

..

# Using Filter Widgets on Dashboards

Date published: 2020-10-30

Date modified: 2022-09-21

# CLOUDBERA

# Legal Notice

© Cloudera Inc. 2024. All rights reserved.

The documentation is and contains Cloudera proprietary information protected by copyright and other intellectual property rights. No license under copyright or any other intellectual property right is granted herein.

Unless otherwise noted, scripts and sample code are licensed under the Apache License, Version 2.0.

Copyright information for Cloudera software may be found within the documentation accompanying each component in a particular release.

Cloudera software includes software from various open source or other third party projects, and may be released under the Apache Software License 2.0 (“ASLv2”), the Affero General Public License version 3 (AGPLv3), or other license terms. Other software included may be released under the terms of alternative open source licenses. Please review the license and notice files accompanying the software for additional licensing information.

Please visit the Cloudera software product page for more information on Cloudera software. For more information on Cloudera support services, please visit either the Support or Sales page. Feel free to contact us directly to discuss your specific needs.

Cloudera reserves the right to change any products at any time, and without notice. Cloudera assumes no responsibility nor liability arising from the use of products, except as expressly agreed to in writing by Cloudera.

Cloudera, Cloudera Altus, HUE, Impala, Cloudera Impala, and other Cloudera marks are registered or unregistered trademarks in the United States and other countries. All other trademarks are the property of their respective owners.

Disclaimer: EXCEPT AS EXPRESSLY PROVIDED IN A WRITTEN AGREEMENT WITH CLOUDERA, CLOUDERA DOES NOT MAKE NOR GIVE ANY REPRESENTATION, WARRANTY, NOR COVENANT OF ANY KIND, WHETHER EXPRESS OR IMPLIED, IN CONNECTION WITH CLOUDERA TECHNOLOGY OR RELATED SUPPORT PROVIDED IN CONNECTION THEREWITH. CLOUDERA DOES NOT WARRANT THAT CLOUDERA PRODUCTS NOR SOFTWARE WILL OPERATE UNINTERRUPTED NOR THAT IT WILL BE FREE FROM DEFECTS NOR ERRORS, THAT IT WILL PROTECT YOUR DATA FROM LOSS, CORRUPTION NOR UNAVAILABILITY, NOR THAT IT WILL MEET ALL OF CUSTOMER’S BUSINESS REQUIREMENTS. WITHOUT LIMITING THE FOREGOING, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CLOUDERA EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, QUALITY, NON-INFRINGEMENT, TITLE, AND FITNESS FOR A PARTICULAR PURPOSE AND ANY REPRESENTATION, WARRANTY, OR COVENANT BASED ON COURSE OF DEALING OR USAGE IN TRADE.

# Contents

<b>Creating dataset filters on dashboards.....</b>	<b>5</b>
<b>Creating custom filters on dashboards.....</b>	<b>8</b>
<b>Creating date and time filters on dashboards.....</b>	<b>12</b>
Using fixed dates (date range picker) mode.....	12
Using relative dates mode.....	17
Using quick filters.....	21
Including null values in date filters.....	24
Creating a dashboard with date filters.....	24
Including null values in a visual.....	25
<b>Moving filter widgets in dashboards.....</b>	<b>29</b>
<b>Configuring ranges on dashboard filters.....</b>	<b>34</b>
<b>Configuring values of dashboard filters.....</b>	<b>37</b>
Customizing output parameters.....	39
Setting parameters through URL.....	41
<b>Configuring data options for dashboard filters.....</b>	<b>44</b>
Dashboard: changing maximum rows to fetch.....	46
Disabling incremental queries in filters.....	47
Configuring sort order in filter values.....	47
<b>Configuring display settings for dashboard filters.....</b>	<b>49</b>
Displaying a parameter text box.....	51
Changing the width of the filter text box.....	53
Entering values manually.....	55
Changing number of initial options in dashboard filters.....	59
Changing number of options in search output of dashboard filters.....	61
Using single value mode, with radio buttons.....	63
Selecting all values.....	65
Using single value, with dropdown menu.....	67
Displaying distinct parameters.....	69
Hiding filters.....	71
Remembering previous selections on dashboard filters.....	73
Using multi-select mode.....	75
<b>Configuring scope of dashboard filters.....</b>	<b>77</b>

<b>Configuring custom styles for dashboard filters.....</b>	<b>79</b>
Configuring custom style using CSS code.....	80

## Creating dataset filters on dashboards

enables you to quickly add a filter widget to the dashboard, based on any field in the dataset.

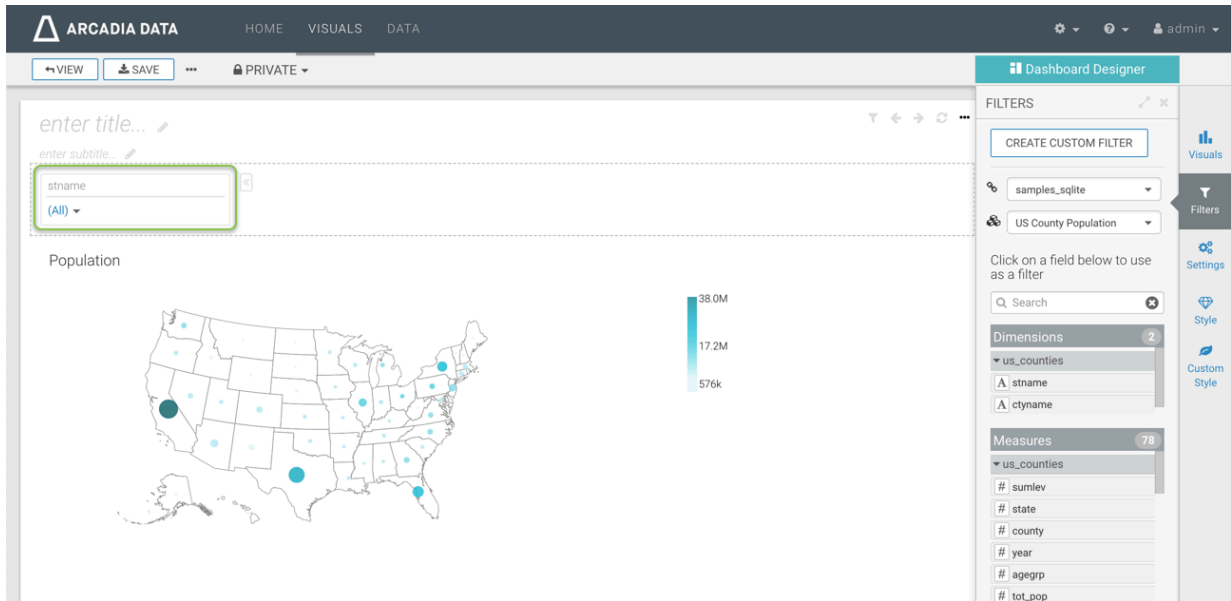
About this task

The screenshot shows the 'Dashboard Designer' interface. At the top, there is a dark header with a settings gear, a help question mark, and a user profile labeled 'admin'. Below this is a teal bar with the text 'Dashboard Designer'. The main area is titled 'FILTERS' and contains a 'CREATE CUSTOM FILTER' button. Below the button are two filter items: 'samples' with a green circle containing the number '3', and 'US County Population' with a green circle containing the number '4'. A text prompt says 'Click on a field below to use as a filter' above a search bar. Below the search bar is a 'Dimensions' section with a green circle containing the number '3'. Under 'Dimensions', there is a dropdown menu for 'us\_counties' which is expanded to show 'stname' (with a green circle containing '5') and 'ctyname'. On the right side, there is a vertical sidebar with icons and labels for 'Visuals', 'Filters', 'Settings', 'Style', and 'Custom Style'. The 'Filters' icon is highlighted with a dark grey background.

The following steps demonstrate how to create a simple dataset filter.

**Procedure**

1. Open an existing dashboard in Edit mode.
2. Switch to the Filters menu.
3. Ensure that you are using the correct connection for the filter, or switch to the desired connection.
4. Select the dataset for the filter.
5. Click on any of the fields of the dataset to add to the dashboard a widget that filters on this field.
6. On the dashboard, notice a new filter widget, named for the field name.



7. To configure the new dashboard filter, hover over the filter and click the Gear icon in the top right of the filter widget.



8. The Settings window module of the new filter opens, on the Values tab. Note that the Dataset of the filter appears.

Settings ×

Values Data Display Settings Scope Custom Style

Dataset: US County Population

From Base Field

stname

Title

stname

Output Parameter

stname

Filter Fields

CANCEL APPLY

## Creating custom filters on dashboards

enables you to create a custom filter based on any parameter.

### About this task

The following steps demonstrate how to create custom filters in a dashboard.

### Procedure

1. Open an existing dashboard in Edit mode.
2. Switch to the Filters menu.

See the following topics for configuration options:

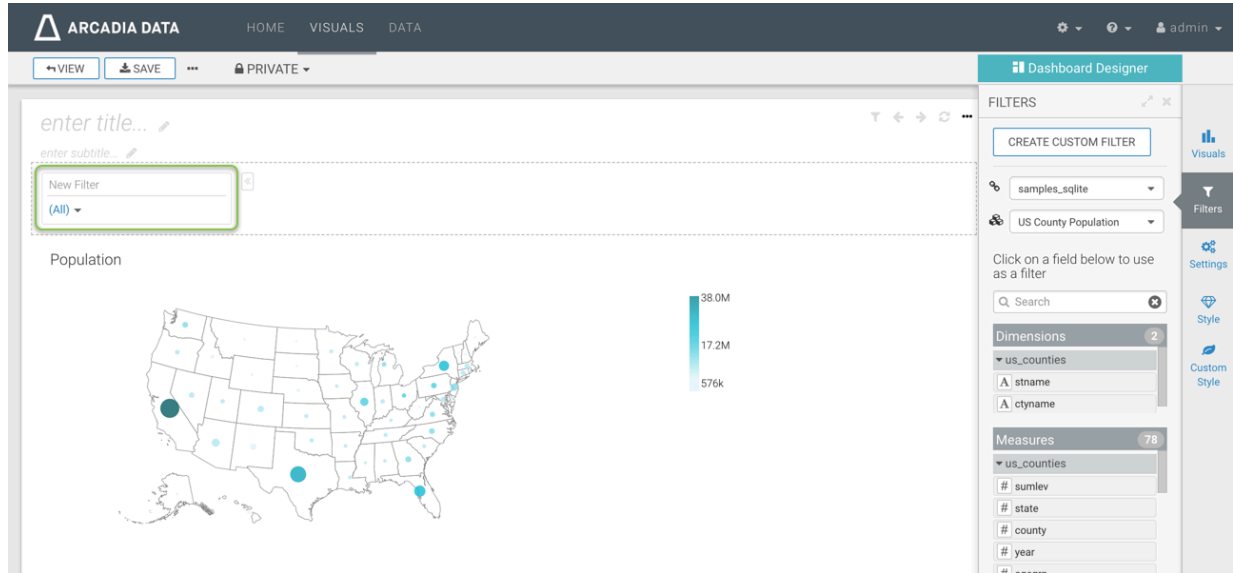
- *Configuring values of dashboard filters*
- *Configuring data options for dashboard filters*
- *Configuring display settings for dashboard filters*
- *Configuring scope of dashboard filters*
- *Configuring custom styles for dashboard filters*



3. Click CREATE CUSTOM FILTER.

The screenshot shows the Tableau Dashboard Designer interface. At the top, there is a dark header with a settings gear icon, a help question mark icon, and a user profile icon labeled 'admin'. Below this is a teal bar with the text 'Dashboard Designer'. The main area is divided into a left panel and a right sidebar. The left panel is titled 'FILTERS' and contains a 'CREATE CUSTOM FILTER' button, which is highlighted with a blue and green border and a hand cursor. Below the button are two filter fields: 'samples' and 'US County Population'. A text prompt reads 'Click on a field below to use as a filter'. At the bottom of the left panel is a search bar and a 'Dimensions' section with a count of 3, listing 'us\_counties' with fields 'stname' and 'ctyname'. The right sidebar contains navigation buttons for 'Visuals', 'Filters' (which is highlighted with a dark grey background), 'Settings', 'Style', and 'Custom Style'.

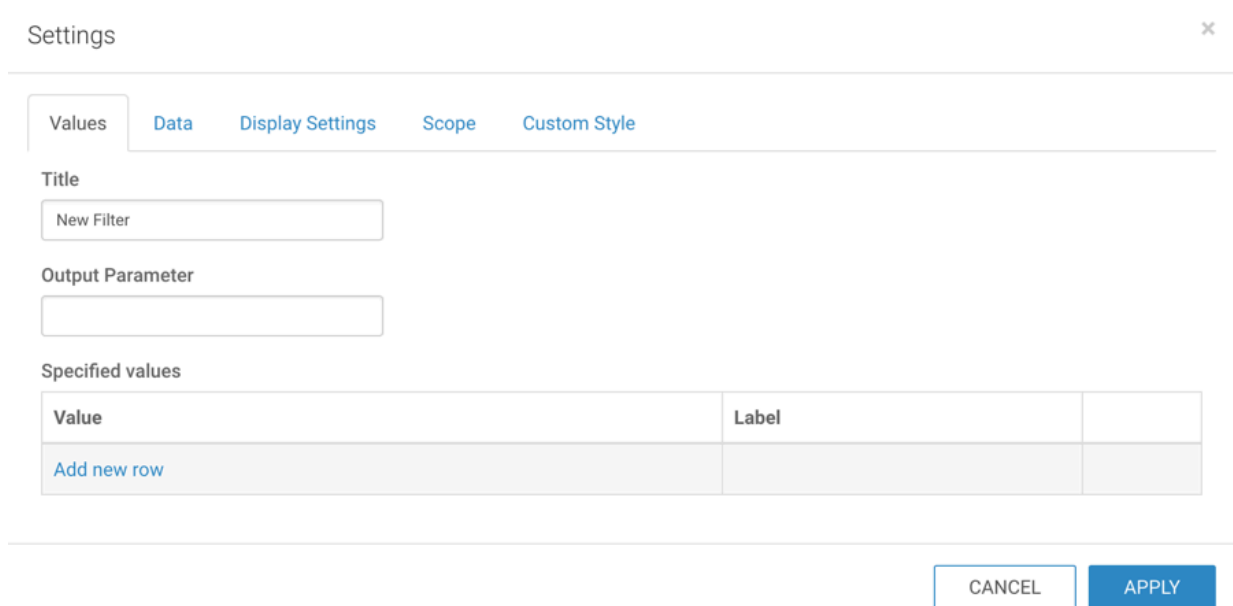
On the dashboard, you can see a new filter widget named New Filter.



- To configure the new dashboard filter, hover over the filter and click the Gear icon in the top right of the filter widget.



- The Settings window module of New Filter opens, on the Values tab.



**Related Information**

- [Configuring values of dashboard filters](#)
- [Configuring data options for dashboard filters](#)

- [Configuring display settings for dashboard filters](#)
- [Configuring scope of dashboard filters](#)
- [Configuring custom styles for dashboard filters](#)

## Creating date and time filters on dashboards

In CDP Data Visualization, you can use application controls with date or timestamp parameters to filter records based on date and time values.

### Procedure

1. Open an existing dashboard in Edit mode.
2. Switch to the Filters tab on the Dashboard Designer side menu bar.
3. Click any date type field of the dataset displayed under Dimensions or Measures.

