td>303</td><td>52.4</td><td>275</td><td>47.6</td></tr><tr><td>&gt; <input type="checkbox"/> Schools</td><td>459</td><td>330</td><td>71.9</td><td>129</td><td>28.1</td></tr><tr><td>&gt; <input type="checkbox"/> Recreation</td><td>444</td><td>215</td><td>48.4</td><td>229</td><td>51.6</td></tr><tr><td>&gt; <input type="checkbox"/> Restaurants</td><td>411</td><td>245</td><td>59.6</td><td>166</td><td>40.4</td></tr><tr><td>&gt; <input type="checkbox"/> Fast Food</td><td>395</td><td>266</td><td>67.3</td><td>129</td><td>32.7</td></tr><tr><td>&gt; <input type="checkbox"/> Other Groceries</td><td>283</td><td>182</td><td>64.3</td><td>101</td><td>35.7</td></tr><tr><td>&gt; <input type="checkbox"/> Colleges</td><td>262</td><td>230</td><td>87.8</td><td>32</td><td>12.2</td></tr><tr><td>Total (38)</td><td>5,863</td><td>3,166</td><td>54.0</td><td>2,697</td><td>46.0</td></tr></table></div>	Channel	Totals ↓	Passed	% Passed	Failed	% Failed	> <input type="checkbox"/> All Othr On Premise	1,122	184	16.4	938	83.6	> <input type="checkbox"/> Industrial	578	303	52.4	275	47.6	> <input type="checkbox"/> Schools	459	330	71.9	129	28.1	> <input type="checkbox"/> Recreation	444	215	48.4	229	51.6	> <input type="checkbox"/> Restaurants	411	245	59.6	166	40.4	> <input type="checkbox"/> Fast Food	395	266	67.3	129	32.7	> <input type="checkbox"/> Other Groceries	283	182	64.3	101	35.7	> <input type="checkbox"/> Colleges	262	230	87.8	32	12.2	Total (38)	5,863	3,166	54.0	2,697	46.0
Channel	Totals ↓	Passed	% Passed	Failed	% Failed																																																								
> <input type="checkbox"/> All Othr On Premise	1,122	184	16.4	938	83.6																																																								
> <input type="checkbox"/> Industrial	578	303	52.4	275	47.6																																																								
> <input type="checkbox"/> Schools	459	330	71.9	129	28.1																																																								
> <input type="checkbox"/> Recreation	444	215	48.4	229	51.6																																																								
> <input type="checkbox"/> Restaurants	411	245	59.6	166	40.4																																																								
> <input type="checkbox"/> Fast Food	395	266	67.3	129	32.7																																																								
> <input type="checkbox"/> Other Groceries	283	182	64.3	101	35.7																																																								
> <input type="checkbox"/> Colleges	262	230	87.8	32	12.2																																																								
Total (38)	5,863	3,166	54.0	2,697	46.0																																																								


Analysis type	Examples
 <p><i>Exception Time Series</i></p> <p>Pass and fail of key members for an exception test over time</p>	 <p>290 190 96 0</p> <p>06/2018 09/2018 12/2018 03/2019 06/2019 09/2019</p> <p>Passed Failed Cumulative</p>
 <p><i>Scattergram</i></p> <p>Plot of members for two measures to show trends and outliers. The points can represent key members (e.g., customers) or dimension members (e.g., regions).</p>	 <p>990 660 330 0</p> <p>0 10 20 30</p> <p>Units</p> <p>Net Price</p>
 <p><i>Waterfall</i></p> <p>How the components of a calculated measure affect its make-up</p>	 <p>2.9M -4.4M -12M</p> <p>Recoveries Merch Cost Commissions COGS Discounts Gross Revenue Net Margin</p>

Analysis type	Examples
 <b>Geo</b> Map showing data values and/or change since another date range	
 <b>Gauge</b> A simple visual tool showing performance; single measure	
 <b>Mix</b> Percent of the total for multiple members for one or two date ranges; any number of measures	

**Tips:**

- To view record-level data similar to that in SIM's Line Item or Time in Place analysis, you can group the data by [Record Details](#) (see page 122).
- [Custom views](#) (see page 140) may be configured to show representations of data beyond the graphs and grids shown here.

# Add measures

You can add measures or "data fields" to data widgets using the measures area of the toolkit (located under Context). Users will be able to easily [show or hide the any of the selected measures](#) (see page 39) using the  button, or go into the edit area to add more measures, depending on dashboard and user account settings.

To add measures


**1. Select widget.**

**2. Open measures.**

**3. Select measures.**

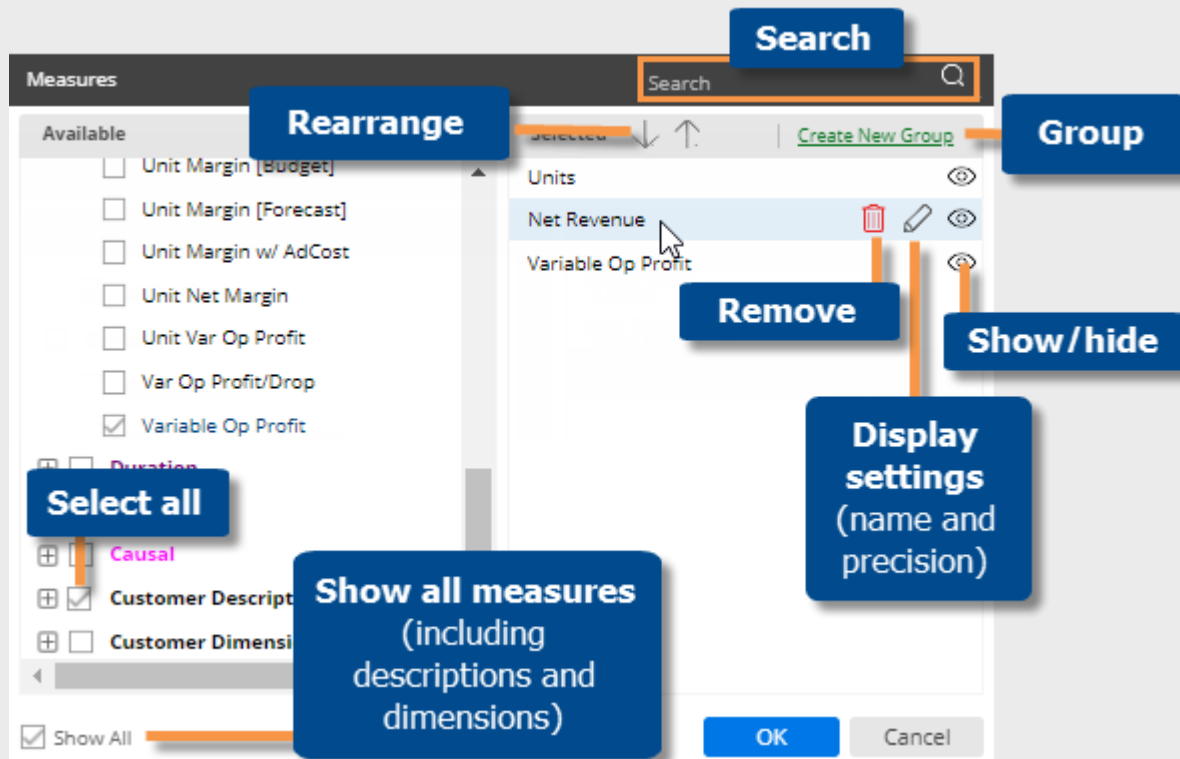
**4. Show/hide measures. (optional)**

**5. Click OK.**


- Select widget** - Click on the widget if it's not already selected.
- Open measures** - In the Toolkit panel, expand the **Context** area and click on **Measures**.
- Select measures** - Under **Available**, check the box(es) of the individual measure(s) or data categories to add. The selected measures appear in the right pane. You may want to add several measures to provide easy access for users and then hide some of the measures in the next step. The number of allowed measures depends on the widget type.
- Optionally, hide  all measures except those that you want to show when the dashboard initially loads.
- Click **OK**.

**Tips:**


- The tools in the right pane of the dialog allow you to search for a measure, remove a measure, rearrange measures, change measure display settings, create measure groups, and show/hide measures.
- By default, the available measures depend on the context (data cube, By, etc.). You can check the **Show All** link at the bottom of the dialog to see all measures regardless of the context. This option also makes key descriptions (e.g., name, address, etc.) and dimensions available (requires that the key list is selected as a Group By). Measures may also be limited by the analysis type.



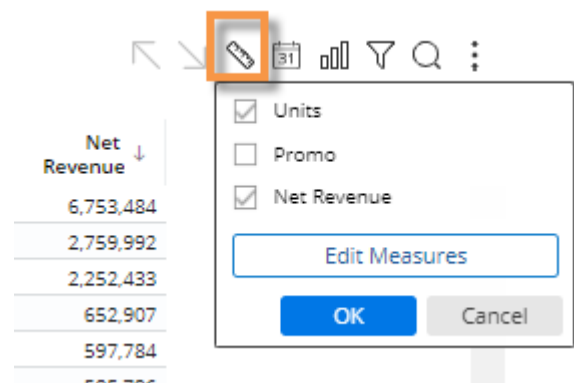
## Select measures

You can select measures using the measure selection  tool in any mode of Salient Dashboards. (This tool may be turned off in general settings.)

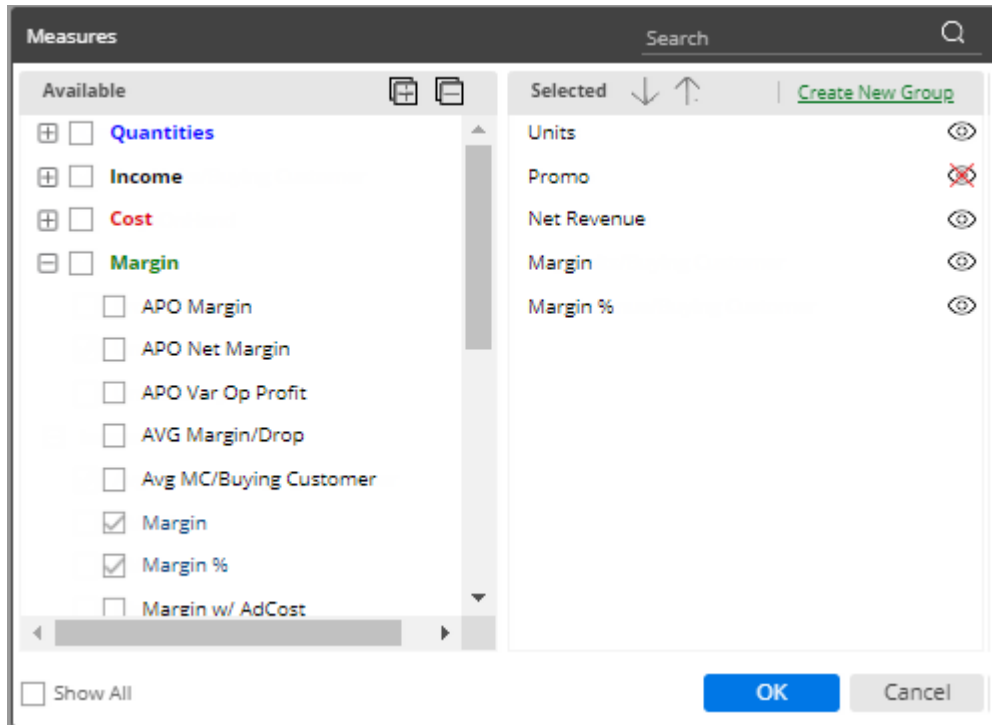
To select measures

- On the widget toolbar, click the  button (visible on mouseover). If the widget only has one measure, this will take you directly to the Measures window (Step 3).
- In the pop-up menu, check the boxes of the measures to show and clear the boxes of the measures to hide; then, click OK. This menu lists the measures that have been added to the widget. If you don't see the desired measure(s), click on **Edit Measures** and continue to Step 4.



Note: The ability to edit measures in view mode may be restricted by dashboard or user account settings.

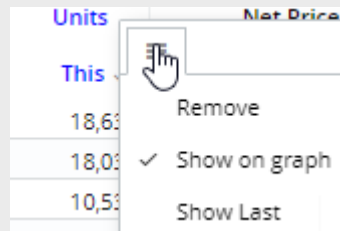



3. *To edit measures:* Expand a data category in the left pane and then check the box(es) of the individual measure(s) or data categories to add. The selected measures appear in the right pane. Click OK when you are finished editing measures.



### Tips:

To hide a subcolumn (e.g., This or Last), click the menu icon  in its heading and select **Remove**. To add This or Last back, click the menu icon  and select **Show This** or **Show Last**.



In an Exception widget, the measure selection tool  lets you show or hide individual exception columns (Passed, Passed %, etc.). The Measures window (i.e., Edit Measures) controls the measures that will be shown when listing members.




## Insert calculations

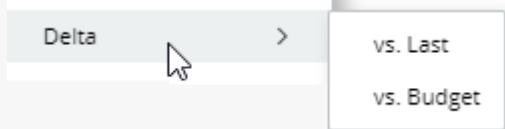
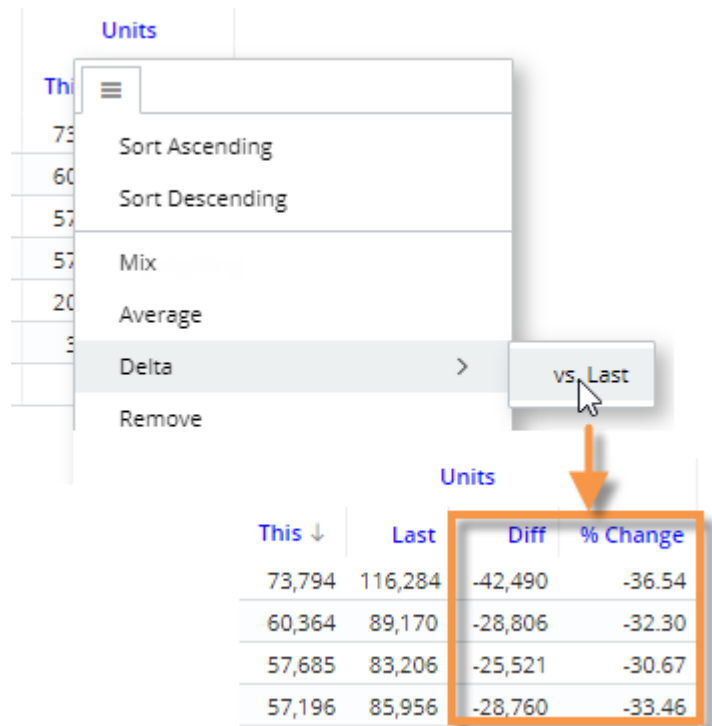
### Insert difference and percent change

In grids that compare two date ranges, you can insert the difference and percent change.

To insert difference and percent change

1. [Switch to the grid](#) (see page 85) if you haven't already.
2. To add the difference/change percent (This-Last), place your cursor over the measure's This column, and click the menu icon . From the pop-up menu, select Delta, vs. Last.

**Tip:** To add the difference/percent change between any other values (e.g. values vs. budget), place your cursor over the first subheading in the formula, click the drop-down arrow, and then make your selection.


The screenshot shows the 'Units' menu with options: Sort Ascending, Sort Descending, Mix, Average, Delta, and Remove. The 'Delta' option is selected, and a 'vs. Last' button is visible. Below, a data grid is shown with columns 'This ↓', 'Last', 'Diff', and '% Change'. The 'Diff' and '% Change' columns are highlighted with an orange box.

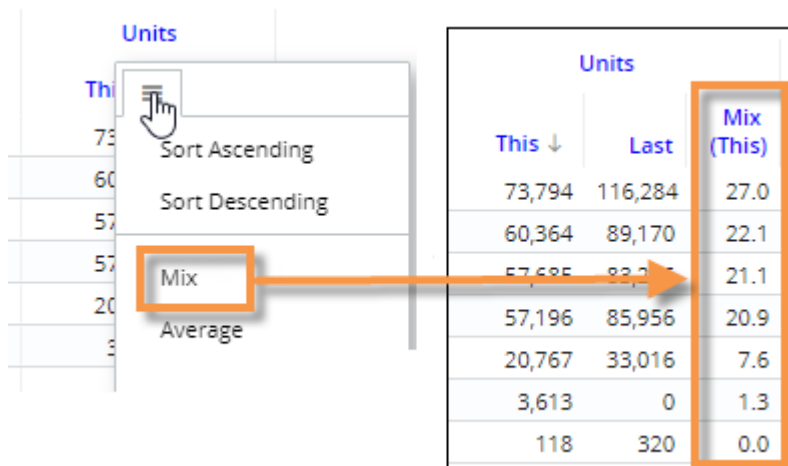
This ↓	Last	Diff	% Change
73,794	116,284	-42,490	-36.54
60,364	89,170	-28,806	-32.30
57,685	83,206	-25,521	-30.67
57,196	85,956	-28,760	-33.46

## Insert mix

In grids that compare members, you can insert the percent of the total (mix) contributed by each member. In a Trend or Comparative Time Series widget, this adds the percent of the total for each unit of time. You cannot add mix for fields calculated with multiplication or division (such as per unit fields).

To insert mix

1. [Switch to the grid](#) (see page 85) if you haven't already.
2. Place your cursor on the column for which you want to add mix values.
3. Click the menu icon .
4. On the pop-up menu, select Mix.



Units		
This ↓	Last	Mix (This)
73,794	116,284	27.0
60,364	89,170	22.1
57,685	83,215	21.1
57,196	85,956	20.9
20,767	33,016	7.6
3,613	0	1.3
118	320	0.0

**Tip:** Additional options are available in Crosstab grids.

- Column (Mix - C) - percent of the total of all columns within the given row.
- Row (Mix - R) - percent of the total of all rows within the given column.
- Total (Mix - T) - percent of the total of all rows and columns.

For example, the following shows Mix for Mocha Coffee in the SouthEast region:

	Mocha Coffee				Total	
	Units				Units	
	This	Mix - C (Units)	Mix - R (Units)	Mix - T (Units)	This	Mix (Units)
SouthEast Area	185	40.3	69.0	28.4	459	70.5
SouthWest Area	34	39.5	12.7	5.2	86	13.2
East Area	25	45.5	9.3	3.8	55	8.4
NorthWest Area	24	48.0	9.0	3.7	50	7.7
NorthEast Area	0	0.0	0.0	0.0	1	0.2
Total (5)	268	41.2	41.2	41.2	651	100.0

Mix - C =  $185 \text{ (Mocha Coffee in SouthEast)} / 459 \text{ (All brands in SouthEast)} \times 100\% = 40.3\%$


Mix - R =  $185 \text{ (Mocha Coffee in SouthEast)} / 268 \text{ (Mocha Coffee in all regions)} \times 100\% = 69.0\%$

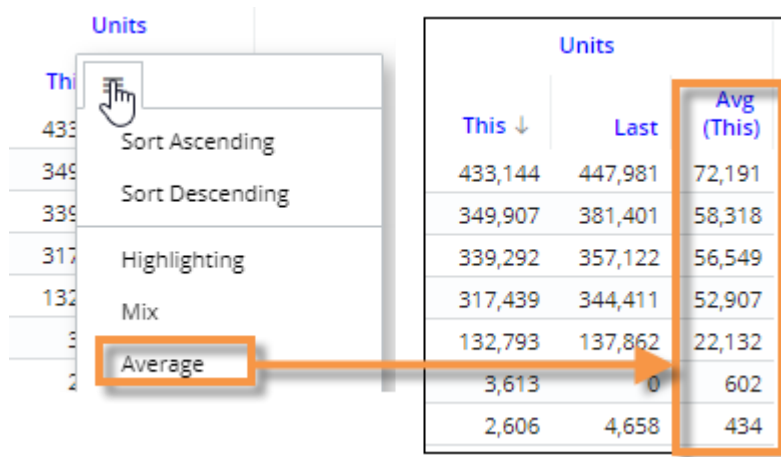
Mix - T =  $185 \text{ (Mocha Coffee in SouthEast)} / 651 \text{ (total for all brands in all regions)} \times 100\% = 28.4\%$

## Insert average

In comparative grids, you can insert a column that shows the average per day, week, month, or period in the date range. For example, if the view totals data for past 6 months, the average column would show the average value per month.

### To insert average

1. [Switch to the grid](#) (see page 85) if you haven't already. For the average column to be meaningful, the widget should show at least two units of time (days, weeks, months, etc.)
2. To add the average for This date range, place your cursor over This column; to add the average for Last date range, place your cursor over Last column.
3. Click the menu icon  and then, from the pop-up menu, select **Average**.

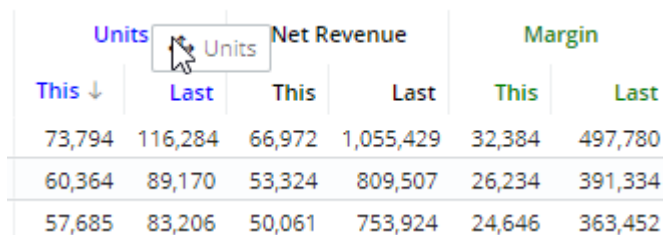


Units		
This ↓	Last	Avg (This)
433,144	447,981	72,191
349,907	381,401	58,318
339,292	357,122	56,549
317,439	344,411	52,907
132,793	137,862	22,132
3,613	0	602
2,606	4,658	434

## Move and resize columns

### To move columns

1. In a grid, click the heading of the column you want to move.
2. Press the left mouse button, drag the cursor to the new location, and release the mouse button.

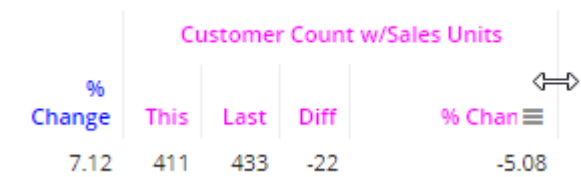


Units		Net Revenue		Margin	
This ↓	Last	This	Last	This	Last
73,794	116,284	66,972	1,055,429	32,384	497,780
60,364	89,170	53,324	809,507	26,234	391,334
57,685	83,206	50,061	753,924	24,646	363,452

### To resize a column

Click and drag the right side of the column to the desired width.

**Tip:** To go back to the default width (i.e., autosize), click the menu icon at the top of the column and select **Reset to Auto Width**.



Customer Count w/Sales Units				
% Change	This	Last	Diff	% Chan
7.12	411	433	-22	-5.08

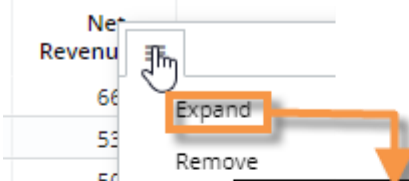
## Expand a calculated measure

Many data values are calculated within the UXT system using other measures. To see the formula for a measure, place your cursor over its heading. If you have the necessary rights, you can expand a measure to see all measures used in its formula.

To expand a calculated measure

1. In a grid, place your cursor over the heading of the measure you want to expand and then click the drop-down arrow.
2. On the pop-up menu, select **Expand**.

**Tip:** To remove the measures, access the pop-up menu and select the collapse option.

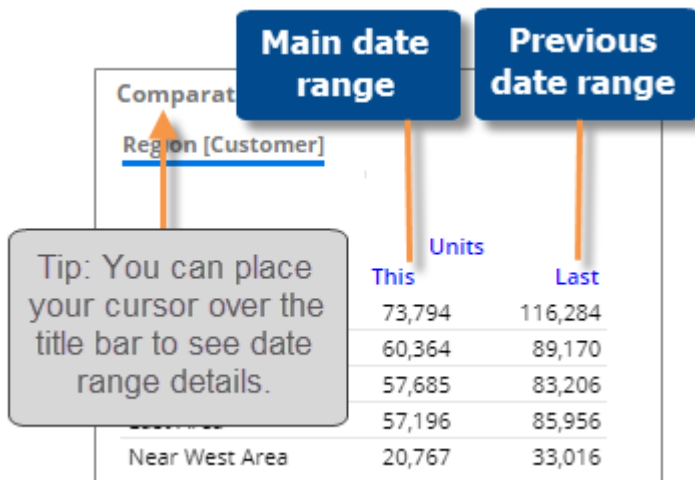


The screenshot shows a dashboard grid with a table. A dropdown menu is open over the 'Net Revenue' column header, with the 'Expand' option highlighted. An orange arrow points from the 'Expand' option to the expanded table below.

Net Revenue		
Discounts	Gross Revenue	Net Revenue ↓
-21,255	88,227	66,972
-16,877	70,200	53,324
-17,164	67,225	50,061
-19,005	65,291	46,286

## Select the dates


You can choose a range of dates (days, weeks, months, etc.) to display when the dashboard first opens. This provides a commonly used "starting point" that can update automatically over time. Most widgets total data over the selected date range; time series show each date in the range individually. You may also be able to set a previous date range to compare against. Date settings can be applied per widget and/or linked across multiple widgets, so that they update whenever the dashboard date changes.

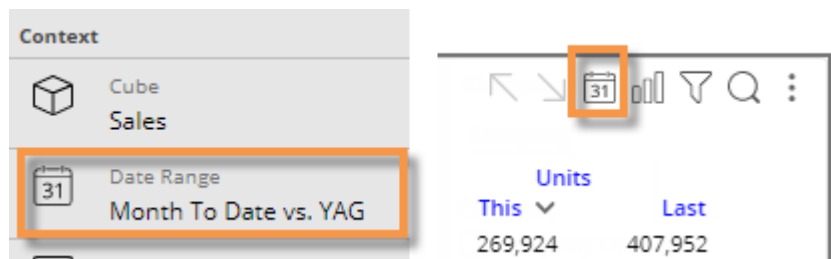


## Date setup

Select from the following options choose the initial date range to display when the user opens the dashboard. You can also select from these options as you investigate the data in Salient Dashboards.

To select the date setup

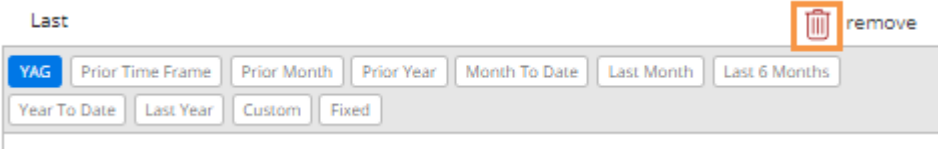


1. Click the date setup icon  in the title bar of the widget, or click on the widget and then click on Date Range under Context in the toolkit.
2. In the dialog, choose from the following date settings. The available options depend on the dataset and may be pre-configured by your administrator.



The screenshot shows a 'Date Range Selection' dialog box with the following components and annotations:

- Resolution:** A dropdown menu set to 'Month'.
- Day filters:** A dropdown menu set to 'Sunday'.
- Day Filters:** A button to open the day filter selection menu.
- Main date range (This):** A section containing:
  - Buttons: 'Month To Date', 'Last Month', 'Last 6 Months', 'Year To Date', 'Last Year', 'Custom', 'Fixed'.
  - Start date: '01/01/2011' with a calendar icon.
  - End date: '01/31/2011' with a calendar icon.
  - A range slider and a page indicator '1'.
  - ☐ 'Most Recent Complete' checkbox.
- Previous date range (Last):** A section containing:
  - Buttons: 'YAG', 'Prior Time Frame', 'Prior Month', 'Prior Year', 'Month To Date', 'Last Month', 'Last 6 Months', 'Year To Date', 'Last Year', 'Custom', 'Fixed'.
  - Start date: '01/01/2010' with a calendar icon.
  - End date: '01/21/2010' with a calendar icon.
  - A range slider and a page indicator '1'.
- Comparison:** A dropdown menu set to 'Matching time frames'.
- Comparison for incomplete timeframes:** A button to compare date ranges for incomplete timeframes.
- Reset:** A button to reset the date range.
- Reset to saved date range (view mode only):** A button to reset to a saved date range.
- Link/unlink widget's date range:** A button to link or unlink the widget's date range.
- OK** and **Cancel** buttons at the bottom right.

Option	Explanation
Resolution (i.e. days, weeks, months, or customized periods, etc.)	Choose the units of time from the menu at the top of the dialog. This selection controls which date presets will be available.
Main date range (This)	Under <b>This</b> , click the button of the date range to view (e.g. Month To Date). The available date presets depend on the resolution selected above and the dataset configuration. If you wish, you can customize the date range further after making your selection.
Day filters (optional)	Optionally, click the <b>Day Filters</b> button at the top of the dialog to choose specific days of the week or business days within the date range to analyze. Data for all other dates will be filtered out.

Option	Explanation
Comparison date range (Last) - optional	<p>Under <b>Last</b>, click the button of the previous date range (e.g., YAG). The available options depend on the resolution selected above.</p> <p>If the dialog does not include a Last section, click <b>Add Date Range</b> at the bottom of the dialog to include a previous date range if desired.</p> <p><b>Tip:</b> A comparison date range is optional in many widget types. If you want to look at a single date range only, you can remove the Last date range.</p> 
Comparison for incomplete timeframes	<p>A <b>Comparison</b> option at the bottom of the dialog controls the selection of the previous (Last) date range when This date range is incomplete.</p> <ul style="list-style-type: none"> <li>• <b>Matching time frames</b> - Adjust the number of days in Last date range to match the number of days in This date range for a precise view of gain/loss (i.e. how much better/worse are we doing). For example, compare March 1 through 15 of this year with March 1 through 15 last year.</li> <li>• <b>Complete last period</b> - Do not adjust the number of days in Last date range; instead show the complete last month or period for a gap or goal perspective (i.e. how much more to go). For example, compare March through 15 of this year with the full month of March last year.</li> </ul>
Linked dates (i.e., use dashboard date)	<p>Toggle the link icon at the bottom of the dialog to link or unlink the widget's date range, depending on whether you want the date range to update with the dashboard date.</p> <p> - indicates that the widget's date will update when the dashboard date changes. In view mode, the date ranges of all linked widgets update simultaneously when one of them is changed.</p> <p> - indicates that the widget's date range is unlinked and, therefore, has its own stand-alone date range.</p> <p><b>Tips:</b> Even if date ranges of widgets are linked, they operate independently in edit mode to allow you to set different initial date ranges for the widgets.</p> <p>The date icon setting must be on (in general widget settings) for linked date ranges to function.</p> <p>You can also link/unlink a widget using the <b>Use Dashboard Date</b> setting in general widget settings.</p>

### Tips:


The date range selected in edit mode (prior to saving) is used as the default that appears when users open the dashboard in view mode.

In view mode, you can click the **Reset** button to revert the date range back to the last saved settings.

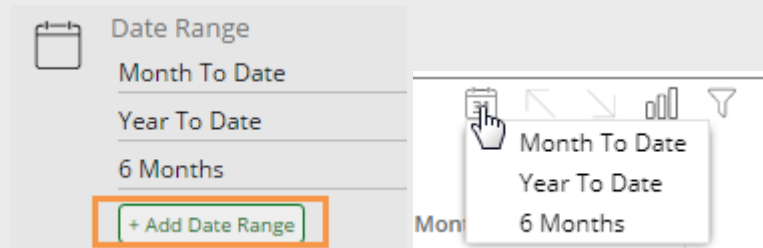
**Tips:**

Multi Comparative widgets can show additional date ranges besides the standard This and Last ranges (e.g., MTD vs. YAG and YTD vs. YAG).


To add date ranges to the Multi Comparative, select the widget and then click Add Date Range under Date Range in the toolkit.

To edit a date range for a Multi Comparative, click  in the widget's toolbar and then select the name of the date range.

Multi Comparative date ranges cannot be linked to other widgets.

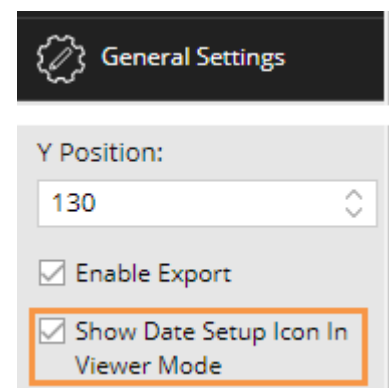


## Enable or disable date setup for view mode

By default, the date setup icon  is enabled in view mode, allowing users to change the date of a widget. This provides full access to date options including the resolution, number of dates, start/end dates, and more. If you wish, you can disable this icon for any widget. Other methods of date selection, such as an end-date menu or buttons may still be available.

To enable/disable date setup icon for view mode

1. Select the widget for which you want to disable or enable the date setup icon.
2. Expand **General Settings** in the toolkit.
3. Locate the **Show Date Setup Icon in Viewer Mode** property and check or clear its box.





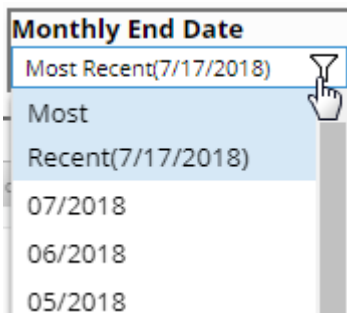
## End date selection

A date selector allows users to choose the dashboard end date to shift the date ranges of multiple widgets across the dashboard at once. This type of date selection does not change the resolution (days, weeks, months, etc.) or number of dates in the date ranges.

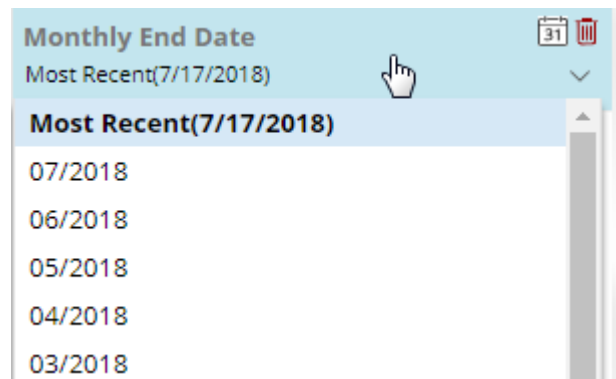
To select the dashboard end date

1. Click a date selector to open it. A date selector may be in the filters panel or within the dashboard as a separate widget, depending on the dashboard's setup. If the dashboard doesn't include a date selector in either of these areas, you can [add one](#) (see page 50).
2. Select a dashboard end date from the menu. This controls what is considered the current date or "today" and will, therefore, adjust dynamic date ranges relative to this date. Fixed date ranges and date ranges that are unlinked (i.e., do not use the dashboard date) are not affected by end date selection.

As a separate widget in the dashboard:



In filter panel:

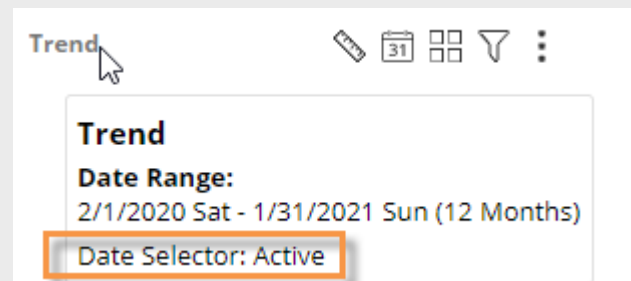


### Tips:


If the resolution of an end date selector is different than a widget's date range, then Salient Dashboards will use an appropriate end date based on the selection. For example, if the date selector is monthly and a widget's date range is last week, the resulting date range is the last full week in the selected month.

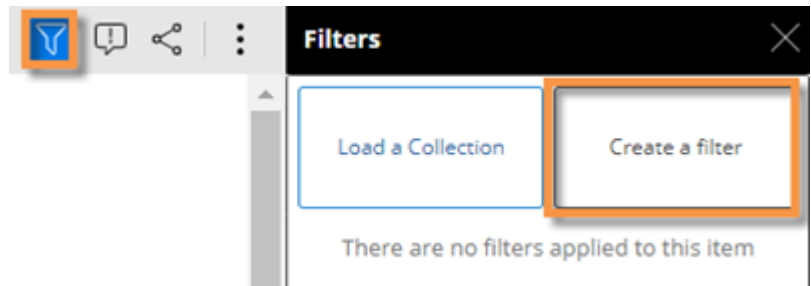
Depending on how it has been set up, the date selector may include a Most Recent or Most Recent Complete option.

A date selector can be selectively turned off for a widget in edit mode (under General Settings, Use Dashboard Date), so that it does not affect the widget's date range. You can see whether a date selector is active or inactive for a given widget by placing your cursor over the widget's title to see the tooltip.




To add a date selector to the filters panel

1. Click the  at the top of the dashboard screen to open the filter panel.
2. Click **Create a filter**.
3. Click **Date**.



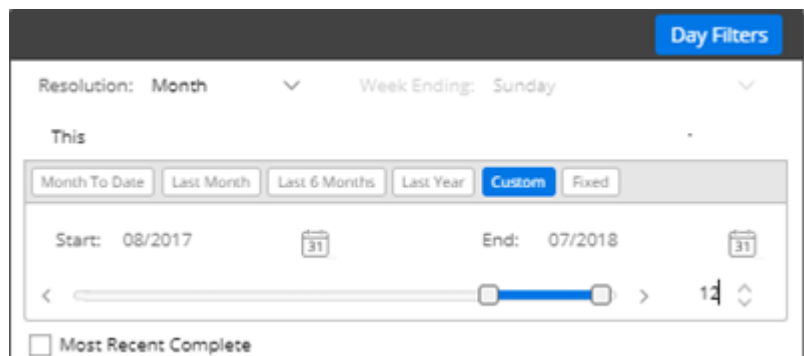
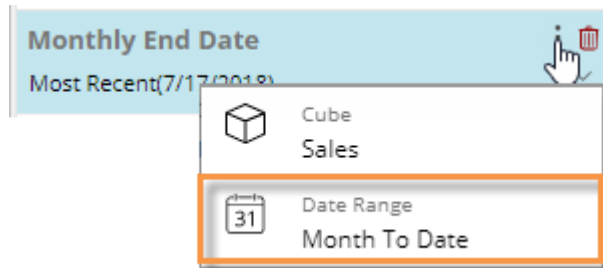
4. Set the dates that will appear as choices in the menu.

- i. Mouseover the date selector in the filters panel, and then click the  icon.

- ii. Click on Date Range.

- ii. Select the resolution of the dates to appear in the menu (e.g., months).