This adds a new date/time filter widget to the dashboard. The filter widget is named after the field name. If you hover over the filter widget, you can access the filter area actions that allow you to change the date range into a picklist, to configure the filter, or to remove it from the dashboard.

For more information, see *Filter area actions for application control*.

For instructions on how to configure date ranges, see *Configuring ranges on dashboard filters*.

4. If you want to preserve the adjusted filter settings for View mode, hover over the filter widget, click the Gear icon, and select the When date ranges are set in Edit mode, remember these selections in View mode option on the Basic tab of the Settings modal window.

If you only want to display the latest available timestamp, you can default the date range to the max date of the dataset column by selecting the Default to the latest available timestamp option. If you select this option, the When date ranges are set in Edit mode, remember these selections in View mode becomes unavailable.

### Related Information

- [Filter area actions for application control](#)
- [Configuring ranges on dashboard filters](#)

## Using fixed dates (date range picker) mode

In , the fixed dates mode in a date filter enables you to select a subset range of dates for visualizing your data.

### About this task

These steps show you how to use the date range picker option of a date and time filter. The instructions use a calendar heatmap visual as an example.

### Before you begin

- You have created a calendar heat map visual using the SFPD Incidents dataset. For more information on this visual type, see *Calendar heat maps*.
- You have added this visual to a dashboard.

### Procedure

1. Open your dashboard that contains the heatmap visual in Edit mode.
2. Switch to the Filters tab on the Dashboard Designer side menu bar.

3. Under Dimensions, click the date field.

**FILTERS**
↗ ✕

CREATE CUSTOM FILTER

🔗

📦

SFPD Incidents

Click on a field below to use as a filter

🔍

✕

**Dimensions**
10

📅
date
👉

#
Month

A
Day of Week

#
Year

A
Time

A
pddistrict

**Measures**
4

▼
sfpd\_incidents

#
incidntnum

1.2
longitude

📊  
Shared Visuals

▼  
Filters

⚙️  
Settings

💎  
Style

🌿  
Custom Style

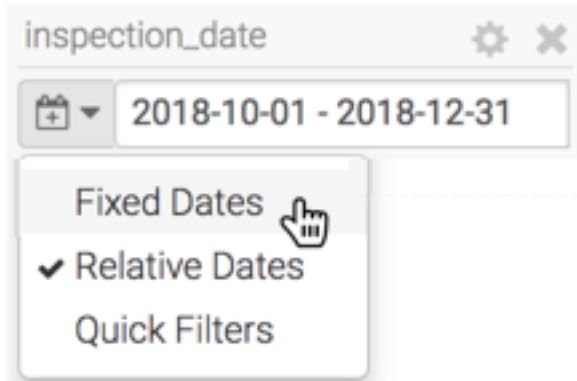
This adds a filter to the dashboard. This filter is based directly on the date field and has a timestamp type.

The screenshot shows the Cloudera Data Visualization interface. At the top, there are navigation tabs for HOME, VISUALS, and DATA. Below these are action buttons: VIEW, LAYOUT, SAVE, and PUBLIC. The main content area has a title input field with the placeholder "enter title..." and a subtitle input field with "enter subtitle...". A filter configuration box is highlighted with an orange border, containing a dropdown menu set to "date" and a date range selector showing "2003-01-01 - 2014-12-31". Below the filter configuration, the dashboard title is "SFPD Incidents - Calendar Heat Map" with a filter label "Filters: date". The visualization consists of three horizontal calendar heat maps for the years 2003, 2004, and 2005. Each calendar shows days of the month from Jan to Dec, with a color scale on the right indicating incident frequency. The days of the week (Mon, Wed, Fri, Sun) are listed on the far right of each calendar.

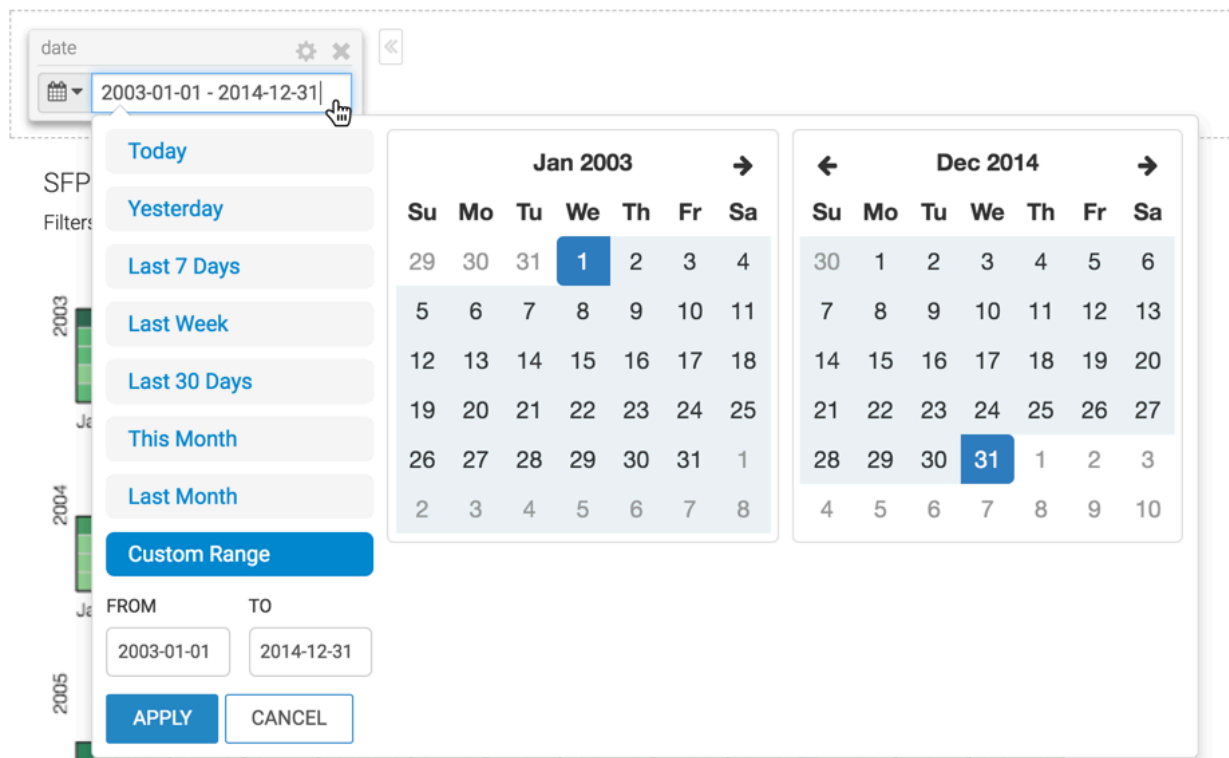
The dashboard filter contains the date range for the entire dataset; in this case, it is from 2003-01-01 through 2014-12-31.

The diagram illustrates the current parameters for the date filter. At the top, there are control icons: a hand cursor pointing to a dropdown arrow, a left arrow, a right arrow, a refresh icon, and a three-dot menu icon. Below these icons is a box titled "Current Parameters" containing the following text: "date.start: 2003-01-01" and "date.end: 2014-12-31". A dashed line connects the "date" filter label from the dashboard above to the "Current Parameters" box.

- To use the date range picker interface, click the Calendar icon on the filter, and select Fixed Dates from the menu.



You can also click the date field of the dashboard filter to see the date range picker interface.

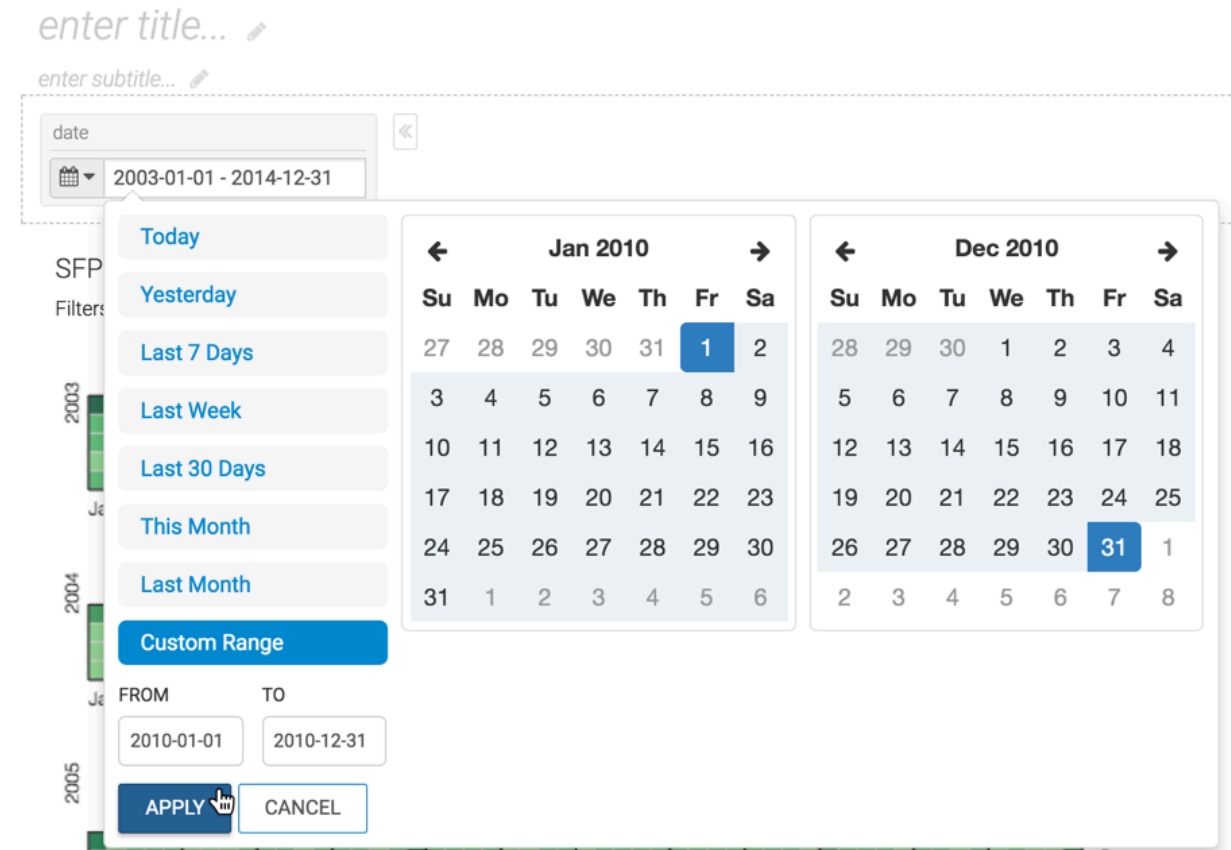


You can change the date range in various ways:

- By selecting the default options:
  - Today
  - Yesterday
  - Last 7 Days
  - Last Week
  - Last 30 Days
  - This Month
  - Last Month
- By changing the date entries for FROM and TO fields
- By picking the start and end dates directly on the calendar interface

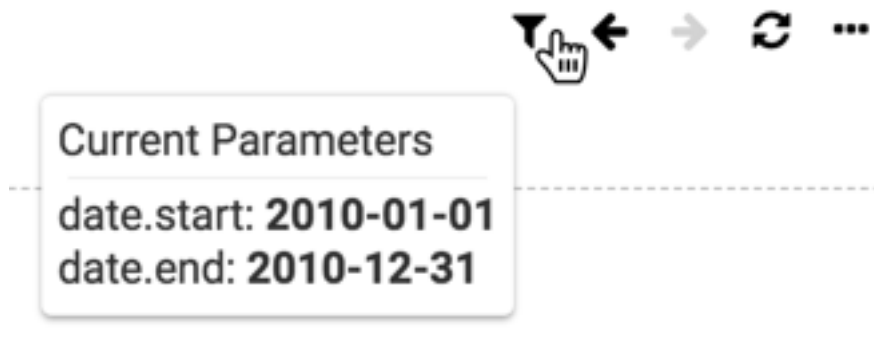


- Change the date range to 2010-01-01 through 2010-12-31, and click APPLY.



### Results

The visual output is now limited to the 2010 calendar year and the application filter shows this new date range.



### Related Information

[Calendar heat maps](#)

## Using relative dates mode

In , the relative date mode in a date filter enables you to select a subset range of dates anchored to a particular date.

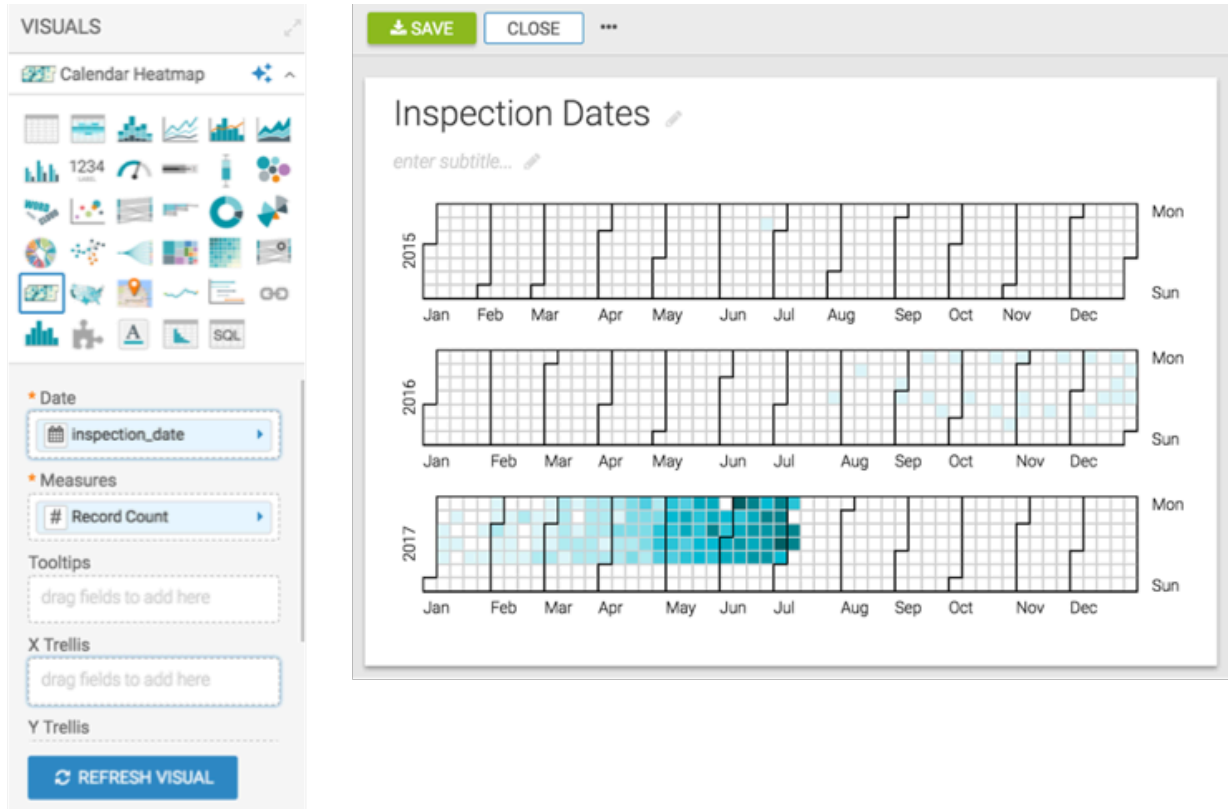
### About this task

These steps show you how to use relative date mode of a date and time filter.