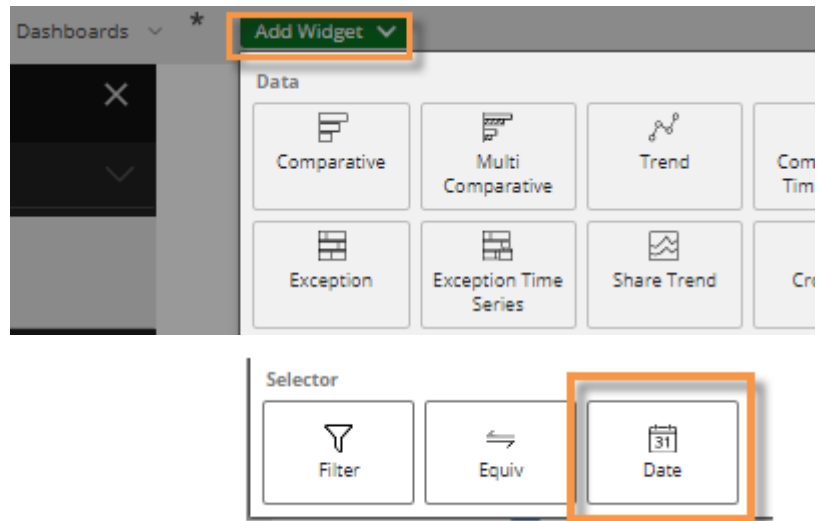
- iii. Configure the date range so that it includes all of dates that should appear as choices in the menu. The dates can be fixed or move automatically based on available data. For example, you might want to allow users to select from the last twelve months.



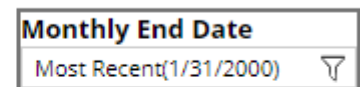
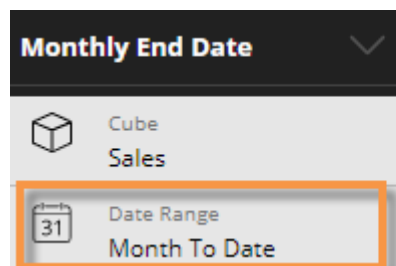
## To add a date selector widget (edit mode only)

This method places a date selector widget within the dashboard and adds a corresponding menu in the filters panel. Users will not be able to remove the selector in view mode.

1. Click the **Add Widget** button at the top of the screen.
2. In the pop-up window, click the Date button or drag it onto the workspace.




3. Set the dates that will appear as choices in the menu.
  - i. Click on the date widget, and then click on Date Range in the toolkit.
  - ii. Select the resolution of the dates to appear in the menu (e.g., months).
  - iii. Configure the date range so that it includes all of dates that should appear as choices in the menu.

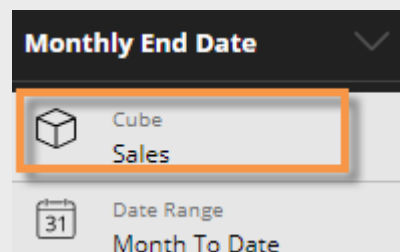
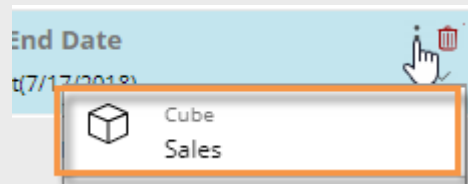


### Tips:

The selected date cube controls the available dates. You may need to change the data cube associated with the date selector to make the desired dates available.

In the Filter panel, this can be done by clicking the  icon and selecting **Cube**.

For a date selector widget, the data cube can be selected in the toolkit.



**Tips:**

The date selector will affect all widgets that use the dashboard date (i.e., linked dates). This is the default setting, but it can be changed in general widget settings.

## Group By attributes

The "Group By" attributes control the following aspects of widgets that compare members (Comparative, Multi Comparative, etc.):

- How data is grouped at the highest level (1st By).
- If and how members can be expanded into additional levels of data (2nd By, 3rd By, etc.).
- The default order of dimensions when drilling down (i.e., drill order).
- What dimensions users can drill into.
- What global filters can be applied.
- What dimensions are available in the Group By menu in the breadcrumb path. (Users will be able to access additional dimensions via an "edit" option.)

**Comparative**

Region [Customer]

Region

Region	Units ↓		
> SouthEast Area	60,324		
> SouthWest Area	10,067		
✓ East Area	58,896		
> Gordon, Pat	20,528		
✓ Turner, Michael	16,552		
> Cans	10,939	61,933	
✓ PET	5,480	43,493	
Our Cola			
Our DietCola			
Our Neon			
Our SF CF Cola	372	2,813	
Our CF Cola	311	2,343	
Our Lemon-Lime	304	2,246	
SF Our Lemom-Lime	86	667	
Our Punch	77	638	
SF Our Neon	67	574	
Our New Diet	56	495	
Total (6)	270,905	2,359,773	

**1st By**

**Next Bys (2nd By, 3rd By, 4th By, etc.)**



Search

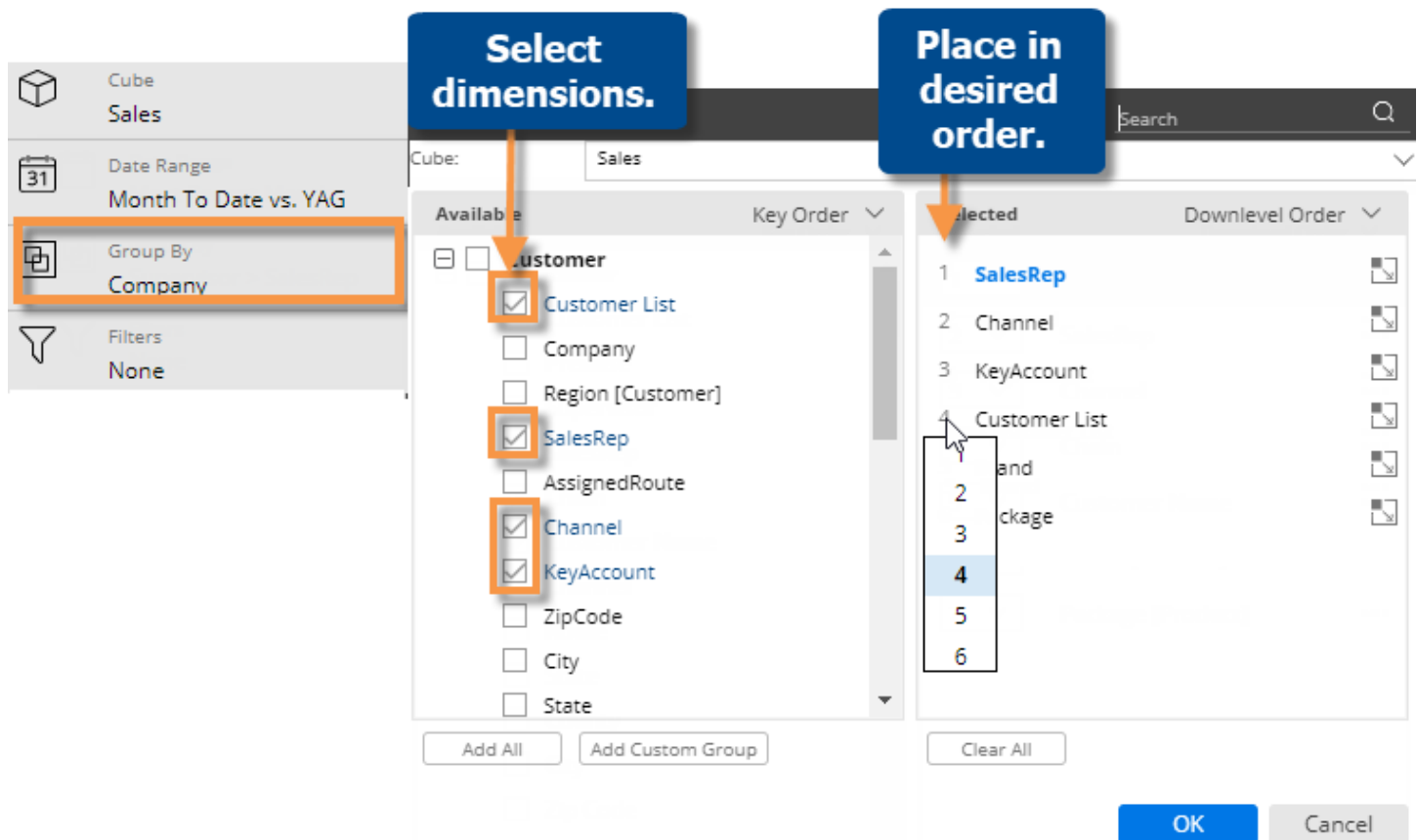
List order    Downlevel Order

- 1 Region [Customer]
- 2 SalesRep
- 3 Form
- 4 Brand

Edit Group Bys

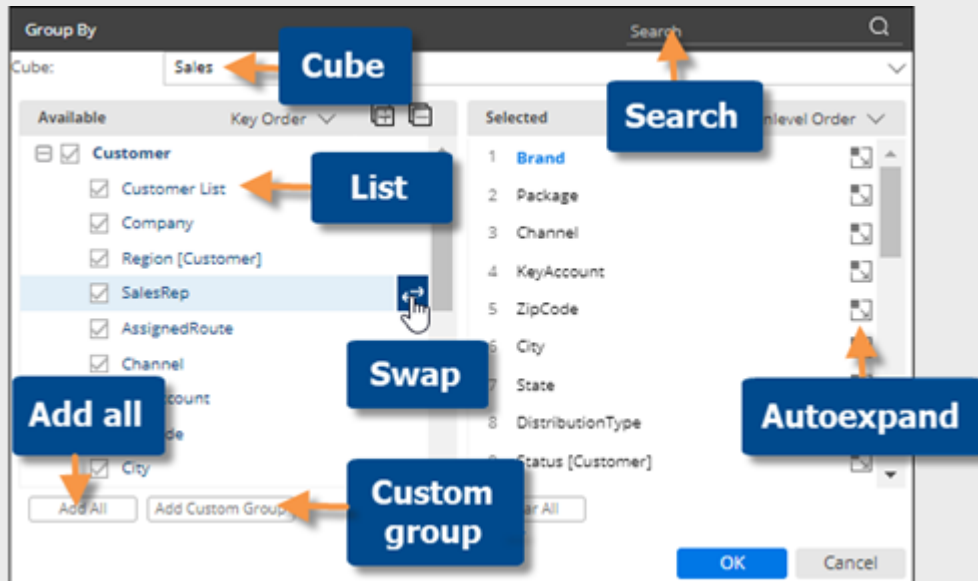
To select the Group By (in widgets that compare members)

1. Click on the widget and then click on **Group By** in the toolkit.
2. In the Group By window, check the box(es) of any dimension(s) you wish to use for grouping the data, including the dimension for the highest-level groupings (1st By) and additional dimensions to use when drilling or expanding members (2nd By, 3rd By, etc.). Also include any dimensions you wish to make available to end users in the breadcrumb menu. To search for a dimension, enter the first few characters in the search box. If the desired By is not listed, you may need to change the data cube at the top of the window.
3. In the right pane, place the selected dimensions in the desired order for grouping data, drilling, and expanding members. You can drag and drop dimensions or click the dimension's number to select from a menu.
4. (Optional) To turn on auto-expand for a dimension, click the  button in the right pane. The icon is blue  when auto-expand is on. This will expand all members of the dimension to the next level. The results will be different depending on the type of view: [standard grid \(i.e., tree\)](#) (see page 56); [flat view grid](#) (see page 58); or [expanded graph formats](#) (see page 60). Auto-expand is available in Comparative, Multi Comparative, and Mix widget types.
5. Click **OK**.



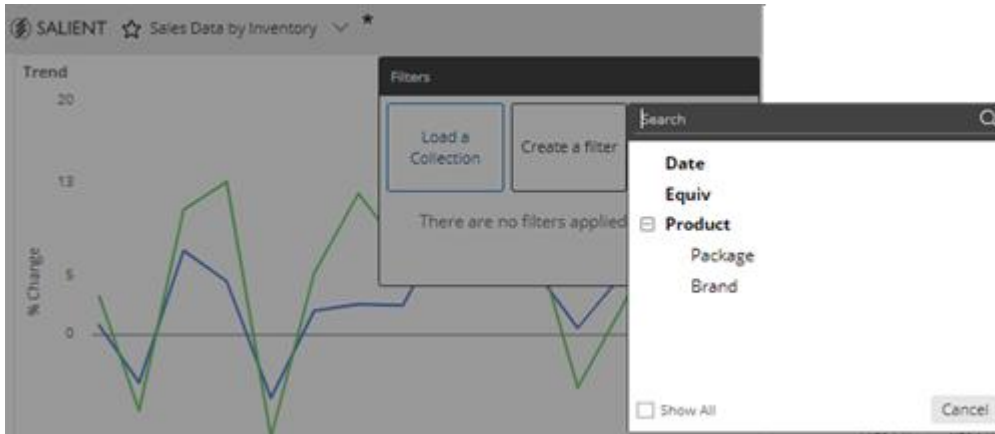
**Tips:**

- You can swap the selected dimension in the right pane with an available dimension in the left pane to quickly add it.
- You can add all dimensions using a button.
- To view key-level details (e.g., customers), group the data by the "List" option.
- To view [record-level details](#) (see page 122), group the data by Record Details, which is located after all keys/dimensions in the left pane.
- You can add a [custom group](#) (see page 119) to create your own custom method for grouping and comparing data.



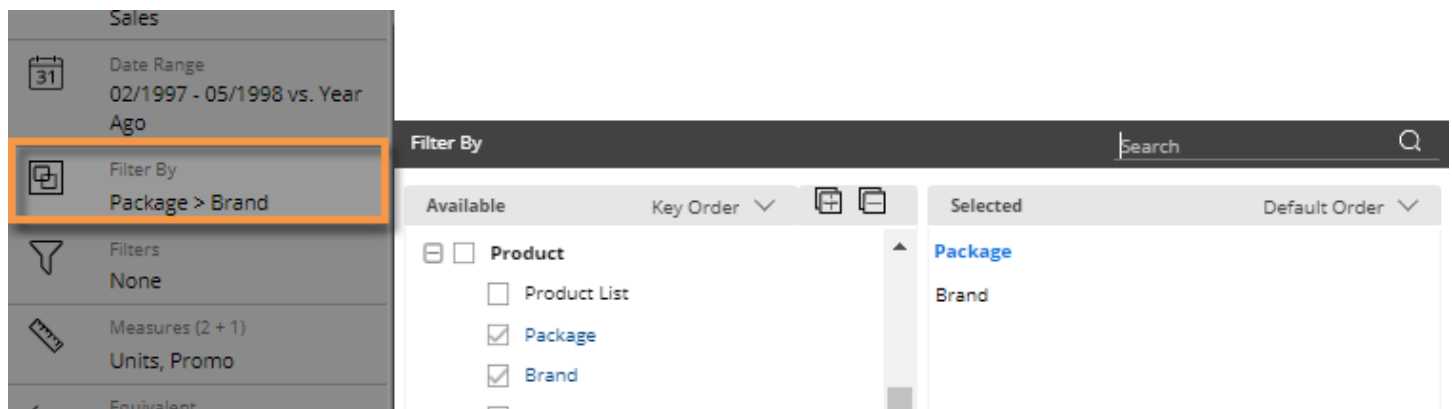
## Filter By

In non-comparative widgets (Trend, Gauge, Waterfall, etc.), data is aggregated rather than grouped by a dimension. Therefore, instead of a Group By, a Filter By controls the default filter choices for view mode. Additional dimensions will be available for filtering via a Show All option. For example:



To set the default filter choices (in non-comparative widgets)

1. Click on the widget and then click on **Filter By** in the toolkit.
2. In the dialog, check the box(es) of the dimensions to set as default filter choices.



## Expand data

### Tree expansion

In standard grids that compare members, you can expand one or more members to see subgroupings underneath them. You can expand the 1st By dimension to see the 2nd By, the 2nd By dimension to see the 3rd By, etc. You can expand members individually or auto-expand all members of a dimension (only available in some analysis types).

Region		Units		
		This ↓	Last	% Change
> <input type="checkbox"/>	SouthEast Area	69,324	64,719	7.12
▼ <input type="checkbox"/>	SouthWest Area	65,067	60,886	6.87
> <input type="checkbox"/>	Stark, Solomon	19,527	18,909	3.27
> <input type="checkbox"/>	Davis, John	15,840	15,009	5.54
▼ <input type="checkbox"/>	Keller, Brad	11,730	9,842	19.18
> <input type="checkbox"/>	S.Newburg Dist-North	4,571		29.88
> <input type="checkbox"/>	Obeck Inc. North	3,032		2.97
▼ <input type="checkbox"/>	Variety Gifts	1,403	1,434	-2.16
	Our Cola	705	817	-13.71
	Our DietCola	128		49.22
	Our Neon	211		-19.91
	Our SF CF Cola	53	42	26.19
	Our CF Cola	52	56	-7.14
	Our Lemon-Lime	43	29	48.28

#### To expand members individually

Click the > arrow beside the member(s) that you want to expand.

You can expand additional levels of data (e.g., 2nd By, 3rd By, etc.) if you wish.



**Tip:** The widget must have multiple Group By dimensions; otherwise, the > arrow is not available.

Region		Units	
		This ↓	Last
> <input type="checkbox"/>	SouthEast Area	69,324	64,719
> <input type="checkbox"/>	SouthWest Area	65,067	60,886
> <input type="checkbox"/>	East Area	58,896	55,051
> <input type="checkbox"/>	NorthWest Area	56,410	50,748
> <input type="checkbox"/>	Near West Area	20,919	21,148



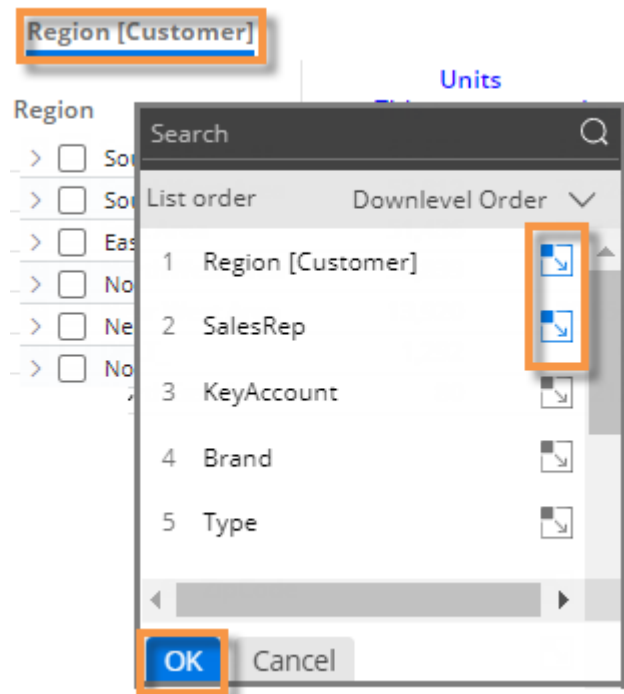
To auto-expand all members of a dimension or key

(only available in Comparative, Multi Comparative, and Mix grids)

1. Click the By in the breadcrumb path (underlined) or open the Group By area in the toolkit.
2. In the pop-up dialog, click the  button beside the dimension(s) and/or key(s) that you want to expand to the next level. The icon is blue  when auto-expand is on.

*If you skip a level, the view will stop expanding members at that level; however, auto-expansion may resume at a lower level after you drill, manually expand members, or change the By, if the new By is auto-expanded.*

3. Click **OK**.



### Tips:

The previous instructions show how to expand members within a standard grid (i.e., tree hierarchy). If you prefer, you can quickly expand dimensions into separate columns using [flat view](#) (see page 58). When deciding whether to use tree expansion or flat view, consider the following:

- An expanded tree in a standard grid includes subtotals for the "parent" row; a flat view does not include subtotals for auto-expanded dimensions.
- The rows in a flat view can be sorted independently of the parent-level data; therefore, you can more easily find the highest and lowest performing combinations.

When you save a dashboard, it will remember the expanded rows and show them whenever a user opens the dashboard. In addition, you can make the top number of rows automatically expand (not applicable to auto-expansion). This setting is available in grid settings.



Depending on the grid page size, you may not be able to see all available 2nd By dimension members at once. In this case, you can increase the grid page size or [change the sort](#) (see page 65) to bring the desired members closer to the beginning of the list.

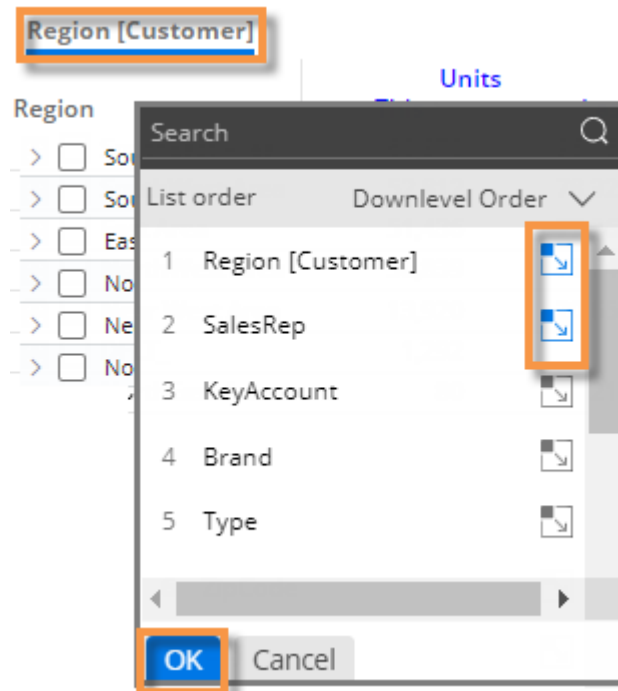
## Auto-expansion in flat view

In a "flat" view, dimensions and keys can be expanded into columns to provide detailed, cross-key information. Each unique combination of members (i.e., attributes) has its own row. You can interact with rows by drilling, sorting, and more, to investigate performance.

1st By			2nd By, 3rd By, etc.					
Region	SalesRep	KeyAccount	This ↓	Last	Diff	% Change	Diff	% Change
> East Area	Gordon, Pat	All Others	8,715	7,527	1,188	15.78	23	-19.43
> East Area	Turner, Michael	Variety North	8,073	5,820	2,253	38.71	97	-46.29
> SouthEast Area	Office-Lasoski	Serv-Rite	7,916	6,259	1,657	26.47	20	-28.23
> NorthWest Area	Allen, Chris	Village North	7,850	3,640	4,210	115.66	87	-13.13
> SouthEast Area	English, John	S.Newburg Dist-North	7,518	5,578	1,940	34.78	80	-24.71
> SouthWest Area	Keller, Brad	S.Newburg Dist-North	5,937	4,571	1,366	29.88	39	-21.70

To expand in a flat view

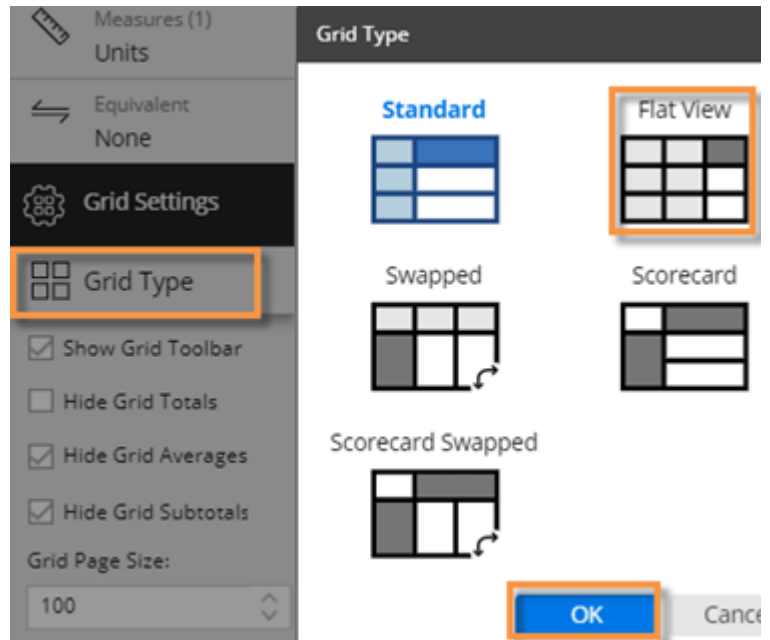
1. Start with one of the following widget types in grid format: Comparative, Multi Comparative, or Mix.
2. Select dimensions and/or keys.
  - Click the By in the breadcrumb path (underlined) or open the Group By area in the toolkit.
  - Place dimensions and/or keys in the desired order. This will control the order of columns in flat view (e.g., 1st By will be first column).
  - Click the  button beside the level(s) that you want to auto-expand (i.e., show next dimension as separate column). The icon is blue  when auto-expand is on.
  - Click **OK**.



To expand in a flat view

3. Turn on "flat view" [grid type](#) (see page 88) if it is not already selected. This setting is only available in explore and edit modes. In view mode, users can access whatever grid type has been built into the dashboard.

- In the toolkit, go to **Grid Settings**.
- Click on **Grid Type**.
- Choose **Flat View**.
- Click **OK**.



#### Tips:

*If you skip a level for auto-expansion, the view will stop expanding members at that level; however, auto-expansion may resume at a lower level after you drill, manually expand members, or change the By, if the new By is auto-expanded.*


You cannot auto-expand down to record details; instead, drill down, change the Group By, or expand items individually.

## Auto-expansion in graphs

In the following graphs, dimensions and keys can be expanded to see granular results.

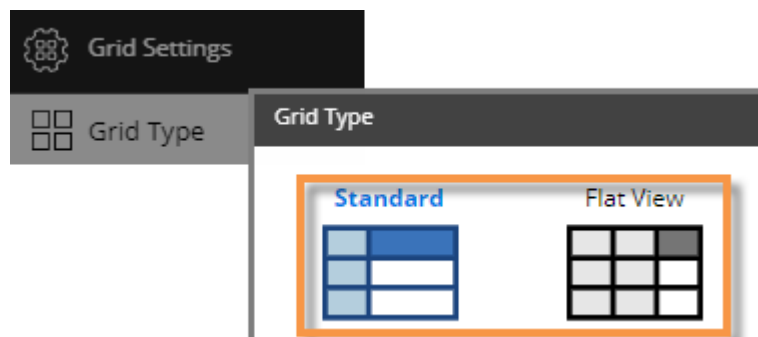
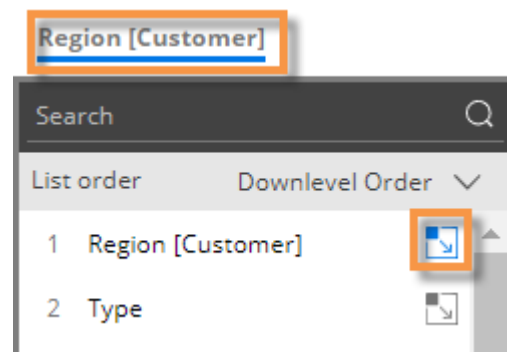
- Comparative and Multi Comparative graphs (see below) - visualize performance of subgroupings of dimensions/keys.
- [Mix graphs](#) (see page 62) - show pie slices for subgroupings—in either a "sunburst" format or as independent pie slices.
- [Trellis](#) (see page 109) - show small multiple graphs for an expanded dimension or key.

### Expand data in Comparative/Multi Comparative graphs

1. Go to a Comparative or Multi Comparative graph. In general, horizontal bars can display more data than vertical bars when data is expanded.
2. In the Group By menu or toolkit area, turn on auto-expand for the top level (1st By) and additional levels if desired. The icon is blue  when auto-expand is on.

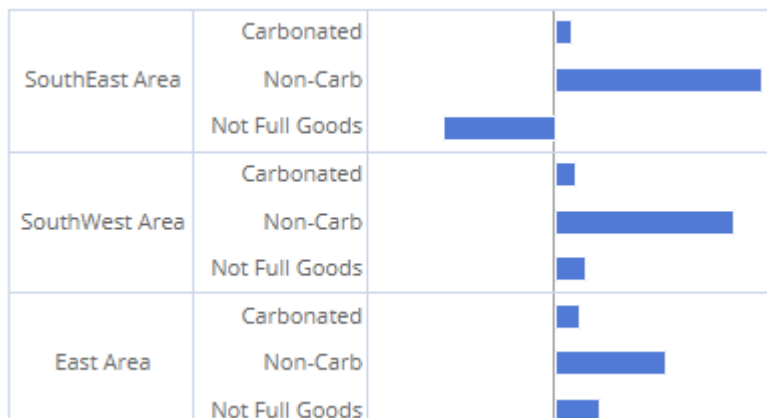
*If you skip a level, the view will stop expanding members at that level; however, auto-expansion may resume at a lower level after you drill, manually expand members, or change the By, if the new By is auto-expanded.*

3. Under Grid Settings in the toolkit, choose a standard or flat grid type (see below). These options are only available in explore and edit modes.



## Comparative/multi comparative graph with "standard" grid type

This graph shows subgroupings within the parent-level.



**Tips:** To limit the number of subgroupings displayed for each expanded member (e.g., top 5 brands for each region), you can change the **Truncate Expanded Rows** setting in Graph Settings. This can help fit the most important information on the screen.

You can also set the page size in this area. Note that the number of members per page includes members in all levels (e.g. 4 regions plus 5 brands per region is  $4 + 4 \times 5 = 24$ ).

**Graph Settings**

☐ Hide X Axis  
☐ Hide Y Axis  

**Truncate Expanded Rows:**

**Graph Page Size:**


SouthEast Area	Our Cola	0.8
	Our Neon	0.2
	Our DietCola	0.1
	Our SF CF Cola	0.1
	Our CF Cola	0.1
SouthWest Area	Our Cola	0.7
	Our DietCola	0.2
	Our Neon	0.1
	Our CF Cola	0.1
	Our SF CF Cola	0.1

## Comparative/multi comparative graph with "flat view" grid type

This graph has separate bars at the same level for each unique combination. Bars can be sorted independently of the parent level.

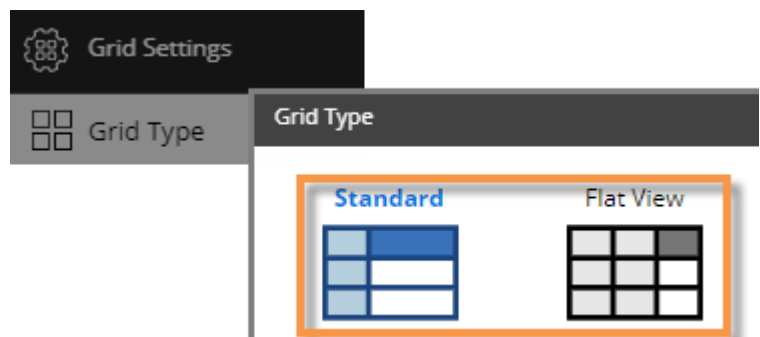
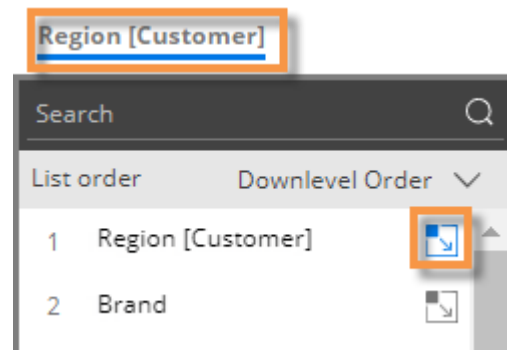


## Expand data in Mix graphs

1. Go to a Mix graph.
2. In the Group By menu or toolkit area, turn on auto-expand for the top level dimension (1st By) and additional levels if desired. The icon is blue  when auto-expand is on.

*If you skip a level, the view will stop expanding members at that level; however, auto-expansion may resume at a lower level after you drill, manually expand members, or change the By, if the new By is auto-expanded.*

3. Under Grid Settings in the toolkit, choose a standard or flat grid type (see below). These options are only available in explore and edit modes.



## Mix graph with "standard" grid type (Sunburst)

This graph shows the hierarchy and magnitude of data in a "sunburst" chart. The center ring represents the top-level data (1st By); the data becomes more granular as you move outward. For example, the next ring represents the 2nd By. The slices are sized based on data values and aligned with their parent level to show how much each piece contributed (e.g., brands within each region) .



**Tip:** For a sunburst, we recommend setting the **Graph Page Size** to a large number; otherwise, the pie may only show a subset of the data. To set the graph page size, go to graph settings in the toolkit or use the slider at the bottom of the graph (i.e., drag the slider all the way to the right).

In addition, you can control the maximum number of subgroups (i.e., outer pie slices) for each expanded dimension member using the **Truncate Expanded Rows** setting. If this setting is lower than the actual number of subgroups, the sunburst will show blank space.

**Graph Settings**

**Visual Options**

☒ Show Graph Toolbar  
☐ Enable Data Labels  
☐ Enable Name Labels  
☐ Enable Shared Tooltips  
☐ Hide Legend  
☒ Enable Column Grouping

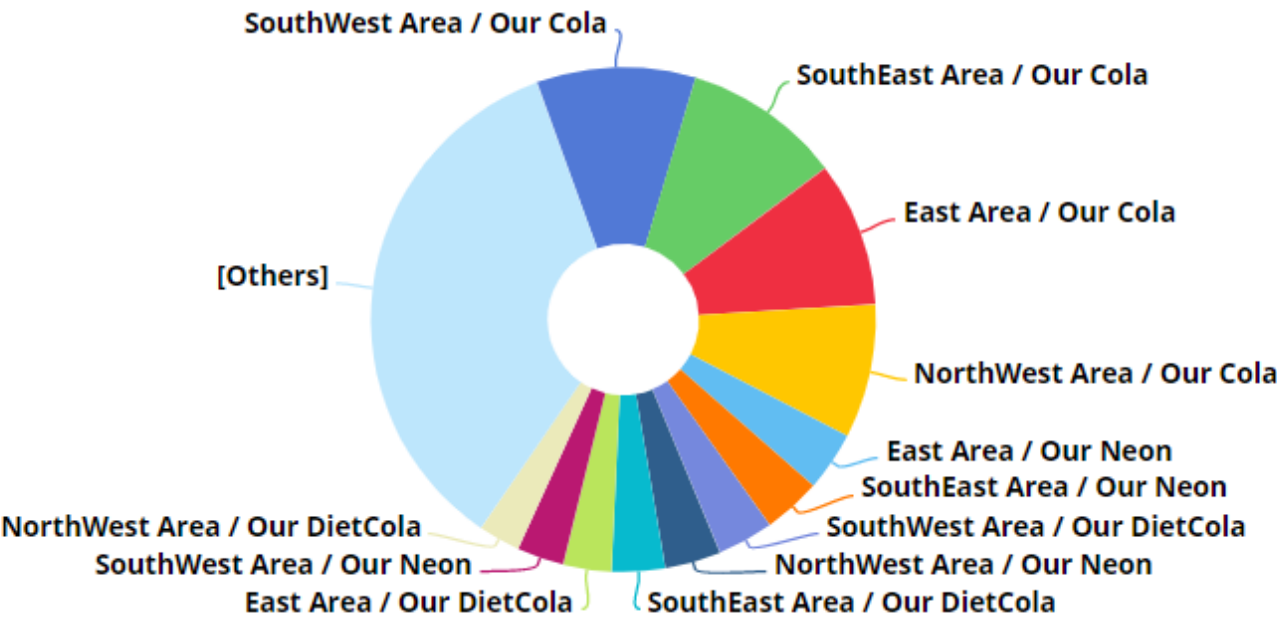
**Truncate Expanded Rows:**

**Graph Page Size:**

Mix

Mix graph with "flat view" grid type

This graph has separate pie slices for each combination of members. The pie slices are at the same level to show each unique combination's contribution to the total.



Check members

In standard grids that compare members, you can selectively checkmark any dimension members or key members to view their subtotals, drill down on them, show the checked members in graphs, and more.

To checkmark members individually

Click the ☐ box(es) beside the member(s).

>	<input type="checkbox"/>	SouthEast Area	73,794
>	<input checked="" type="checkbox"/>	SouthWest Area	60,364
>	<input type="checkbox"/>	NorthWest Area	57,685
>	<input type="checkbox"/>	East Area	57,196

To checkmark a range (i.e., block) of members

1. Click on the top row of the desired range to select it. If you do not select a row, the grid will use the first row by default.
2. Press **Shift** as you click on the bottom row of the desired range.


>	<input checked="" type="checkbox"/>	SouthWest Area	989,084	3,857,807
>	<input checked="" type="checkbox"/>	East Area	916,833	3,263,901
>	<input checked="" type="checkbox"/>	NorthWest Area	911,935	3,579,112
>	<input checked="" type="checkbox"/>	Near West Area		207
>	<input type="checkbox"/>	NorthEast Area		579

Shift



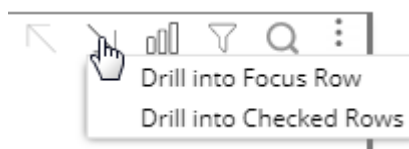
### After checking members:

You can view subtotals by clicking the subtotal button at the bottom of the widget, or clearing the Hide Grid Subtotals option in Grid Settings.



Total (7)	273,537
Checked (2)	134,158
Unchecked (5)	139,379
Total (7)	273,537

You can drill down on the checked members by clicking the Downlevel button and selecting Drill into Checked.



## Sort

You can sort data to rank results. In most widgets, you can sort by values, difference, percent change, names, host codes, etc.

To choose the primary sort

*Option 1:*

1. Place your cursor over the heading or subheading of the column by which you want to sort.
2. Click the menu icon ☰.
3. In the pop-up menu, select a sort option.

Units

Last	Diff	% Change
116,284	-42,490	-36.13
89,170	-28,806	-32.31
83,206	-25,521	-30.65

*Option 2:*


Click the heading to sort by that column; click again to reverse the sort order.

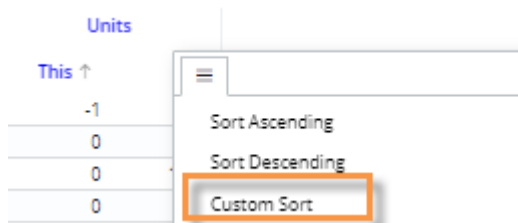
% Change
-63.13
-37.10
-36.54




### Additional sort levels (custom sort)

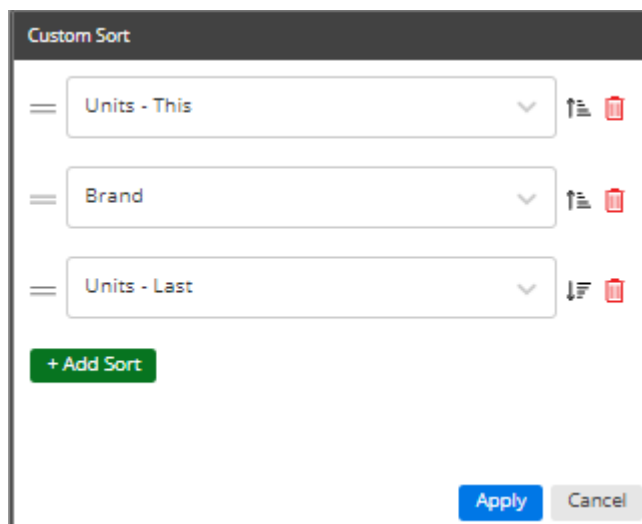
To control the order of members with matching values (e.g., zeros or matching names) for the primary sort, you can set additional sort levels.