The instructions use a calendar heat map visual as an example. You can learn how to anchor a date to 2015-01-01 and limit the visual output to the next two years from this date.

**Before you begin**

- You have created a calendar heat map visual using the Food Stores Inspection in NYC dataset with the inspecti on\_date dimension on the Date shelf and the Record Count measure on the Measures shelf.



For more information on this visual type, see *Calendar heat maps*.

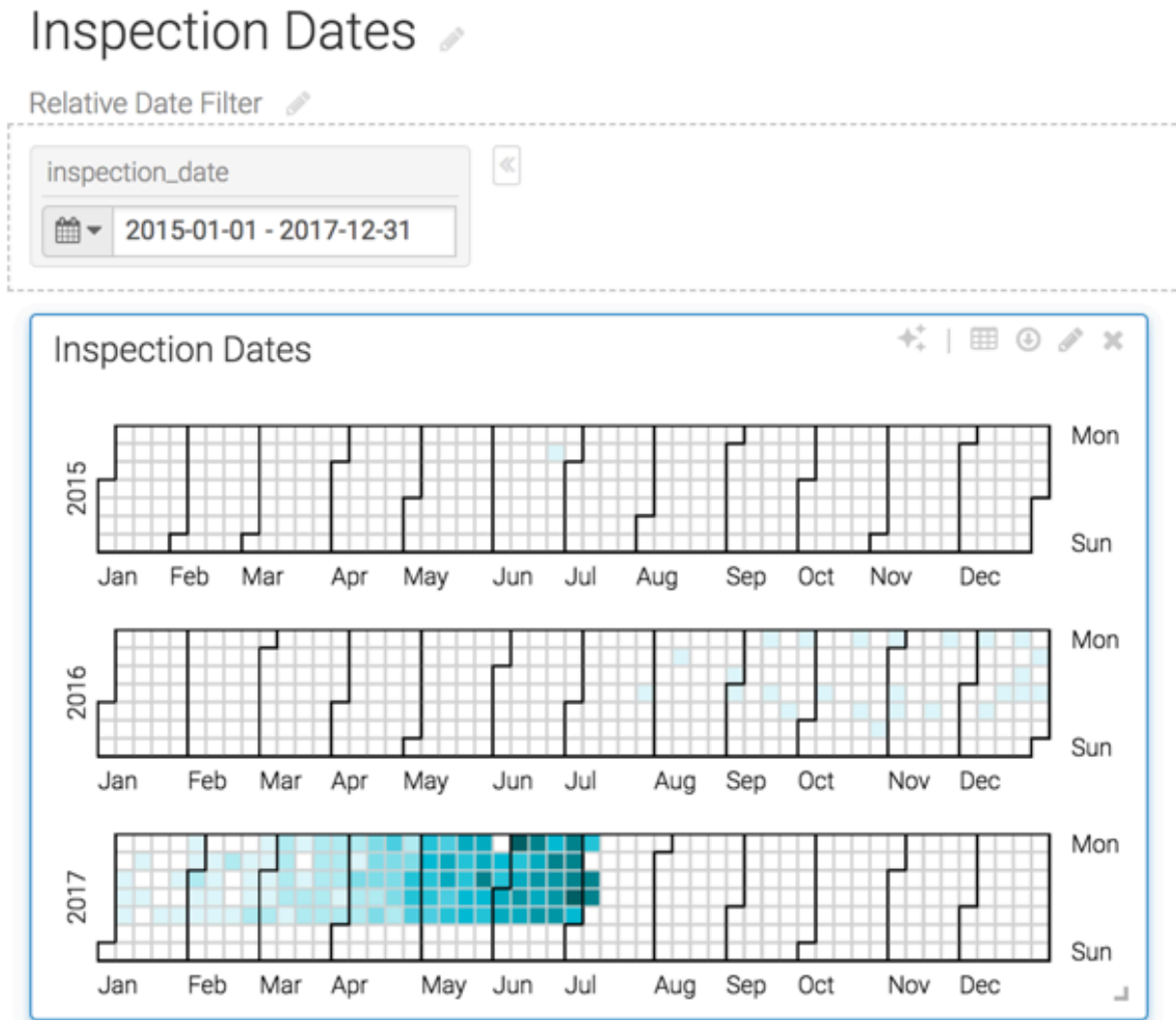
- You have added this visual to a dashboard.

**Procedure**

1. Open your dashboard in Edit mode.
2. Switch to the Filters tab on the Dashboard Designer side menu bar.

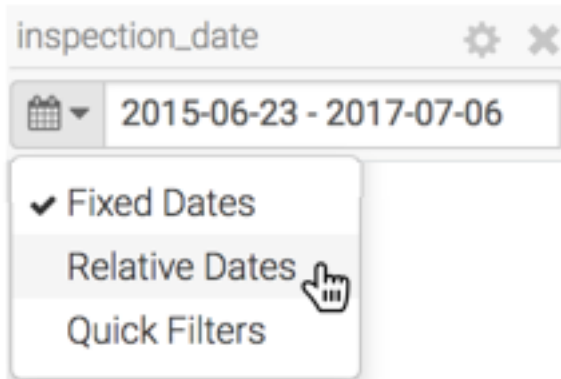
- Under Dimensions, click the inspection\_date field.

This adds a filter to the dashboard. This filter is based directly on the inspection\_date field, and has a timestamp type.



The dashboard filter contains the date range for the entire dataset. In this case, it is for three years from 2015-01-01 through 2017-12-31.

4. Click the Calendar icon on the filter and select Relative Dates from the menu.



The Relative Date modal window appears.

Anchor to Today
  Anchor to

---

Units

Previous Year
  Last  Years

This Year
  Next  Years

Next Year
  Year to date

Custom

5. Anchor the date to 2015-01-01 and limit the visual output to the next two years from this date:
  - Select Anchor to and click in the date field to select 2015-01-01 from the calendar interface.
  - The other option is Anchor to Today (default).
6. Under Units, select Years.

The other options are:

- Days
- Weeks
- Months
- Quarters

7. Select Next and enter '2' in the field next to it.

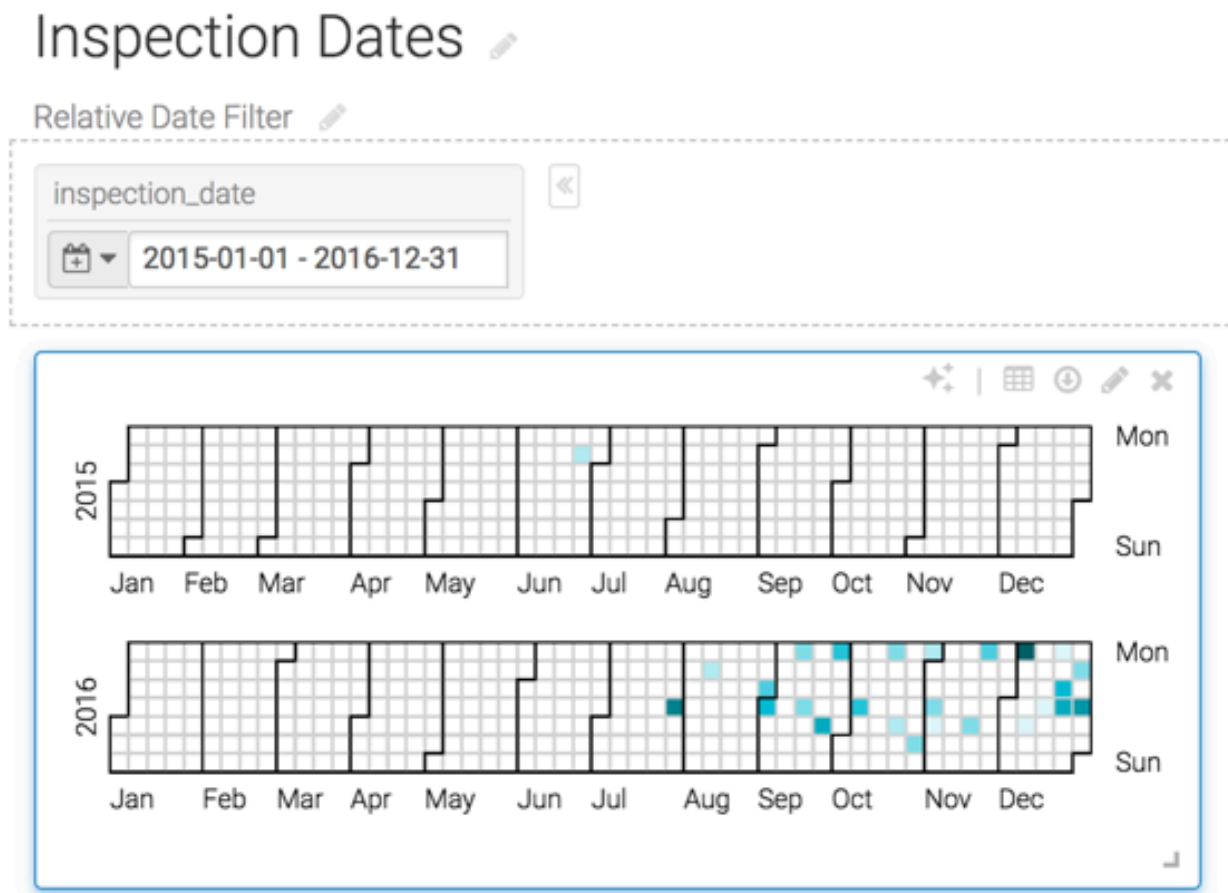
The other options are:

- Previous Year
- This Year
- Next Year
- Custom
- Last <number> Years
- Next <number> Years
- Year to date

8. Click APPLY.

### Results

The visual output is now limited to two years, starting from the anchor year of 2015 and the application filter shows the new date range of 2015-01-01 - 2016-12-31.



### Using quick filters

In , the quick date filter enables you to provide a quick selection of date ranges for visualizing your data.

#### About this task

These steps show you how to use the quick filters option for a date and time filter. The instructions use a calendar heatmap visual as an example.

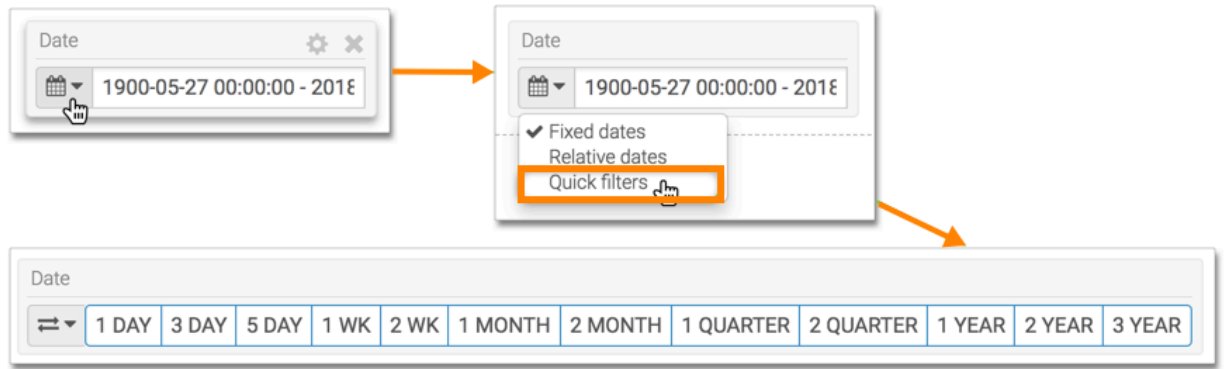
### Before you begin

You have created dashboard with quick filters. For instructions, see *Managing custom dates* and *Configuring ranges on dashboard filters*.

### Procedure

1. Open your dashboard in Edit mode.
2. Click the Calendar icon on the filter and select Quick filters from the menu.

The appearance of the filter changes to show the set of custom date ranges.



3. To use the quick filter, save the dashboard and switch to View mode.
4. Explore how the visual display changes when you click the different filter ranges.

### Example

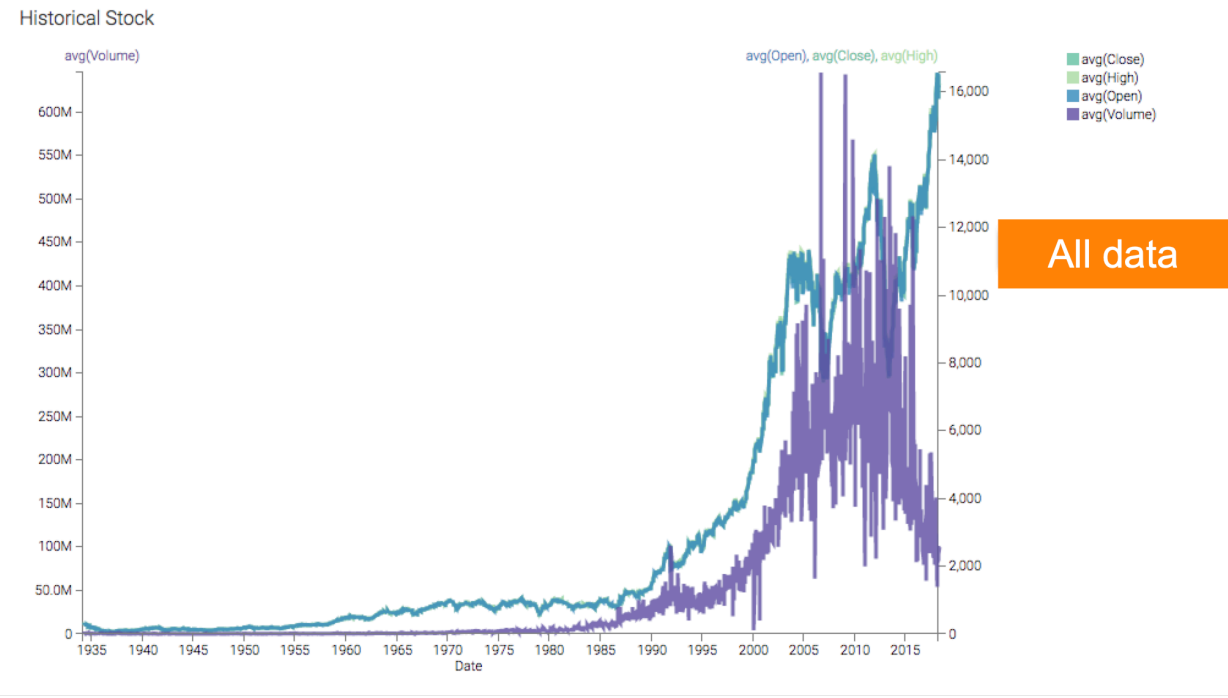
In these examples, you can see how the visual changes when the following filter date ranges are applied: none (all data), 3 years, and 1 quarter.

### Historical Stock Sales



Date

1 DAY 3 DAY 5 DAY 1 WK 2 WK 1 MONTH 2 MONTH 1 QUARTER 2 QUARTER 1 YEAR 2 YEAR 3 YEAR

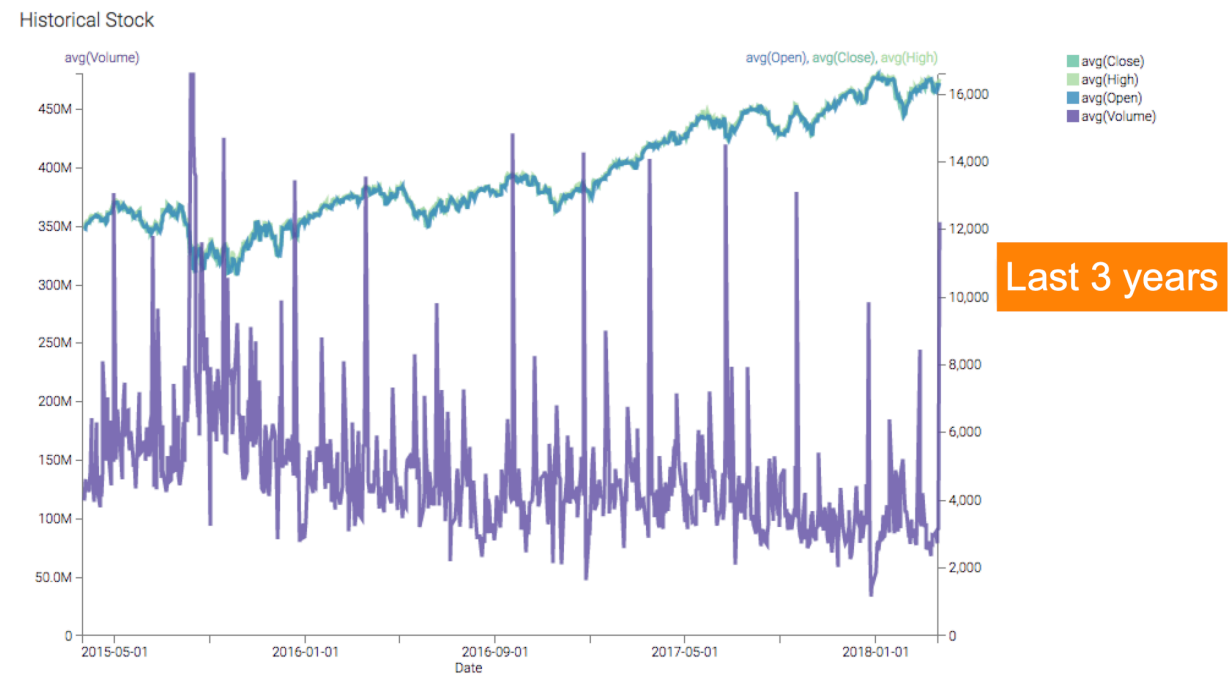


### Historical Stock Sales



Date

1 DAY 3 DAY 5 DAY 1 WK 2 WK 1 MONTH 2 MONTH 1 QUARTER 2 QUARTER 1 YEAR 2 YEAR 3 YEAR



### Historical Stock Sales



Date

1 DAY 3 DAY 5 DAY 1 WK 2 WK 1 MONTH 2 MONTH 1 QUARTER 2 QUARTER 1 YEAR 2 YEAR 3 YEAR



**Related Information**[Managing custom dates](#)[Configuring ranges on dashboard filters](#)**Including null values in date filters**

In [Date filters](#), the date filter enables you to select null values for visualization.

**About this task**

The following steps use a Scatter visual, which is built on the Issue Tracker dataset. This dataset includes issues that are created and resolved and also issues that are created but still open. Resolved issues have a timestamp and open issues have a 'null' value.

By default, visuals only display values with a timestamp. This feature enables you to configure the date filter and display 'null' values in the visuals.

**Creating a dashboard with date filters**

In [Date filters](#), the quick date filter enables you to provide a quick selection of date ranges for visualizing your data.

**About this task**

This example shows a dashboard with a Scatter visual that plots created and resolved issues.

**Procedure**

1. Create a new dashboard and name it 'Issue Completeness'.
2. In the Dashboard Designer, create a Scatter visual based on the Issue Tracker dataset.
3. Populate the shelves from the available Dimensions and Measures fields in the DATA menu.

- a. Under the X shelf, add created from Measures.
- b. Under the Y shelf, add resolved from Measures.
- c. Click the field to open the Field Properties menu and make the following changes:

- Select Enter/Edit Expression, enter the following expression, and click SAVE:

```
if([resolved] IS NOT NULL,datediff([resolved],[created]),datediff(now(),[created]))
```

- Select Alias and name the field 'Days Open'.
  - d. Under Colors, add assignee from Dimensions.
  - e. Under Tooltips, add the following fields:
    - Description
    - Issue Key
    - Assignee
    - Date Open
    - Date Closed
  - f. Under Filters, add created and resolved from Dimensions.
4. Click REFRESH VISUAL.
  5. Click SAVE.
 

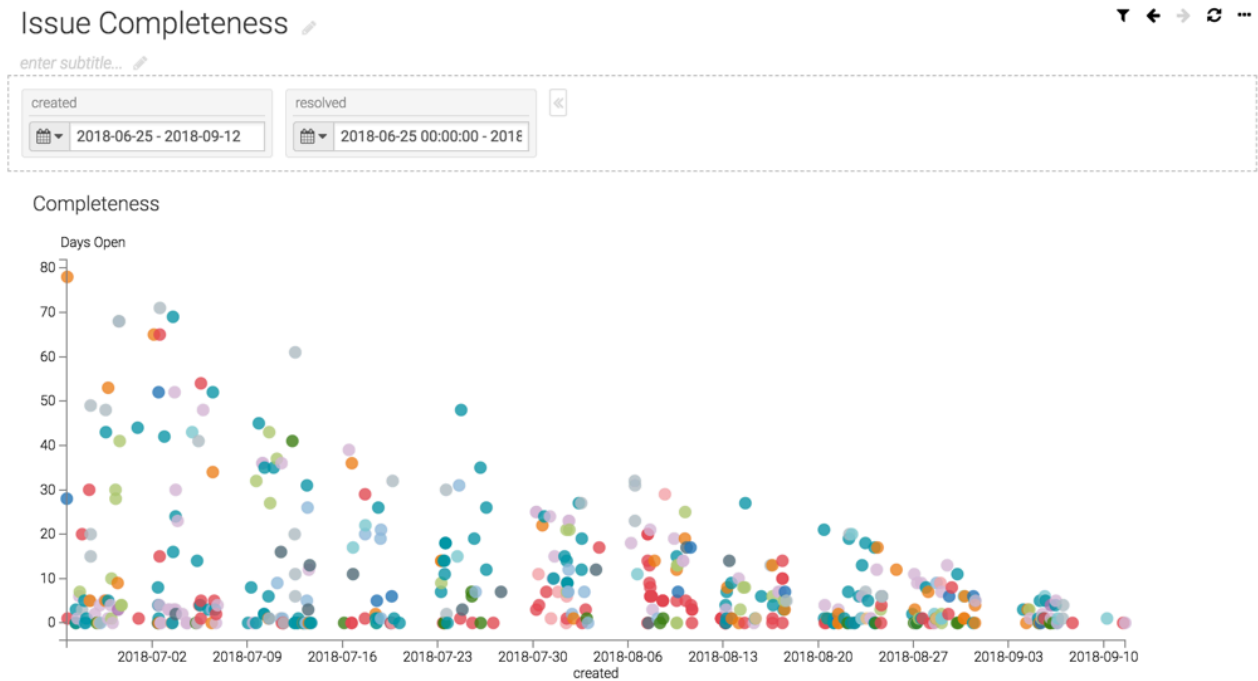
The visual appears in the main area of the dashboard interface.
  6. Add two date filters, created and resolved in the dashboard, with a date range from 2018-06-25 to 2018-09-12.
 

For information on how to create date filters in a dashboard, see *Using fixed dates (date range picker) mode*.
  7. Click SAVE.



### Results

The following image shows the new dashboard you have created. This visual does not include the null values in the dataset.



### What to do next

Proceed to the next section to learn how to include null values in a visual.

### Including null values in a visual

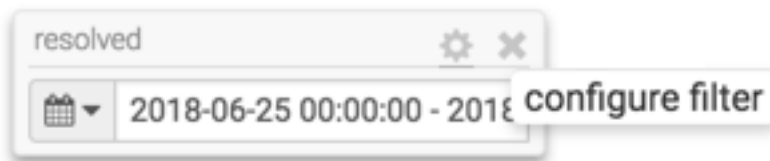
In , the quick date filter enables you to provide a quick selection of date ranges for visualizing your data.

### Before you begin

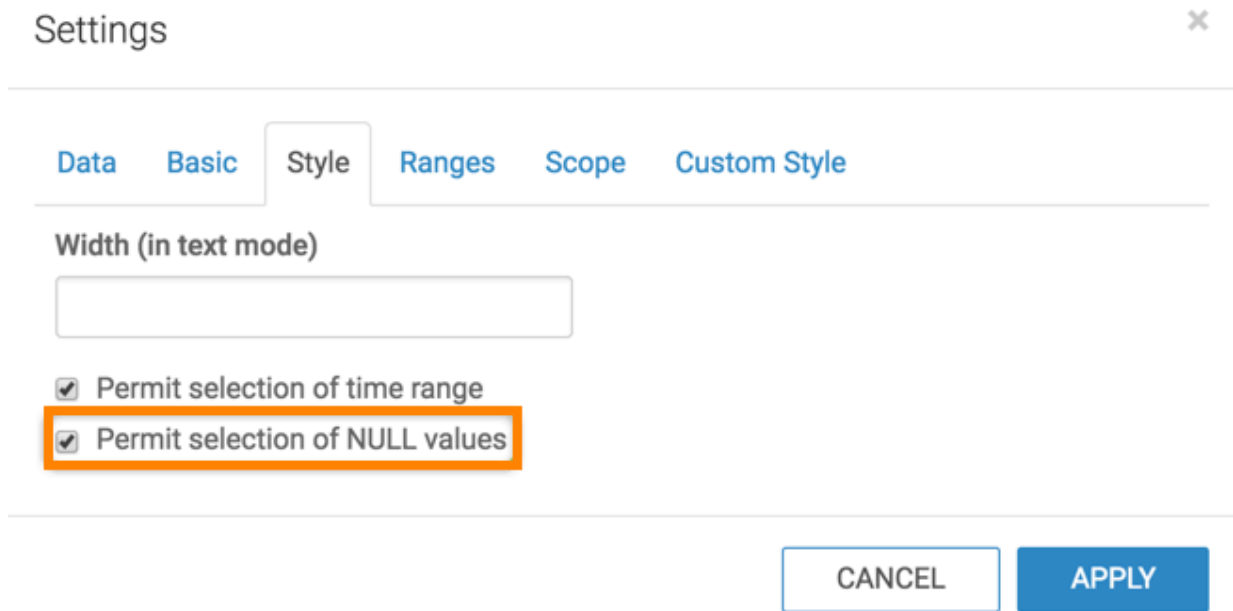
You have created dashboard with a scatter visual that plots created and resolved issues. For instructions on how to create this dashboard, see *Creating a dashboard with date filters*.

### Procedure

1. Hover over the upper right corner of the resolved filter, and click the (Gear) icon to configure the filter.




- In the Settings modal window, click the Style tab and select the Permit selection of NULL values option.

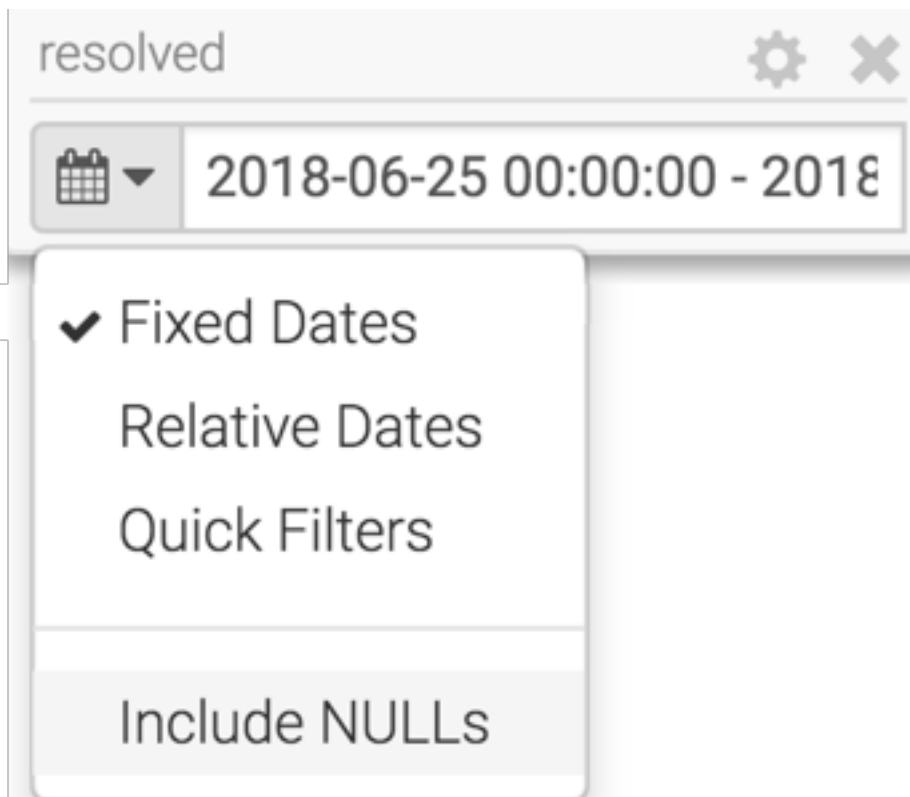


The screenshot shows a 'Settings' modal window with a close button (X) in the top right corner. Below the title bar are five tabs: 'Data', 'Basic', 'Style', 'Ranges', 'Scope', and 'Custom Style'. The 'Style' tab is selected. Under the 'Style' tab, there is a 'Width (in text mode)' input field. Below that are two checked checkboxes: 'Permit selection of time range' and 'Permit selection of NULL values'. The 'Permit selection of NULL values' checkbox is highlighted with an orange border. At the bottom right of the modal are two buttons: 'CANCEL' and 'APPLY'.

- Click APPLY.
- Click the Calendar icon on the resolved filter.

The Include NULLs option appears in the drop-down menu.