To set more sort levels (custom sort)

1. Place your cursor over a column heading.
2. Click the menu icon .
3. In the pop-up menu, select **Custom Sort**.



4. In the Custom Sort dialog, click **+ Add Sort** to add a sort level(s).
5. For each level, select the column by which to sort and choose ascending  or descending . To rearrange levels, click and drag the  icon.



Any rows that have the same values for the primary sort will be ranked according to the secondary sort; any rows with the same primary and secondary sort values will be ranked according to the 3rd sort level; and so on. For example, list products that didn't sell this month (zeros), grouped by brand and then ranked by sales for last month.


2nd		1st	3rd
Brand	Package	This ↑	Last
> Our Cola	8PkCnsPa	0	1,230
> Our Cola	8Pk Cans	0	923
> Our Lemon-Lime	16Oz NR	0	319
> Our Neon	8PkCnsPa	0	443
> Our Neon	8Pk Cans	0	263
> Our New Diet	16PNR8	0	668
> Our New Diet	8PkCnsPa	0	190
> Our New Diet	16PNR8Pa	0	167
> Our New Diet	24Oz NR	0	163

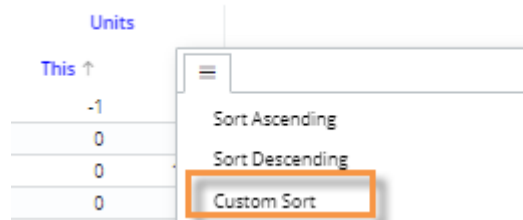
## Crosstab sorting

By default, Crosstab widgets use the same sort method for rows and columns; however, you can choose different sort methods if you wish. For example, you could sort rows (accounts) by name and columns (packages) by sales units. (Note that the sort is based on total values.)

Name	12Pk Cn		2Ltr-8		6Pk Cn		Units (This)
	Units		Units		Units		
	This	Last	This	Last	This	Last	
> <input type="checkbox"/> A Plus Marts	89	144	593	477	69	70	
> <input type="checkbox"/> Acorn Mkts	6	105	0	59	0	0	
> <input type="checkbox"/> All Others	7,845	6,800	8,188	7,493	24,375	18,228	
> <input type="checkbox"/> American Food & Vend	0	0	0	0	845	780	
> <input type="checkbox"/> Arrow Mart	220	115	160	295	20	7	
> <input type="checkbox"/> B. English-North	122	129	192	78	2	78	
> <input type="checkbox"/> B. English-South	0	134	0	0	0	0	



### To sort Crosstab widgets

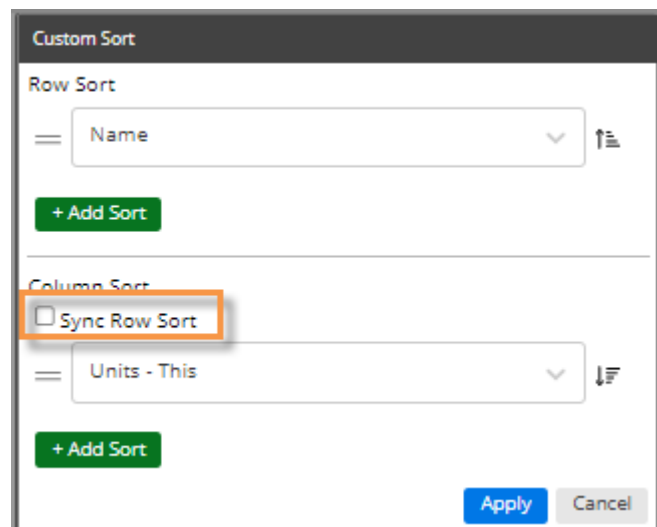
1. Place your cursor over a column heading in a Crosstab grid.
2. Click the menu icon .
3. In the pop-up menu, select Custom Sort.



4. In the Custom Sort dialog, leave **Sync Row Sort** checked to use the same sort method for rows and columns. Then choose sort options.

OR

Clear the **Sync Row Sort** box to use different sort methods. Then, choose how to sort rows and columns. For each sort, you can select the measure, add sort levels (for matching values), and toggle between ascending  and descending .

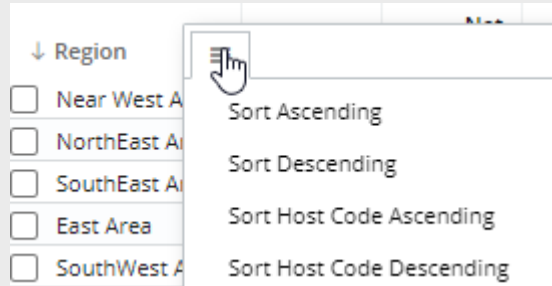


**Tips:**

To sort a graph, switch to the grid format and then perform these same tasks; then switch back to the graph.

When sorting by dimension member, additional options are available in the menu. You can use either sorting method even if host codes are not currently displayed.

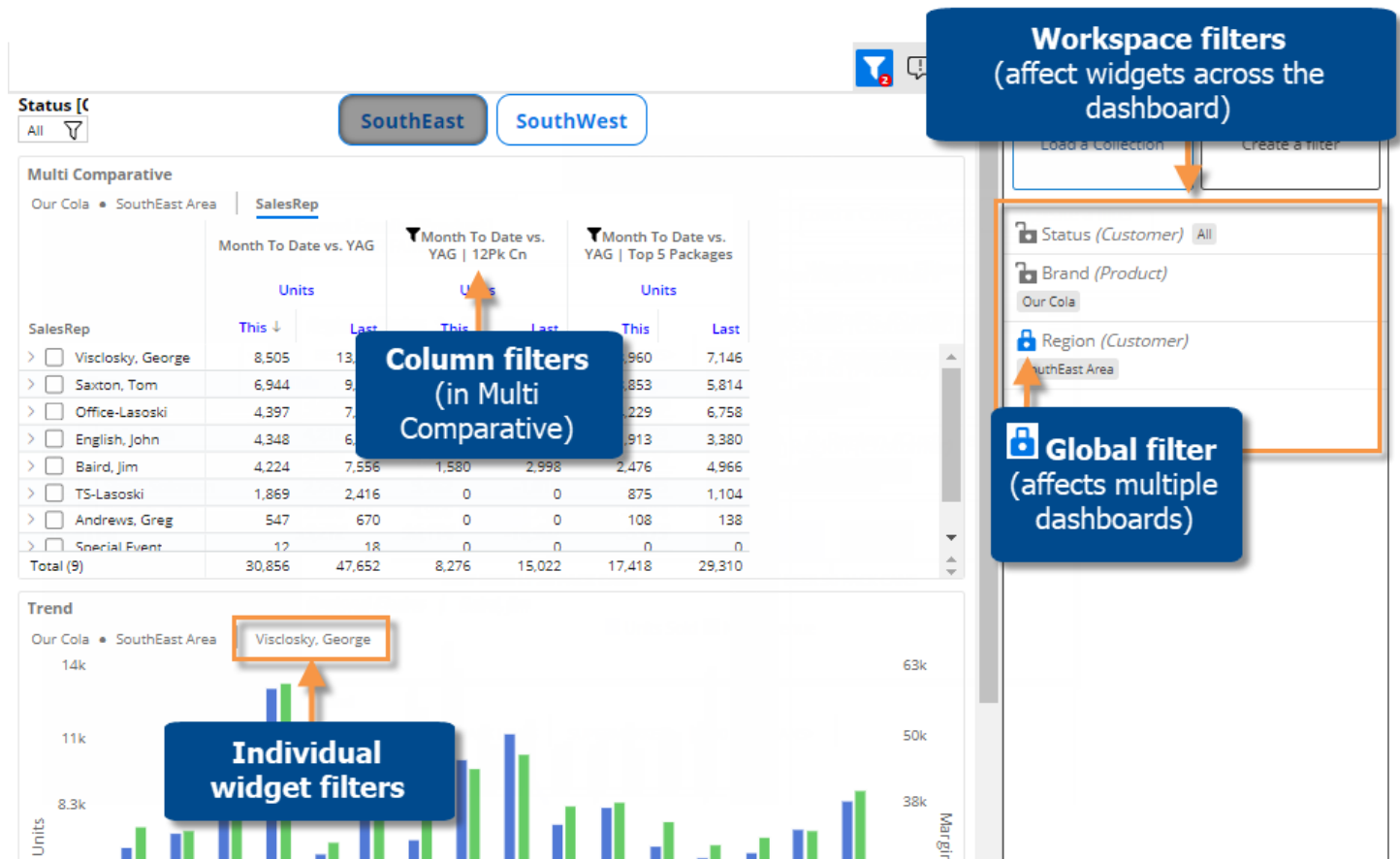
- **Sort Ascending/Descending** uses dimension member names.
- **Sort Host Code Ascending/Descending** uses dimension member codes.



# Filter

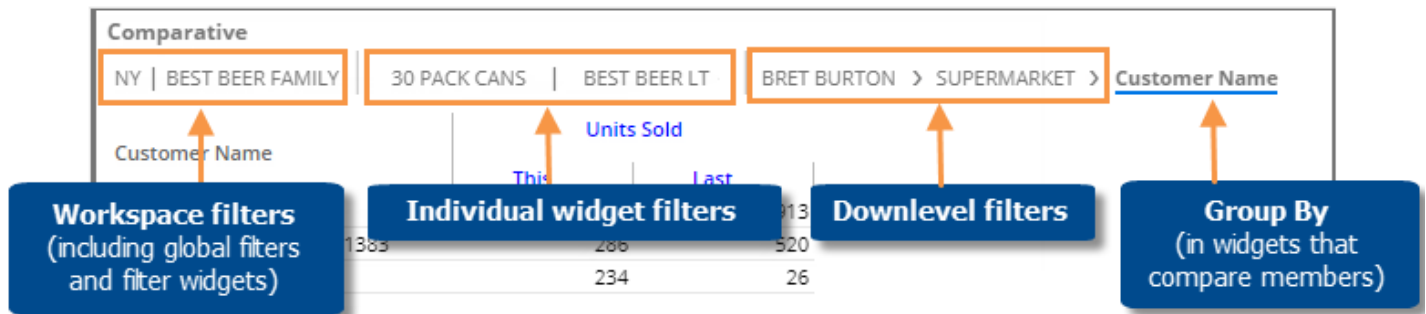
Filters allow you to narrow down on the exact information needed. You can filter data globally as you use different dashboards, filter across a single dashboard (i.e., workspace filters), filter an individual widget, and apply a filter to a column (in Multi Comparative widgets). Filtering methods include simple menus to select one or more members, saved sets of members (i.e. collections), and dynamic filtering based on tests. When building a dashboard, you should determine what filtering options should be available to users. You can:

- Apply filters prior to saving the dashboard to provide specific, action-oriented information that is immediately available when the user opens the dashboard.
- Provide a high-level dashboard and allow users to narrow on whatever information interests them via menus, [downlevel functions](#) (see page 84), filter [buttons](#) (see page 25), or other methods.



## Breadcrumb path

The breadcrumb path at the top of the widget shows the filters currently applied. Just click on a filter in the breadcrumb path to edit or remove it.



**Tip:** The breadcrumb path does not show filters based on collections, filters based on user account rights (e.g., password collections), or column filters. However, you can place your cursor over the title bar to see a tooltip that shows all filters.

Collections are saved sets of members. Collections can be applied to a single widget or the workspace (i.e., all widgets) to filter the data. If the collection is applied to a single widget, it is considered to be a "widget filter"; if the collection is applied to the workspace (i.e., workspace filter), it filters across the dashboard.

Dynamic filters are based on test criteria (e.g., volume greater than zero) rather than a static set of members. When a dynamic filter is applied to a widget, the Salient Dashboards application runs a test and filters out data for members that do not meet criteria. This type of collection is only available for key members (e.g., customers). Dynamic filters may be saved as dynamic collections so they can be reused and shared.



## Workspace filters

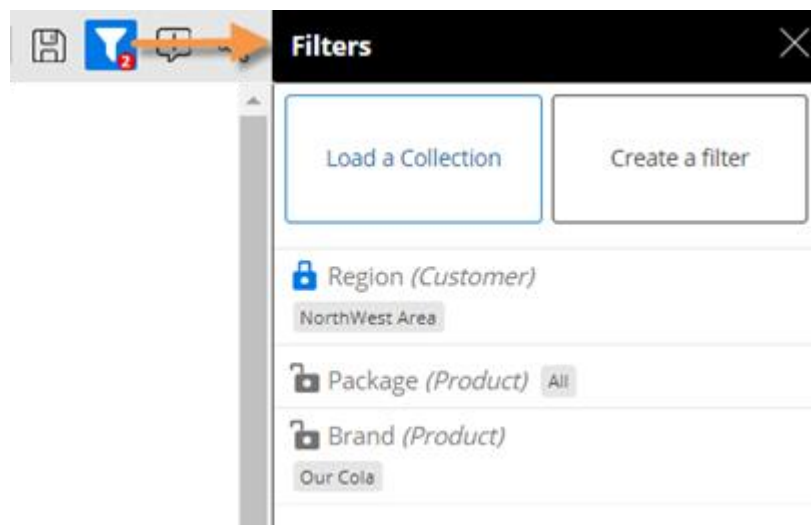
A workspace filter affects widgets across the dashboard. A filter panel provides streamlined access to these filters.

To use workspace filters

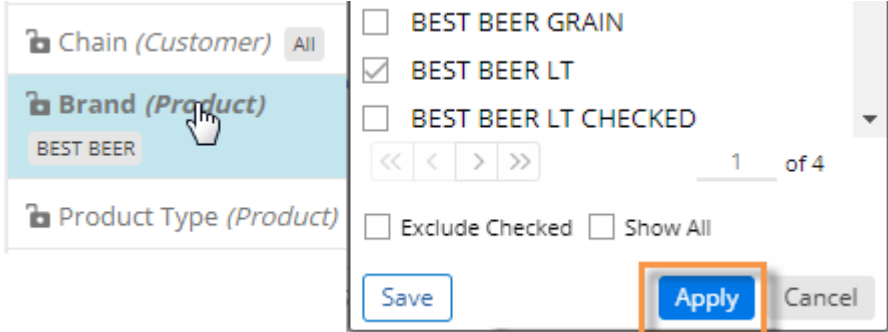




Click  at the top of the screen to open the filter panel (*keyboard shortcut: f*). This button is blue when the filter panel is open.

### Tips:

- The red number **1** indicates how many workspace filters are currently on (does not include filters set to "All").
- A contrasting symbol  or  means that at least one [global filter](#) (see page 73) is turned on.




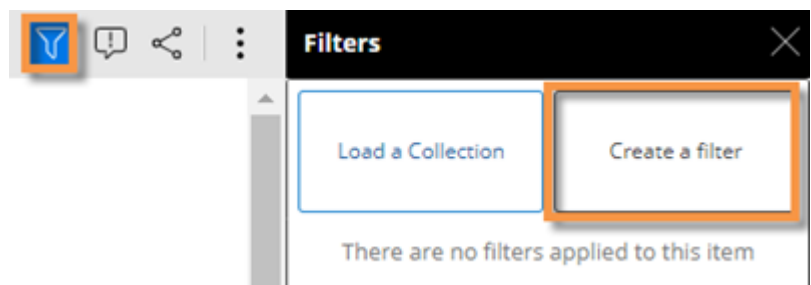
In the filter panel, choose from existing workspace filters or [create a new workspace filter](#) (see page 71).

Option	Instructions
Make a filter selection (e.g., select a different member)	<p>Click on the workspace filter and make your selections in the pop-up window. Click <b>Apply</b>.</p>  <p><b>Tips:</b></p> <ul style="list-style-type: none"> <li>• By default, the window only shows members with data in the current context. You can click <b>Show All</b> in the dialog to list all members.</li> <li>• You can <a href="#">import a file</a> (see page 82) to quickly filter on a list of members. Click  at the top of the pop-up window to access this option.</li> </ul>
Reset a filter	<p>Place the cursor over the filter and click the <b>X</b> button. The filter will still be present but will show data for all members.</p> 
Remove a filter	<p>Reset the filter as explained above. Then, place the cursor over the filter and click the  button.</p> 

You may want to build workspace filters into the dashboard to make filter selection easier for users.

### To create a workspace filter

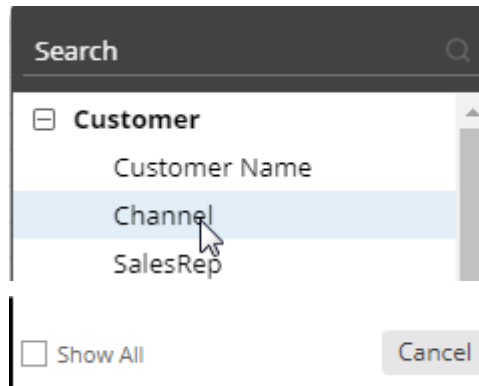
1. Click the  at the top of the dashboard screen to open the filter panel.
2. Click **Create a filter**. This option allows you to select members from a menu. If you prefer, you can filter on a [collection of members](#) (see page 76).



## To create a workspace filter


3. Select the dimension for which to create a filter.

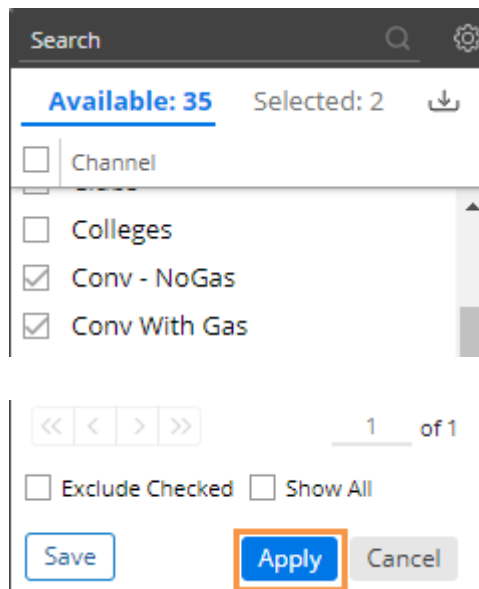
*If you do not see the dimension listed (in view mode):* Check the **Show All** box to access dimensions besides those that were built into the dashboard.



4. Checkmark the member(s) to filter on, or leave checkboxes cleared if you wish to create the menu without filtering members.

### Tips:

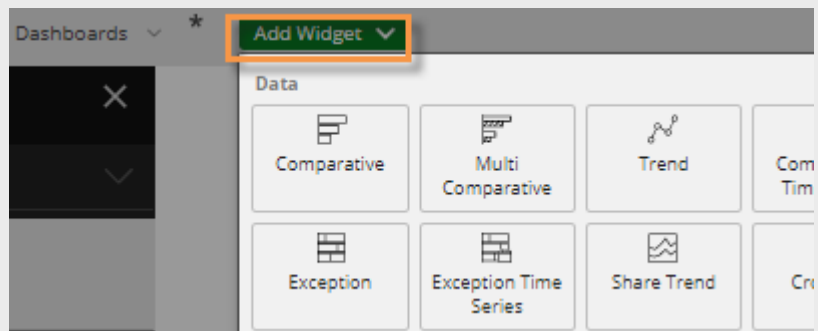
- The **Exclude Checked** option lets you show data for all members except the selected members.
- You can [import a file](#) (see page 82) to quickly select members. Click  at the top of the selection window to access this option.
- You can optionally click **Save** to create a collection of the checked members so that they can be reused later.



5. Click **Apply**.

### Tips:

If you want to include a separate menu in the dashboard, you can add a filter widget rather than using the previous method to add the workspace filter. You could also add a [button for filtering](#) (see page 25).






**Tips:**

The filter panel is on by default, but it may be hidden in [dashboard settings](#) (see page 107) if you wish to disable this feature.



By default, workspace filters affect all widgets in the dashboard; however, you can turn off these types of filters for a specific widget (for example, to show summary-level data) by clearing **Use Workspace Filters** in general settings.

If the data cube of a widget does not include the key/dimension of the filter, then the filter is not applicable and, therefore, does not affect the widget. For example, if the widget shows weather data that is only associated with a customer key, then a product filter, such as brand, will not affect the widget.

## Global filters



A global filter is a workspace filter that is "locked"  so that it stays on when you open other dashboards. You can access these filters using the filter panel just like other workspace filters.

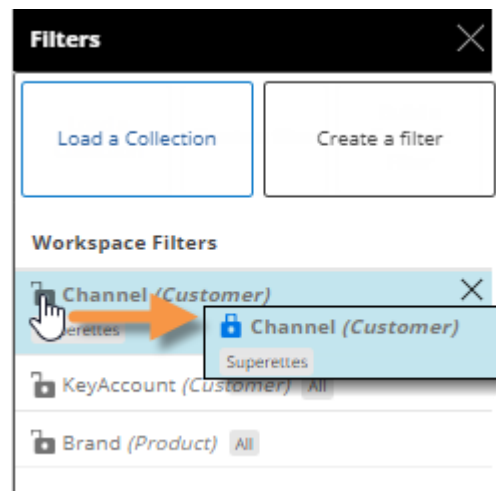
To turn on a global filter

1. Click the  button at the top of the dashboard screen to open the filter panel.
2. In the filter list, locate or create the filter you want to turn on globally.
3. Click the lock/unlock button to "lock" the filter. The locked symbol is blue .

When you open another dashboard, it will automatically use global filters. Note that only applicable global filters will be applied (i.e., attribute matches a "Group By" in the dashboard).

**Tip:** The filter button at the top of the screen shows a contrasting filter symbol if global filters are on:

 if panel is closed;  if panel is open

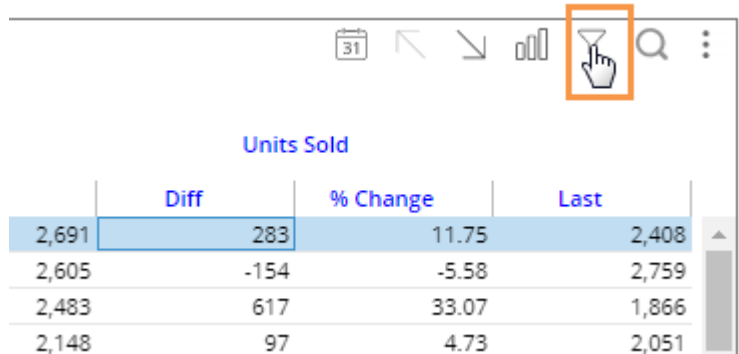


# Individual widget filters

Individual widget filters let you filter data in a specific widget without affecting the entire dashboard.

To create a widget filter

1. Click the filter button at the top of the widget (visible on mouseover if enabled).



The screenshot shows a dashboard widget titled "Units Sold". At the top right of the widget, there is a toolbar with several icons: a calendar, a left arrow, a right arrow, a bar chart, a funnel icon (the filter button, highlighted with an orange box), a magnifying glass, and a three-dot menu. Below the toolbar is a table with four columns: "Diff", "% Change", and "Last". The first column is unlabeled but contains numerical values. The table data is as follows:

	Diff	% Change	Last
2,691	283	11.75	2,408
2,605	-154	-5.58	2,759
2,483	617	33.07	1,866
2,148	97	4.73	2,051

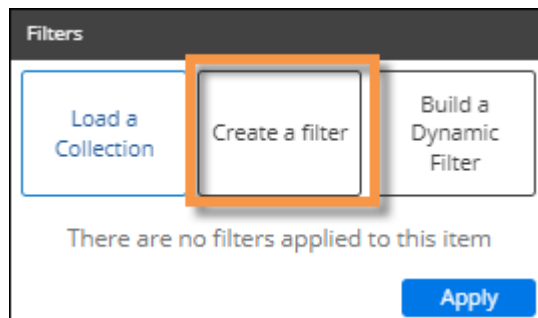
2. In the pop-up dialog, click **Create a Filter**.

Other options may be available:

- **Checked** - If the widget has checked members, you can filter on them.

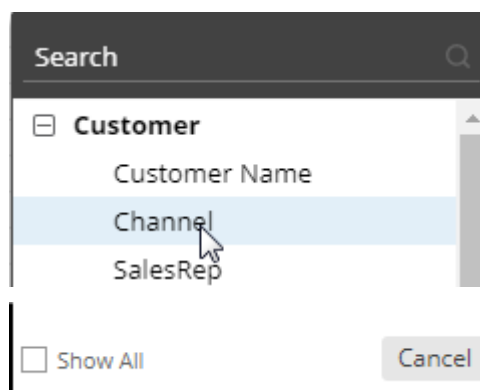
- **Load a Collection** - You can filter on a saved [collection of members](#) (see page 76).

- **Build a Dynamic Filter** - You can [filter based on test criteria](#) (see page 77).



3. Select the dimension (i.e., attribute) for which to create a filter.


*If you do not see the dimension listed (in view mode):* Check the **Show All** box to access dimensions besides those that were built into the widget.

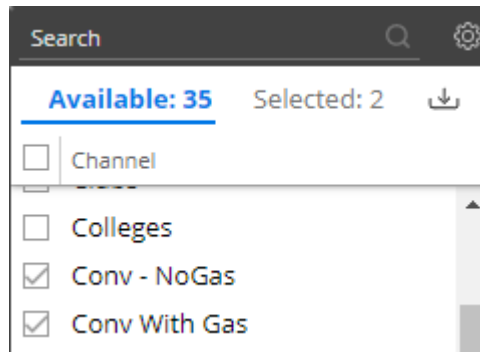


To create a widget filter

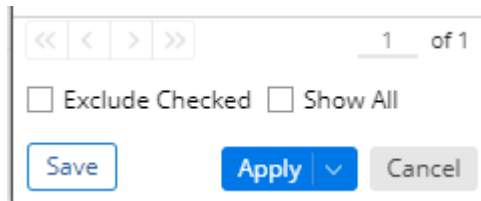
4. Checkmark the desired member(s).

**Tips:**

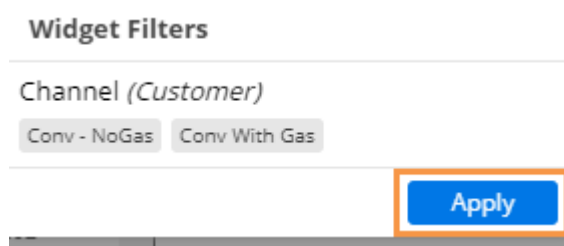
- By default, the filter choices only include members with data in the current context. If you wish, you can check **Show All** to list all members.
- The **Exclude Checked** option lets you show data for all members except the selected members.
- You can [import a file](#) (see page 82) to quickly select members. Click  at the top of the selection window to access this option.
- You can optionally click **Save** to create a collection of the checked members so that they can be reused later.



5. Click **Apply** to apply the filter to the selected widget only.



6. Click **Apply** again in the filters area.





**Tip:** To allow viewers to create widget filters, make sure widget's filter button is enabled (on by default) in general settings.

## Filter data by a collection

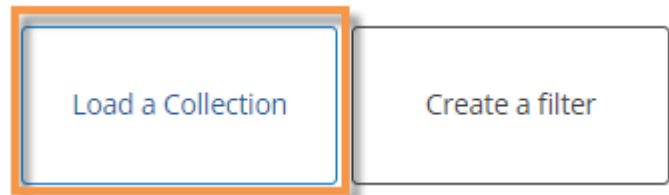
Collections can be applied to a single widget or the workspace (i.e., entire dashboard) to filter the data by a saved set of members.

To apply a collection as a filter

1. Do one of the following to open the filters area:

- *To apply a collection to a single widget:* Click the filter  button at the top of the widget (visible on mouseover).
- *To apply a collection to the entire dashboard:* Click the filters  button at the top of the screen to open the Filters panel. In edit mode, you should then select the workspace by clicking the blank area of the dashboard or pressing **w** on the keyboard. In view mode, the workspace is automatically selected. (Collections cannot be applied to the workspace in explore mode.)
- *To apply a collection to an individual column (in Multi Comparative only):* Click the column header, and select Filter Date Range.

2. Click **Load a Collection**.





3. In the Collections dialog, locate the collection and place a checkmark beside it. You may need to expand a key, dimension, and category to find the collection. A search option is also available.


4. Click **Apply**.

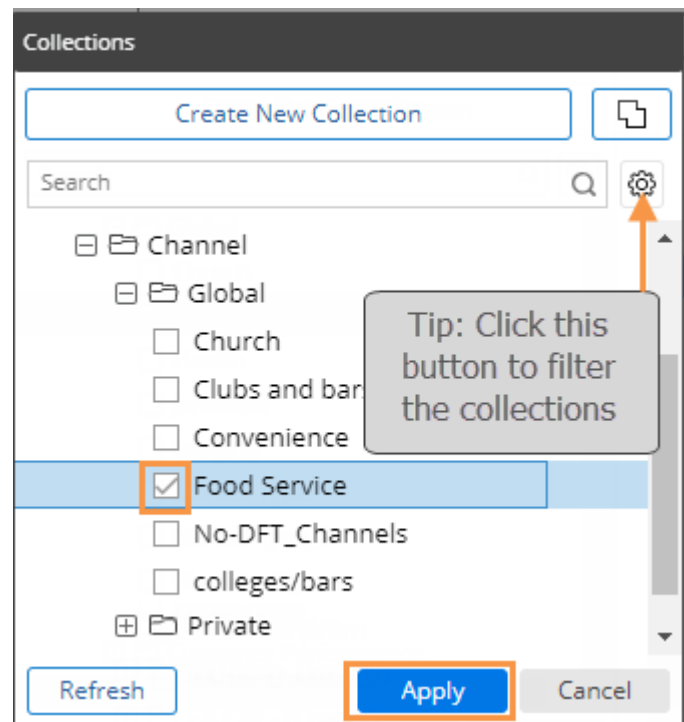
### Tips:


- If you select more than one collection within the same key or dimension, results will be limited to members that are common to all selected collections.

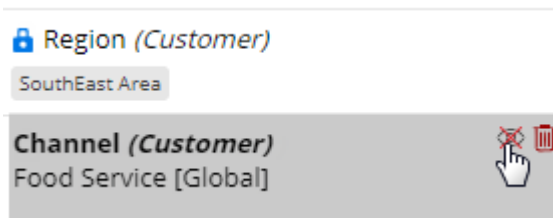
- The  symbol represents a [dynamic collection](#) (see page 77). This type of collection updates dynamically based on test criteria.

- The  symbol represents a dynamic collection that has been created in SIM. You can apply this type of collection but not edit it in Salient Dashboards.

- The  button lets you merge multiple collections into a single new collection.

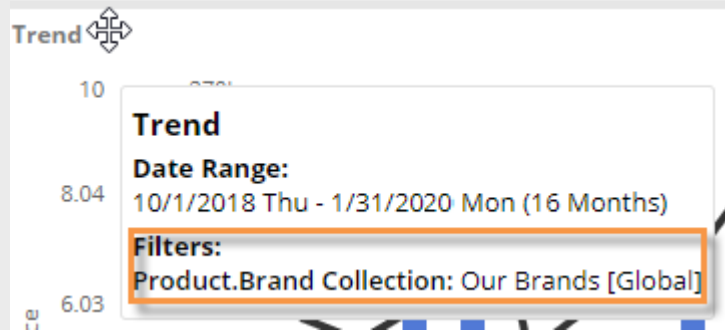


- By default, collections that were applied in edit mode will be locked in view mode. This means that viewers will not see the collection listed in the filters area and will not be able to turn the collection off. To show a classic collection in the filters area of view mode and, therefore, allow users to turn the collection off, click the  icon in the filter panel.



### Tips:

The breadcrumb path does not show when collection-based filters are on, but the widget tooltip (shown when placing the cursor over the title bar) shows collection filters even if they are hidden in view mode.



## Dynamic filters

Dynamic filters are based on test criteria (e.g., volume greater than zero). When a dynamic filter is on, the widget only includes data for the members that meet the test criteria. The filter updates automatically based on the data context rather than storing a static list of members. Dynamic filters may be saved as dynamic collections so they can be reused and shared.

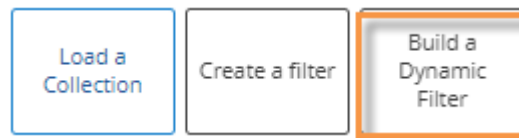
To apply a dynamic filter

- Go to the filters area for the widget or column:

*To apply a dynamic filter to a widget* - Select the widget and click the filter  button in its upper-right corner (visible on mouseover).

*To apply a dynamic filter to an individual column (in Multi Comparative only)* - Click the column heading and select **Filter Date Range**.

- Click **Build a Dynamic Filter**.



- In the **Dynamic Filter** area, choose the key to test from the Accumulate By menu (e.g., filter out customers that do not pass the test).
- Set up one or more rules:
  - Select the measure to test.

- Select the date range (This or Last) or the variance (Diff or % Change) you wish to test. By default, the date ranges correspond to the widget date ranges. For example, if the widget compares the month-to-date with the prior month, then a rule for "This" would look at the month-to-date and a rule for "Last" would look at the prior month. If the widget does not have a Last date range, then a rule for "Last" will default to one year earlier (YAG) than the "This" date range. If you prefer, you can test a different date range (i.e., something other than the widget date range) by changing the Advanced settings as explained below.
- Select an operator (e.g., greater than).
- Enter a value to compare against.
- To use multiple rules, click Add Rule, repeat the above steps, and choose **AND** or **OR** to control which rules must be met.

**Tip:** If the desired key or measure is not available, you may need to change the cube under Advanced Options.

The screenshot shows the 'Dynamic Filter' configuration window. At the top, there's a section 'Accumulate By' with a dropdown menu currently set to 'Customer'. Below this, there are two buttons: 'AND' (highlighted in blue) and 'OR'. To the right of these buttons is a green 'Add rule' button. Underneath, there are four input fields: 'Measure' (set to 'Units'), 'Data Type' (set to 'This'), 'Operator' (set to 'greater'), and 'Value' (set to '0'). At the bottom, there is a section titled 'Advanced Options' with a downward-pointing chevron icon.

5. Optionally, expand the Advanced Options area and choose settings to refine the test.

Advanced option	Explanation
Cubes	To test based on data from a different cube, select from the Cubes menu. This controls which keys and measures are available for selection.
Equivalent	To test data after it has been converted to equivalent units (if applicable), select from the Equivalent menu. An equivalent table selected here overrides an equivalent table applied to the widget.
Passed In	<p>Choose the part of the date range to consider for the test. These options affect the outcome when the date range includes multiple units of time (e.g., 12 weeks).</p> <ul style="list-style-type: none"> <li>• All Periods (In Total) - looks at the entire date range (e.g., total of all 12 weeks).</li> <li>• First and Last Period - looks at the first and last units of time (e.g., 1st week and 12th week); both units of time are needed to pass the test.</li> <li>• First Time Period - only considers first unit of time (e.g., 1st week).</li> <li>• Last Time Period - only considers last unit of time (e.g., 12th week).</li> <li>• Any Period (Individually) - considers all units of time individually with only one unit of time needed to pass the test (any week).</li> <li>• All Periods (Individually) - considers all units of time individually with all units of time needed to pass the test (e.g., every week).</li> </ul>

Advanced option	Explanation
Date Range	<p>Choose the date range to test.</p> <ul style="list-style-type: none"> <li>Dynamic Date Range (default) - When this option is on, the test will use the date range of the widget. For example, if the widget shows the month-to-date, the test will look at that month to determine which members pass. If the month updates over time (e.g., November to December) <u>or</u> the widget timeframe changes (e.g., one month to 6 months), then the test will automatically update to look at the new dates.</li> <li>Specific Date Range - You can choose this option to test data for a specific date range, which can be different than the widget's date range. For example, you might want to find new products based on three months of data but look at data for a longer timeframe in the widget. After choosing this option, the date setup dialog will appear. You can then select the date range(s) for the test. Any "This" rules in the test will look at the "This" date range you select here; any "Last" rules will look at the "Last" date range. The date range(s) can be fixed or update over time based on the current date (e.g. month-to-date). However, the resolution and number of dates used in the test will not change.</li> </ul>
Filters	<p>To filter the data prior to testing it, click the arrow beside the Filters menu. This option will filter the data used in the test but will not directly filter the data shown in the widget. See the following new product example. You can load a collection of saved members or create your own filter by selecting members. As in other areas of dashboards, you can combine multiple filters.</p>

6. Do one of the following:

- To immediately apply the filter without saving it, click **Apply**.
- To save the filter as a dynamic collection, click **Save**. Note that this will save the test criteria rather than a list of members.

### Example - New product filter

You could use a dynamic filter to find and analyze products that were recently introduced. In this example, a product would be included if it had volume of greater than zero during This date range (based on the widget's This timeframe) and volume of zero or less during Last date range (based on the widget's Last timeframe).

Dynamic Filter

Accumulate By

Product

AND OR

Add rule

Measure

Data Type

Operator

Value

Units

This

>

0

Measure

Data Type

Operator

Value

Units

Last

<=

0

Advanced Options

Now suppose you are interested in products that are new to a particular channel. You could use a filter in the advanced area of the test to find those products.

**Advanced Options**

Cubes:  Equivalent:

Passed In:  Date Range:

Filters:

When this setting is on, the test runs the test on the filtered data (e.g., sales for convenience stores only) but does not directly filter the data in the widget. In this example, the widget includes data for other channels, but the results are filtered on products that are new to the convenience channel.

↑ Channel	Units	
	This	Last
> <input type="checkbox"/> 3rd Party Operators	86	27
> <input type="checkbox"/> All Othr On Premise	301	47
> <input type="checkbox"/> Bars / Taverns	44	0
> <input type="checkbox"/> Beverage Centers	459	127
> <input type="checkbox"/> Churches	38	2
> <input type="checkbox"/> Clubs	24	4
> <input type="checkbox"/> Colleges	312	72
> <input type="checkbox"/> Conv - NoGas	216	0
> <input type="checkbox"/> Conv With Gas	1,861	0
> <input type="checkbox"/> Dairy Stores	60	2
<b>Total (32)</b>	<b>12,538</b>	<b>1,743</b>



## Example - Active customer filter

You could use a dynamic test to filter on active customers. In this example, a customer would be included if it had volume of greater than zero during This date range (based on the widget's This timeframe).

**Dynamic Filter**

Accumulate By  
Customer

AND OR Add rule

Measure	Data Type	Operator	Value
Units	This	>	0

**Advanced Options**

Cubes  
Sales

Equivalent  
None

Passed In  
All Periods (In Total)

Date Range  
Dynamic Date Range

Filters  
x | v

If your definition of an active customer is based on a more precise timeframe (e.g., sales during last 12 months), you could assign a specific date range that is not based on the widget date range. This would allow you to change the date range of the widget without affecting the test.