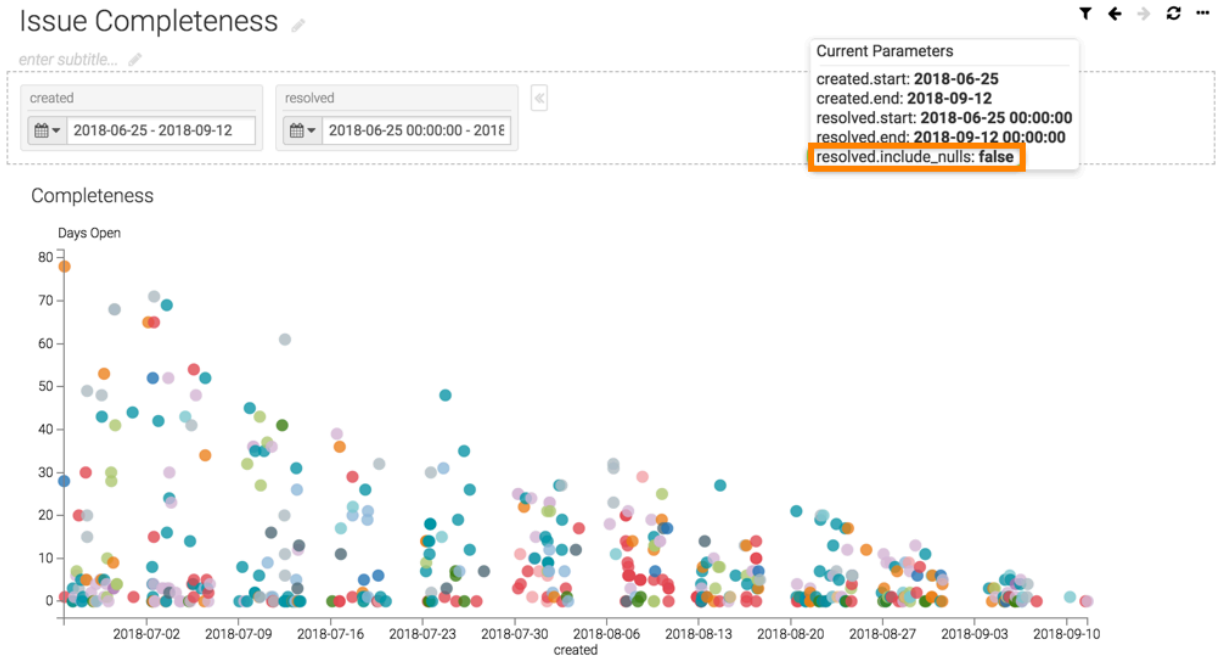
 **Note:** If the Permit selection of Null values option is not selected in the previous step, the Include NULLs option is not visible in the dropdown.



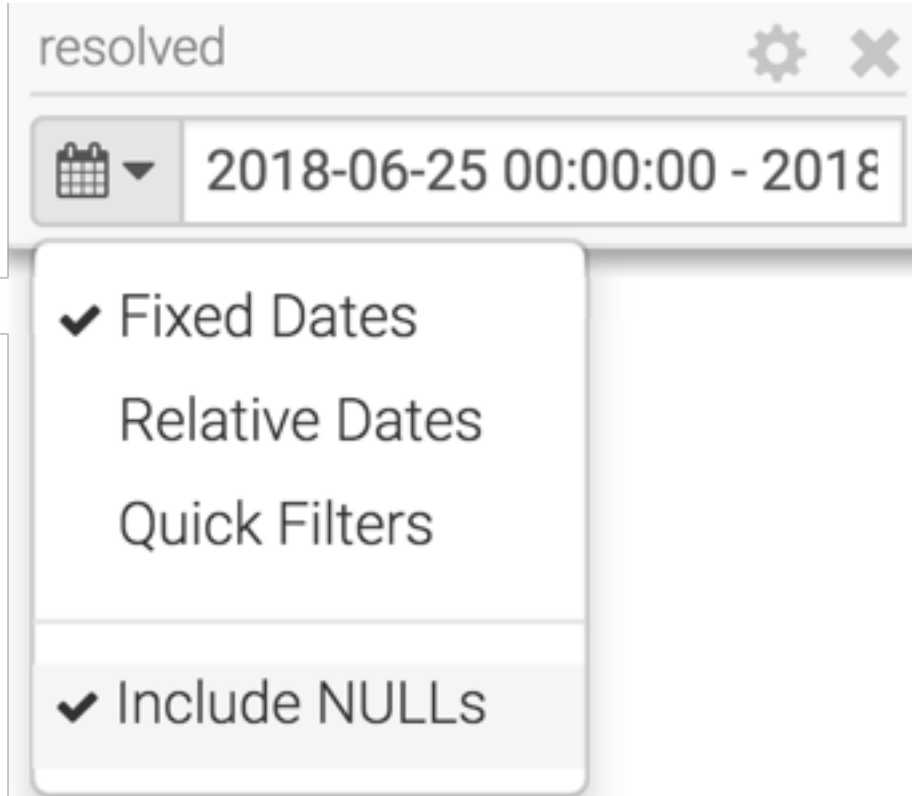
The screenshot shows a 'resolved' filter window with a close button (X) and a settings gear icon in the top right corner. The filter text is '2018-06-25 00:00:00 - 2018'. A calendar icon is visible on the left. A dropdown menu is open, showing the following options: 'Fixed Dates' (checked), 'Relative Dates', 'Quick Filters', and 'Include NULLs' (highlighted).

5. Close the drop-down menu without selecting the Include NULLs option.

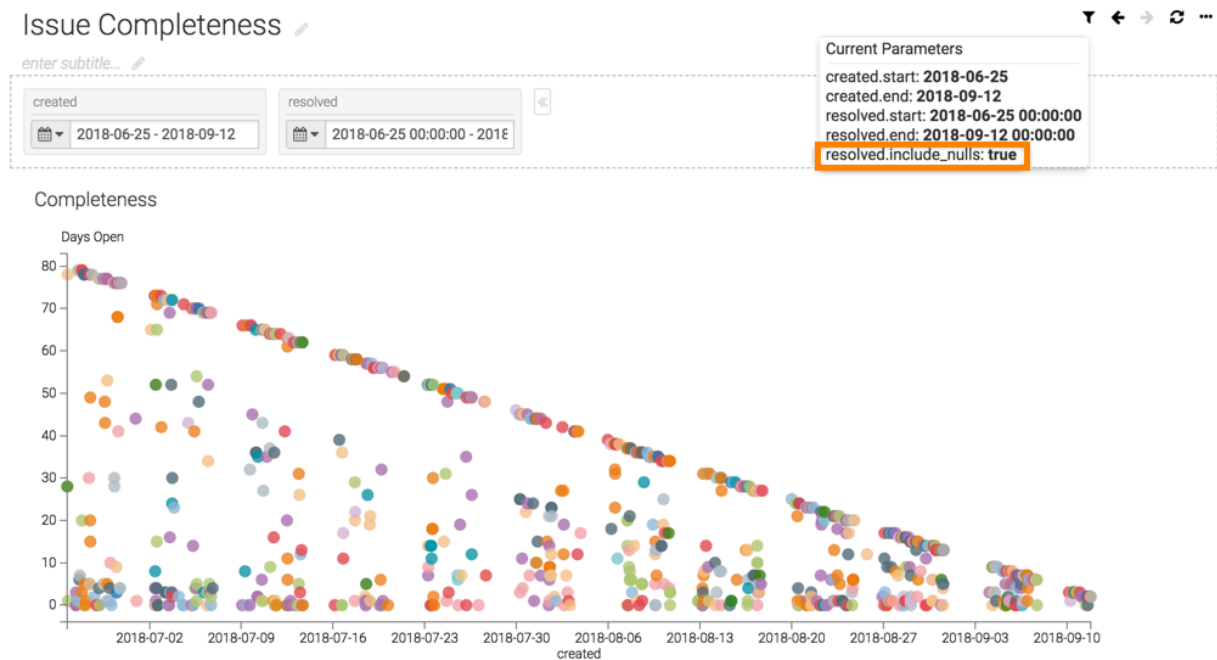
The following image shows that the Current Parameters on the top right corner shows resolved.include\_nulls: false, indicating that the Include NULLs option was not selected in the filter.



- Click the Calendar icon on the resolved filter and select the Include NULLs option.

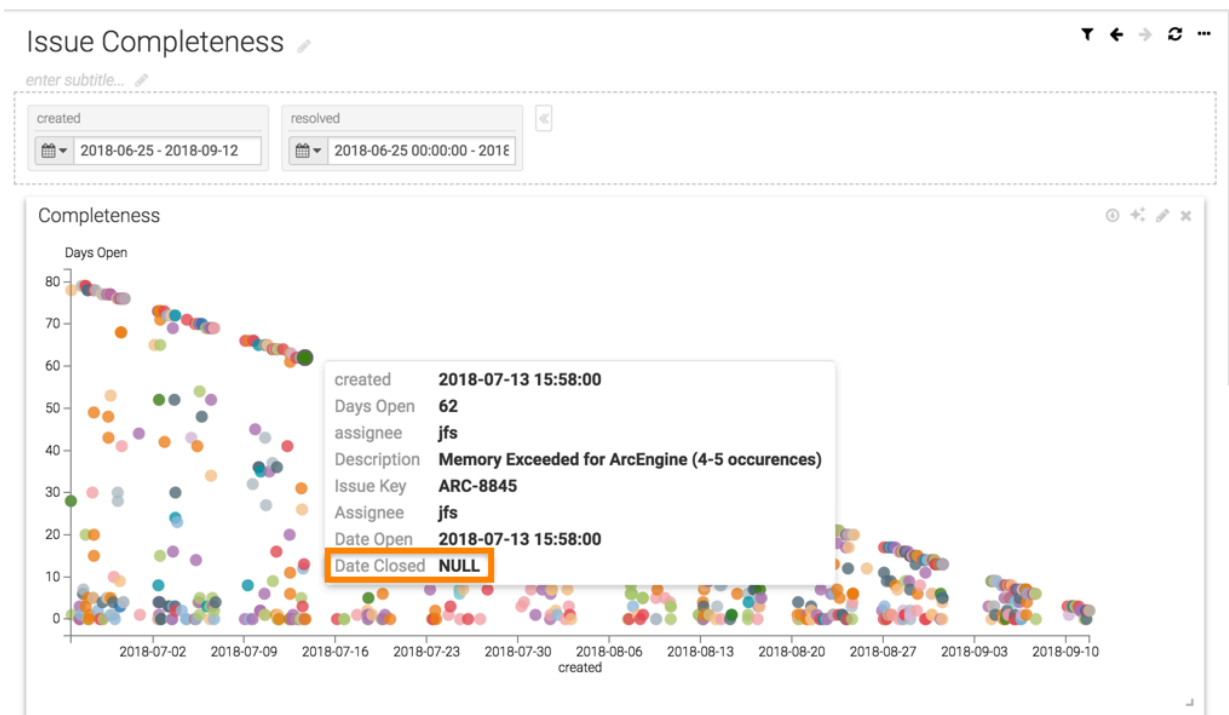


The following image shows that the Current Parameters modal in the top right corner shows resolved.include\_nulls: true, indicating that the Include NULLs option was selected in the filter. The visual now includes the null values in the dataset.



- To verify that the visual includes null values, hover over one of the selections to view the tooltip.

The following image shows that Date Closed has a 'NULL' value.



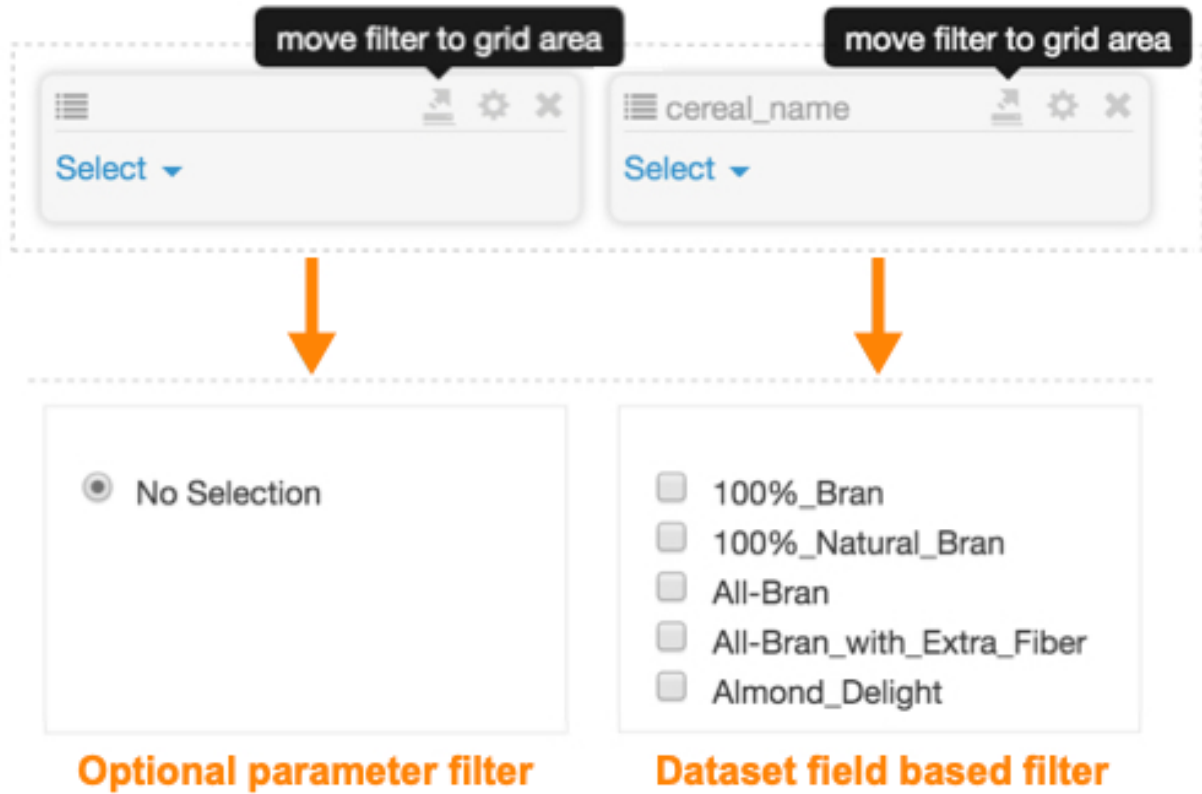
## Moving filter widgets in dashboards

By default, displays dashboard filters across the top of the dashboard, but you can move them around as needed.

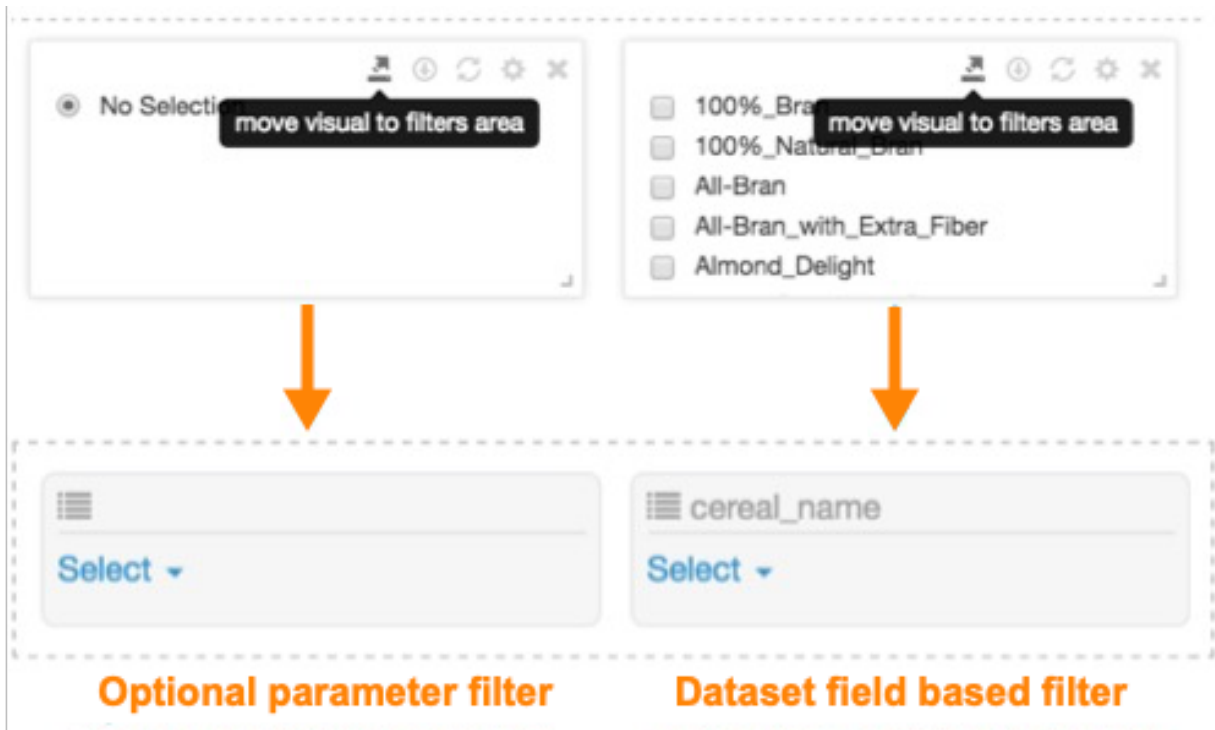
**Move dashboard filters from filter area into main grid area and back**

1. Hover over the filter. When the configuration options appear, click the Move icon to move the filter to the grid area of the dashboard.