**Advanced Options**

Cubes  
Sales

Equivalent  
None

Passed In  
All Periods (In Total)

Date Range  
Specific Date Range

Filters  
There are no filters

**Name: Last 12 Months [1 Month Lag] vs. YAG** Day Filters

Resolution: Month Week Ending: Sunday

This

Month To Date Last Month Last 6 Months Year To Date Last Year Custom Fixed

Start: 01/1999 End: 12/1999


< | 12 >

# Import filters

You can import a text file (i.e., local collection) to quickly select members for a filter as explained below. This method works for several types of filters, including workspace filters, individual widget filters, and filter widgets. In addition, text files can be used when creating filter buttons and collections. This feature may be turned off globally by your administrator.

In addition to the method explained below, you can [import options, including filters, from other dashboards](#) (see page 30). However, this option is not available for filter widgets.

To import a text file for a filter

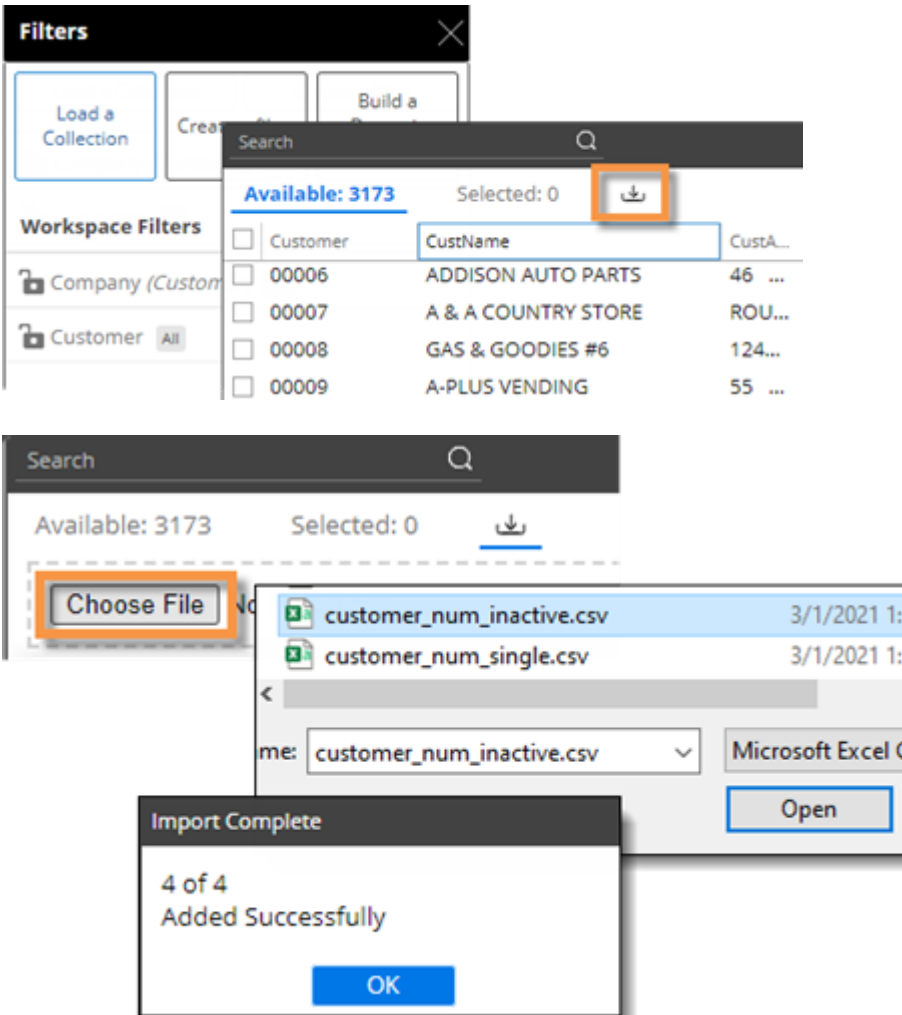
1. If you haven't already, create a text file that lists the members. It should have the CSV extension. Each line should list the host code of a single member.
2. Go to the selection window for the filter. For example, to import a text file for a workspace filter, click on the workspace filter in the filters panel.
3. Click the  button at the top of the window.

Example CSV file

```
91857
11904
11880
00000
```

4. Choose the file and click Open.

Salient Dashboards will show a summary of the members imported.



5. Click **Apply**.


# Drill down (i.e., downlevel filters)

You can drill down on one or more members to filter the data in a widget. When you drill, Salient Dashboards adds a downlevel filter to remove data for all other members.

Drilling is only available in data widgets that have multiple Group By dimensions.

To drill down on a single member


Double-click on the row, bar, pie slice, etc., representing that member.

**Tip:** You can also drill by clicking on a member to select it and then clicking the  button at the top of the widget.

Channel	This ↓	Last
> <input type="checkbox"/> Regional Chains	87,307	73,745
> <input type="checkbox"/> Conv With Gas	29,431	30,153
> <input type="checkbox"/> Mass Merchandisers	23,893	18,932
> <input type="checkbox"/> Other Groceries	20,611	21,147
> <input type="checkbox"/> 3rd Party		
> <input type="checkbox"/> Drug Stores	14,250	10,732

**Double-click to drill**

To drill down on multiple members


1. [Check the desired members](#) (see page 64) in a grid.
2. Click  on the title bar at the top of the widget.
3. If a drop-down appears, select **Drill into Checked Rows**.

Comparative		
Channel		
Channel	This ↓	% Change
> <input checked="" type="checkbox"/> Regional Chains	87,307	18.39
> <input type="checkbox"/> Conv With Gas	29,431	-2.39
> <input checked="" type="checkbox"/> Mass Merchandisers	23,893	26.20
> <input type="checkbox"/> Other Groceries	20,611	-2.53
> <input type="checkbox"/> 3rd Party Operators	14,376	23.33

Downlevel to SalesRep

## Tips:

When you drill, the By becomes what was previously the 2nd By. You may be able to change the By and/or downlevel order as you drill to follow a flexible drill path.

After you have drilled down, you can drill back up at any time by clicking  on the widget toolbar.

You can drill down on expanded grid rows to filter on multiple levels at once. In this case, drilling back up will remove all the drill levels simultaneously.

✓ <input type="checkbox"/> Regional Chains	87,307
> Johnson, Louise	13,811
✓ Baird, Jim	10,353
> Village North	4,651
> S.Newb...	...

**Double-click**

**Tips:**

If a custom drill-down is configured, drilling down may take you to another dashboard with the downlevel filters applied.

Drilling affects other widgets in the dashboard if the dashboard has a corresponding workspace filter.

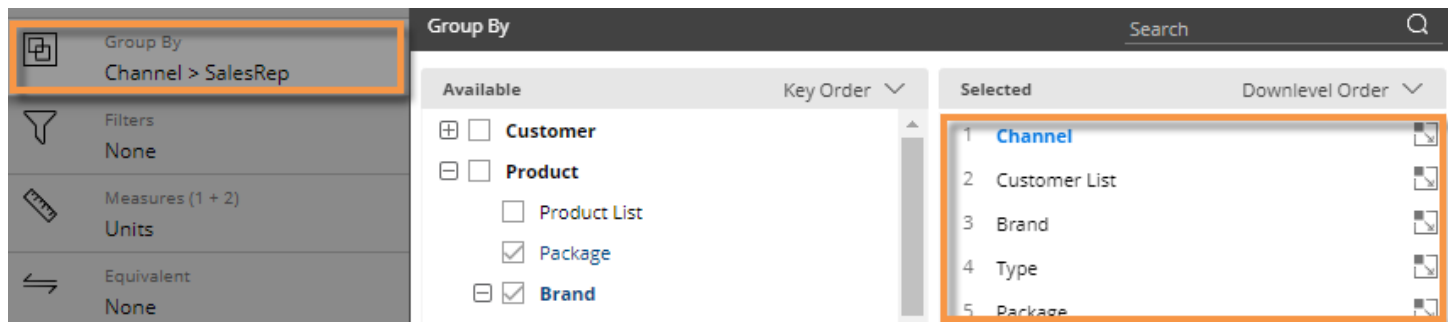
## Set up drill-down capabilities in a dashboard

The following settings control drilling capabilities for end-users in view mode.

### How the Group By affects drilling

If a widget has multiple [Group By dimensions](#) (see page 52), users can [drill down](#) (see page 83) through those dimensions in view mode to narrow their view of the data; therefore, you should select those dimensions in the group by area during the dashboard design process if you wish to enable drilling. (Group By dimensions are not required for [custom drill-downs](#) (see page 130).)

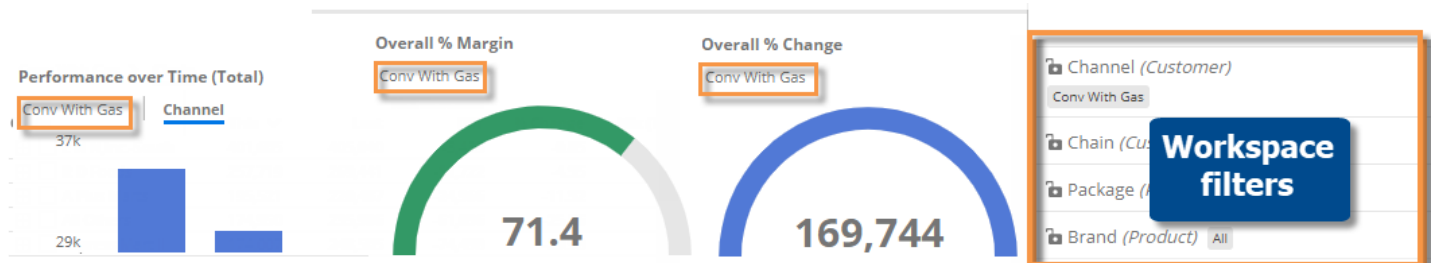
In addition, the Group By order controls the default drill down order for a widget.



**Tip:** Users cannot drill in non-comparative widgets (e.g., Trend, Gauge, etc.); instead, they can add filters if enabled in the [Filter By area](#) (see page 55).

### Concurrent drill-down across a dashboard

Drilling can affect other widgets in the dashboard if the dashboard has a corresponding workspace filter; the dashboard will automatically populate the workspace filter when you drill. Therefore, you may want to add [workspace filters](#) (see page 71) (even if they are set to "All") to enable downlevel filters to work across the dashboard. For example:





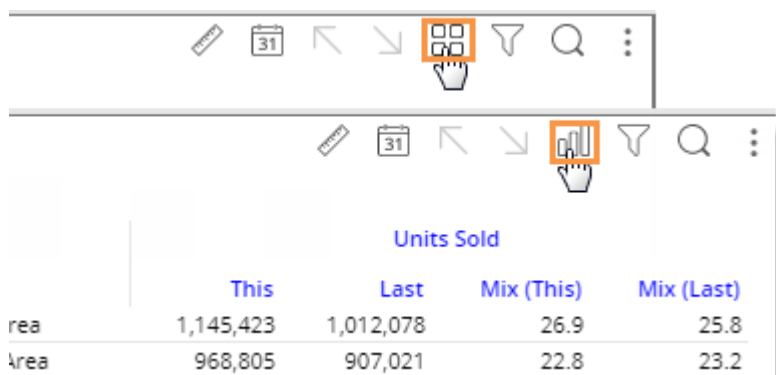
# Customize widgets

## Switch between grid and graph formats


Most data analysis widgets are available in grid and graph formats.

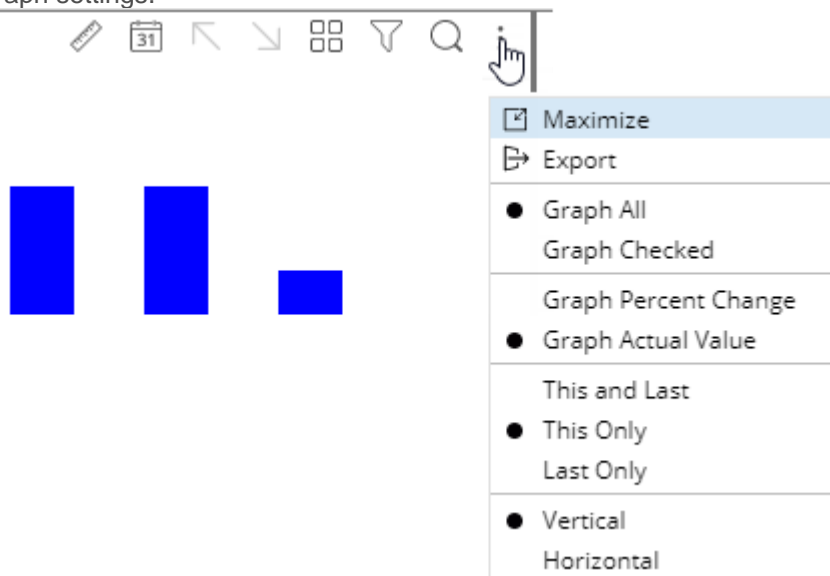
To toggle between a grid and a graph

On the title bar of the widget, click  (visible on mouseover) to change from grid to graph or  to change from graph to grid of numbers. (This button may be deactivated in general settings.)



To select a graph format

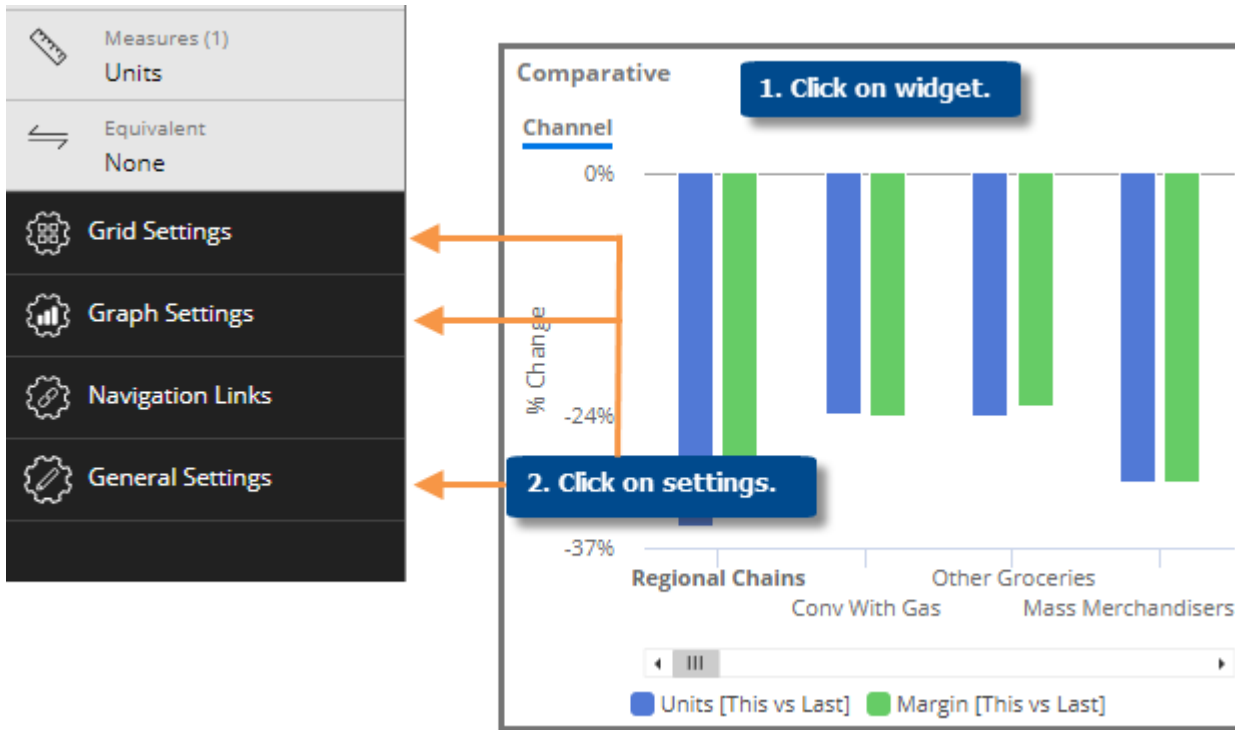
For graphs, click  in the upper-right corner of the widget (visible on mouseover) to select from available graph formats for the analysis type (e.g. percent change, actual value, bar, pie, etc.). Additional options are available in graph settings.



**Tip:** If the widget uses custom programming (i.e., custom view), the graph/grid button is not available.

# Grid, graph, and general widget settings

In edit mode, you can configure several widget options by clicking on the widget and then clicking one of the settings areas in the toolkit.



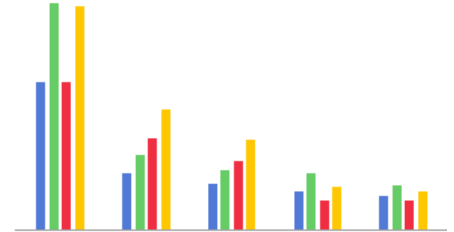
Area	Settings
Grid Settings	<p>Settings that control the appearance and functionality of grids, including:</p> <ul style="list-style-type: none"> <li><a href="#">Grid types</a> (see page 88)</li> <li>Show or hide grid components such as totals, averages, paging toolbar, etc.</li> <li>Number of members to show per page (i.e., grid page size)</li> <li>Method for accessing members beyond the grid page size: infinite scrolling or paging</li> </ul>
Graph Settings	<p>Graph page size; orientation; show/hide the legend and other graph components; <a href="#">visual options</a> (see page 90), etc.</p>
<a href="#">Navigation Links</a> (see page 128)	<p>Embedded links to other dashboards</p>
General Settings	<p>Widget title, style, size, position, transparency, enable/disable options for view mode, show/hide in mobile, etc.</p> <p><b>Tip:</b> Set the desired layer order (i.e., what widgets are on top) using the following buttons in general settings. End-users will not be able to change this order.</p>

## Simplified widgets

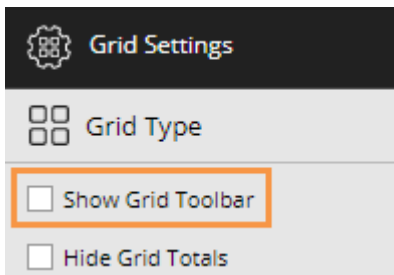
In settings (located in the toolkit), you can turn off the legend, axis labels, and more, to create simplified widgets (for example, mini-widgets for optimal display on smaller devices).



**-32.95%**  
273,537 vs. Last

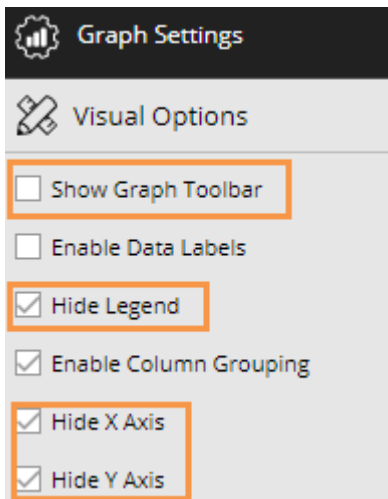


### Recommended settings for simplified widgets



In grid settings:

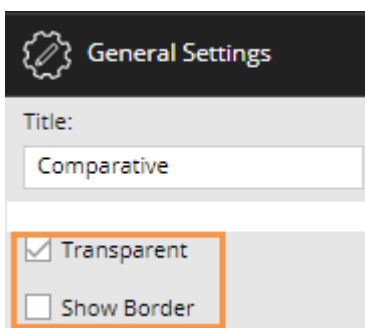
Clear the **Show Grid Toolbar** option. This will hide the paging toolbar at the bottom of the widget.



In graph settings:

Clear the **Show Graph Toolbar** option. This will hide the paging toolbar at the bottom of the widget.

Hide the legend, x axis, and y axis.



In general settings:

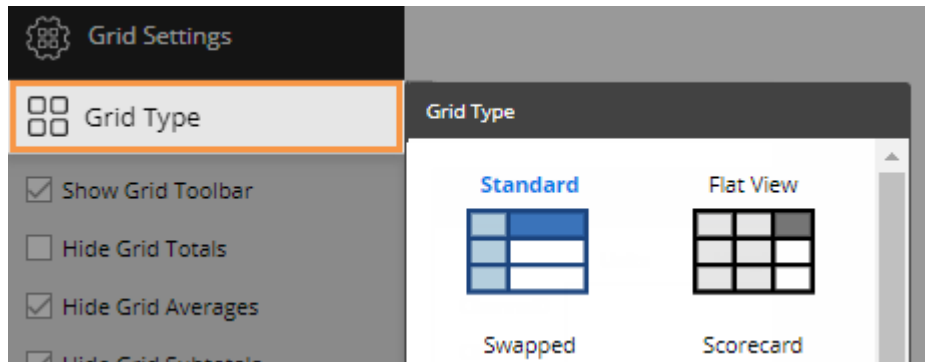
Turn on transparency.

Clear the border option (i.e., hide the border).

## Grid types

The grid type affects the layout of columns and rows. In addition, some grid types affect the format of graphs when [auto-expand is on](#) (see page 60). To change the grid type, go to Grid Settings in the toolkit and click on Grid Type. The available types depend on the selected widget.

**Tip:** In explore mode, check ☐ **Advanced** at the bottom of the toolkit to access settings.



Grid type	Example	Explanation																															
Standard	<table><thead><tr><th rowspan="2">Region</th><th colspan="3">Units</th></tr><tr><th>This ↓</th><th>Last</th><th>% Change</th></tr></thead><tbody><tr><td>&gt; <input type="checkbox"/> SouthEast Area</td><td>73,794</td><td>116,284</td><td>-36.54</td></tr><tr><td>&gt; <input type="checkbox"/> SouthWest Area</td><td>60,364</td><td>89,170</td><td>-32.30</td></tr><tr><td>&gt; <input type="checkbox"/> NorthWest Area</td><td>57,685</td><td>83,206</td><td>-30.67</td></tr><tr><td>▼ <input type="checkbox"/> East Area</td><td>57,196</td><td>85,956</td><td>-33.46</td></tr><tr><td>    &gt; Carbonated</td><td>54,648</td><td>82,242</td><td>-33.55</td></tr><tr><td>    &gt; Non-Carb</td><td>1,956</td><td>2,966</td><td>-34.05</td></tr></tbody></table>	Region	Units			This ↓	Last	% Change	> <input type="checkbox"/> SouthEast Area	73,794	116,284	-36.54	> <input type="checkbox"/> SouthWest Area	60,364	89,170	-32.30	> <input type="checkbox"/> NorthWest Area	57,685	83,206	-30.67	▼ <input type="checkbox"/> East Area	57,196	85,956	-33.46	> Carbonated	54,648	82,242	-33.55	> Non-Carb	1,956	2,966	-34.05	<p>In general, a standard grid shows measures in columns and members in rows.</p> <p>Expanded dimensions will be in a "tree."</p>
	Region		Units																														
This ↓		Last	% Change																														
> <input type="checkbox"/> SouthEast Area	73,794	116,284	-36.54																														
> <input type="checkbox"/> SouthWest Area	60,364	89,170	-32.30																														
> <input type="checkbox"/> NorthWest Area	57,685	83,206	-30.67																														
▼ <input type="checkbox"/> East Area	57,196	85,956	-33.46																														
> Carbonated	54,648	82,242	-33.55																														
> Non-Carb	1,956	2,966	-34.05																														
	<div><table><tbody><tr><td rowspan="3">Our Cola</td><td>Cans</td><td></td></tr><tr><td>PET</td><td></td></tr><tr><td>Glass</td><td></td></tr><tr><td rowspan="2">Our Neon</td><td>PET</td><td></td></tr><tr><td>Cans</td><td></td></tr><tr><td rowspan="3">Our DietCola</td><td>Cans</td><td></td></tr><tr><td>PET</td><td></td></tr><tr><td>Glass</td><td></td></tr></tbody></table></div>	Our Cola	Cans		PET		Glass		Our Neon	PET		Cans		Our DietCola	Cans		PET		Glass		<p>In <a href="#">graphs with auto-expanded dimensions</a> (see page 60), the standard grid type will cause members to be grouped under the parent category.</p>												
Our Cola	Cans																																
	PET																																
	Glass																																
Our Neon	PET																																
	Cans																																
Our DietCola	Cans																																
	PET																																
	Glass																																



Grid type	Example	Explanation																																						
Flat view	<table><tr><th rowspan="2">Region</th><th rowspan="2">Type</th><th colspan="3">Units</th></tr><tr><th>This ↓</th><th>Last</th><th>% Change</th></tr><tr><td>&gt; SouthEast Area</td><td>Carbonated</td><td>67,439</td><td>106,188</td><td>-36.49</td></tr><tr><td>&gt; SouthWest Area</td><td>Carbonated</td><td>57,028</td><td>84,426</td><td>-32.45</td></tr><tr><td>&gt; NorthWest Area</td><td>Carbonated</td><td>54,707</td><td>79,084</td><td>-30.82</td></tr><tr><td>&gt; East Area</td><td>Carbonated</td><td>54,648</td><td>82,242</td><td>-33.55</td></tr><tr><td>&gt; Near West Area</td><td>Carbonated</td><td>16,829</td><td>24,866</td><td>-32.32</td></tr><tr><td>&gt; SouthEast Area</td><td>Non-Carb</td><td>5,067</td><td>8,340</td><td>-39.24</td></tr></table>	Region	Type	Units			This ↓	Last	% Change	> SouthEast Area	Carbonated	67,439	106,188	-36.49	> SouthWest Area	Carbonated	57,028	84,426	-32.45	> NorthWest Area	Carbonated	54,707	79,084	-30.82	> East Area	Carbonated	54,648	82,242	-33.55	> Near West Area	Carbonated	16,829	24,866	-32.32	> SouthEast Area	Non-Carb	5,067	8,340	-39.24	The <a href="#">flat view grid</a> (see page 58) is like the standard format except it places expanded dimensions in separate columns so rows can be treated independently.
	Region			Type	Units																																			
This ↓		Last	% Change																																					
> SouthEast Area	Carbonated	67,439	106,188	-36.49																																				
> SouthWest Area	Carbonated	57,028	84,426	-32.45																																				
> NorthWest Area	Carbonated	54,707	79,084	-30.82																																				
> East Area	Carbonated	54,648	82,242	-33.55																																				
> Near West Area	Carbonated	16,829	24,866	-32.32																																				
> SouthEast Area	Non-Carb	5,067	8,340	-39.24																																				
	<div><div><div>Our Cola / Cans</div><div>Our Cola / PET</div><div>Our Neon / PET</div><div>Our DietCola / Cans</div><div>Our DietCola / PET</div><div>Our Neon / Cans</div><div>Our SF CF Cola / Cans</div><div>Our CF Cola / Cans</div><div>Our CF Cola / PET</div></div><div><div>Our Cola / Cans</div><div>Our Cola / PET</div><div>Our Neon / PET</div><div>Our DietCola / Cans</div></div></div>	In <a href="#">graphs with auto-expanded dimensions</a> (see page 60), the flat view displays combinations of members in a single level. The combinations can be sorted independently.																																						
Swapped	<table><tr><th>Region</th><th>SouthEast Area</th><th>SouthWest Area</th></tr><tr><td><b>This</b></td><td>1,145,423</td><td>968,805</td></tr><tr><td><b>Last</b></td><td>1,012,078</td><td>907,021</td></tr><tr><td><b>Diff</b></td><td>133,345</td><td>61,784</td></tr><tr><td><b>% Change</b></td><td>13.18</td><td>6.81</td></tr></table>	Region	SouthEast Area	SouthWest Area	<b>This</b>	1,145,423	968,805	<b>Last</b>	1,012,078	907,021	<b>Diff</b>	133,345	61,784	<b>% Change</b>	13.18	6.81	In a swapped grid, columns and rows are switched.																							
Region	SouthEast Area	SouthWest Area																																						
<b>This</b>	1,145,423	968,805																																						
<b>Last</b>	1,012,078	907,021																																						
<b>Diff</b>	133,345	61,784																																						
<b>% Change</b>	13.18	6.81																																						
Scorecard	<table><tr><th></th><th>This</th><th>Last</th><th>Diff</th><th>% Change</th></tr><tr><td><b>Units Sold</b></td><td>4,257,862</td><td>3,915,236</td><td>342,626</td><td>8.75</td></tr><tr><td><b>Net Revenue</b></td><td>38,565,105</td><td>35,313,796</td><td>3,251,310</td><td>9.21</td></tr></table>		This	Last	Diff	% Change	<b>Units Sold</b>	4,257,862	3,915,236	342,626	8.75	<b>Net Revenue</b>	38,565,105	35,313,796	3,251,310	9.21	The scorecard grid shows measures in rows and timeframes (This, Last, difference, etc.) in columns; does not compare members.																							
	This	Last	Diff	% Change																																				
<b>Units Sold</b>	4,257,862	3,915,236	342,626	8.75																																				
<b>Net Revenue</b>	38,565,105	35,313,796	3,251,310	9.21																																				


Grid type	Example	Explanation															
Scorecard swapped	<table> <tr> <td></td><td><b>Units Sold</b></td><td><b>Net Revenue</b></td></tr> <tr> <td>This</td><td>4,257,862</td><td>38,565,105</td></tr> <tr> <td>Last</td><td>3,915,236</td><td>35,313,796</td></tr> <tr> <td>Diff</td><td>342,626</td><td>3,251,310</td></tr> <tr> <td>% Change</td><td>8.75</td><td>9.21</td></tr> </table>		<b>Units Sold</b>	<b>Net Revenue</b>	This	4,257,862	38,565,105	Last	3,915,236	35,313,796	Diff	342,626	3,251,310	% Change	8.75	9.21	The swapped scorecard shows measures in columns and timeframes (This, Last, difference, etc.) in rows; does not compare members.
	<b>Units Sold</b>	<b>Net Revenue</b>															
This	4,257,862	38,565,105															
Last	3,915,236	35,313,796															
Diff	342,626	3,251,310															
% Change	8.75	9.21															

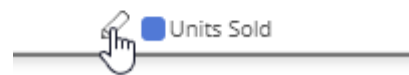
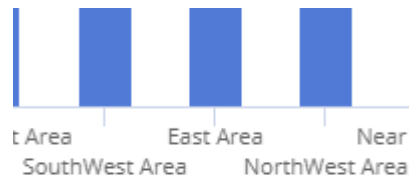
## Visual options

Using visual options, you can customize the colors and styles used in most graphs.

To access visual options

*In view mode:*

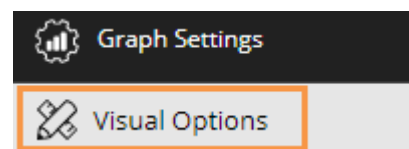
Click  in the graph legend (visible on mouseover if the legend is enabled).




*In explore/edit mode:*

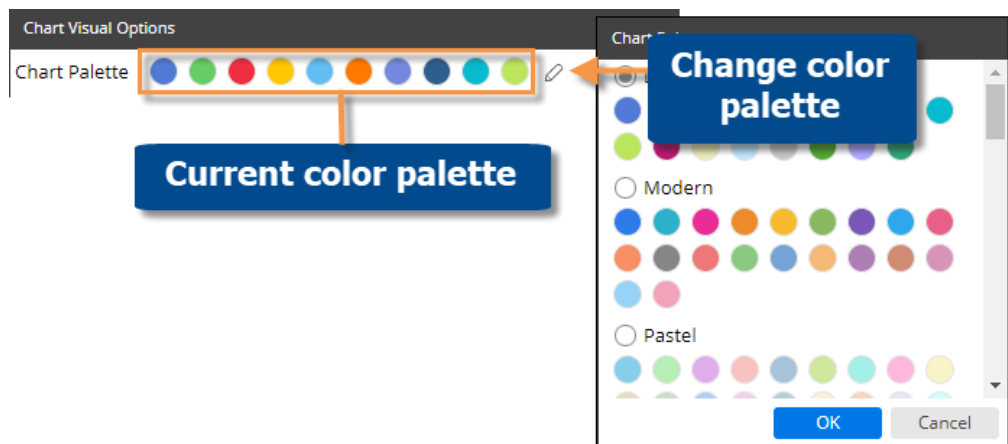
Expand Graph Settings in the toolkit.

Click on Visual Options.



## Choose a color palette

At the top of visual options, click  to change the color palette, which controls the default colors of most graph components. Salient Dashboards will apply the selected palette's colors in the order they are shown (e.g., blue to first component, green to second component, etc.). The available palettes depend on the dataset configuration.



**Tip:** You can override the selected palette by:

- choosing a color for an individual graph component as explained below.
- applying [member coloring](#) (see page 92) to make colors consistent across the dashboard for the defined dimension members (only available in some graph types).

## Customize graph components

Depending on the graph type, you can customize individual graph components (e.g., bars, lines, points, etc.). In visual options, click in the row of the component to make the following changes:

The screenshot shows a table of graph components with columns for Series, Type, Color, Style, and Size. Callouts point to specific areas:

- Type:** line, column (i.e., bar), area, or marker
- Point or line style:** (points to the Style column)
- Size:** width, thickness, etc. (points to the Size column)
- Color:** (points to the Color column)

A detailed view of the Color picker is shown on the right, titled "Color". It includes a legend:

- = auto-select
- = highlight
- (solid) = user-selected

The Color Picker interface includes a "Turn on highlighting" section with a checkbox for "Use Highlight Settings" and a "Highlight Settings" button. Below is a color palette with a "Pick a color" label. A "Hex Value" input field shows "333333" with a "Clear" button. At the bottom, there are "OK" and "Cancel" buttons, with a "Clear color (auto-select)" label pointing to the "Clear" button.

**Tip:** If you don't see the measure/format, checkmark the **Show All** box.

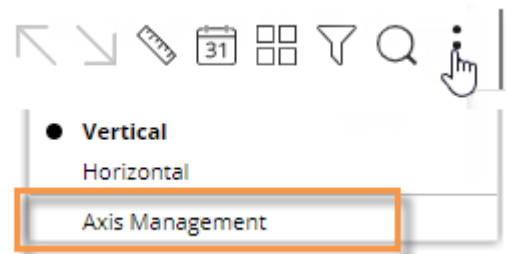
## Axis management

You can customize the axes of several graph types, including Trend, Comparative, and Multi Comparative.

To customize axes

Before proceeding, [add the desired measures](#) (see page 38).


1. Click in the upper-right corner of the widget, and select Axis Management, or click on Axis Management under Graph Settings in edit mode.

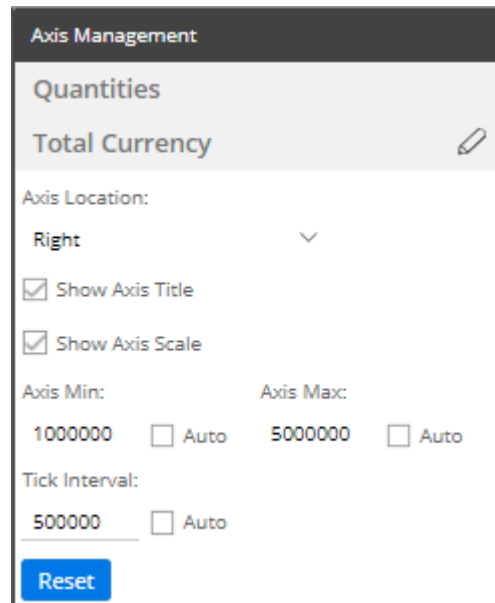


## To customize axes

- For an actual value graph, choose the axis to customize (e.g., Quantities, Total Currency, etc.). Depending on the selected measures, the graph may include multiple axes, each of which represents a measure or data family.


For a percent change graph, all % change data will be plotted along a single axis so this step is not necessary.


- To change the axis title, click .
- Choose the axis location.
- Show or hide the axis title.
- Show or hide the axis scale.
- Choose scale settings, including the minimum, maximum, and tick interval. These may be automatic or custom values.
- Click Save when you are finished.



**Axis Management**

**Quantities**

**Total Currency** 

Axis Location: **Right** 

☒ Show Axis Title

☒ Show Axis Scale

Axis Min: **1000000** ☐ Auto      Axis Max: **5000000** ☐ Auto

Tick Interval: **500000** ☐ Auto

**Reset**


## Member coloring

You can assign custom colors to specific dimension members to enhance visual understanding in some types of graphs. For example, you might assign blue to represent a certain region. The colors will be applied consistently in all applicable widgets, which include Mix, Share Trend, and some Crosstab graphs (see the following tips), within the dashboard. For members with assigned colors, the member coloring will override the [color palette](#) (see page 90). Member colors do not carry over from one dashboard to another; however, you can [import settings for member coloring](#) (see page 30).

## To apply member coloring

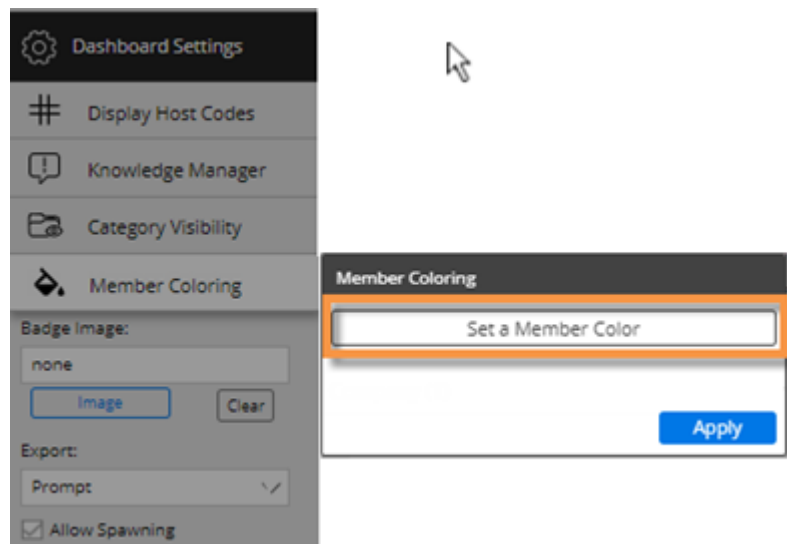
- In edit mode, click in the workspace (i.e. not on a widget).

In explore mode, click on

 **Advanced** at the bottom of the toolkit.



- In the toolkit, expand **Dashboard Settings**, and click on **Member Coloring**.
- Click on **Set a Member Color**.


**Tip:** This menu shows a summary of the member colors that have already been defined. You can click on a dimension to edit its colors.