The filter is now available among the other visuals of the dashboard. The appearance of the filter has changed significantly. It is represented as a simple white rectangle without search options.



2. To return the filter to the filter area, hover over the filter. When the configuration options appear, click the Move icon to move the filter onto the filter area of the application.



### Moving dashboard filters from the top to the left of the dashboard

1. On the right side of the Dashboard Designer, click Style Filters .

2. Select Align filters on the left.



The image shows the 'Dashboard Designer' interface. On the left is a sidebar menu with categories: STYLE, Dashboard Basics, Dashboard Title, Dashboard Subtitle, Filters, Visual Basics, Visual Borders, Visual Title, Visual Subtitle, Visual Axes and Labels, and Tooltip. The 'STYLE' panel is active, showing various settings. The 'Filters' section is expanded, and the option 'Align filters on the left' is checked and highlighted with an orange box. Other checked options include 'Display line separator' and 'Display borders around filters'. Below these are settings for Font Family, Font Size, Text Color, Selected Text Color, Background Color, and Container Color. On the right side of the interface, there are buttons for 'DASH.', 'Visuals', 'Filters', 'Settings', and 'Style' (which is currently selected).

**Dashboard Designer**

> STYLE

> Dashboard Basics

> Dashboard Title

> Dashboard Subtitle

▼ Filters

Align filters on the left ⓘ

Display labels inline ⓘ

Display line separator ⓘ

Display borders around filters

Font Family: default ▼

Font Size: - [ ] +

Text Color: [ ] ▼

Selected Text Color: [ ] ▼

Background Color: [ ] ▼

Container Color: [ ] ▼

> Visual Basics

> Visual Borders

> Visual Title

> Visual Subtitle

> Visual Axes and Labels

> Tooltip

DASH.

+ Visuals

+ Filters

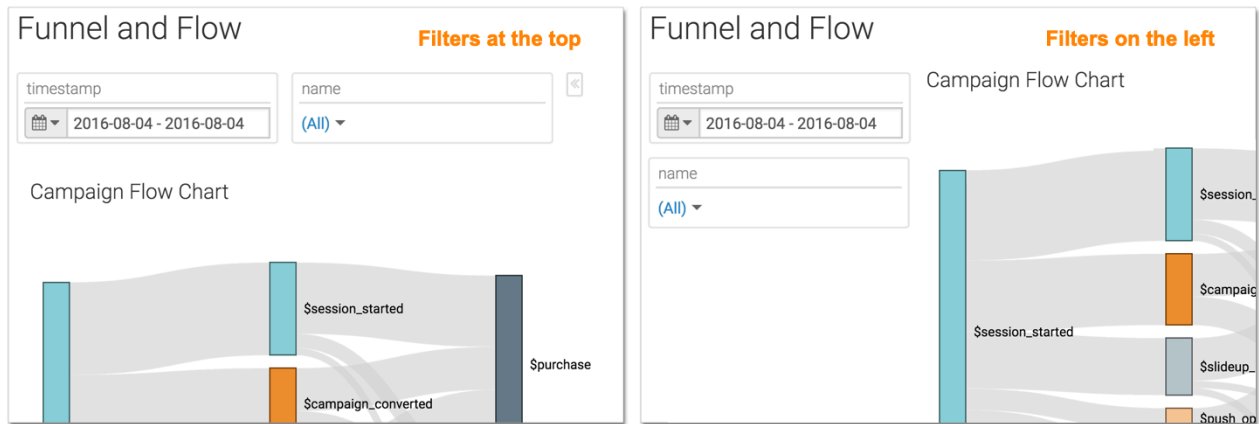
Settings

Style

To return the filters to the top, de-select this option.

## Results

The visual on the left has filters across the top, and the visual on the right has filters on the left side.



## Configuring ranges on dashboard filters

In CDP Data Visualization, you can easily configure real-time filters that enable you to navigate across visuals built on time series. Both historical data and ongoing data feeds are supported.

### About this task

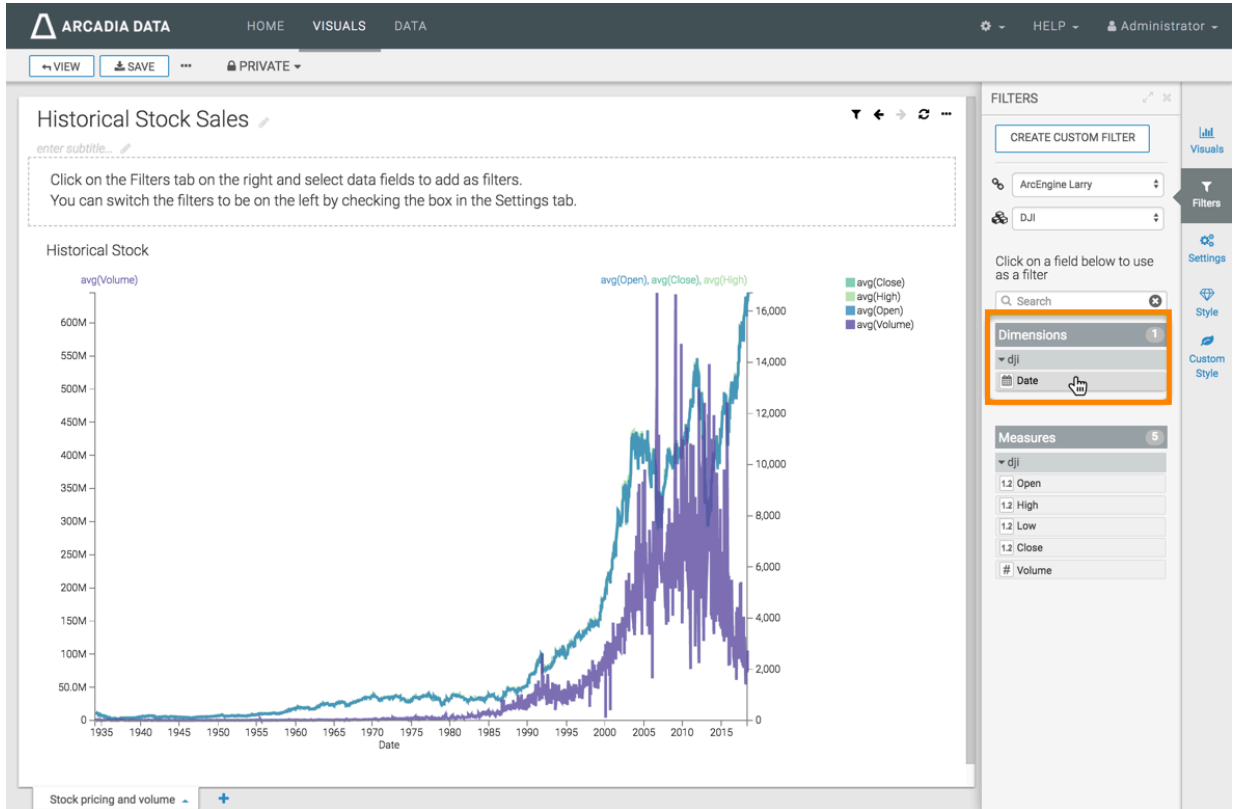
This example uses a dashboard with a line visual that plots stock prices and volume of sales. The filter added uses a set of previously defined dateranges, as described in *Managing custom dates*.

Follow these steps to add and configure a real-time filter on a dashboard:

### Procedure

1. Open the dashboard in Edit mode and click the Filters menu on the right to open it.

- In the Filters menu, under Dimensions, click the Date field.



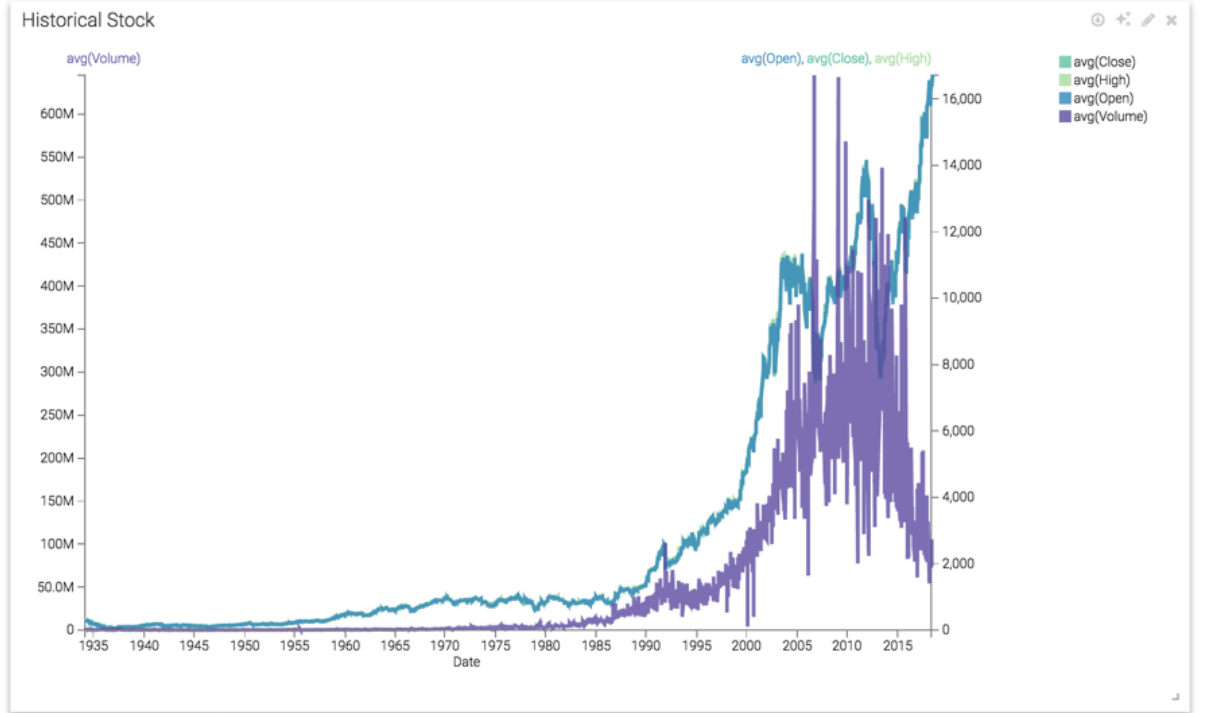
CDP Data Visualization adds the filter Date to the filters section of the dashboard.

### Historical Stock Sales ✎

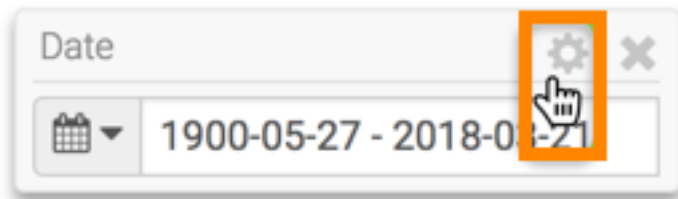


enter subtitle... ✎

Date ⏪



3. Hover over the upper right corner of the filter, and click the Gear icon to configure the filter.



4. In the Settings modal window, click the Style tab, and select the option Permit selection of time range.

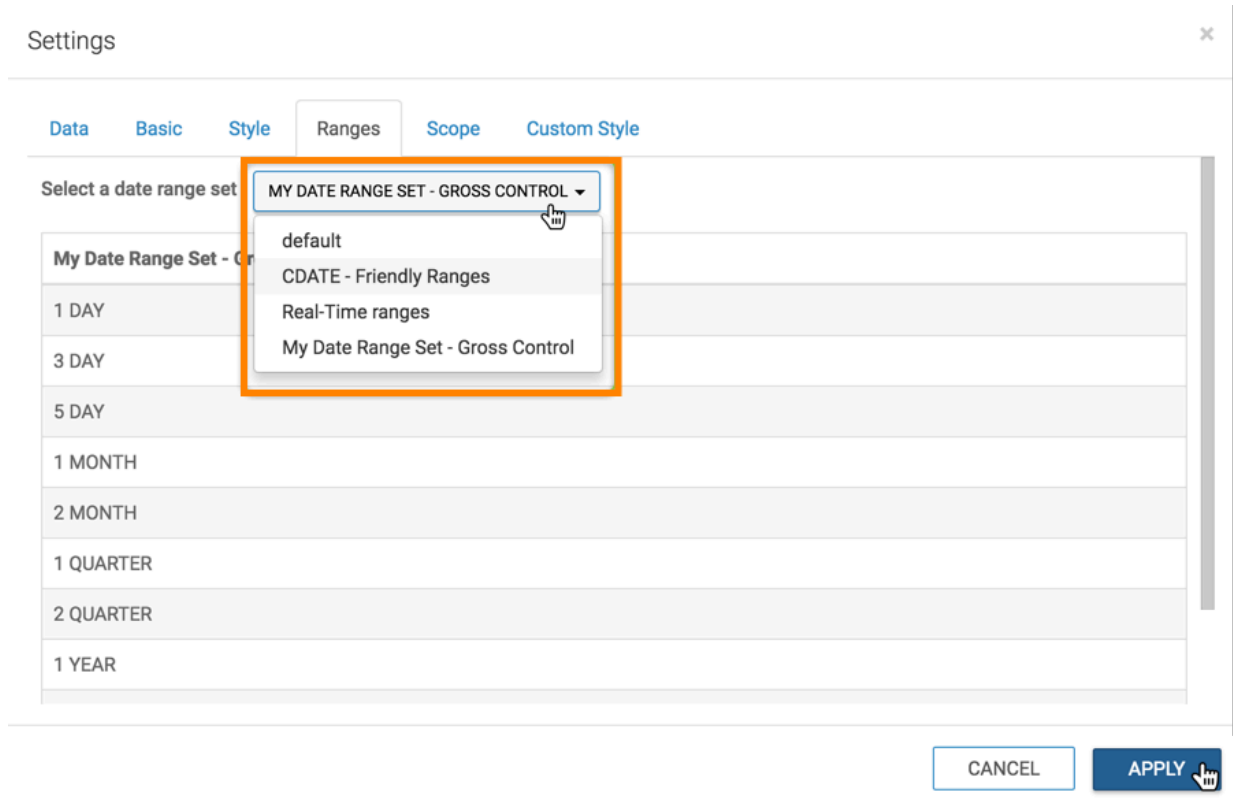
Settings ✕

**Data**   Basic   **Style**   Ranges   Scope   Custom Style

Width (in text mode)

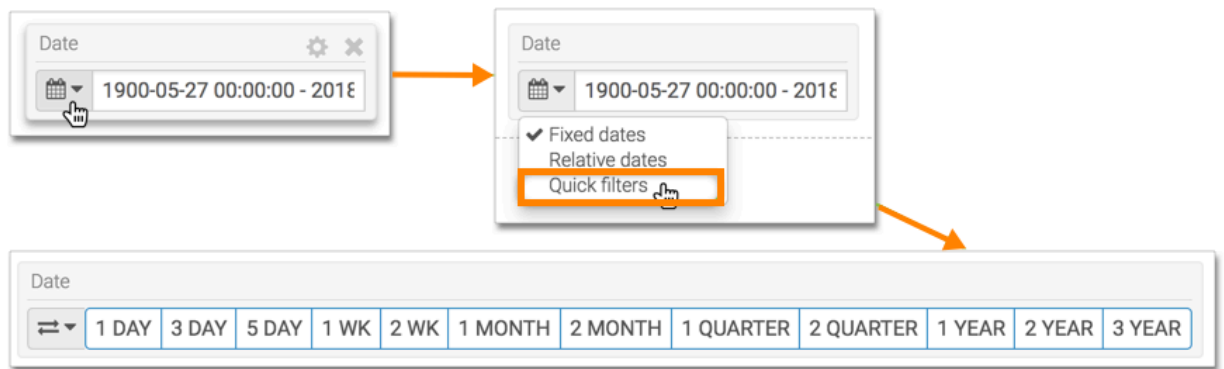
**Permit selection of time range**

- In the Settings modal window, click the Ranges tab, and select the set My Date Range Set - Gross Control.