**Dashboard Settings**

- Display Host Codes
- Knowledge Manager
- Category Visibility
- Member Coloring**

Badge Image: **none**  

Export: **Prompt** 

☒ Allow Spawning

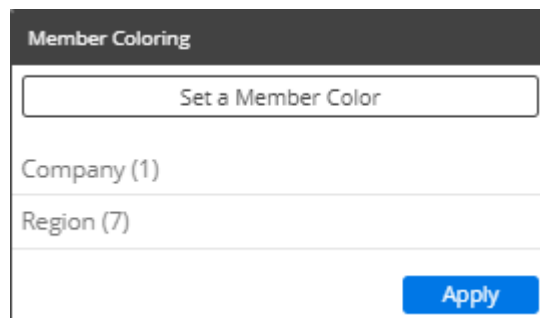
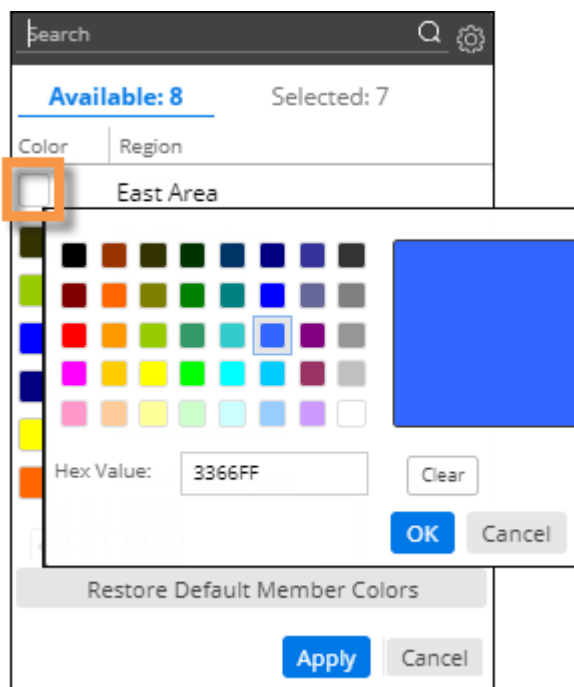
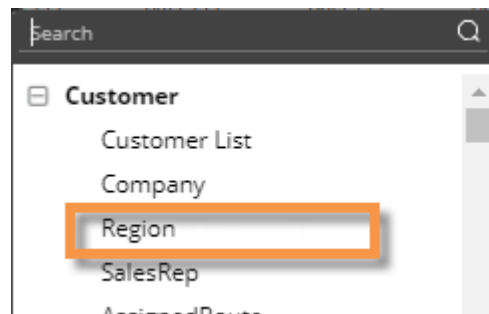
**Member Coloring**

**Set a Member Color**

**Apply**

## To apply member coloring

4. In the next menu, choose the dimension.
5. Locate a member to which you want to assign a color. If you wish, you can search for a member.
6. Click the square beside the member and choose a color. Repeat this step to choose colors for additional members. You may skip a member(s); in this case, the default color from the palette will be applied to the member(s).
7. When you are finished choosing colors for a dimension, click **Apply**.
8. Click **Apply**, or repeat this procedure to choose coloring for additional dimensions.

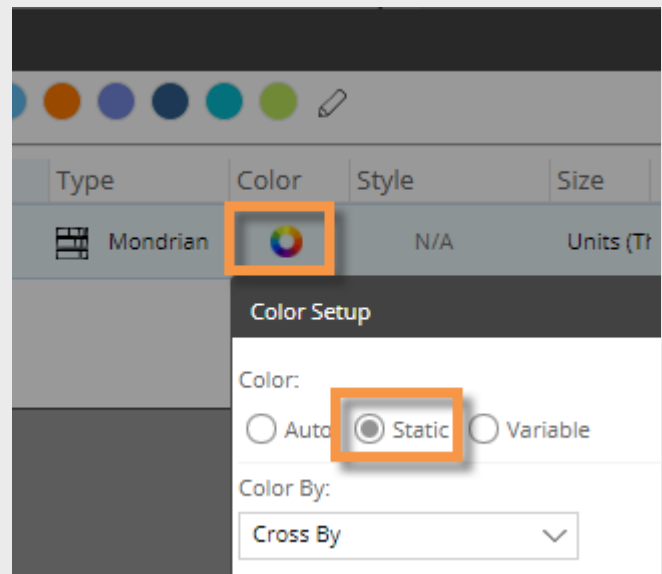


**Tips:**

Only Mix, Share Trend, and Crosstab graphs with static colors show member coloring, because other types of widgets use coloring to represent measures, percent change, pass/fail, etc.

To turn on static colors for a Crosstab so that member coloring can be utilized, go to its color setup in **Visual Options**.

*Crosstab static coloring (in visual options):*



## Highlight data

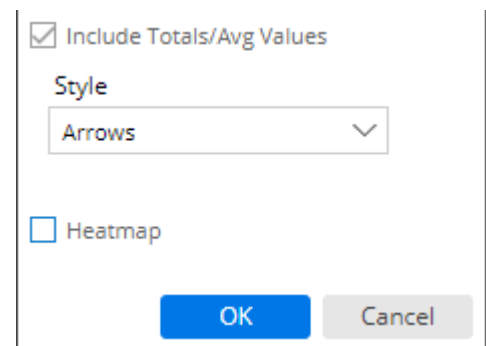
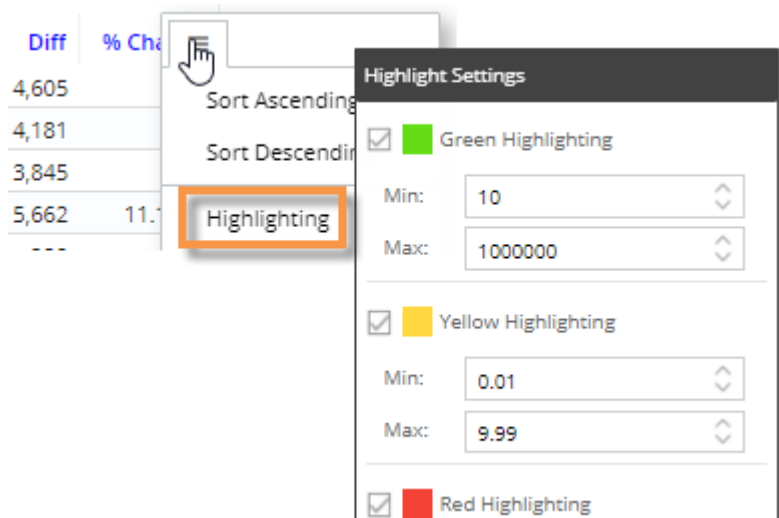
You can highlight data based on custom criteria or percent of the total (i.e., heatmap) to spot areas of concern or importance. The availability of highlighting depends on the widget type.

### Grid highlighting based on custom criteria

<input type="checkbox"/>	SouthEast Area	69,324 ●	4,605	7.12 —
<input type="checkbox"/>	SouthWest Area	65,067 ●	4,181	6.87 —
<input type="checkbox"/>	East Area	58,896	3,845	6.98 —
<input type="checkbox"/>	NorthWest Area	56,410	5,662	11.16 ↑
<input type="checkbox"/>	Near West Area	20,919	-229	-1.08 ↓
<input type="checkbox"/>	NorthEast Area	289	-6	-2.03 ↓

To highlight data based on custom criteria in a grid (in edit or explore mode)

1. Place your cursor on the heading of the column to highlight. You can highlight actual values (This or Last), percent change, difference, etc., for any measure.
2. Click the menu icon ☰.
3. Select **Highlighting**.
4. In Highlight Settings, check **Green highlighting**, **Yellow highlighting**, and/or **Red highlighting**, depending on the highlighting color(s) you want to use.
5. For each color range, type a minimum value and maximum value. If you use multiple ranges, they cannot overlap.
6. Optionally, check **Include Totals/Avg Values** to apply the highlight settings to applicable totals, averages, and subtotals (i.e., checked/unchecked) in the grid.
7. From the **Style** drop-down, select a highlighting style. The style controls the symbol used in grids.
8. Click **OK**.



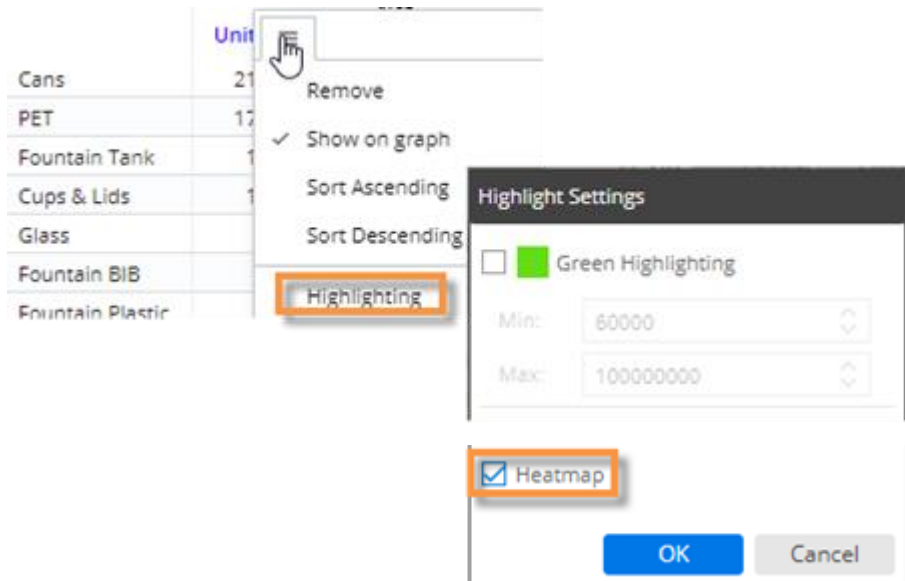
## Heatmap highlighting in grids

You can highlight grid cells based on the percent of the total for a given column to create a "heatmap"; the darkest shades represent the largest values. This method does not require you to enter criteria because the shades are calculated automatically.

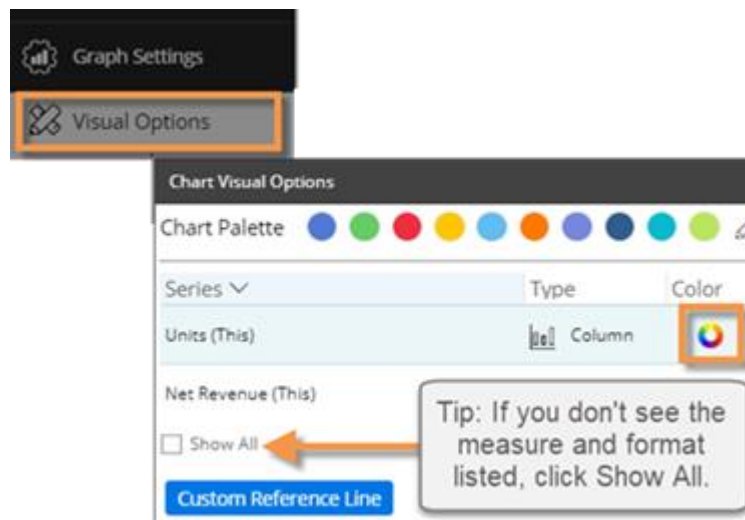
Form	Units ↓	Net Revenue	Margin
> <input type="checkbox"/> Cans	21,320	15,773	7,444
> <input type="checkbox"/> PET	17,360	17,516	9,229
> <input type="checkbox"/> Fountain Tank	1,192	1,718	1,009
> <input type="checkbox"/> Cups & Lids	1,152	101	-35
> <input type="checkbox"/> Glass	962	1,462	628

To turn on heatmap highlighting (in edit or explore mode)

1. Place your cursor on the heading of the column to highlight.
2. Click the drop-down arrow that appears.
3. Select **Highlighting**.
4. In **Highlight Settings**, check the **Heatmap** box.
5. Click **OK**.



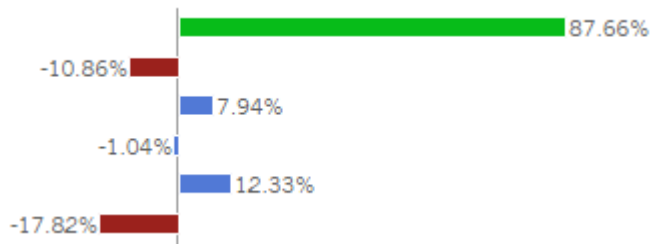
6. Optionally, choose a custom color in Graph Settings, Visual Options. Locate the specific measure and format (e.g., Units for This date range) and then click in the Color column. This color will serve as the darkest shade possible, with other shades calculated accordingly.




If you skip this step, then the grid will use the color of the data type (i.e., blue for volume, black for revenue, etc.)



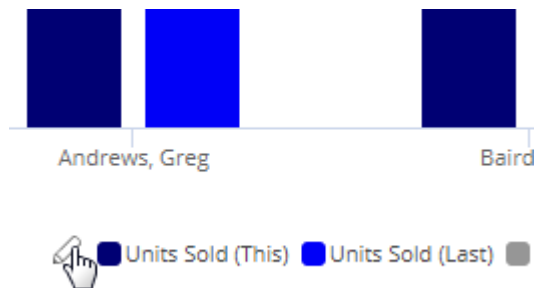
## Graph highlighting



To highlight data in graphs

1. Access visual options by clicking  in the graph legend (available on mouseover if the legend is enabled).

**Tip:** You can also access visual options under Graph Settings in the toolkit (in explore or edit mode).



2. For the measure/format to highlight, click in the Color column.
3. Check the **Use Highlight Settings** box.
4. If highlight settings are not already configured, click the **Highlight Settings** button and set highlighting ranges as explained below.

Series	Type	Color	Style	Size
Units Sold (This)	Column		N/A	80%
Units Sold (Last)	Column		N/A	80%
Net Revenue (This)	Marker		N/A	N/A
Net Revenue (Last)	Marker		N/A	N/A

## To highlight data in graphs

- For each color you wish to use, check the box and type a minimum value and maximum value. Ranges cannot overlap.
- Optionally, check **Include Totals/Avg Values** to apply the highlight settings to applicable totals in the graph. This setting only affects graphs that compare members and include the graph total, which can be turned on in graph settings.
- Select a style. In graphs, the style controls custom highlighting colors if they are configured.
- When you are finished, click OK.

**Highlight Settings**

☒ ■ Green Highlighting

Min: 10000

Max: 10000000

☒ ■ Yellow Highlighting

Min: 5000

☒ Include Totals/Avg Values

Style: Arrows

☐ Heatmap

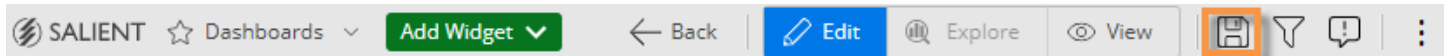
OK Cancel


# Save and Share

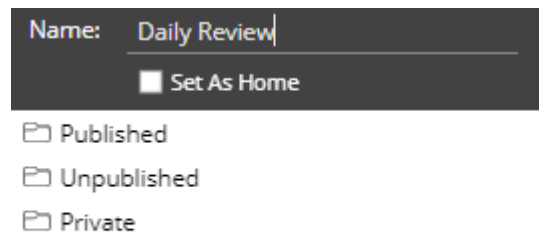
## Save and publish dashboards

We recommend saving dashboards frequently to avoid losing any changes. To "publish" a dashboard so that it is available to end-users, save it under the "Published" folder.

To save and publish a dashboard



1. Click on  at the top of the dashboards screen.
2. In the pop-up dialog, type a dashboard name. The name will be automatically populated if you are modifying an existing dashboard.
3. In the dashboard tree, select one of the following locations. You may need to expand a location (single-click) to see subfolders.



**Published** - Select this location or one of its subfolders to publish the dashboard so that it is available to all users in browser-based dashboards and the Salient Mobile app. (Access may be restricted based on user account settings).

**Unpublished** - This option makes the dashboard global so that it is available to other Dashboard Designers but is hidden from viewers.

**Private** - This option makes the dashboard private so that you are the only user who can access it.

4. Click **OK**.

### Tips:

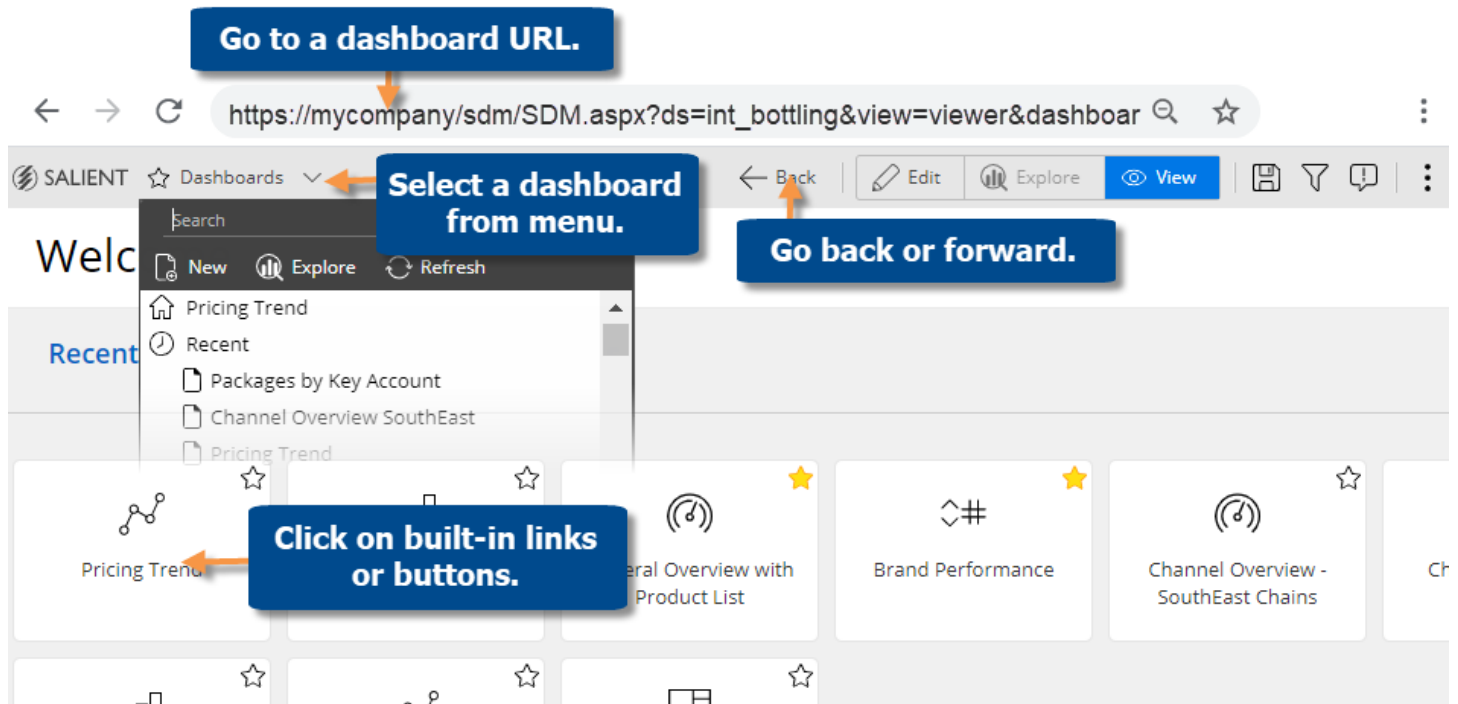
We recommend previewing a dashboard in view mode (click  **View** on the toolbar) prior to publishing it.

You can check the **Set as Home** box to make this dashboard the home dashboard.

After saving a dashboard, you can [access the its URL](#) (see page 101) to share it or go directly to the dashboard in a browser.

# How users can access dashboards

Use any of the following methods to open a dashboard.



## URL

Go directly to a specific dashboard by entering its URL in your browser or clicking on a link (e.g., in an email). This may be the dashboard's permanent [URL](#) (see page 101) or a temporary URL created by [sharing a dashboard](#) (see page 102).

## Built-in links

Click on buttons, links, icons, etc., in the portal or other dashboards.

## Dashboards menu

Open the dashboards menu at the top of the screen (*keyboard shortcut: o*); then, click on a dashboard name.

## Back & forward buttons

Go back and forward to dashboards you visited within a Salient Dashboards session. Click the browser's back and forward buttons or use the back button in the dashboard toolbar. Note that the history is cleared when you go to another page.

## On a mobile device:

Access dashboards through the Salient mobile app for optimal viewing, or use a browser if you prefer. Going to a dashboard URL will prompt you to choose one of these methods. (To reset your preferred method, clear browser cookies.)



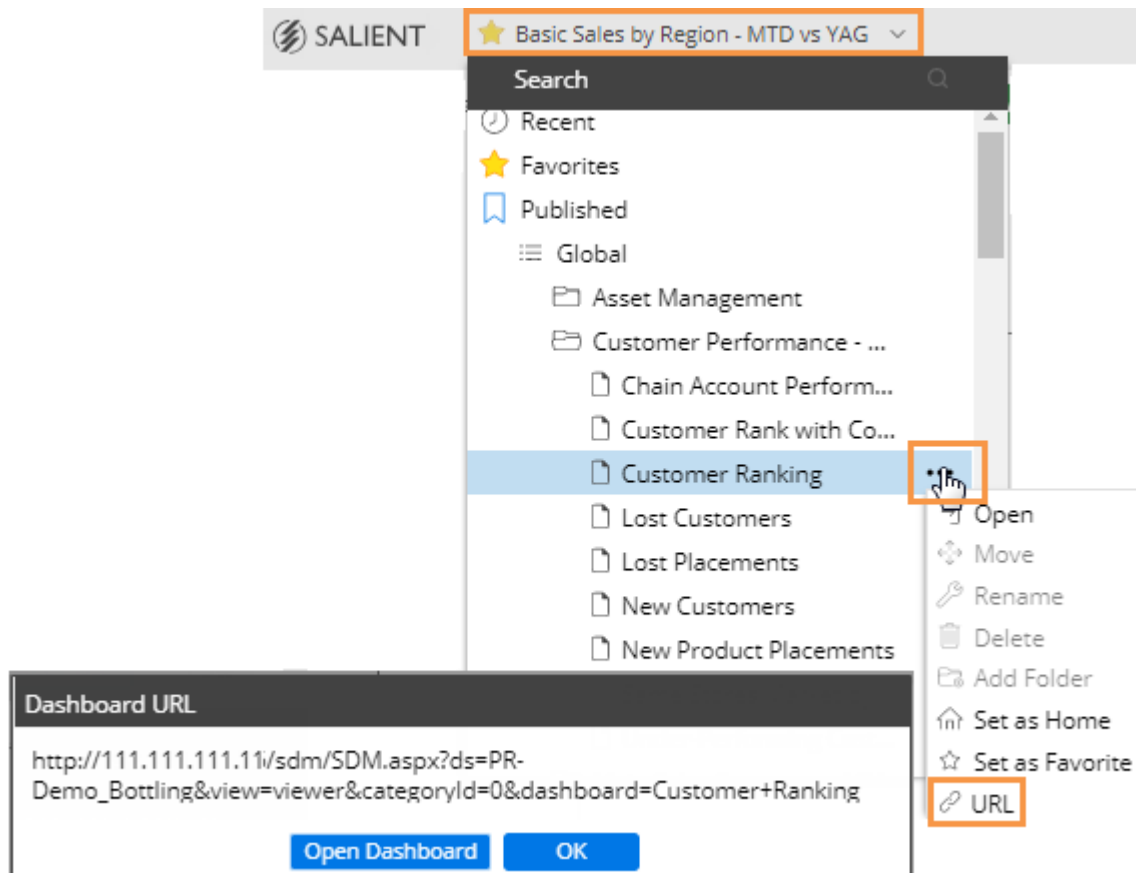
Additional installation and setup are required for the mobile app.

## Access a dashboard's URL

A dashboard URL allows you to go directly to a dashboard, share the URL with other users, create a link to a dashboard, save the dashboard as a bookmark in your browser, and more.

To access a dashboard's URL

1. Click the dashboard menu at the top of the screen.
2. Locate the dashboard and place the cursor over it.
3. Click the ... button that appears.
4. In the pop-up menu, select URL.
5. A dialog shows the URL of the dashboard. You can copy and paste it into an email program or other application.



**Tip:** If you wish, you can add parameters to the URL to do the following.


- Filter the dashboard to see data for specific key or dimension members. For example:  
...&filters=Customer&filterValues=11901
- Open specific tabs if the dashboard has tab groups. For example: ...&tab=1-0\_2-1

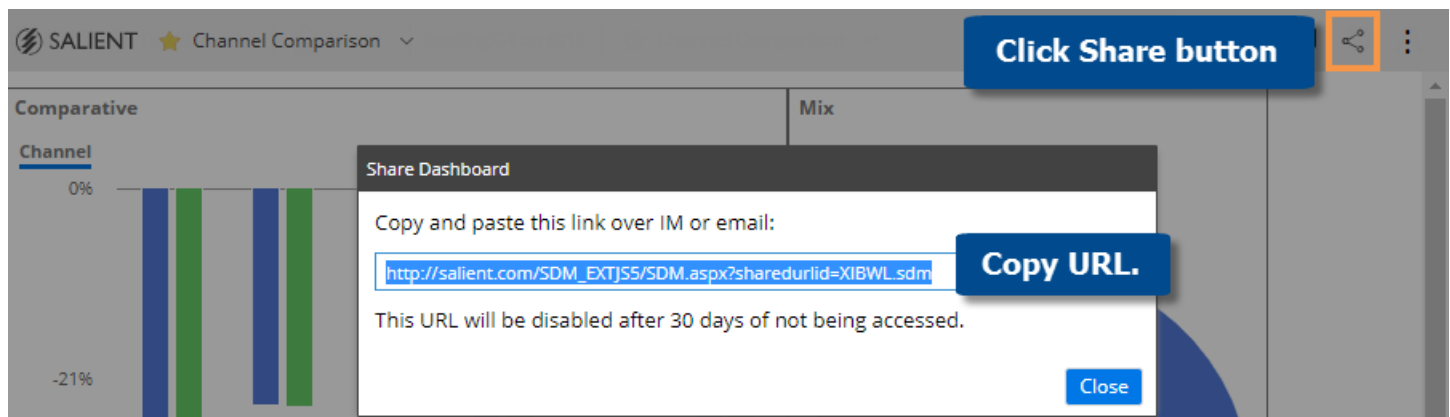
# Share a dashboard

Sharing a dashboard creates a temporary dashboard URL, which you can access in future sessions and/or share with other users. A shared URL retains any changes that you made, such as filters, date range selections, etc., and is therefore, a useful method for returning to a dashboard with your preferred settings already applied.


The URL is valid for a number of days (set by your administrator) after the last time it is accessed; therefore, if users continue to access the URL, it will remain available.

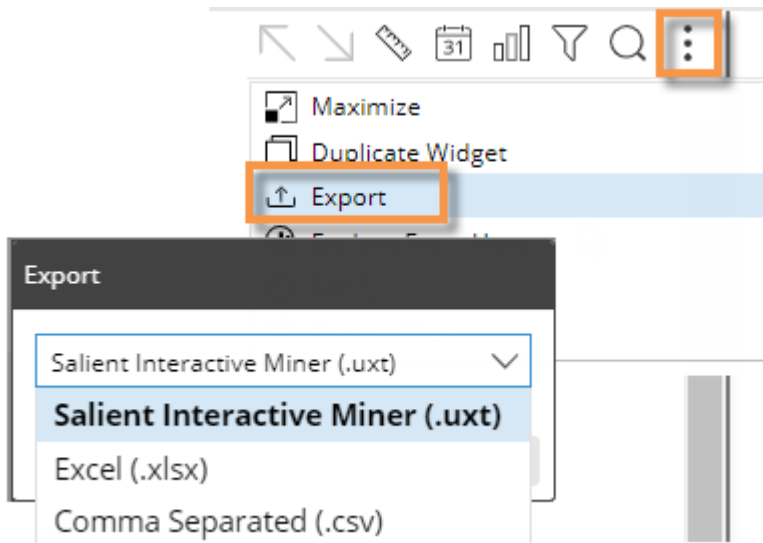
To share a dashboard

1. Open the dashboard and make the desired changes. For example, you might filter or change the date.
2. Click  in the upper-right corner of the screen.
3. In the **Share Dashboard** window, copy the URL using the browser controls (for example, right-click and select Copy in most desktop browsers).
4. Share or save this URL for use by other users or in future sessions.



# Limiting export options for users

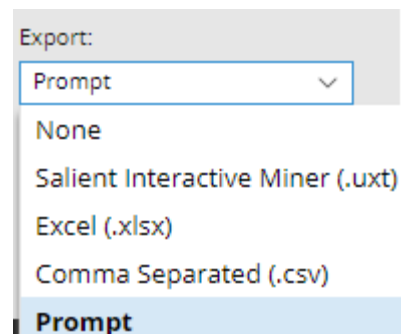
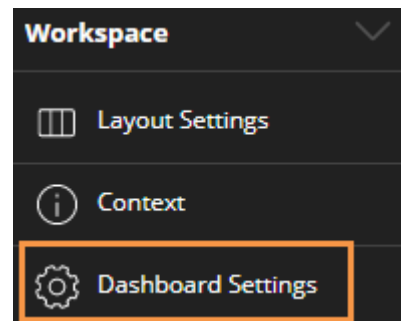
If allowed, users can export dashboard data by clicking the  button and selecting Export. The default export options include an Excel, comma-separated, or UXT-compatible file. If you wish, you can turn this capability off or limit the allowed formats.



To turn off or limit export options for all widgets in a dashboard

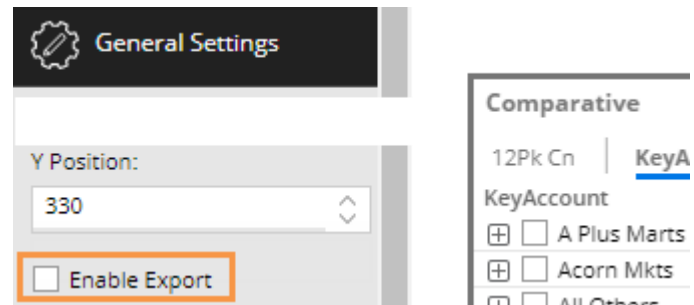
Note: This method does not affect explore mode.

1. Click the workspace to select it.
2. In the toolkit, select Dashboard Settings.
3. From the Export menu, select a single format, None to turn off exporting, or Prompt to allow all formats.



To turn off exporting for a single widget

1. Click the widget to select it.
2. In the toolkit, select General Settings.
3. Clear the Enable Export box.



**Tip:** These methods do not limit the ability to create a PDF file.



# Knowledge Manager

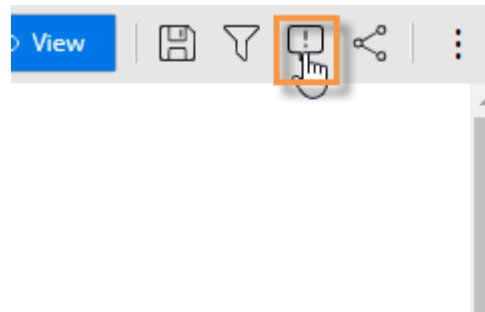
Knowledge Manager enables users to organize thoughts or “soft knowledge” for collaboration. You can add text descriptions, upload images or other resources, and add comments. In addition, this information can be shared between all users across multiple devices in SIM, Salient Dashboards, and the Salient Mobile app (additional setup required).

To show the Knowledge Manager panel

Click the Knowledge Manager button at the top of the screen to open the panel.

Knowledge Manager includes the following tabs.

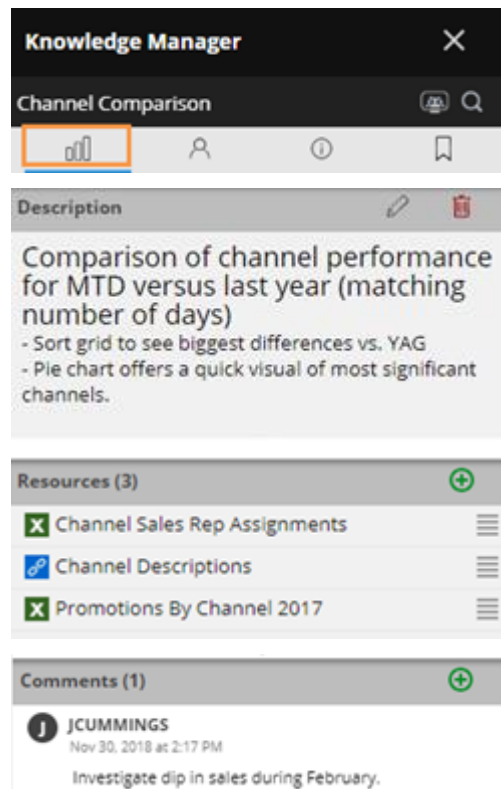
**Tip:** The use of Knowledge Manager depends on your user account rights.



## Dashboard Info

Allows users who create dashboards to write descriptions and purposes for them.

Resources (links to web pages, pictures or documents) and comments can be included as future reference materials become available.



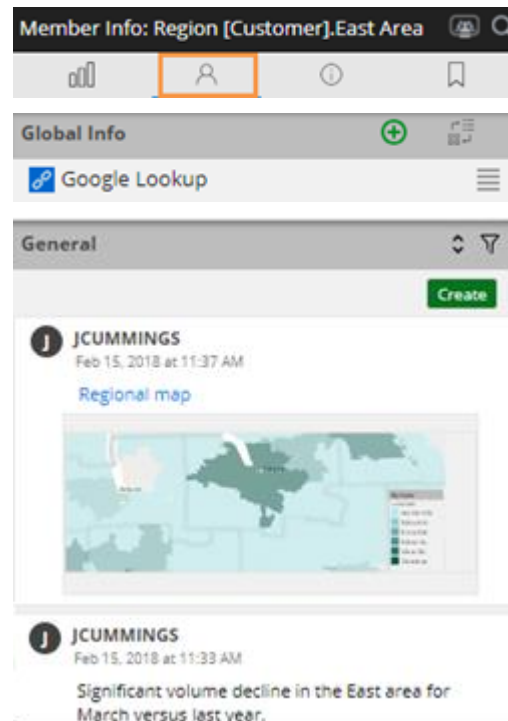
## Member Info

Allows you to connect media or non-media information to specific customers, sales reps, products, dates, etc.

Entries can be filtered and sorted to keep the most current information on top.

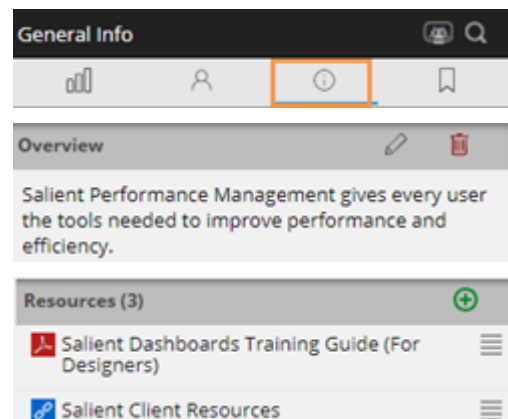
Media examples include news stories, events or related websites.

Non-media can be details on location, entry, specific contact info, or security issues.



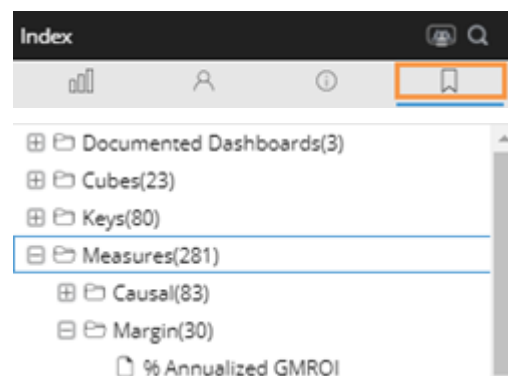
## General Info

Add global information such as manuals, training material, or information about the dataset.



## Index/Search

Search, view, or add information about the schema (keys, dimensions, measures, etc.).



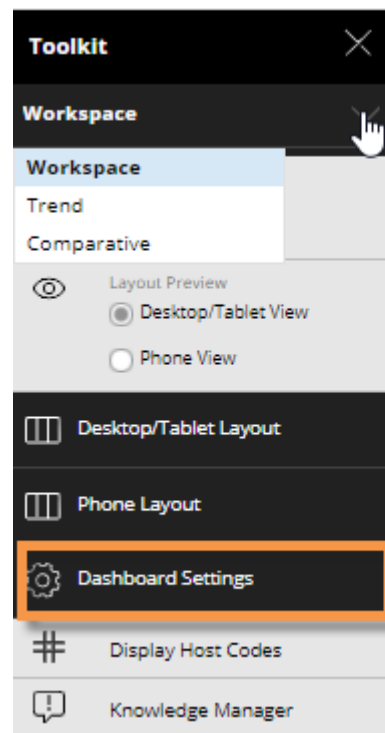
# Additional Concepts

## Dashboard settings

Dashboard settings allow you to control a variety of options, such as a member coloring, host code display options, badge image, export choices, etc. You can select these settings in the toolkit, as explained below, or [import settings from other dashboards](#) (see page 30).

To access dashboard settings in edit mode

1. In edit mode, select the workspace by clicking in a blank area of the dashboard, selecting **Workspace** in the toolkit menu, or pressing **w** on the keyboard.
2. Expand **Dashboard Settings** the toolkit.



To access dashboard settings in explore mode

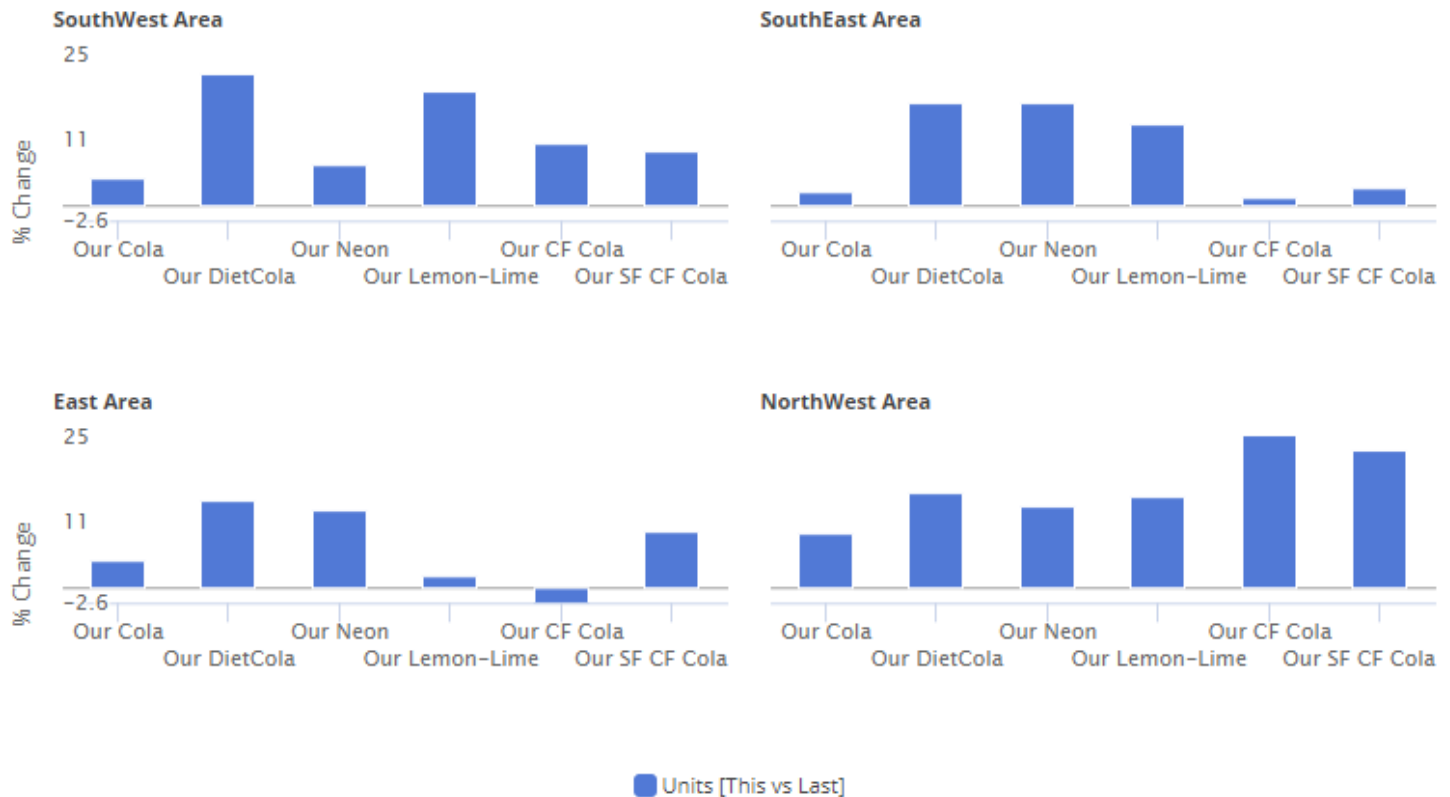
Click on ☐ **Advanced** at the bottom of the toolkit and then select Dashboard Settings.

Setting	Explanation
Display Hostcodes	If you wish, you can display dimension member codes along with or instead of their descriptions throughout the dashboard.
Knowledge Manager	Click <b>Knowledge Manager</b> to select settings for the Knowledge Manager panel.
Category Visibility	In this area, you can control which global and private collection categories are available or "visible" in view mode. Power Viewers will be able to access and/or create collections within these categories, depending on their user account settings.

Setting	Explanation
Member Coloring	In this area, <a href="#">choose specific colors to represent members in the dashboard</a> (see page 92). This allows you to apply consistent colors across multiple widgets.
Badge Image	Optionally, select an icon to represent the dashboard. This icon will appear in dashboard widgets (e.g., in the portal) if enabled. If you skip this selection, the icon will be based on the analysis type of the widget in the upper-left corner.
Export	Select the format for exporting data when the user selects the Export option in a widget. In addition to this setting, you can disable exporting for any widget in its settings.
Allow Spawning	Check this box if you want users to be able to create new widgets by clicking or double-clicking.
Show Standard Widget Title	Check this box to include the standard text describing the widget's timeframe after the widget title. (The widget title is defined in the widget's general settings.)
Add Cube Name to Data Field	Check this box to display the name of a data cube from which the measure originates in measure headings and the Measures area.
Use Metric Colors on Grid	Check this box to color grid headings based on the measure category (e.g., blue for volume), or clear the box to use dark gray for all measure headings across the dashboard.
Restrict Power Viewers from adding Measures, Bys, and Filters in View Mode	To provide unlimited editing of measures, Group By dimensions, and filters in view mode, leave this box cleared. To limit these selections to what was built into the dashboard, check this box.
Docked Filter Panel Position	Choose display options for the panel that allows users to manage <a href="#">filters</a> (see page 69). To disable this panel, choose <b>Hidden</b> .
Open Filter Panel on Load	Check this box to automatically expand the filters panel when the user opens the dashboard.
Remove Filter Widgets from Dashboard	This option removes all filter widgets from the dashboard but retains them as workspace filters, which can be accessed using the collapsible filter panel. This option maximizes screen space and is useful when upgrading your existing dashboards to Version 7.10+ if you want to use the new streamlined format.
Clear Workspace Filters	This option deletes all workspace filters, including global filters.

# Trellis setup

A trellis chart (i.e., small multiple) repeats the same graph for multiple sub-categories to break the data into smaller pieces. When a standard trellis is on, the widget shows an array of small graphs; each graph shows data for a member of the 1st By (e.g., each region). The data is then broken down according to the 2nd By (e.g., brands in each region). The trellis allows Dashboard Designers to build several visualizations into a dashboard using a single widget.

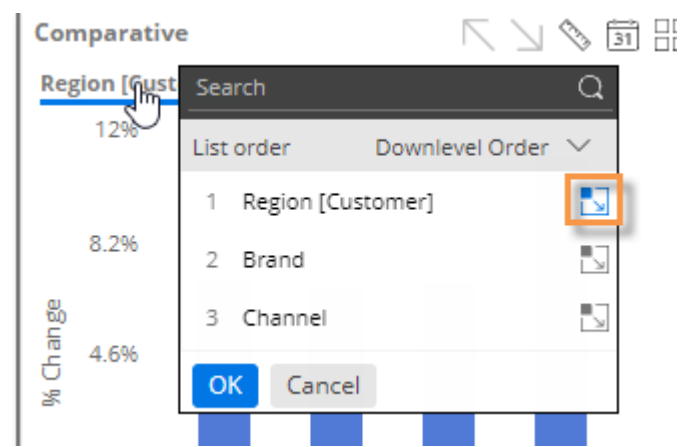


A [measure trellis](#) (see page 112) is also available.

To set up a trellis

1. Start with a comparative graph.
2. To show a series of subgroupings (i.e., standard trellis), select how to group the data:
  - Choose at least two levels (i.e., 1st By and 2nd By).
  - Turn on auto-expand for at least the top-level dimension or key.

The trellis will show small multiple charts for individual members of the 1st By. The data in each small graph will be grouped according to the 2nd By.

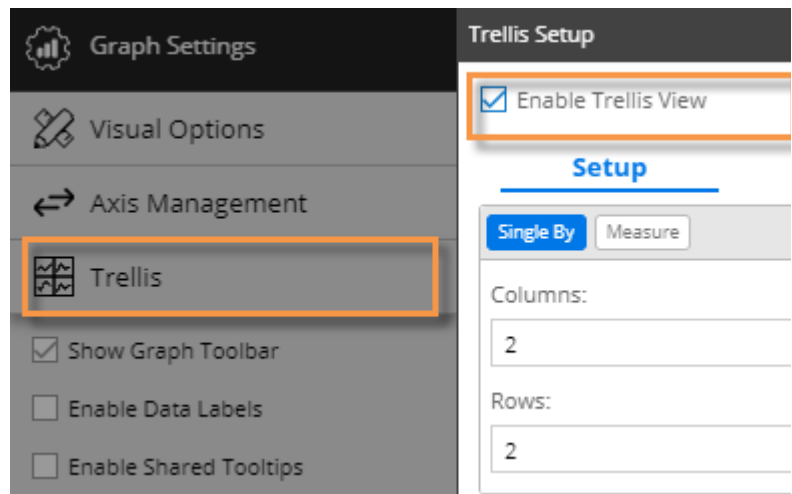


## To set up a trellis

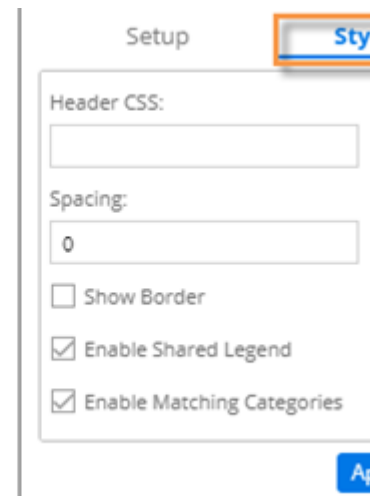
3. In the toolkit (in edit or explore mode), expand **Graph Settings**, and click on **Trellis**.
4. Check the **Enable Trellis** box.
5. In the **Setup** tab, choose from the following:

To create a standard trellis that shows a small graph for each subgrouping, leave **Single By** selected. Alternatively, you can create a [measure trellis](#) (see page 112).

Choose the number of columns and rows for the trellis array. For example, 2x2 will result in four small graphs.



6. In the **Styling** tab, choose the following:
  - Optionally, enter css code to apply formatting to small graph headings. For example:  
`font-size: 14pt`
  - To add space around the small graphs, enter a spacing value in pixels.
  - To add borders around the small graphs, check the **Show Border** box.

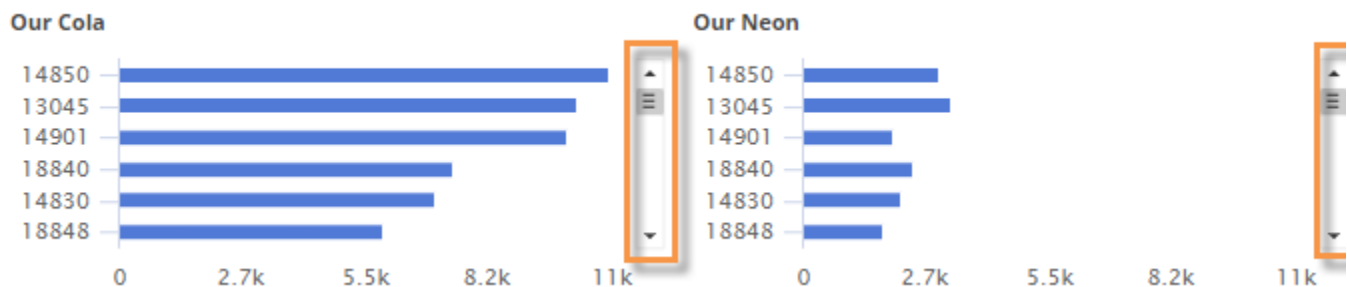


To set up a trellis

- Leave the **Enable Shared Legend** box checked to share the legend between small graphs. In general, this is recommended.
- Check or clear the **Enable Matching Categories** box.

#### *Enable Matching Categories on*

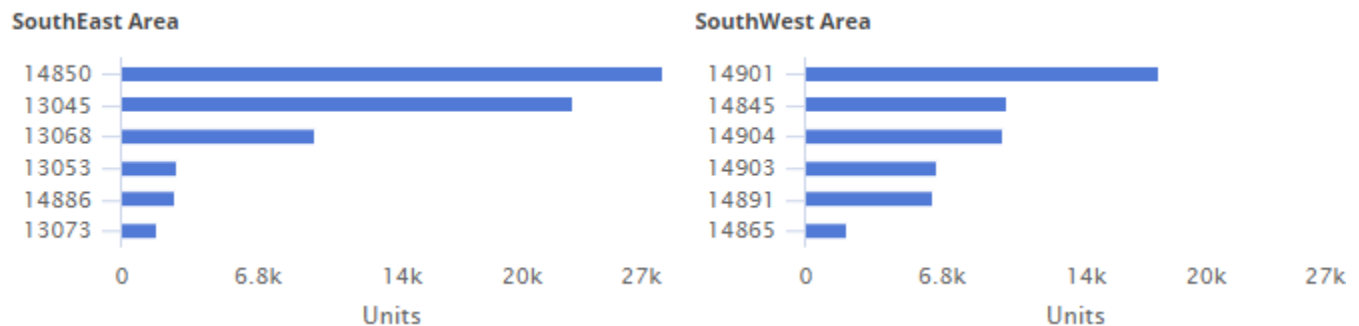
To order subgroupings consistently in the small graphs (i.e., same order in graph 1 as graph 2, graph 3, etc.), check the **Enable Matching Categories** box. In general, this option is recommended if the small graphs have most subgroupings in common because it allows for easier comparison and synchronous scrolling. For example:



The trellis uses an asterisk (\*) to indicate that a member is not in the top results for that particular small graph but is included because it is in the combined list.

#### *Enable Matching Categories off*

If small graphs do not have common subgroupings, you should generally turn off the **Enable Matching Categories** option. This will allow each small graph to sort and size its subgroupings independently.

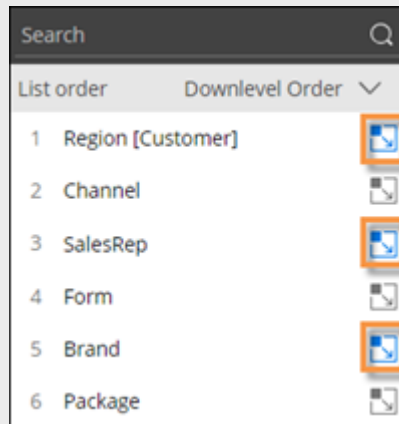


Note that matching categories is disabled in the following situations: two or more levels of auto-expansion (i.e., 1st By and 2nd By auto-expanded) or key-level as the 2nd By.

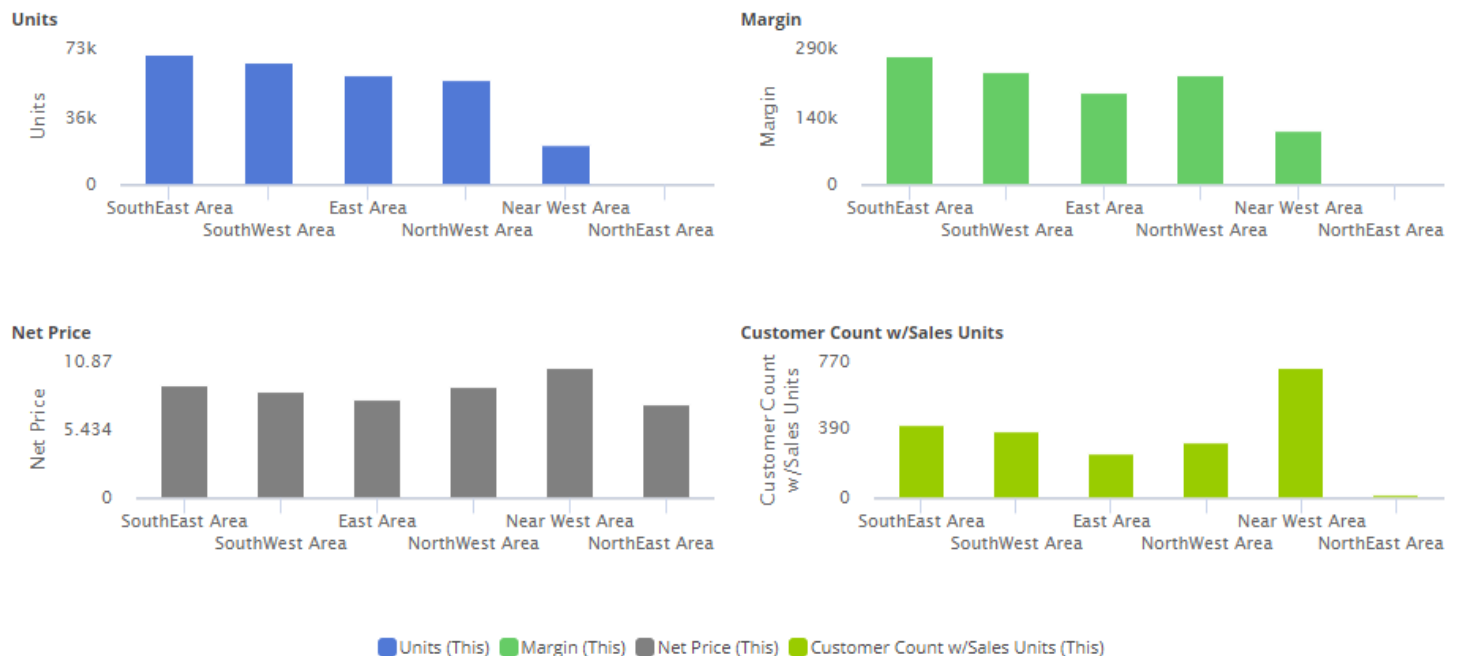
7. Click **Apply**.

**Tip:**

To enable drilling through a series of trellis graphs, every other level should be expanded; otherwise, users will need to manually turn on auto-expand after drilling.

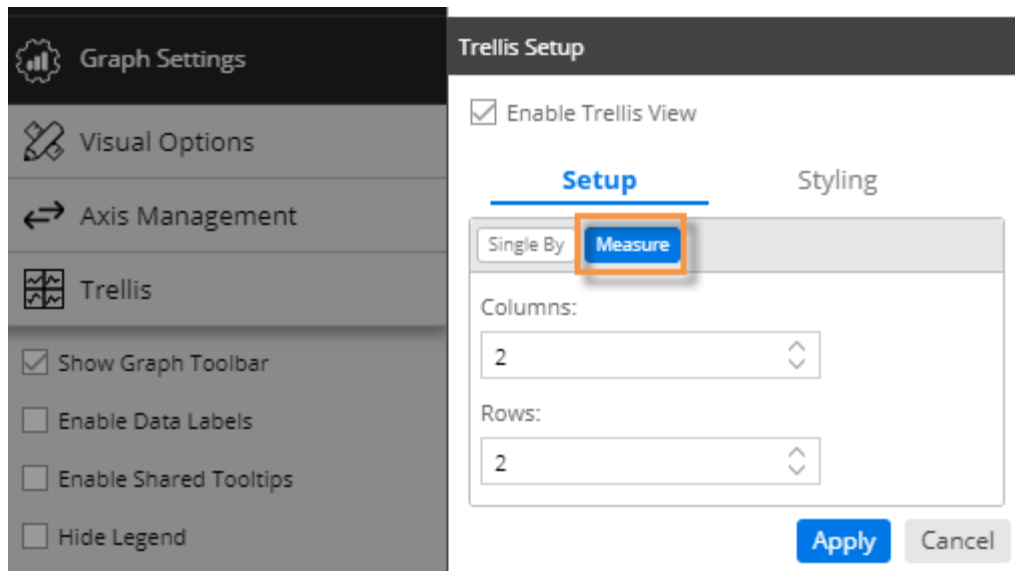
**Measure trellis**

A trellis can show a small graph for each measure rather than each sub-category. In this case, all graphs break down data according to the top-level dimension (and additional levels if auto-expand is on). A measure trellis may be useful when comparing several measures across a dimension.

**To set up a measure trellis**

1. Add the measures to the comparative widget in the order you want them to appear.
2. Set up a trellis as previous explained except choose the Measure option in the **Trellis Setup** area.



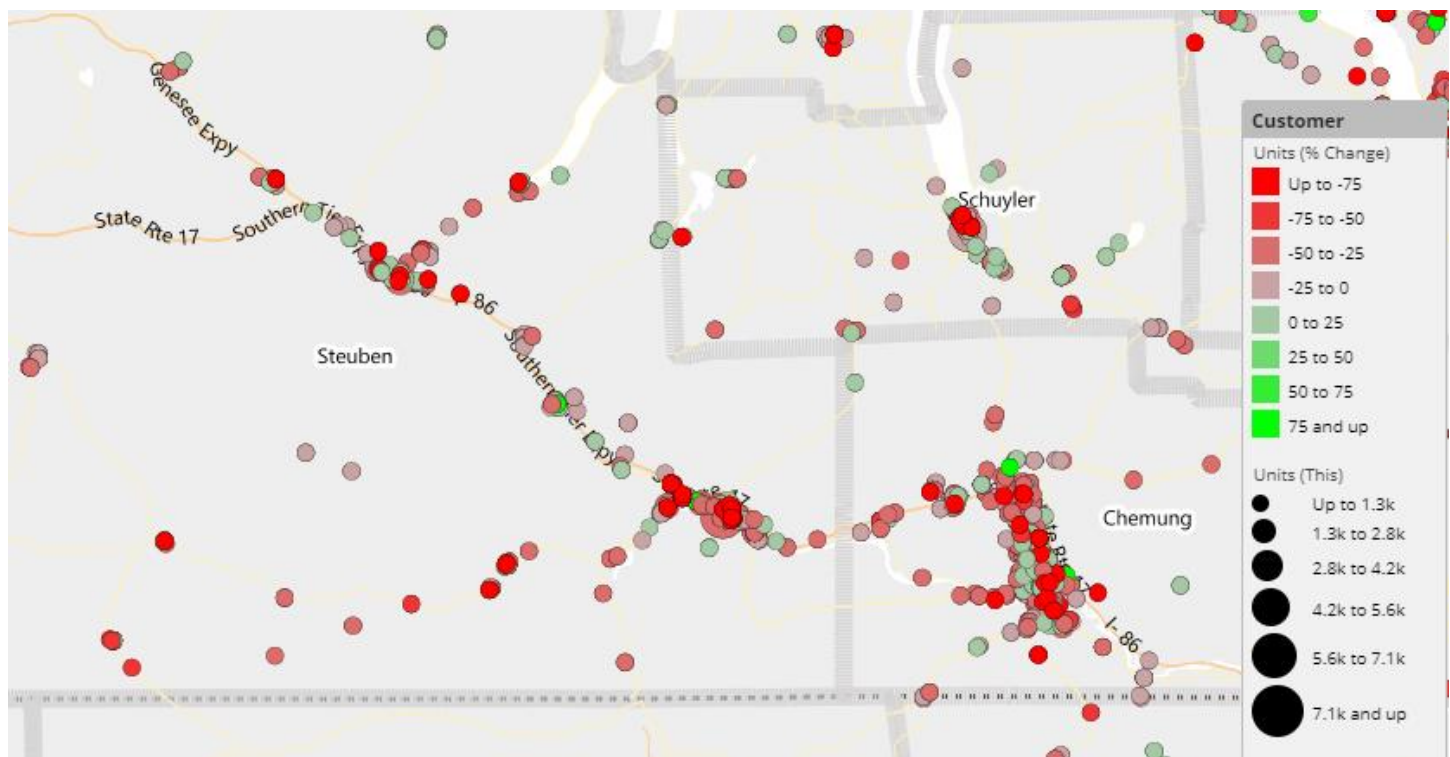


# Geo

Geo is a type of widget that provides geospatial intelligence by showing performance for individual locations (i.e. points). Depending on its setup, the map may also aggregate performance across areas to reveal geographic trends. This widget requires additional installation and setup.

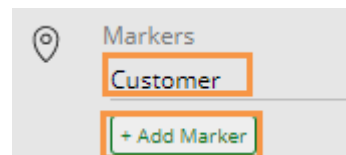
## Geo point map colored and sized by measure

The Geo map typically has markers that represent member locations (e.g., customer locations). The color and/or size of markers can indicate data values, difference, or percent change (e.g., green indicates positive change; red indicates negative change).



To set up a geo point map colored and sized by measure

1. After adding a Geo widget, access marker setup by clicking **Add Marker** under **Markers** in the toolkit. (If you have already added the marker, you can click on its name to edit it.)
2. In the **Marker Setup** dialog, select the following settings.



**Tip:** Users will be able to change the marker setup in view mode by clicking on the map legend.

To set up a geo point map colored and sized by measure

**Marker Layer** - Select the key or dimension to plot on the map (e.g., customer).

**Measure** - Click **Select a Measure** to add the measure, or select from the **Measure** drop-down menu if measures have already been added. measuremeasure

**Data Type** - Select values (This or Last), Diff, % Change, etc.

**Color** - Select from the following.

- Auto - Markers are colored in shades of teal based on data; uses the default number of equally-sized buckets (i.e., ranges); requires no additional setup.
- Static - uses the same color/shade for all points regardless of data. You can also select the opacity of static markers.
- Variable - (see the following instructions) Allows you to choose the bucket selection method, colors, opacity, number of buckets.

**Size** - Select from the following.

- Auto - Markers are sized based on data; uses the default number of equally-sized buckets; requires no additional setup.
- Static - uses the same point size for all markers regardless of data.
- Variable - (see the following instructions) allows you to choose the bucket selection method, pixel size, and number of buckets.

The screenshot shows the 'Marker Setup' dialog box. The 'Marker Layer' is set to 'Customer'. The 'Measure' dropdown is open, displaying a 'Select a Measure' button. The 'Data Type' is set to 'This'. Under the 'Color' section, 'Auto' is selected, showing a teal color gradient bar and '6 Buckets'. Under the 'Size' section, 'Auto' is selected, showing a size range of '10px to 30px - 6 Buckets'. At the bottom are 'Delete', 'OK', and 'Cancel' buttons.

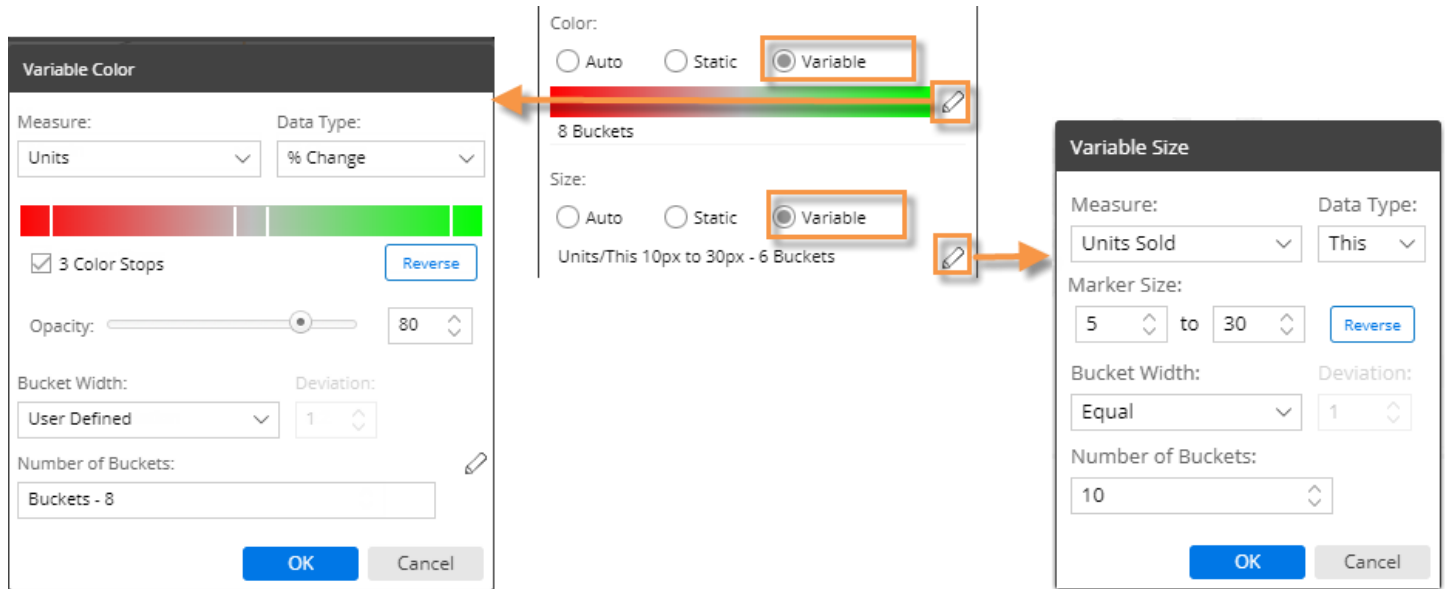
**Tip:** If you select variable for one option (color or size) and use Auto for the other, then the map will automatically use appropriate Auto settings that correspond to the variable settings (i.e. number and size of buckets will match).

## Variable (i.e., customized) point color and size options

The variable color and size options in Geo allow you to do any of the following:

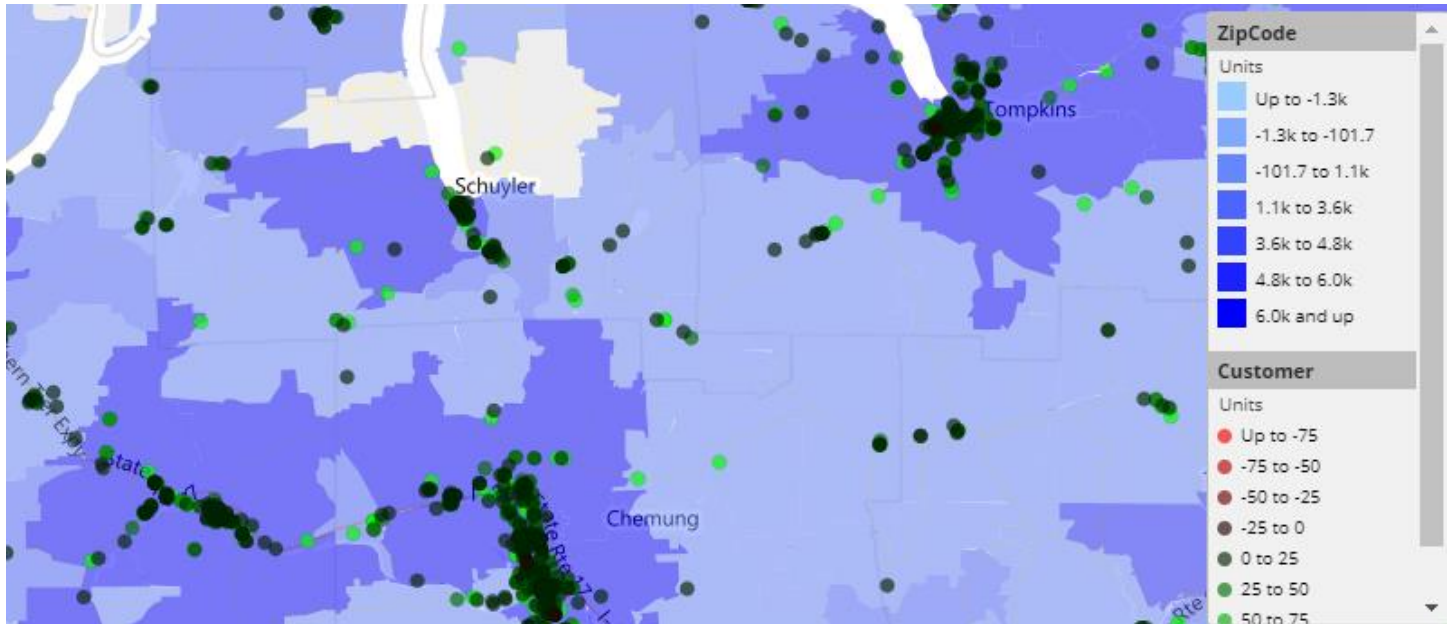
- Select the number of buckets (e.g., 8 ranges of percent change)
- Select how the buckets are determined (equal size, standard deviation, or user-defined)
- Select a color gradient (2 or 3 color stops)
- Select a level of opacity
- Select a range of point size in pixels
- Use different measures or data types for color and size (e.g., size based on values and color based on percent change)

To access these options, choose the variable option for color or size in the Marker Setup dialog.



## Geo area map colored by measure

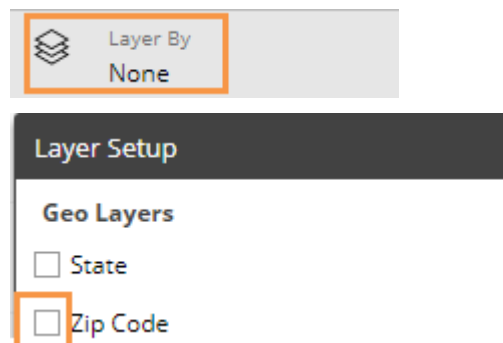
Geo maps can shade areas based on data totals, data averages, percent change, or difference, for each area within a layer. The map can overlay [points](#) (see page 114) on the colored areas, or you can view the area map without points. For example, view zip codes by units sold (darker areas have higher values).



To set up a geo area map colored by measure

1. After adding a Geo widget, access layer setup by clicking **Layer By** in the toolkit.
2. In the **Layer Setup** dialog, check the box of the layer for which want to color areas. Only pre-configured spatial layers are available for selection.
3. Select from the following options.

**Tip:** Users will be able to change the layer setup in view mode by clicking on the map legend.



To set up a geo area map colored by measure

**Measure** - Click **Select a Measure** to add the measure, or select from the **Measure** drop-down menu if measures have already been added.

**Data Type** - Select values (This or Last), Diff, % Change, etc.

To customize the colors, select from the following options.

- **3 color stops** - Optionally, use three color stops to define the lowest, average, and highest data points with a gradient in-between. Or, leave this option cleared to use a two-color gradient.
- **Colors** - Click each stop in the color bar to define the color. You can also click **Reverse** to reverse the colors.



- **Opacity** - Select the level of opacity for the layer. A low opacity value will allow you to see background layers; a high opacity value may hide other layers behind the marker layer, depending on the zoom level.

To customize the buckets (i.e., ranges represented by various shades), select one of the following from the **Bucket Width** menu:

- **Standard deviation** - centers the buckets around the mean.
- **Equal** - creates a defined number of equally-sized ranges between the minimum and maximum values.
- **User Defined** - allows you to create custom buckets.

# Custom groups

A custom group lets users create their own unique methods for organizing and comparing results based on collections. Each custom group can include any number of collections within an attribute. When the custom group is turned on as the "group by," the widget will roll up the results for each of its collections so that you can compare and investigate them. If a custom group is selected as a Group By for a widget, users can then select it to group the data just like regular Group By attributes. Custom groups are only available in widgets that compare multiple members.

**Comparative**

**Brands by Year Introduced**

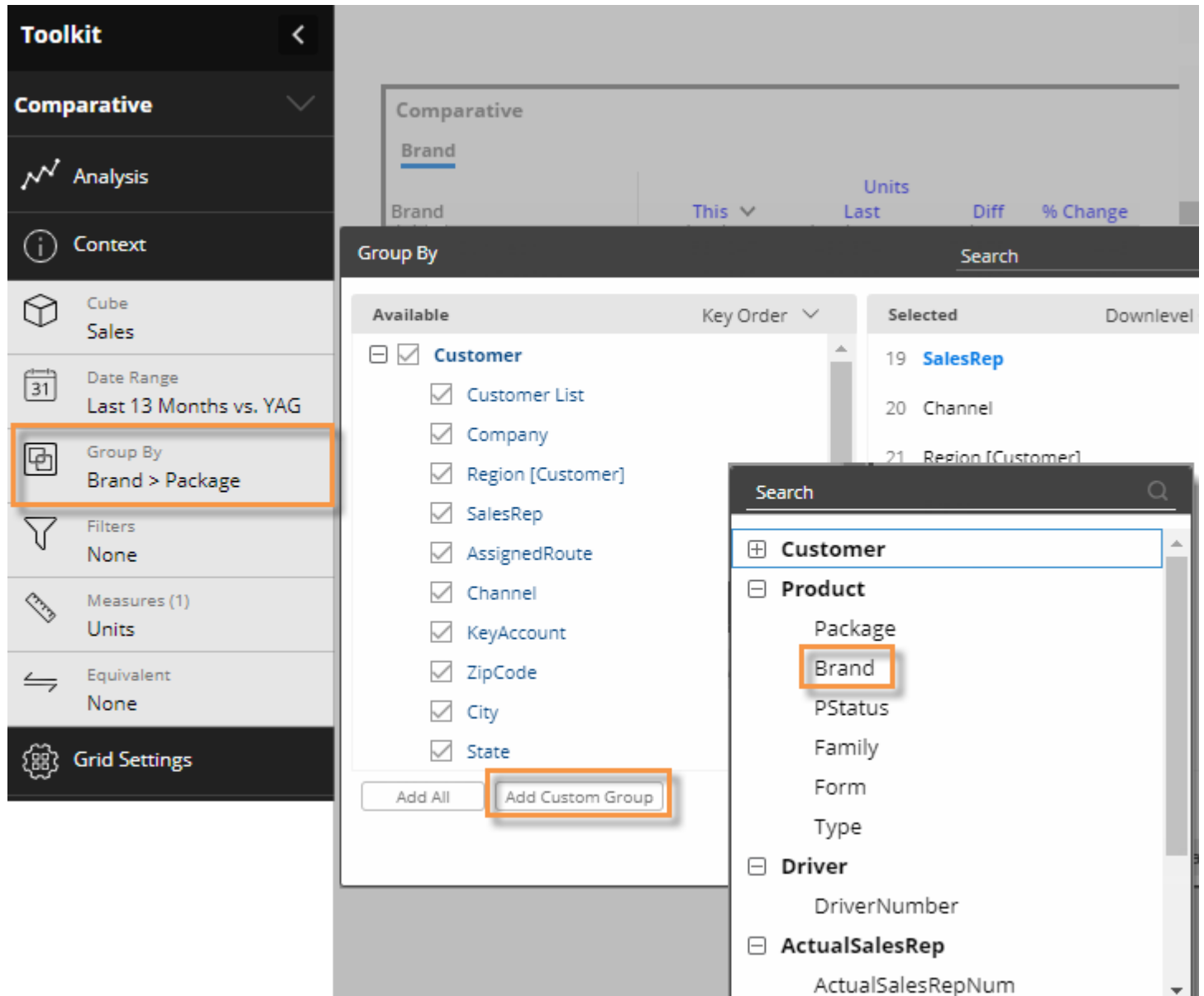
**Custom group (i.e., customized way of looking at the data)**

**Rolled-up results by collection**

Brands by Year Introduced	This ↓	Last	Diff	% Change
> <input type="checkbox"/> Old Brands 2017 and earlier	1,571,873			
✓ <input type="checkbox"/> New Brands 2018	28,507			
> Our New Diet	21,586			
✓ Our Orange	969	0	969	100.00
> Premix	883	0	883	100.00
> Post Lcl	46	0	46	100.00
> PostmxNT	27	0	27	100.00
> PremixSP	13	0	13	100.00
Package - 4 of 4				
> Blue Raspbry	878	282	596	211.35
> Cherry Ice	743	272	471	173.16
> StrwbrySizle	650	0	650	100.00
Total (2)	1,578,794	1,653,755	-74,961	-4.53

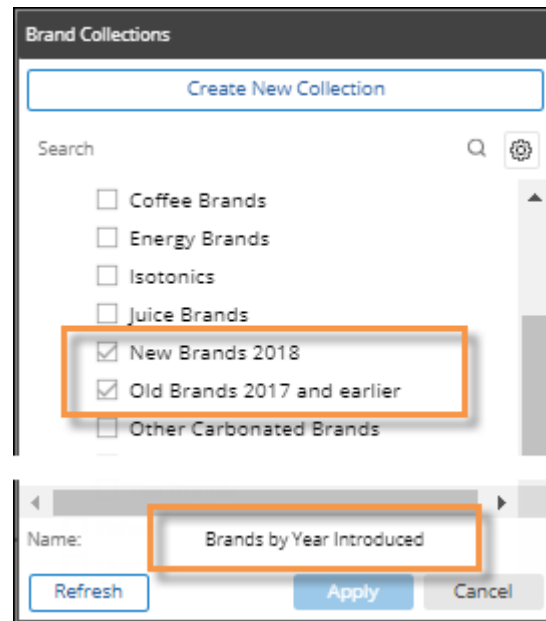
## Add a custom group

1. Click on the widget and then click on **Group By** in the toolkit.
2. In the dialog, click the **Add Custom Group** button.
3. Select the attribute (i.e., dimension) for which to create a custom group.