- Click APPLY.
- On the filter, click the Calendar icon, and select the Quick filters option from the menu.

The appearance of the filter changes, to show the set of custom dataranges.



### Related Information

[Managing custom dates](#)

[Using quick filters](#)

## Configuring values of dashboard filters

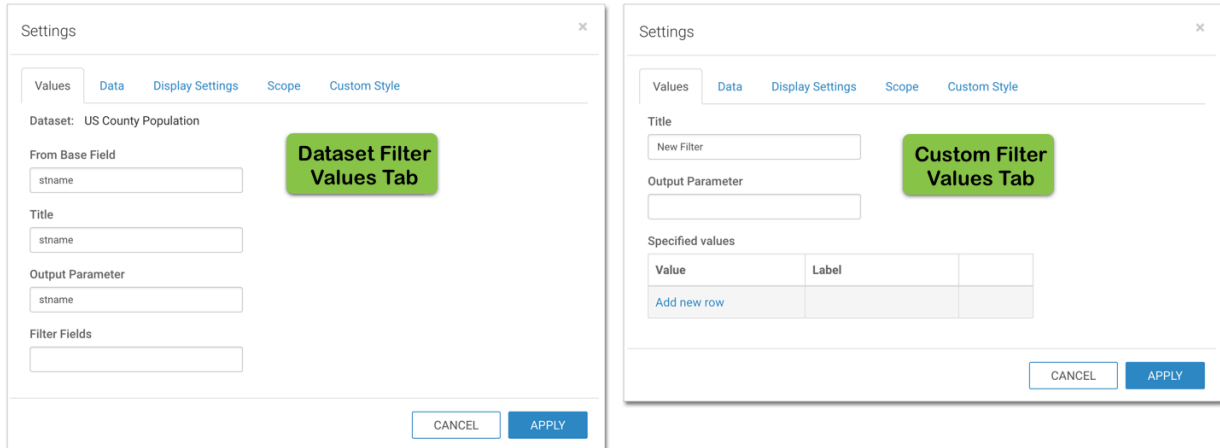
In , you must specify the values of a newly created dataset filter or a custom filter, after adding it to a sheet in a dashboard.

## About this task

Follow these steps to configure values of the filter:

## Procedure

1. Click the Gear icon on the filter widget.
2. In the Settings modal window that appears, click the Values tab, and examine the available options.



- *Dataset*

This shows the name of the dataset in which the filter exists.

- *From Base Field*

This is available only in filters based on a dataset fields. It specifies the filter-controlling field. You can change the base field to another field of the dataset.

- *Title*

This is the name of the filter as it appears in the application at run-time. Keep it short and descriptive providing information on the filter's function.

- *Output Parameter*

This is the parameter sent to the target visual to determine which field to display.

In cases of optional or variable parameters, output parameter is used on the shelves of the target visual, such as <<[dim], or <<[agg], or in an expression that contains the variable.

When used in filters that are based on existing fields, the output parameter ensures field name match across datasets. For example, a filter that is based on field state in dataset US State Populations Over Time must have the output parameter sname to control visuals in the dataset US County Population.

- *Filter Fields*

This is available only in dataset-based filters. It specifies the base fields of another field, based on which options of the current filter can be filtered. You can enter multiple base fields separated by a comma.

- *Specified values*

In custom filter widgets, this specifies the distinct values of the output parameter on which the filter acts, and labels them.

For example, a <<mes>> output parameter can have the following specified values:

- Value: gdp\_per\_capita, Label: GDP per Capita
- Value: life\_expectancy, Label: Life Expectancy

3. Make the selections you need, and click APPLY.

## Customizing output parameters

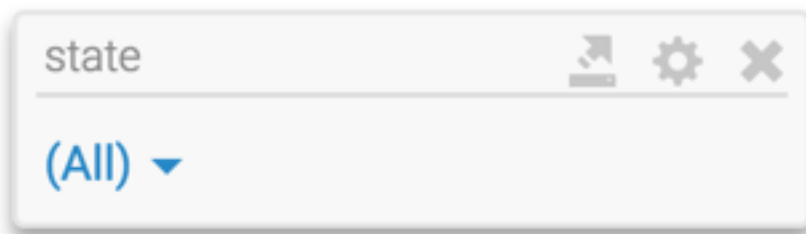
application controls can use custom output parameters. You can apply a filter defined in one dataset to control visual presentation based on information in another dataset. In most cases, there is a mismatch between the field names of the driver and target datasets. You can correctly specify this mapping by setting the value of the filter to the appropriate field in the target dataset.

### About this task

The following steps show you how to configure a filter based on the US Populations Over Time dataset to control the display in a visual based on the US County Population dataset.

### Procedure

1. Open an existing or new application in Edit mode.
2. Ensure that it has appropriate visuals from both datasets. If not, click the Visuals tab on the left navigation, and add the visuals to the application.
3. Click the Filters tab, and select the US State Populations Over Time dataset.
4. Under Dimensions, click the field state to add the filter to the application.
5. Hover over a filter that is already added to the application until the controls appear on the top right.



6. Click the Gear icon.



The Settings modal window appears.

7. In the Settings modal window, click the Values tab.

**8.** Set the values:

- Set Title to States.
- Set Output Parameter to sname.

### Settings ×

---

Values Scope Display Settings Custom Styling

---

**From Base Field**

**Title**

**Output Parameter**

**Filter Columns**



**Note:** From Base Field has the value state and cannot be changed.

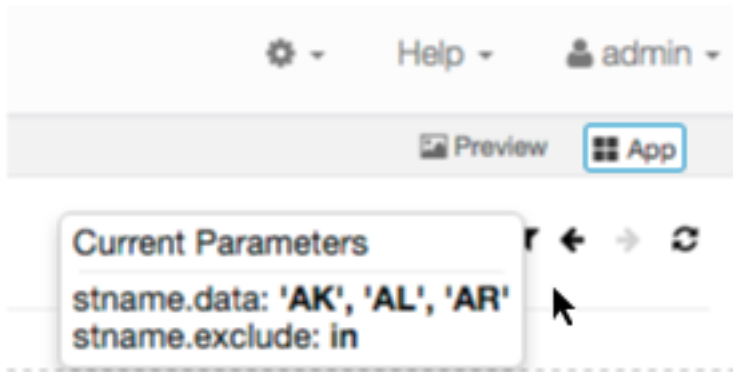
**9.** Click Apply.**10.** In the state filter, click Select and chose the following:

- AK
- AL
- AR

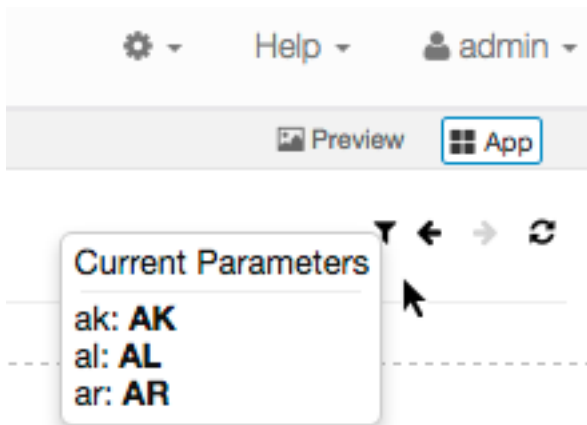


11. In the top right corner of the application, hover over the Filter icon control element.

This reports the current filtering parameters, correctly naming the output parameter field `sname`, and correctly identifying the filtering conditions set earlier.



If the option to Emit distinct parameters for each item selected is selected (under Display Settings tab), the filter reports the items as distinct key/value pairs. By default, the label for each key is derived from its value. If the labels are specified, such as in the case of optional parameters, they appear instead.



## Setting parameters through URL

### About this task

When you set parameters through the URL, you can dynamically add selection options without changing the saved values of the app. It is also easy to share these settings by including them in emails, documents, and so on.



**Note:** Limitations: URL strings must use single quotes (be a valid JSON array), and usual character limitations on URL addresses apply.

The basic syntax for URL formatting:

```
http://baseurl/arc/apps/app/id?config.output={setting: value}
```

#### baseurl

The ip address of the site, such as 27.0.0.1:8000, or sf.mycompany.org.

#### id

Unique number of the dashboard or the visual.

**output**

The output of the parameter or the picklist.

**setting**

Available option is VALUE.

**value**

An array of value-label pairs in the format [{"value1","label1"}, {"value2","label2"}, {"value3","label3"}, ...].

The following steps demonstrate how to use parameters through URLs.

**Procedure**

1. In the Settings modal window, in the Values tab, specify the Title and Output Parameter. In this example, we used test and result, respectively.
2. [Optional] Specify one or more Value:Label pairs. In this example, we used result1:1.
3. Click APPLY.

Settings
×

---

Values

[Data](#)
[Display Settings](#)
[Scope](#)
[Custom Style](#)

**Title**

**Output Parameter**

**Specified values**

Value	Label	
result1	1	🗑️
<i>Click to add a new row</i>		

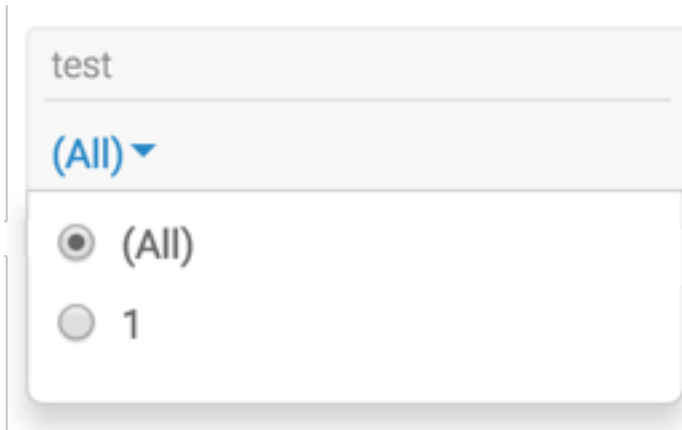
CANCEL

APPLY

4. In the dashboard, check the possible options for the parameter.

- In the test parameter, click the Down Arrow icon.

There are two options: (All) and 1.



- Select 1 and hover the pointer over the Filter icon at the top right of the dashboard.

The Current Parameters are set to result: result1 and result.alias: 1.



- Save the dashboard.
- Switch to View mode.
- Copy the URL.

In our example, it is `http://127.0.0.1:8000/arc/apps/app/38`.

- In another browser window, paste the value saved in the previous step, add the code specific to setting parameters through URL, and click enter.

In this example, we are adding two more pairs: `result2:2`, and `result3:3`. The new code is in bold font, starting with '?'.  
 In our example, it is `http://127.0.0.1:8000/arc/apps/app/38?config.result={values:[["result2","2"],["result3","3"]]}`

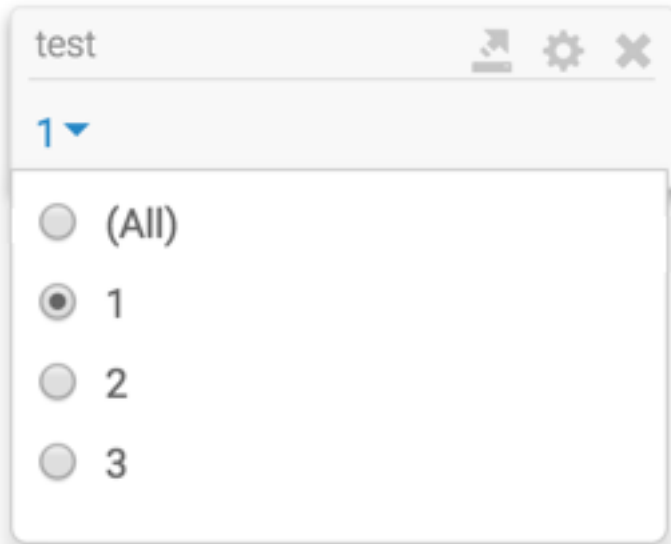
```
http://127.0.0.1:8000/arc/apps/app/38?config.result={values:
[["result2","2"],["result3","3"]]}
```

- In the dashboard, check the possible options for the parameter.

Options 2 and 3 appear in the selection list.

12. In the test parameter, click Select .

There are two additional options: 2 and 3.



13. Select 2 and hover the pointer over the Filter icon at the top right of the dashboard.

Current Parameters are set to result: result2 and result.alias: 2.



## Configuring data options for dashboard filters

allows you to configure data options of a newly created field-based or custom filter in a dashboard.

### About this task

Follow these steps to configure data options of a filter:

### Procedure

1. Click the Gear icon on the filter widget.

2. In the Settings modal window that appears, click the Data tab

Notice that Filter Options Sort Order has two options for field-based filters and three options for custom filters.

### Settings ×

---

**Values** | **Data** | Display Settings | Scope | Custom Style

---

Maximum number of rows to fetch ⓘ

**Field-based Filter**

Disable incremental queries, overriding dataset level setting

Filter Options Sort Order  Ascending  Descending

---

### Settings ×

---

**Values** | **Data** | Display Settings | Scope | Custom Style

---

Maximum number of rows to fetch ⓘ

**Custom Filter**

Disable incremental queries, overriding dataset level setting

Sort order of filter widget values  Ascending  Descending  Default

---

Settings
×

---

Values
Data
Style
Scope
Custom Style

**Maximum number of rows to fetch**

Range Filters

**Fixed minimum value for range**

**Fixed maximum value for range**

CANCEL

APPLY

3. Select one of the following options:

- [Dashboard: changing maximum rows to fetch](#) on page 46
- [Disabling incremental queries in filters](#) on page 47
- [Configuring sort order in filter values](#) on page 47

## Dashboard: changing maximum rows to fetch

In a dashboard, enables you to specify maximum number of rows to fetch in a visual request based on a field or a custom filter in a dashboard.