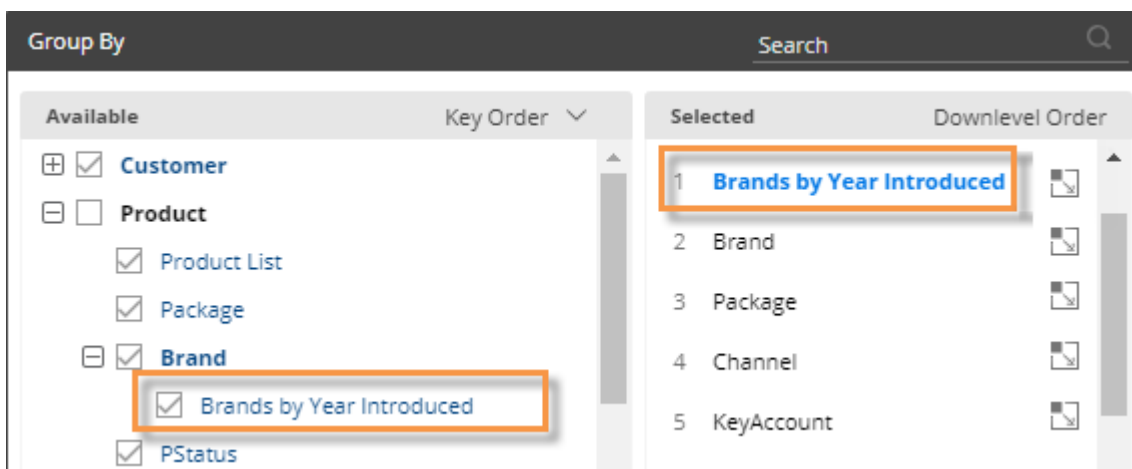


4. In the next dialog, checkmark all of the collections you want to compare and investigate in the custom group.
5. Type the name of the custom group at the bottom of the dialog. This name will appear as the "By" when the custom group is selected.
6. Click Apply.



## Turn on a custom group

The custom group is available underneath its attribute in the Group By area. You can select it and place it in the desired drill order just like any other dimension. This will also make it available in the breadcrumb path (if enabled) so that it can be selected in view mode.




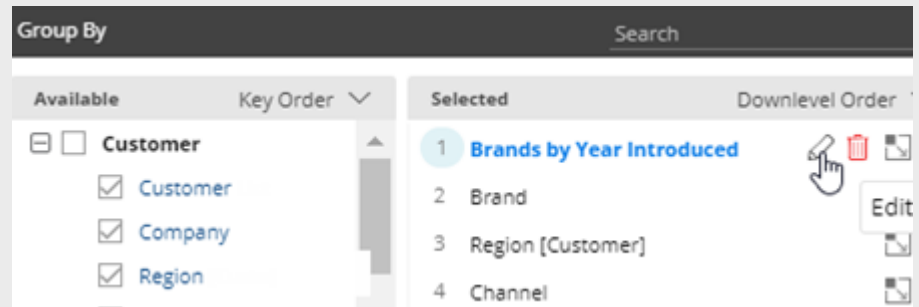
### Tips:

Custom groups are available across a dashboard and, therefore, can be used in other widgets within the same dashboard.

**Tips:**

If a collection changes (e.g., a new member is added to a collection), any custom groups that include the collection will be automatically updated.

If you want to switch out the collections in a custom group, you can edit it. Place the cursor over the custom group in the in the Group By area and click the  button.



Custom groups may contain overlapping members. Therefore, the total of a custom group is not necessarily the sum of all rows, but rather the total of all unique members.

## Record details

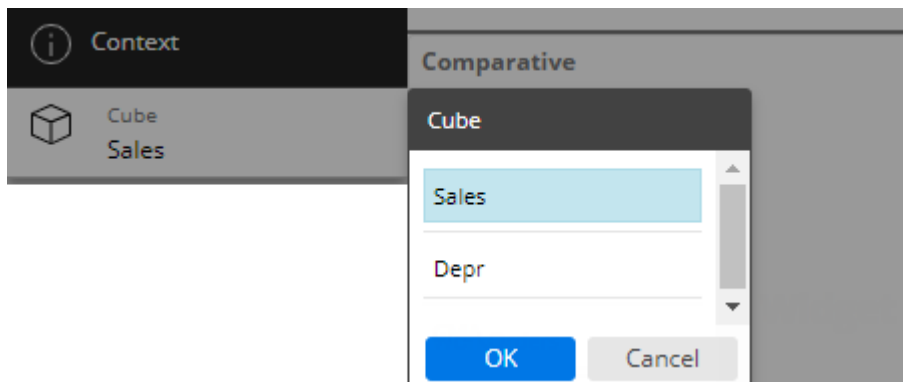
Salient Dashboards can show record-level data (e.g. invoices, work records, inventory, etc.) in a graph or grid. To see data at this level, group the data by "Record Details." The details show each individual record for the given context. Record details may include dates (single date for transactions or start/end dates for non-transactional data), measures, key descriptions, dimensions, and invoice numbers (if configured).

Record details may be used as the primary way of viewing the data (i.e., 1st By) or further down in the hierarchy to allow flexible drilling into record details. The details may be filtered like other views to show any subset of data records. Record details are the lowest-level data possible; therefore, you cannot drill or expand beyond record details.

Comparative					
SouthEast Area > <u>Record Details</u>					
Date	Invoice	CustName	ProductDescription	Units	Gross Revenue
1/2/2020	00506005	VILLAGE NORTH # 17	2LTR-8 Vernors	2	2
1/2/2020	00506005	VILLAGE NORTH # 17	12PK CN Our New Diet	8	8
1/2/2020	00506005	VILLAGE NORTH # 17	2LTR-8 Our New Diet	4	4
1/2/2020	00506005	VILLAGE NORTH # 17	1Ltr-15 Our New Diet	2	3
1/2/2020	00506008	OBECK INC # 3211	12PK CN Our Cola	408	418
1/2/2020	00506008	OBECK INC # 3211	12PK CN Our DietCola	204	209
1/2/2020	00506005	VILLAGE NORTH # 17	16PNR8 Our Cola	140	190
1/2/2020	00506008	OBECK INC # 3211	12PK CN Our Neon	102	104
1/2/2020	00506005	VILLAGE NORTH # 17	2LTR-8 Our Neon	80	87

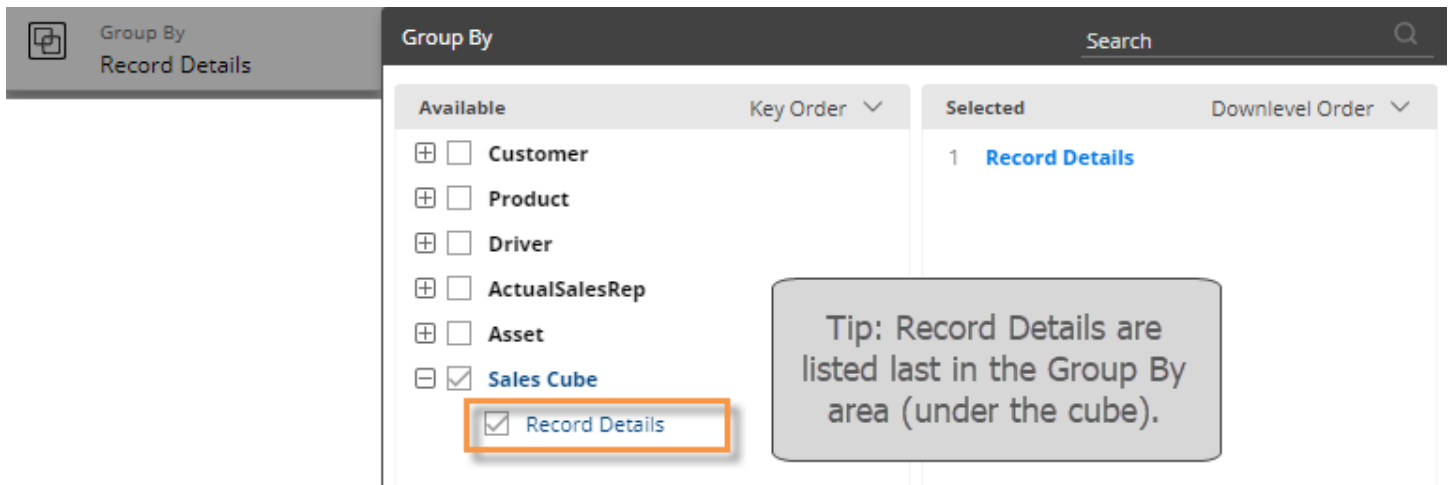
To build record details into a widget (in edit mode)

1. Add a comparative or mix widget if you haven't already. Record details are limited to these analysis types.
2. Optionally, switch to a [graph/grid format](#) (see page 85) that supports record details. These include:
  - Mix - grid only (If you attempt to group by record details in a mix graph, it will automatically switch to a grid.)
  - Comparative - grid or actual value graph (If you attempt to group by record details in a percent change graph, the widget will show a message as explained in the following tips.)

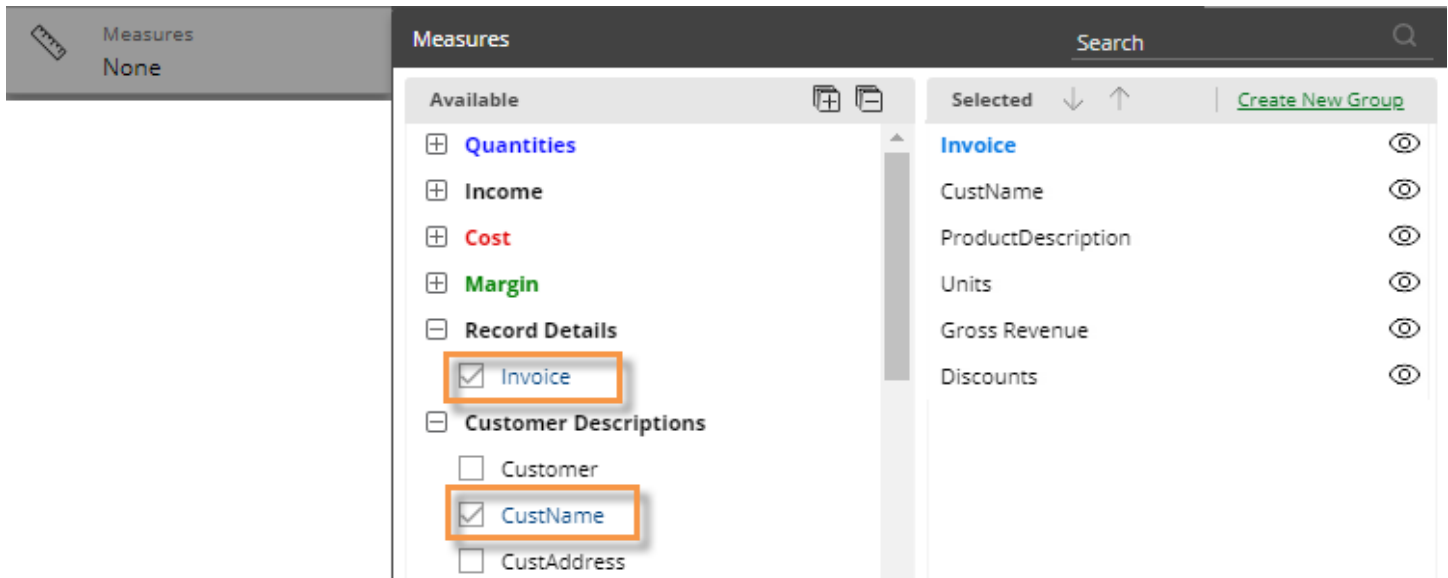


3. Choose the data cube for which to view record details. The cube represents the activity or source of the data records.

3. Group the data by Record Details—either as the 1st By to immediately see record-level details or further down to allow drilling to record-level details.

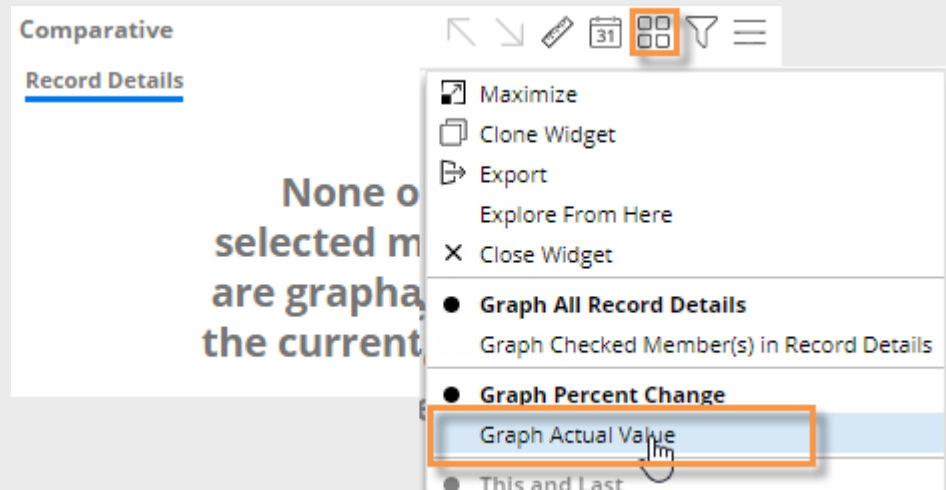


4. Add at least one measure. Available measures are limited to those in the data cube.
5. Optionally, add the invoice number. If configured, this is located under Record Details in the Measures area. You can rename this field if you wish.
6. Optionally, add descriptions and/or dimensions for the keys in the records.




### Tips:

If you see a message that none of the selected measures are graphable, make sure that you are not in a Percent Change graph. This graph type does not support record details. Instead, switch to a grid or an Actual Value graph.



The data cube must include at least one measure to allow viewing of record details in Salient Dashboards.

Records details are limited to one million records. If records exceed this limit, reduce the amount of data using filters or by changing the date range.


The auto-expand option  does not expand down to record details; instead, drill down, change the Group By, or expand items individually to reach record details.

Record details provide information similar to SIM's Line Item analysis (for transactional data) and Time in Place analysis (for non-transaction data).

# Reference lines

You can add custom lines to enhance data visualizations. Custom lines can show thresholds, important dates, and calculated values such as averages, totals, moving averages/totals, cumulative values, and projections.

To add reference lines

1. Go to [Visual Options](#) (see page 90) by clicking  in the graph legend (visible on mouseover) or, in edit mode, go to Visual Options under graph settings.
2. Click the Custom Reference Line button.
3. Select from the available settings, depending on what you want the reference line to show.

**Chart Visual Options**

Series ▾
Units (This)
☐ Show All

Custom Reference Line

**Custom Reference Line**

**Calculation Type**


Static Value
Aggregated Value
Linear Regression

**Aggregation Type**



Grand Total
Cumulative Total
Moving Total
Average
Cumulative Average
Moving Average

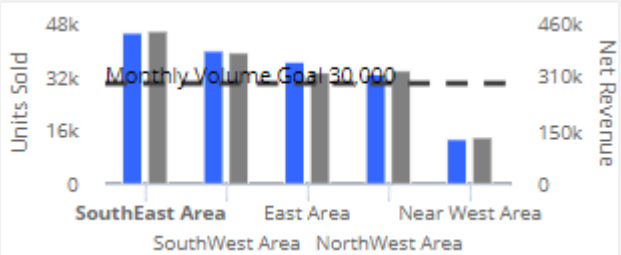
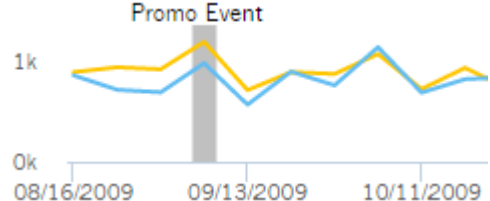

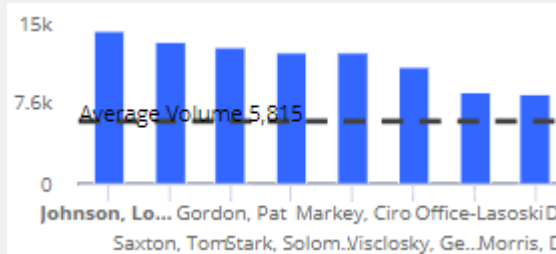

**Series Type**

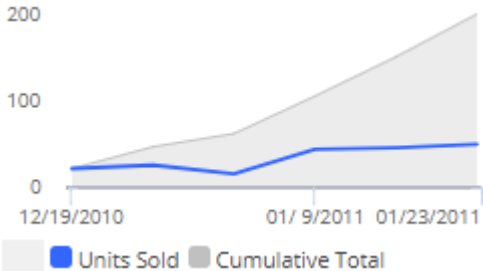
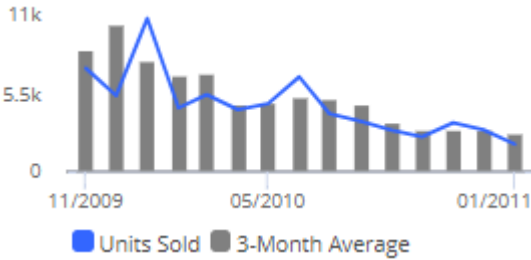
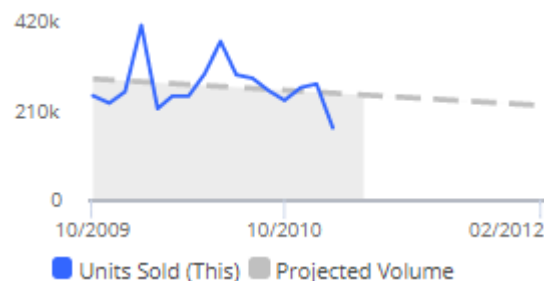
Line
Area

Measure: Units (This) ▾
Placement: In front of series ▾
Label: Average Monthly Volume 
☒ Display value after label

OK
Cancel

Reference line examples	Recommended settings
<p>Compare values to a fixed, user-defined threshold: Over time in time-series:</p> 	<p>Calculation Type - Static Value</p> <p>Axis - </p> <p>Y Value or From/To - Enter a static value. For a shaded area, enter the start value and the end value.</p>

Reference line examples	Recommended settings
<p>Compare values to a fixed, user-defined threshold: Across members in comparative:</p> 	<p>Calculation Type - Static Value</p> <p>Y Value or From/To - Enter a static value. For a shaded area, enter the start value and the end value.</p>
<p>Important dates on a time-series</p> 	<p>Calculation Type - Static Value</p> <p>Axis - </p> <p>X Value - Click the date control(s) and select a single date (for Line) or the beginning and ending dates (for Area).</p>
<p>Calculated average or total over multiple members (e.g., average volume per sales rep)</p> 	<p>Calculation Type - Aggregated Value</p> <p>Aggregation Type - Grand Total of all members, or Average of all members</p>
<p>Calculated average across dates (e.g., average volume per month)</p> 	<p>Calculation Type - Aggregated Value</p> <p>Aggregation Type - Average</p>


Reference line examples	Recommended settings
<p>Cumulative average or total over date range (e.g., cumulative volume over time)</p> 	<p>Calculation Type - Aggregated Value</p> <p>Aggregation Type - Cumulative Average or Cumulative Total</p>
<p>Moving averages or totals for a set number of prior dates; smooths data fluctuations</p> 	<p>Calculation Type - Aggregated Value</p> <p>Aggregation Type - Moving Average or Moving Total</p> <p>Duration - Select the number of prior dates to include in the calculation.</p>
<p>Calculated trends with future projections</p> 	<p>Calculation Type - Linear Regression</p> <p>Projection Duration - Select the number of future dates for which to project data based on a linear regression.</p>

# Navigation links

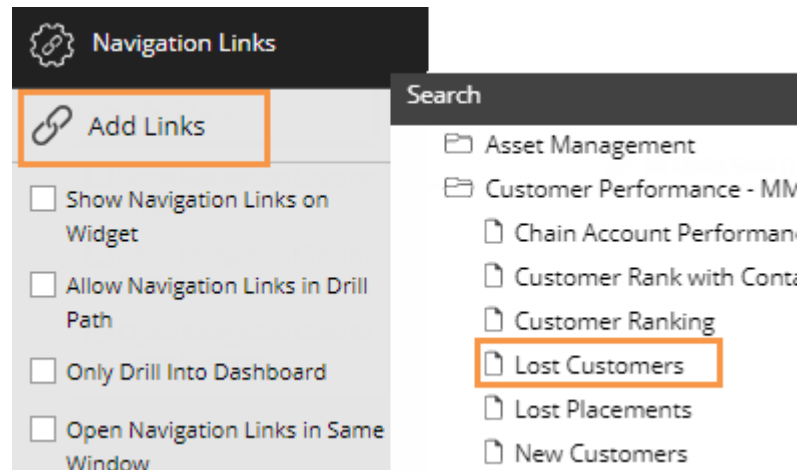
You can embed links to published dashboards within a widget to provide easy access to related dashboards. The links will be listed at the bottom of the widget or available via [custom drill-downs](#) (see page 130).

To add dashboard links to a widget

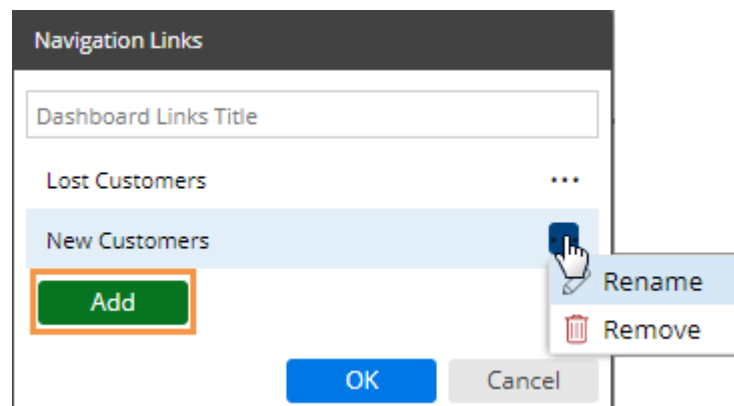
1. Click on a widget.
2. Click on Navigation Links in the toolkit.

(In explore mode, click on  **Advanced** to access Navigation Links.)

3. Click Add Links.
4. Select the dashboard to which you want to link. Only published dashboards are available for dashboard links.



5. To link to multiple dashboards, click Add and select additional dashboards. If you wish, you can enter a custom name for the group of dashboard links (defaults to "Dashboard Links" if not specified).
6. If you want to change the display name of any dashboard link, click the ... button and select **Rename**. This assigns a temporary display name but does not change the actual dashboard name.
7. Click OK.

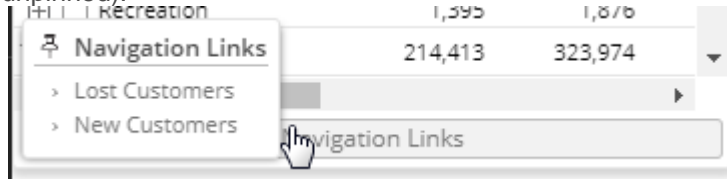




To add dashboard links to a widget

8. Under Navigation Links in the toolkit, select from the following options:

**Show Navigation Links on Widget** - Check this box to show the links at the bottom of the widget (pinned or unpinned).



**Allow Navigation Links in Drill Path** - Check this box if you want to make the links available via a [custom drill-down](#) (see page 131). Otherwise, leave this box cleared.

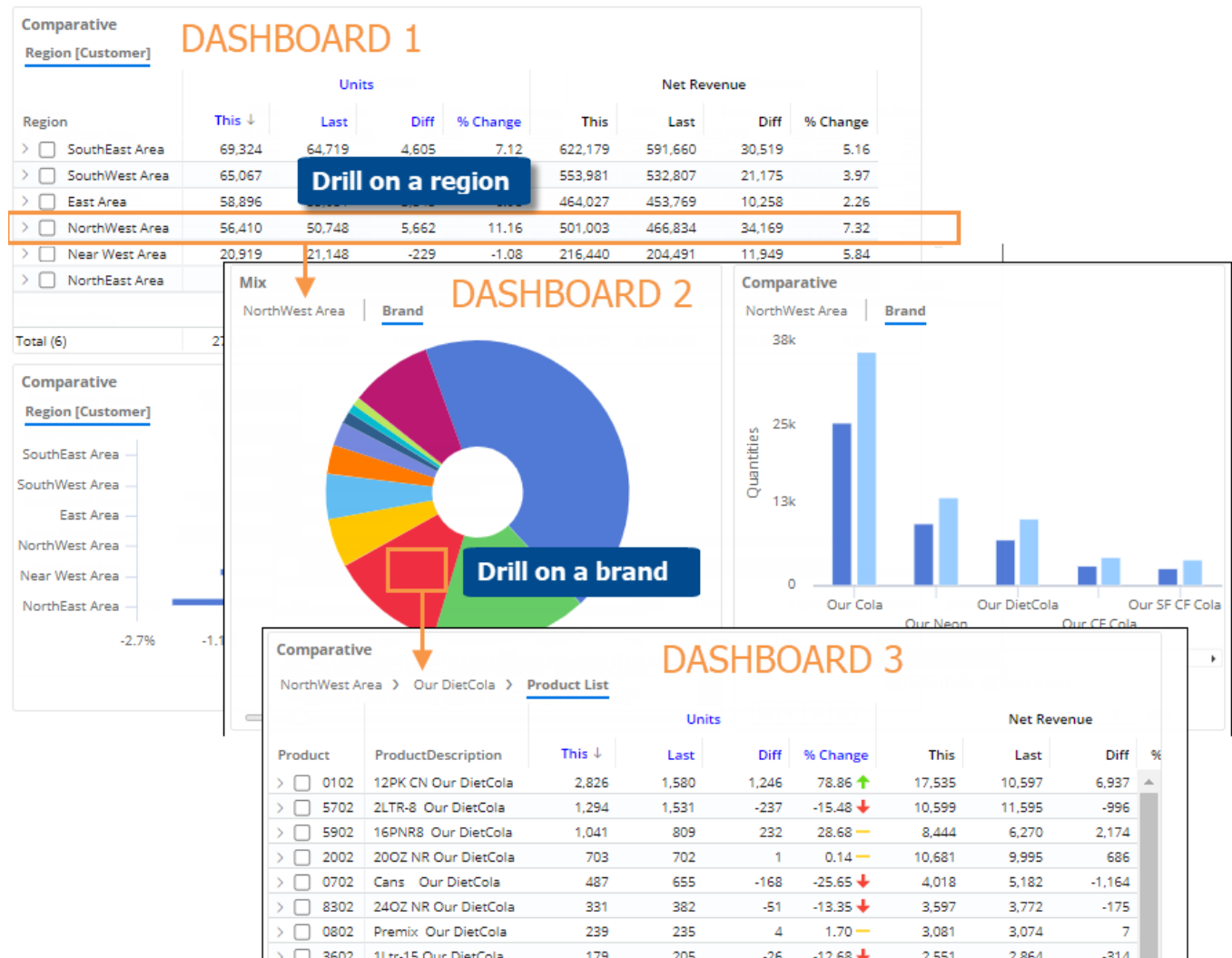
**Only Drill Into Dashboard** - This option is used with Allow Navigation Links in Drill Path (i.e. custom drill-down) to control whether the user can go directly to the next dashboard upon drilling (check this option) or must first drill through all By levels in the widget (clear this option).

**Open Navigation Links in Same Window** - Check this box to open the linked dashboards in the same window as the original dashboard, or clear to open in a new window.

# Custom drill-downs

A custom drill-down is a set of preconfigured dashboards through which the user can drill. The custom drill path can include a variety of widget types and display settings to optimize the investigative process while allowing the user to select the item(s) on which to drill.

Custom drill-downs must be [created](#) (see page 131) in edit mode by a Dashboard Designer. All dashboards in a custom drill-down must be published.



## Create a custom drill-down

1. Create, configure, and publish a dashboard to use for each "step" in the drill-down. Within each dashboard, make sure you select and save the appropriate widget type(s), By dimensions, date range, display settings, etc. Consider the following when building the dashboard steps.

**Filters** - When the user drills, the selected member will automatically be used as a filter in the next dashboard; therefore, you do not need to manually add the filter for the "drill" attribute in subsequent dashboards. In addition, the following filters will automatically be carried forward from the previous dashboard: downlevel filters, widget and workspace filters (except those that use saved collections), and selections from filter widgets. Collections that are used as filters will not be carried forward to the next dashboard automatically; therefore, you may want to manually apply those prior to saving.

**By** - Configure one or more Group By dimensions to determine what should be available for By and filter selection. Depending on the following settings (Step 2v), you can require users to drill through all the configured By dimensions before going to the next dashboard, or skip the Bys and go straight to the next dashboard.

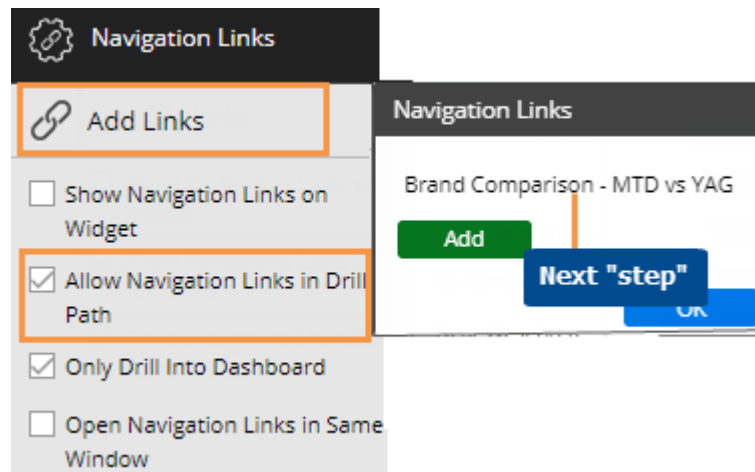
2. Open the first dashboard or "step" and set up the navigation link(s).

i. Click on a widget for which you want to set up custom drill-down. The widget must compare members.

ii. Click on Navigation Links in the toolkit and then click **Add Links**.

iii. Click **Add** and then select the dashboard to use as the next step. You can add multiple dashboards if you want the user to be able to select which one to go to when they drill.

iv. Under Navigation Links, check the **Allow Navigation Links in Drill Path** box.



v. Choose an option for handling additional By levels (2nd By, 3rd By, etc.) in the widget. To go straight to the next dashboard (i.e. skip Bys) when the user drills, check **Only Drill into Dashboard**. To drill through all By levels within the widget before going to the next dashboard, clear this option.

vi. Check or clear the option to open the link in a same window. If cleared, this option will open the link in a new tab or browser window.

vii. Repeat for all widgets from which custom drill-down should be allowed.

3. Save changes to the dashboard.




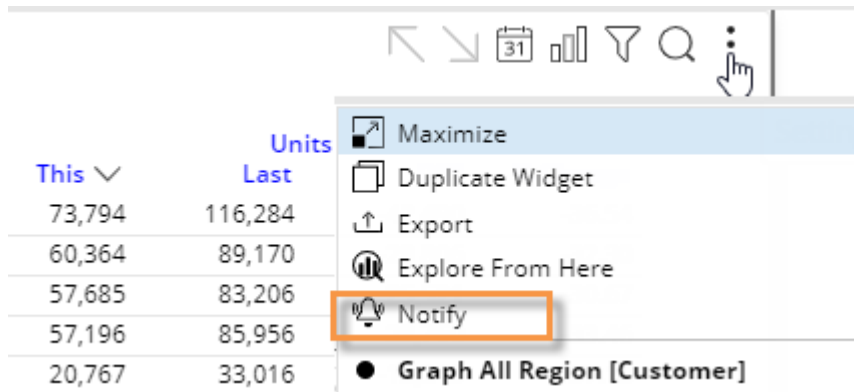
4. Repeat Steps 2 and 3 for each dashboard used as a step in the drill-down (except the last step)—specifying the next step and saving each one.
5. Share the dashboard of the first step with users.

# Notify

Salient Dashboards can send automated notifications based on business rules and dashboard data. Messages may be sent as emails and/or notifications to mobile devices (Salient mobile app required). Upon receiving a notification, a user can quickly go the underlying data in the associated dashboard: tapping on a mobile notification will open the dashboard in the Salient mobile app; clicking on an email notification will open the dashboard in the browser-based dashboard application. Users can interact with the data and investigate further in either application. Notifications may also include the data itself embedded in the message or as an attachment (email only).

You can create and manage notifications in the Salient Dashboards browser-based application if you belong to a user group with rights to save notifications.

1. Open the dashboard containing the widget on which the notifications will be based. The dashboard must meet the following requirements.
  - The widget must be comparative or share trend. The grid format of the widget must be standard.
  - The widget should include the measures and subcolumns (e.g., This, Last, Diff, % Change) to be used in the notification criteria. (The measures can be hidden.)
  - The widget should group the data by the attribute to be reported in the notifications. For example, if the Group By is package, the notifications will report packages.
  - The widget should use the date range(s) on which to report. In general, the date range should move over time (i.e., not fixed) so that notifications continuously look at new data.
  - To filter on the same subset of data for all recipients, apply filters prior to saving the dashboard.
  - To apply custom filters based on recipient, apply a filter in the Recipients area of the notification setup as explained below. Password collections may also be used to filter based on user account.
  - The widget and its data should be available to the intended recipients. Otherwise, the recipients will not have the necessary rights and errors will occur.
  - The dashboard should already be saved. If not, you will be prompted to save it in the next step. In general, the dashboard should be saved in a global folder. Notifications for a private dashboard can only be sent to the associated user account.
2. Click the  button in the upper-right corner of the widget and select **Notify**.
3. In the next screen, enter the following settings that determine what notifications will be sent, how and when they will be sent, what they will include, and who will receive them.



This	Last
73,794	116,284
60,364	89,170
57,685	83,206
57,196	85,956
20,767	33,016

- Maximize
- Duplicate Widget
- Export
- Explore From Here
- Notify**
- Graph All Region [Customer]

The screenshot shows the 'Create/Edit Notify Rules' interface. It includes a 'Name' field with the value 'Regions with volume loss', a 'Category' dropdown, and a 'Currency Table' dropdown. A 'Time Frame' dropdown is open, showing options like 'Aggregate', 'All Periods', 'Consecutive Periods', and 'Any Period'. The 'Conditions' section has a toggle for 'Conditions' and buttons for 'AND' and 'OR'. The 'Frequency' section has a 'Frequency' dropdown and a 'Schedule' dropdown. The 'Delivery Method' section has buttons for 'Mobile', 'Email', and 'Mobile & Email'. The 'Message' section has a 'Subject' field and a 'Message' field. The 'Email template & attachments' section has a 'Template' dropdown and checkboxes for 'Separate messages for mobile and e', 'Email data export (.xls)', and 'Email PDF of dashboard'. The 'Recipients' section has a table with columns 'First Name', 'Last Name', and 'Username'.

**General settings**

**Conditions (rules and groups)**

**Timeframe options (share trend data only)**

**Frequency**

**Delivery method**


**Fine-tune frequency & content**

**Message subject & body**

**Email template & attachments**

**Recipients**


Setting	Explanation
Name	Enter a unique name for the notification.
Category	The category controls who can access and edit the notification definition, but not who can receive the notifications.
Currency	If the dataset has multiple currency tables, select the currency on which to base the notifications.

Setting	Explanation
Conditions (optional)	<p><i>Conditions off:</i></p> <p>To always send the notification without basing it on conditions, turn off the <b>Conditions</b> control:</p> <p><b>Conditions</b> </p> <p>With this option off, the notification will function like an automated report. Note that you may also want to turn off <b>Send when members update</b> and <b>Show only new members</b> under Delivery Method.</p> <p><i>Conditions on:</i></p> <p>To use conditions to control when notifications are sent and what they include, leave this option on and enter test condition(s). You can enter one or more rules and, optionally, group them <a href="#">as explained below</a> (see page <b>Error! Bookmark not defined.</b>) to create complex logic statements. For each rule:</p> <ul style="list-style-type: none"> <li>• Select the measure and subcolumn (This, Last, Diff, % Change) to test.</li> <li>• Select an operator (e.g., less than).</li> <li>• Choose what to compare against, which can be a static value, another measure, or budgets for the test measure (if added to the widget).</li> <li>• When multiple rules/groups are used, choose <b>AND</b> or <b>OR</b> to control which rules must be met.</li> </ul> <p>In general, notifications are sent when data meets the conditions. You can fine-tune frequency and contents using options in the Delivery Method section.</p>
- Timeframe (only for share trend with conditions on)	<p><i>For share trend data only:</i> Select a timeframe option to determine which value(s) within the date range will be compared to condition(s) for each member.</p> <ul style="list-style-type: none"> <li>• <i>Aggregate</i> - Use the aggregate value over the entire date range.</li> <li>• <i>All periods</i> - Evaluate all individual units of time (e.g., all weeks) in the date range. <u>All</u> units of time must meet criteria to send a notification.</li> <li>• <i>Consecutive periods</i> - Consider values for consecutive, individual units of time in the date range. Enter the number of time periods to evaluate (e.g. increasing values over three months).</li> <li>• <i>Any period</i> - Send notifications if <u>any</u> individual unit of time in the date range meets criteria (e.g. any week over 100).</li> </ul> <p><i>For comparative data:</i> The test will always aggregate data over the date range. No timeframe selection is required.</p>
Frequency	<ul style="list-style-type: none"> <li>• Choose a schedule for checking the data and sending notifications if conditions are met. Select a preconfigured schedule from the drop-down. Or, create your own schedule by checking <b>Advanced</b> and entering a cron expression that is compatible with Quartz.</li> <li>• Choose the start and end dates for the notifications. If you omit the end date, notifications will continue indefinitely.</li> </ul>


Setting	Explanation
<p>Delivery method</p> <p>- Mobile, email, or both</p>	<p>Choose the method of delivery:</p> <ul style="list-style-type: none"> <li>• <b>Mobile</b> - Send notifications to recipients' mobile devices. The Salient mobile app must be installed on recipients' devices and notifications must be allowed. Tapping the mobile notification will go to the underlying data in the mobile app.</li> <li>• <b>Email</b> - Send emails to recipients. The email addresses must be defined for recipient user accounts in the Administrator's Utility for UXT. The email message can include attachments and/or link to the underlying data in a browser-based dashboard.</li> <li>• <b>Mobile &amp; Email</b> - Send to mobile devices <u>and</u> email as described above. When using both methods, you can optionally check the <b>Separate messages for mobile and email</b> box (below the message and template section) to use different messages (e.g., a shorter message for mobile and a longer, more detailed message for email).</li> </ul>
<p>- Settings for fine-tuning message frequency and content</p>	<p>Use the following options to adjust how often messages are sent and what they contain. <u>If conditions are off, you may want to clear these options to ensure that notifications are sent according to your preferred frequency regardless of whether the list of returned members changes between runs.</u></p> <ul style="list-style-type: none"> <li>• <b>Send if no members pass</b> -  If conditions are on, this option will send notifications even if no members pass the test conditions. If clicked, a notification with zero passing members will lead to the original widget (i.e. will show all members).  If conditions are off, this setting does not affect notifications.</li> <li>• <b>Send when members update</b> -  This option will only send notifications if the list of returned members changes from the previous run. The resulting widget (if opened by clicking the notification) will show all members returned for the current run. The exception is a notification that returns zero members with "Send if no members pass" also on; in this case, the resulting widget will show the original widget without conditions applied.</li> </ul> <p>OR:</p> <ul style="list-style-type: none"> <li>• <b>Show only new members</b> - Like the previous option, this option will only send notifications if the list of returned members changes from the previous run. The resulting widget (if opened by clicking the notification) would show <u>only</u> new members in the current run that did not pass in the previous run. If this option is selected, the previous options are not available.</li> </ul>

Setting	Explanation
Message - Subject and message	<p>Enter the notification subject and message, or leave as is to use the default settings. These fields can include a combination of text and variables. Click the <b>Add Quick Expression</b> button to insert any of these variables into the message. You may also use these variables in the subject by copying them or manually typing them.</p> <ul style="list-style-type: none"> <li>• <code>{{dashboardName}}</code> - The name of the dashboard on which the notification is based.</li> <li>• <code>{{dashboardUrl}}</code> - The URL to open the dashboard in the Salient Dashboards browser-based application.</li> <li>• <code>{{dashboardMobileUrl}}</code> - The URL to open the dashboard in the Salient mobile app.</li> <li>• <code>{{widgetTitle}}</code> - The title of the widget on which the notification is based.</li> <li>• <code>{{firstByKey}}</code> - The key associated with the 1st By (e.g., customer).</li> <li>• <code>{{firstByDimension}}</code> - The 1st By dimension or key.</li> <li>• <code>{{numMatches}}</code> - The number of 1st By members that meet the test criteria or total members if conditions are off.</li> <li>• <code>{{matchedMembers}}</code> - A listing of the 1st By members that meet the test criteria or all members if conditions are off.</li> <li>• <code>{{embeddedGrid}}</code> - A grid showing the data returned by the notification. If conditions are on, the grid shows data that meets the test criteria. If conditions are off, the grid includes all data for the widget. The grid is limited to the maximum number of rows defined in the configuration files (default of 50).</li> <li>• <code>{{totalRowGrid}}</code> - The total row from the grid (e.g., total of regions).</li> <li>• <code>{{averageRowGrid}}</code> - The average per row for the grid (e.g., average per region).</li> <li>• <code>{{totalAverageRowGrid}}</code> - The total row and average per row.</li> <li>• <code>{{totalColumnGrid}}</code> (for Share Trend only) - Information about the total column in the grid (i.e., total across all dates), including the average per row and total row.</li> <li>• <code>{{averageColumnGrid}}</code> (for Share Trend only) - Information about the average column in the grid (i.e., average across all dates), including the average per row and total row.</li> <li>• <code>{{totalAverageColumnGrid}}</code> (for Share Trend only) - Information about the average column and total column, including the average per row and total row.</li> </ul> <p>For email messages, a text editor allows you to apply formatting.</p>
Template (for email only)	<p>Select a template to control the appearance of the email message.</p> <p>To create or edit templates, click the <b>Manage Templates</b> button to go to the Admin Portal. (This feature requires Dashboard Designer rights).</p>
Attachments (for email only)	<p>Optionally, check either or both of the following boxes to include attachments:</p> <ul style="list-style-type: none"> <li>• <b>Email data export</b> - XLSX file containing the data returned by the notification. If the notification includes conditions, this will only include the passing members. Click <b>Setup</b> to choose export options.</li> <li>• <b>Email PDF of dashboard</b> - PDF file of the original dashboard. Click <b>Setup</b> to choose options.</li> </ul>



Setting	Explanation												
Recipients	<p>Click <b>+ Add Recipients</b>.</p> <p>Select recipients from a list of dataset users. You can search for a user at the top of the window.</p> <p>(By default, the notification creator is a recipient.)</p> <p>The recipients should meet the requirements for the selected delivery method(s):</p> <ul style="list-style-type: none"><li>• Mobile - Salient mobile app installed with notifications allowed</li><li>• Email - email address defined in the Administrator's Utility</li></ul> <p>To filter the data for a recipient, add the recipient and then click in the Filters column. You can then create a filter (i.e., choose members) or apply a collection (classic or dynamic ). For example, you could send each sales representative his or her own data, filtering out data for other sales reps.</p> <table><tr><th></th><th>Recipients</th><th>Filters</th></tr><tr><td>×</td><td>(JBAIRD)</td><td><b>Customer.SalesRep:</b> Baird, Jim</td></tr><tr><td>×</td><td>(LJOHNSON)</td><td><b>Customer.SalesRep:</b> Johnson, Louise</td></tr><tr><td>×</td><td>(PGORDON)</td><td><b>Customer.SalesRep:</b> Gordon, Pat</td></tr></table>		Recipients	Filters	×	(JBAIRD)	<b>Customer.SalesRep:</b> Baird, Jim	×	(LJOHNSON)	<b>Customer.SalesRep:</b> Johnson, Louise	×	(PGORDON)	<b>Customer.SalesRep:</b> Gordon, Pat
	Recipients	Filters											
×	(JBAIRD)	<b>Customer.SalesRep:</b> Baird, Jim											
×	(LJOHNSON)	<b>Customer.SalesRep:</b> Johnson, Louise											
×	(PGORDON)	<b>Customer.SalesRep:</b> Gordon, Pat											

### Tips:

To test the notification, go to Manage Notify Rules and click . For a test run, the notification will only be sent to the user who tests it.

Leave the **Active** button on to immediately activate the notification, in which case it will run at the next scheduled time, or turn this option off to leave the notification deactivated (e.g., if you are not finished setting it up).

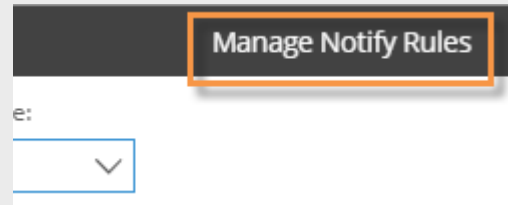
The following methods allow you to reuse settings from other notifications rather than entering settings from scratch:

- Import a previously-saved notification for the same or another dashboard. You must first export a notification to a .json file (in the notification management area).
- Create another notification similar to the previous notification. This method only works if you immediately create a new notification for the same dashboard. To use this method, check the **Create Another** box at the bottom of the Create/Edit Notify Rules. This will leave the dialog open, allowing you to change the name and other properties as desired.

A notification will run according to the timezone of the user who created it.

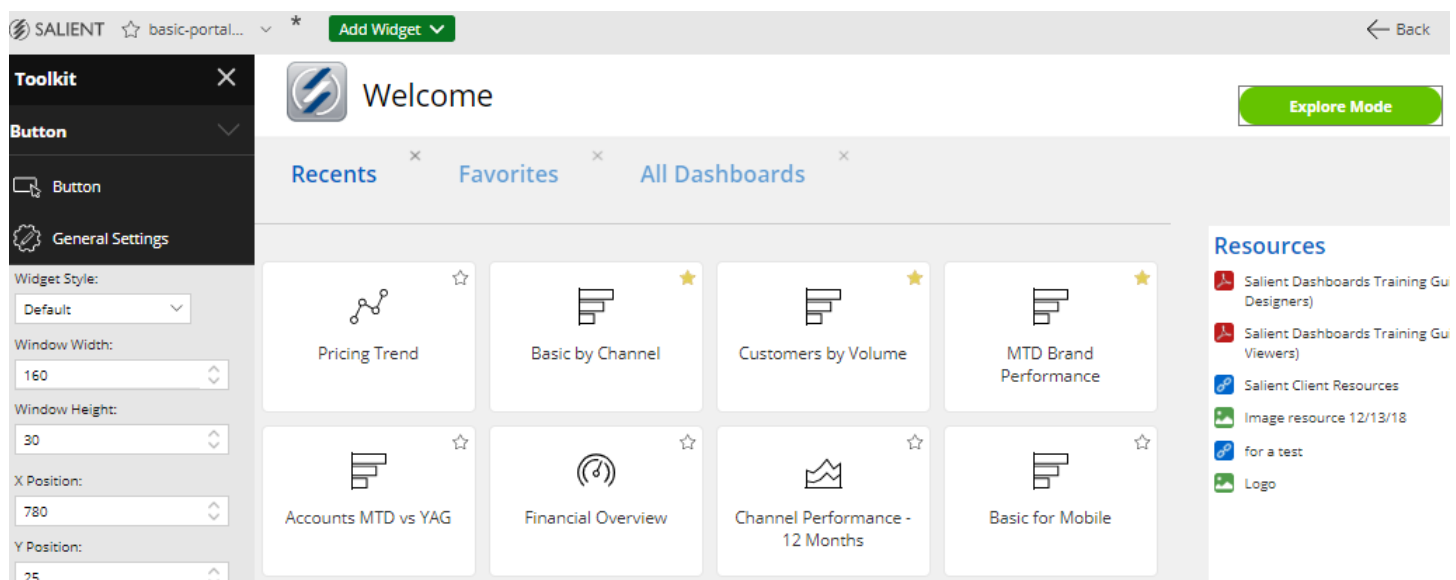
**Tips:**

To edit and manage existing notifications and see notification history, click Manage Notify Rules at the top of the dialog.



## Customize the portal dashboard

The dashboard installation comes with a portal dashboard to provide users with easy access to dashboards. The default portal dashboard opens automatically at initial login, and may be accessed through the Salient button in the upper-left corner of the screen. You can configure and choose a different portal dashboard if you wish.



To customize a portal dashboard

1. Start with a blank dashboard or the default portal dashboard.
2. Go to edit mode.

3. Add widgets to provide links to commonly-used dashboards, include other information, and enhance the appearance of the portal. The following widgets are useful when creating portals:

[Dashboard widgets](#) (see page 27) - provide a set of links to other dashboards, such as recent dashboards, favorite dashboards, all dashboards, published dashboards, or a custom assortment of dashboards.

[Button widgets](#) (see page 25) - allow users to quickly go to a URL, open a dashboard, change the date, or filter the current dashboard. To create a button that goes to another mode (i.e., explore or edit mode), select the URL option and enter the appropriate URL (see below).

[Tab group widgets](#) (see page 19) - organize widgets and maximize screen space by providing a tabbed or carousel view.

Knowledge Manager widgets - shows the general overview or general resources from Knowledge Manager.

[Text/HTML](#) (see page 23), [Line](#) (see page 26) and [Image](#) (see page 29) widgets - enhance the appearance of the dashboard and provide content.

4. When you are finished, [save the dashboard](#) (see page 99).
5. To make it the default portal for users:
  - i. Export the dashboard to an sdm file. Do not use the name StandardPortal.sdm.
  - ii. Open the Admin Portal, go to Default Dashboards (under System Settings), upload the sdm file, and then select it as the portal dashboard (requires Dashboard Designer licensing).

## Buttons for dashboard modes

You can configure a button to go to a specific mode in Salient Dashboards. Add the button, select the URL action, and enter the URL. At minimum, the URL should include the following parameters after the sdm.aspx page location:

- view - Enter one of the following to control the mode: viewer for view mode; explore for explore mode; or sdmView for edit mode.
- dashboardId - Enter the dashboard ID. To determine the ID of a specific dashboard, [view its URL](#) (see page 101) and locate the dashboardId in the URL. For a blank dashboard in edit mode (view=sdmView) or the default dashboard for exploring (view=explore), the dashboardId should be 00000000-0000-0000-0000-000000000000. A URL can open a specific dashboard in explore mode only if the dashboard was saved in explore mode.

*Examples:*

`http://mycompany.com/SDM.aspx?dashboardId=00000000-0000-0000-0000-000000000000&view=sdmView`

This URL would open a blank dashboard in edit mode.

`http://mycompany.com/SDM.aspx?dashboardId=00000000-0000-0000-0000-000000000000&view=explore`

This URL would open the default dashboard for exploring (e.g., comparative widget) in explore mode.

`http://mycompany.com/SDM.aspx?dashboardId=6e6ff843-c167-499a-ad6c-b55152391ddb&view=viewer`

This URL would open the dashboard with the given dashboard ID in view mode.

`http://mycompany.com/SDM.aspx?dashboardId=b382a462-9a2c-46d9-976d-b1feef821c39&view=explore`

This URL would open the dashboard with the given dashboard ID in explore mode if the dashboard was saved in explore mode. Otherwise, the dashboard will open in view mode.


# Custom views

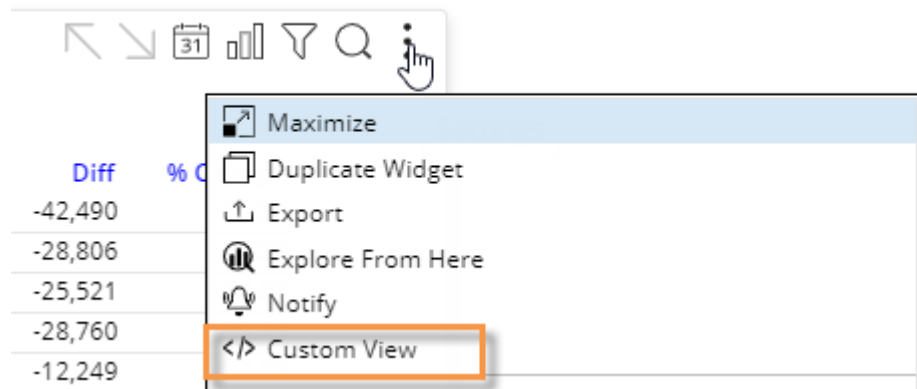
You can build custom visualizations based on the data in a widget. The Salient Dashboards installation provides some custom view templates, such as an image overlay and scaling text widget, as shown in the following [examples](#) (see page 142). You can customize these templates and/or build your own custom views.

Custom views will update like other widgets when a user makes changes, such as adjusting the date range, changing the Group By, and filtering. In addition, users can switch to a grid to see the underlying data. You may want to lock down some functions to prevent data that does not make sense for a given custom view.


To build a custom view (in edit mode)



1. Add a widget and configure it to include the data for the custom view by choosing the analysis type, adding a measure(s), and selecting the Group By. Data will be limited first page of data for the 1st By dimension (i.e., cannot expand data).

2. Click  in the upper-right corner of the widget and select **Custom View** from the menu.



3. In the editing window, enter code to define the custom visualization. You can start with any of several predefined templates (if configured), or create a custom view from scratch.

To start with a predefined template, click  at the top of the window and choose the template. This will populate the editing window with the template code, which you can customize further. The comments at the top show the requirements for the template, including supported analysis types and measure(s).

Both HTML and JavaScript may be used. In addition, you can query and select data using a simple, built-in scripting language similar to C#. To display data, enclose it in the print expression `|#|`. To access a list of available values, open the JSON panel by clicking  at the top of the editing window. You can then click  to insert any values from the underlying grid. The following libraries are built into Salient Dashboards, so that you may use them without importing them: some Highcharts modules (bullet, exporting, funnel, heatmap, solid-gauge, treemap), JQuery, Open Sans font style.

4. When you are finished, check the **Enable Custom View** box at the bottom of the screen, and click **OK**. If you do not check this box, the custom view will not display.

The screenshot shows the 'Custom View' editor interface. The main text area contains a template code snippet. Annotations with blue boxes and orange lines point to specific features:

- Templates**: Points to the code editor area.
- Maximize**: Points to the maximize button in the top right corner.
- Empty print expression**: Points to the `data` property in the code.
- JSON panel**: Points to the JSON configuration panel on the right.
- Turn on custom view**: Points to the 'Enable Custom View' checkbox at the bottom left.

The code in the editor is as follows:

```

1
2 <!--
3 Template Name: Scaling Text Widget
4 Description: A simple widget with scaling text using a calculation for pe
5 from the grid totals.
6 Minimum Selections: 1 Measure, 1 Group By Selected, a 2 date comparison (this vs last)
7 Analysis Types: Comparative, Multi Comparative, Trend (May work with other types by changing the
8 selected values)
9 -->
10
11 |
12   var thisSum = 0;
13   var lastSum = 0;
14   foreach(var row in gridTable.Rows) {
15     thisSum = thisSum + Utils.ParseNum(gridTable[row,1].Value);
16     lastSum = lastSum + Utils.ParseNum(gridTable[row,2].Value);
17   }
18
19 <div class="widgetContainer">
20   <div class="typeContainer">
21     |#Math.Round((thisSum/lastSum - 1) * 100, 2)|%
22   </div>
23   <div class="descriptionContainer">
24     <div class="dataLine">
25       <b>|#thisSum|</b> vs. Last
26     </div>
27     <div class="dataLine dataLine_lighter">
28       <b>Last |#lastSum|</b>
29     </div>
30   </div>
31 </div>

```

The JSON panel on the right shows the configuration for the widget, including properties like `ByName`, `Columns`, `HeaderMap`, and `mid_m0`.

**Tip:** If a template does not display as expected (e.g., blank or error), make sure the widget meets the requirements in the notes at the top of the template code.

## Custom view examples

The Salient Dashboards installation includes the following custom view templates. Your organization can modify these templates and/or provide additional templates. In addition, you can build your own custom view.

Scaling text widget

# -32.95%

**273537** vs. Last  
**Last 407952**

Simple sentence

SouthEast Area (73794) is less than  
SouthWest Area and NorthWest Area  
combined (118049)

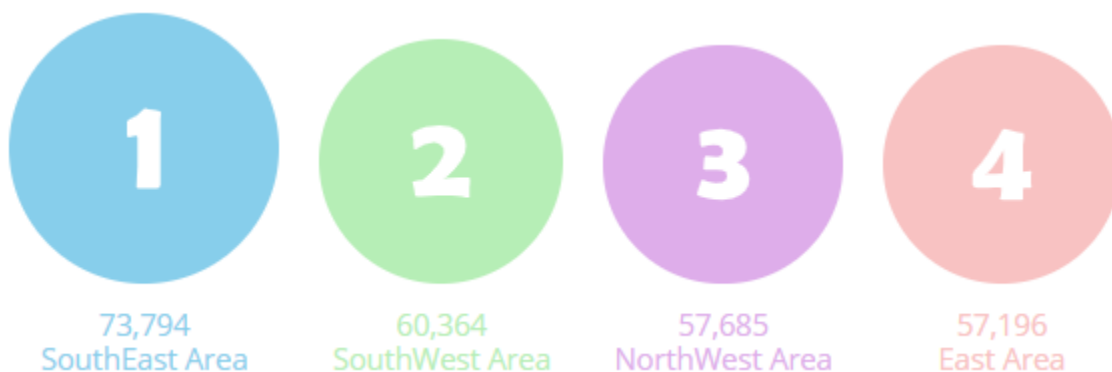
Image overlay



Tile view

SouthEast Area	SouthWest Area	NorthWest Area
73,794	60,364	57,685
East Area	Near West Area	NorthEast Area
57,196	20,767	118

Volume comparative

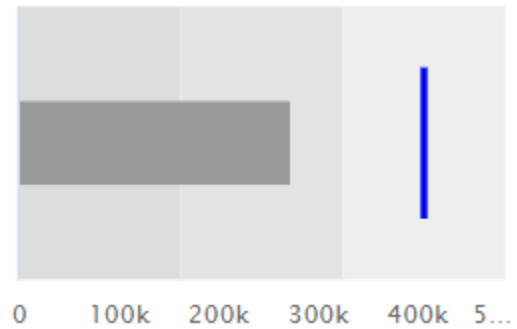


Goal percentage

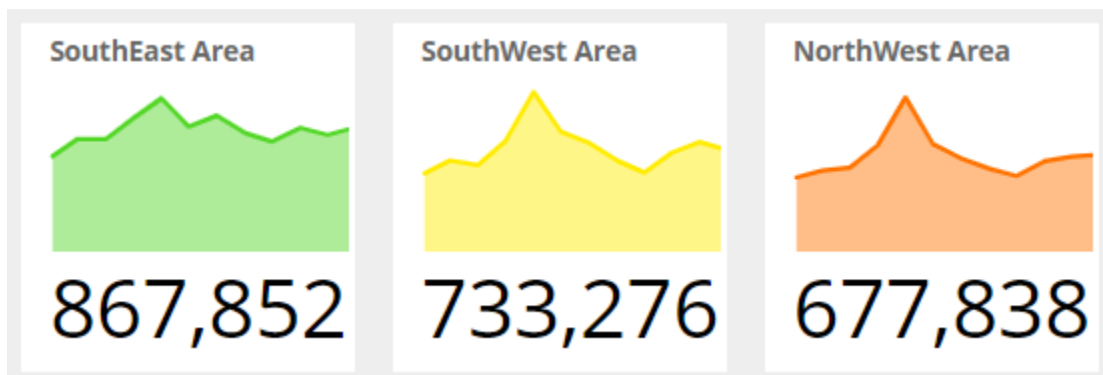


**63% of goal**  
**SouthEast Area - 73,794**  
 Last 116,284

Gauge bullet




Multi Trend










Calendar trend tiles




# Column filters (in Multi Comparative)

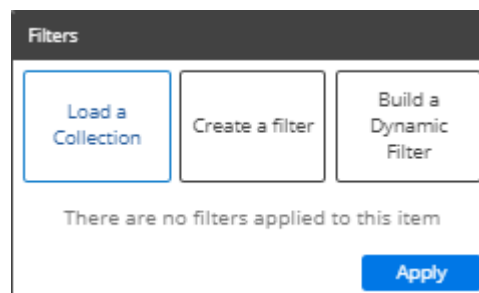
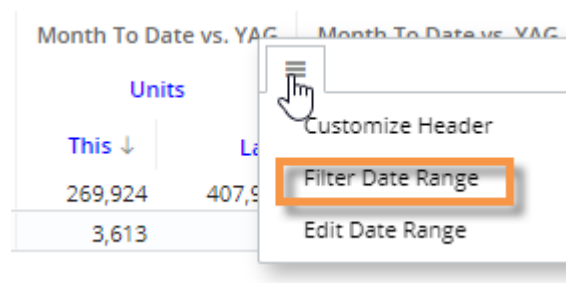
The columns in a Multi Comparative widget can be filtered on various subsets of data. The filters, date ranges, measures, and equivalents can be the same or different across columns. Any number of columns can be included to provide a customized view of performance. For example, compare performance across individual brands, packages, and custom groups of products in one view. A filter icon  indicates that a column is filtered. The filtered data is also available when you switch to graph format.

Channel	All Products		Our Cola			12 Pack Cans		Our Carbonated Brands		Products with Net Price > \$10	
	Units		Units			Units		Units		Units	
	This ↓	% Change	This	Last	% Change	This	% Change	This	% Change	This	% Change
> <input type="checkbox"/> Regional Chains	87,307	18.54	35,909	29,847	20.31 	38,902	2.26	80,345	20.11 	5,365	-18.64
> <input type="checkbox"/> Conv With Gas	29,431	10.01	12,751	11,590	10.02	5,568	14.54	26,121	10.67	12,266	-6.59
> <input type="checkbox"/> Mass Merchandisers	23,893	-27.25 	10,975	15,990	-31.36 	15,290	-40.53 	23,059	-27.99 	1,798	2.98
> <input type="checkbox"/> Other Groceries	20,611	4.06	8,880	7,889	12.56	3,185	88.46 	17,308	8.88	7,557	-12.16
> <input type="checkbox"/> 3rd Party Operators	14,376	-8.29	5,523	5,951	-7.19	201	55.81 	12,165	-9.69	5,953	-16.47
> <input type="checkbox"/> Drug Stores	14,296	10.74	5,965	5,797	2.90	7,311	3.32	13,532	9.89	1,223	8.71
> <input type="checkbox"/> Local Chains	11,851	5.16	5,377	5,191	3.58	4,195	6.91	10,979	5.96	1,118	-18.45
> <input type="checkbox"/> Industrial	9,576	8.47	2,151	2,159	-0.37	1	-80.00 	5,241	4.78	2,215	6.70
> <input type="checkbox"/> Superettes	9,020	-7.84	3,681	4,215	-12.67	2,349	-25.31 	7,875	-10.14	1,551	-22.84 

The following instructions explain how to filter individual columns. Column filters can also be set up to work with dashboard filters to compare whatever is selected to [benchmarks](#) (see page 146) such as "all others" or custom cohorts.

To apply a filter to a column


1. Add or select a Multi Comparative widget. Column filtering is only available in this widget type.
  - The widget must have at least one measure.
  - The widget must be in grid format.
2. Place the cursor over the main heading of the column to filter and click the  menu icon.
3. Select **Filter Date Range**.
4. In the next menus, choose how to filter the column. These options are the same as those available for other types of filters. For example, you can [filter on a saved collection](#) (see page 76), [create a new filter for any available dimension](#) (see page 74), [apply a dynamic filter](#) (see page 77), etc.

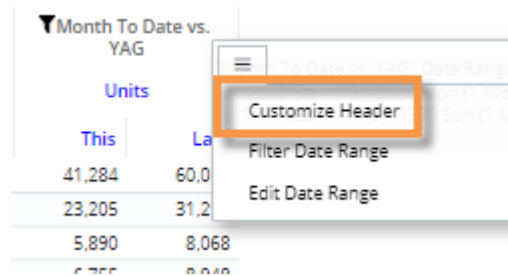




## To apply a filter to a column

5. *(Recommended)* Customize the column header to indicate what the column is filtered on:

- Place the cursor over the column and click the  menu icon.
- Select **Customize Header**.
- Choose header options.



### Tips:

- Column filters also allow you to apply equivalents to individual columns to compare converted data within a widget. Equivalents are available via the **Create a filter** option.
- Depending on the dataset configuration, you may be able to include [custom calculations](#) (see page 150) that compare one column to another (e.g., difference between one brand and all products). This feature requires temporal measures.

## Benchmarking

Benchmarking allows you to compare the performance of any part of your organization to other parts that represent standards and industry bests. In Salient Dashboards, you can dynamically benchmark performance against "all others" or custom peer groups (i.e., cohorts) using advanced options in Multi Comparative column filters. For example, compare a single account to all others and/or a top-performing group of similar accounts. The results update dynamically based on whatever filter is selected at the time; just pick from the filter to benchmark a different part of the organization (e.g., a different account).

Multi Comparative

R D Foods | Form

Last Month vs. YAG

R D Foods

Units

Form

This ↓

Diff

% Change

Mix (This)

> ☐ PET

3,188

-785

-19.76

87.1

> ☐ Glass

164

92

127.78

4.5

> ☐ Fountain Tank

161

-14

-8.00

4.4

> ☐ Cans

148

150

7,500.00

4.0

> ☐ Cups & Lids

0

0

0.00

0.0

> ☐ Fountain BIB

0

0

0.00

0.0

Last Month vs. YAG | Benchmark Group: Target Conv with Gas Acct

Units

This

Diff

% Change

Mix (This)

4,440

739

19.97

59.9

226

55

32.16

3.0

10

15

300.00

0.1

2,659

-1,314

-33.07

35.9

48

48

100.00

0.6

28

19

211.11

0.4

KeyAccount (Customer)

R D Foods

The filtered data is also available when you switch to graph format.

To compare performance to a benchmark

1. Add or select a Multi Comparative widget. Column filtering is only available in this widget type.
  - The widget must have at least one measure.
  - The widget must be in grid format.
  - The widget should have at least two date columns, which should typically use the same date (e.g. MTD vs. YAG) as each other to provide a direct comparison.
2. Apply a workspace filter to focus on the member (e.g., account) that you want to compare to a benchmark. The workspace filter may be applied via a filter widget, filter panel, or other method. To preview results as you work, select a member from the filter (e.g., a single account). A different member may be selected at any time; the columns will update dynamically.


\*

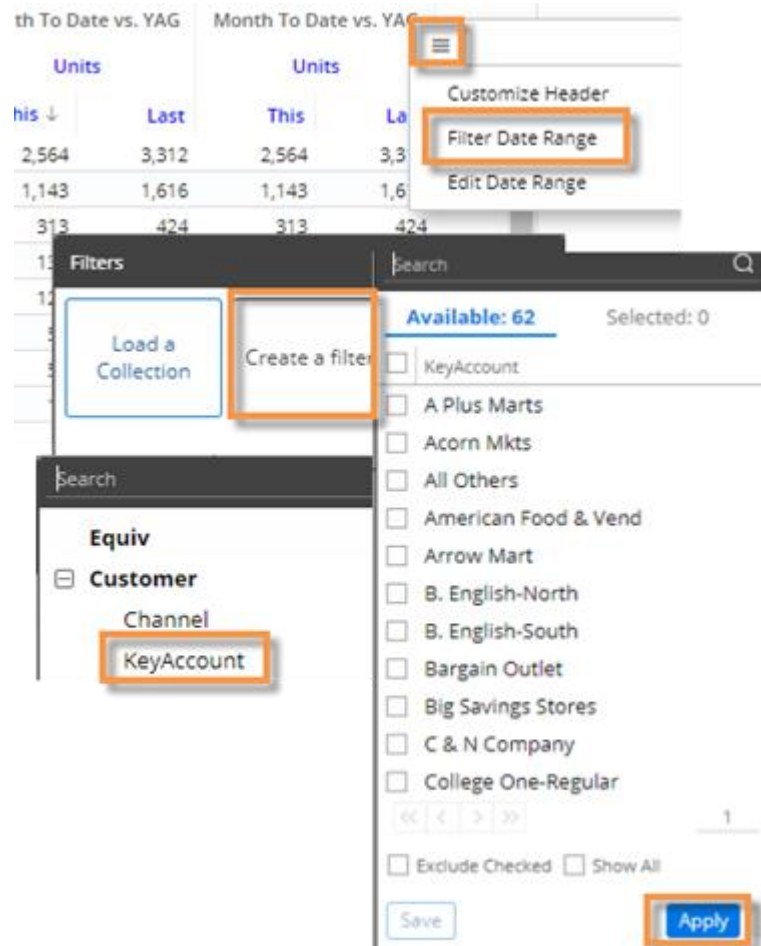
<


3. Leave at least one column as is to show results for whatever is selected in the filter.

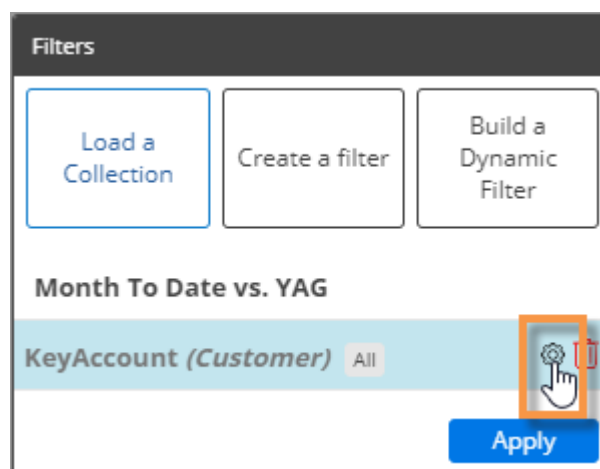
To compare performance to a benchmark

- In another column, apply a filter for the same dimension or key as the workspace filter (e.g., key account)—leaving it set to All.

- Place the cursor over the column and click the  menu icon.
- Select **Filter Date Range**.
- Click **Create a filter**.
- Select the dimension or key list.
- Do not check any members. Click **Apply** once.



- In the Filters area, place the cursor over the new filter and click the  button to access advanced settings.

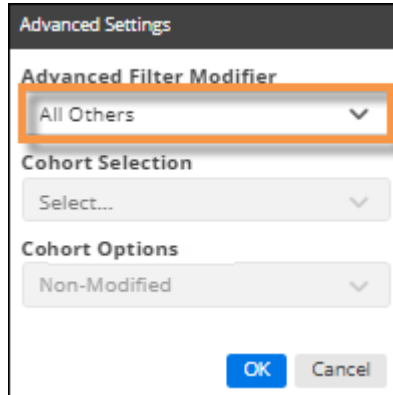


To compare performance to a benchmark

6. Select one of the following from the Advanced Filter Modifier menu:

#### Option 1: Compare to All Others

To show data for all members except the member you are filtered on (e.g., all key accounts except R D Foods), select **All Others** and click OK.



#### Option 2: Compare to a Cohort

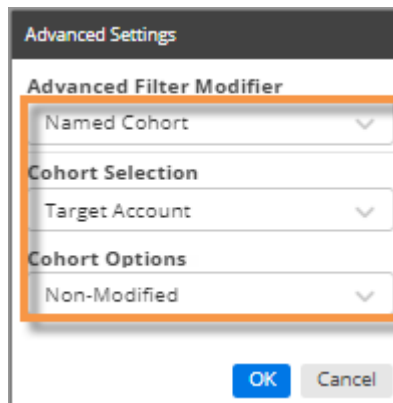
To show data for a custom group of members (must be pre-defined by an administrator), make the following selections and click OK.

Select **Named Cohort**.

From the Cohort Selection menu, select the name of the cohort group. The Salient Dashboards application will search within this group to find the corresponding cohort for the filter member (e.g., target account for R D Foods) and show results for the cohort member(s).


From the Cohort Options menu, choose from the following options to add or remove the filter member from the results:

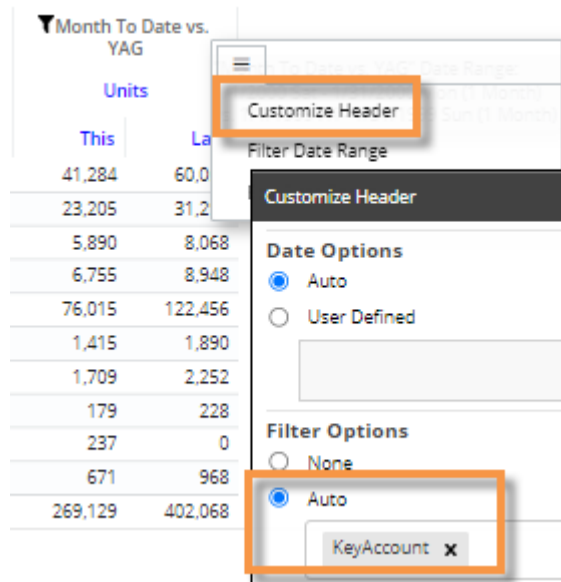
- **Non-Modified** - Leave the cohort as is; do not add or remove the filter member.
- **Include Filtered Members** - If the cohort does not include the filter member, add it to the results.
- **Exclude Filtered Members** - If the cohort includes the filter member, remove it from the results.



7. After choosing Advanced Settings, click **Apply** to apply the filter to the column.

To compare performance to a benchmark

8. *(Recommended)* Repeat the following steps for each column to modify headings so that they show what the column is filtered on:
  - Place the cursor over the column and click the  menu icon.
  - Select **Customize Header**.
  - In the **Filter Options** section, select **Auto** and then select the filter dimension to automatically show the member(s) that the column is filtered on; then click OK. Other options for custom headers are available.



### Tips:

For a cohort comparison:

- If the filter member does not have a cohort within the selected group, the column will show zero data and the column header will show "Group Not Found" (if filter label is on).
- You cannot compare a cohort to multiple members at once (i.e., filter on multiple members); the column will show zeros if multiple members are on.

Depending on the dataset configuration, you may be able to include [custom calculations](#) (see page 150) that compare one column to another (e.g., difference between an account and a target account). This feature requires temporal measures.

See the *Salient Dashboards Installation and Configuration Manual* for information about creating and editing cohorts.

To provide automatic comparisons of user-assigned data to benchmarks (e.g., how am I doing compared to everyone else), your organization can use password collections to filter the data in a column and include another column with "all others" or cohorts applied. This feature requires additional setup.

## Custom calculations for columns

In Multi Comparative columns, you can override the formula of a temporal measure to apply special calculations—such as difference in volume for one sales rep versus another or number of customers buying one package versus all other packages—based on columns rather than specific timeframes (This/Last). This feature requires that the dataset has temporal measures that can be overridden to show the desired information.

Multi Comparative

Our New Diet | Channel

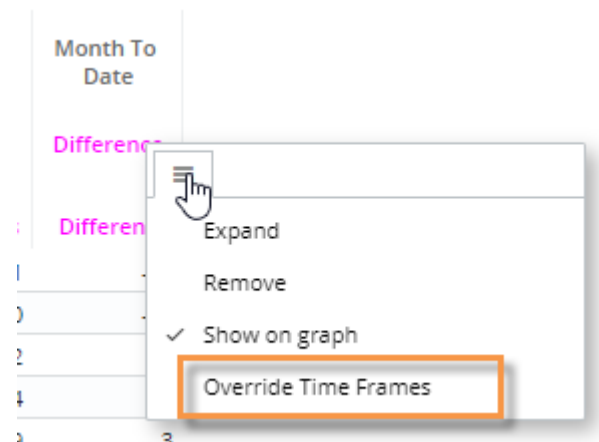
	Month To Date   Our New Diet	Month To Date   All Others	Month To Date   All Others vs. Selected Brand Difference
Channel	Buying Customers	Buying Customers	Difference
<input type="checkbox"/> Conv With Gas	87	141	54
<input type="checkbox"/> Other Groceries	68	150	82
<input type="checkbox"/> Drug Stores	40	52	12
<input type="checkbox"/> Regional Chains	32	34	2
<input type="checkbox"/> Mass Merchandisers	18	19	1
<input type="checkbox"/> Superettes	18	22	4
<input type="checkbox"/> Conv - NoGas	16	23	7
<input type="checkbox"/> Industrial	11	196	185
<input type="checkbox"/> Beverage Centers	10	24	14
Total (33)	369	2,064	1,695

To apply custom calculations to a Multi Comparative column

1. Add or select a Multi Comparative widget. The widget should be in grid format.
2. Set up [individually filtered columns](#) (see page 144) and/or [benchmark columns](#) (see page 146) for the date ranges and members you wish to include in the custom calculations.
3. Add a temporal measure in its own column or a subcolumn. Its formula should correspond to the information you want to show. In the measure's formula, "#1" indicates the first timeframe (This) and "#2" indicates the second timeframe (Last). You will be able to swap out these timeframes with specific columns in the following steps. For example, to show difference in Buying Customers for two different columns, the temporal measure should calculate difference in Buying Customers for two timeframes.

**Tip:** To see a measure's formula, add it and then place your cursor over its name in the heading.

4. Place your cursor over the temporal measure heading and click the  menu icon.
5. Select **Override Time Frames**.



## To apply custom calculations to a Multi Comparative column

6. In the first menu, select the column to substitute for the #1 timeframe in the formula (e.g., Month to Date | All Others).
7. In the second menu, select the column to substitute for the #2 timeframe in the formula (e.g., Month to Date | Our New Diet).
8. Click OK.

**Override Time Frames**

Select the time frame to override.

**This Time Frame #1**

Month To Date | All Others

**Last Time Frame #2**

Month To Date | Our New Diet

OK Cancel

9. (Optional) Customize the column headers to indicate what the column shows:

To customize the main heading:

- Place the cursor over the column and click the ☰ menu icon.
- Select **Customize Header**.
- Choose header options.

To customize the subheading (i.e., measure name):

- Go to the measures area.
- Place your cursor over the measure name in the right pane.
- Click the ✎ icon.
- Enter a display name.