### About this task

The option Maximum number of rows to fetch limits the number of data rows returned by the query, initiated by this filter's action, and used by the visuals in the dashboard. At the individual visual level, the number of rows in a visual request defaults to 5000 rows. Setting a new maximum at the dashboard level, overrides the default behavior.

Follow these steps to specify maximum number of rows to fetch:

### Procedure

1. Click the Gear icon on the filter widget.
2. In the Settings modal window, switch to the Data tab, and select the Maximum number of rows to fetch option.

**Maximum number of rows to fetch** ⓘ

## Disabling incremental queries in filters

In the Data menu of a newly created field-based or custom filter in a dashboard, enables you to disable incremental queries at the level of the dashboard filter

### About this task

Incremental queries return preliminary results quicker and paints the visuals on the dashboard, and then adjusts the level of detail as more results are incorporated into the calculations. Disabling this feature delays the painting of the visuals until all results are in.

Follow these steps to disable incremental queries:

### Procedure

1. Click the Gear icon on the filter widget
2. In the Settings modal window, switch to the Data tab, and select the Disable incremental queries, overriding field-based-level setting option

Disable incremental queries, overriding dataset level setting

## Configuring sort order in filter values

enables you to select the sort order of filter values.

### About this task

There are different sort order options available on [field-based filters](#) and [custom filters](#).

Follow these steps to select the sort order of the filter values.

### Procedure

1. Click the Gear icon on the filter widget.

2. In the Settings modal window, switch to the Data tab, and select the Filter Options Sort Order option.

Sort Order of Filter Widget Values on Field-based Filters

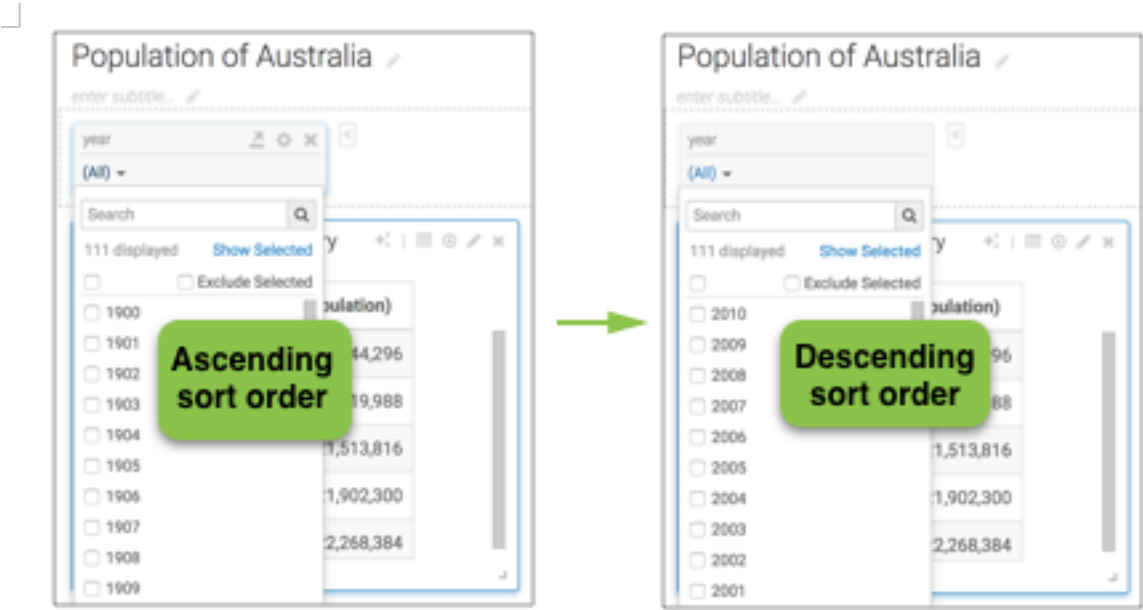
For a field-based filter, there are two sort options available under the Filter Options Sort Order setting:

- Ascending
- Descending

By default, filter widget values are displayed in ascending order (image on the left). In our example, to see the most recent population of Australia first, select the Descending option (image on the right).

Filter Options Sort Order  Ascending  Descending

By default, filter widget values are displayed in ascending order (image on the left). In our example, to see the most recent population of Australia first, select the Descending option (image on the right).



Sort Order of Filter Widget Values on Custom Filters

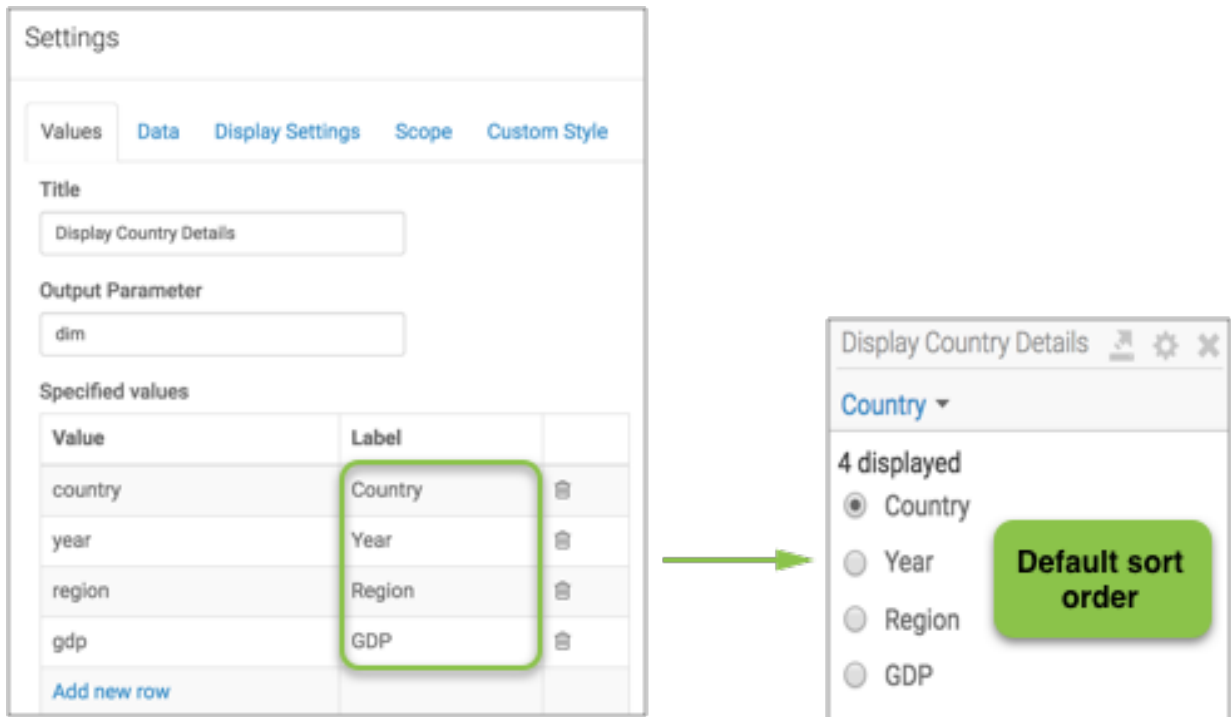
For a custom filter, there are three sort options available under the Filter Options Sort Order setting:

- Ascending
- Descending
- Default

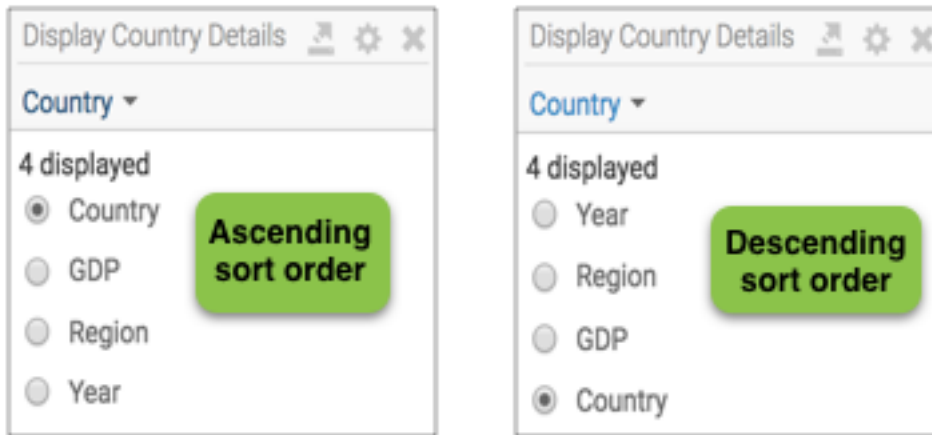
Filter Options Sort Order  Ascending  Descending  Default

The default setting of the sort order in a custom filter is Default. In the following image, notice that the default sort order in the filter widget is the same as the labels of the custom filter added in the Values tab: Country, Year, Region, and GDP.





You can select the Ascending option to change the sort order to country, GDP, Region, and Year, or select the Descending option to change the sort order to Year, Region, GDP, and Country.



## Configuring display settings for dashboard filters

enables you to specify display settings of a custom filter in the dashboard.

### About this task

Follow these steps to configure display settings in a filter:

### Procedure

1. Click the Gear icon on the filter widget

2. In the Settings modal window, click the Display Settings tab to examine the following options:

- *Displaying a parameter text box*
- *Changing the width of the filter text box*
- *Entering values manually*
- *Changing number of initial options in dashboard filters*
- *Changing number of options in search output of dashboard filters*
- *Using single value mode with radio buttons*
- *Selecting all values*
- *Using single value with dropdown menu*
- *Displaying distinct parameters*
- *Hiding filters*
- *Remembering previous selections on dashboard filters*
- *Using multi-select mode*

**Figure 1: Settings: Display Settings configuration**

Settings ×

Values Data **Display Settings** Scope Custom Style

Display a textbox parameter ⓘ

Width of this filter (in px)

Allow the user to add values to the filter

Maximum default number of values displayed

Maximum number of search results displayed

Allow only one item to be selected at a time

Select values from a dropdown menu ⓘ  
 Include an option for 'All'

Emit distinct parameters for each selected item

Hide filter if no input data ⓘ

Remember previous selections

Apply all changes to a multi-select list at the same time ⓘ

### Related Information

- [Displaying a parameter text box](#)
- [Changing the width of the filter text box](#)
- [Entering values manually](#)
- [Changing number of initial options in dashboard filters](#)
- [Changing number of options in search output of dashboard filters](#)
- [Using single value mode, with radio buttons](#)
- [Selecting all values](#)
- [Using single value, with dropdown menu](#)
- [Displaying distinct parameters](#)
- [Hiding filters](#)

[Remembering previous selections on dashboard filters](#)  
[Using multi-select mode](#)

## Displaying a parameter text box

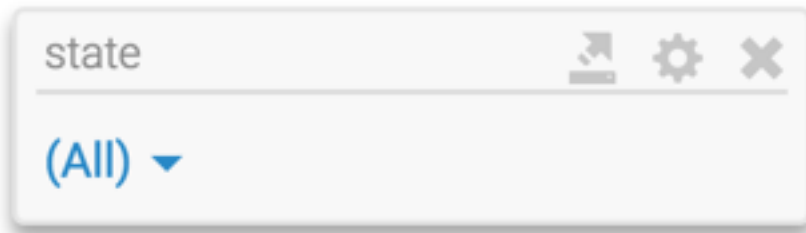
In a dashboard filter, you can specify a parameter filter text box.

### About this task

If checked, this option supersedes all other values included in the Specified values option, on the Values tab of the Settings window modal. Instead, the user enters a parameter value they want to use at runtime, or search for data that matches certain values.. It creates a simple search box filter.

### Procedure

1. In dashboard Edit mode, hover over a filter that is already added to the dashboard, until the controls appear on the top right.



2. Click the Gear icon.



The Settings modal window appears.

- 3. In the Settings modal window, under Display Settings tab, check the following option:
  - Display a text box parameter
  - [This is on by default] Remember previous selections

Settings ×

Values   Data   **Display Settings**   Scope   Custom Style

Display a textbox parameter ⓘ

Width of this filter (in px)

Allow the user to add values to the filter

Maximum default number of values displayed

Maximum number of search results displayed

Allow only one item to be selected at a time

- Select values from a dropdown menu ⓘ
- Include an option for 'All'

Emit distinct parameters for each selected item

Hide filter if no input data ⓘ

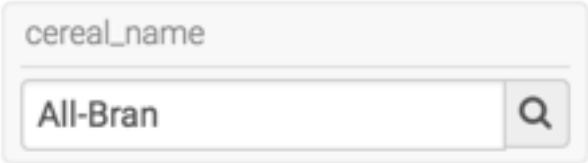
Remember previous selections

Apply all changes to a multi-select list at the same time ⓘ

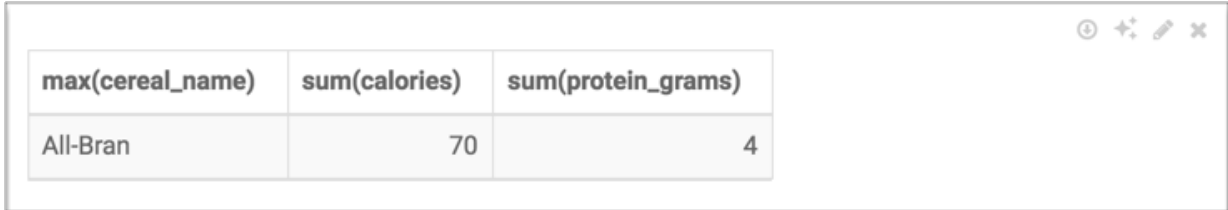
- 4. Click Apply.  
Parameter filter text box appears.



- 5. Enter a value in the text box. We entered All-Bran.



- The visual displays only All-Bran details.



max(cereal_name)	sum(calories)	sum(protein_grams)
All-Bran	70	4

## Changing the width of the filter text box

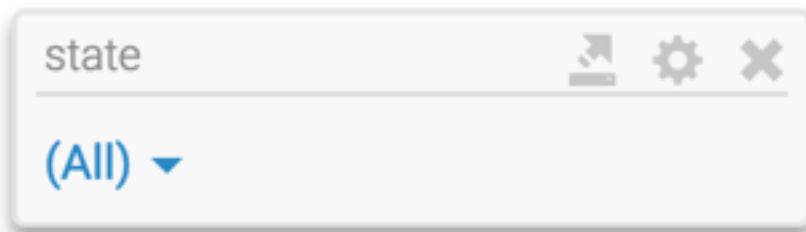
In a dashboard filter, you can change the width of the filter text box.

### About this task

Follow these steps to change the width of the filter text box:

### Procedure

- In dashboard Edit mode, hover over a filter that is already added to the dashboard, until the controls appear on the top right.



- Click the Gear icon.



The Settings modal window appears.

- In the Settings modal window, click Display Settings.

4. Enter a value in the Width (in filter mode) box to change the width of the filter box.

Here, we set the width of the filter to 400.

The screenshot shows a 'Settings' dialog box with a close button (x) in the top right corner. It has four tabs: 'Values', 'Data', 'Display Settings' (which is selected), 'Scope', and 'Custom Style'. Under the 'Display Settings' tab, there are several options:

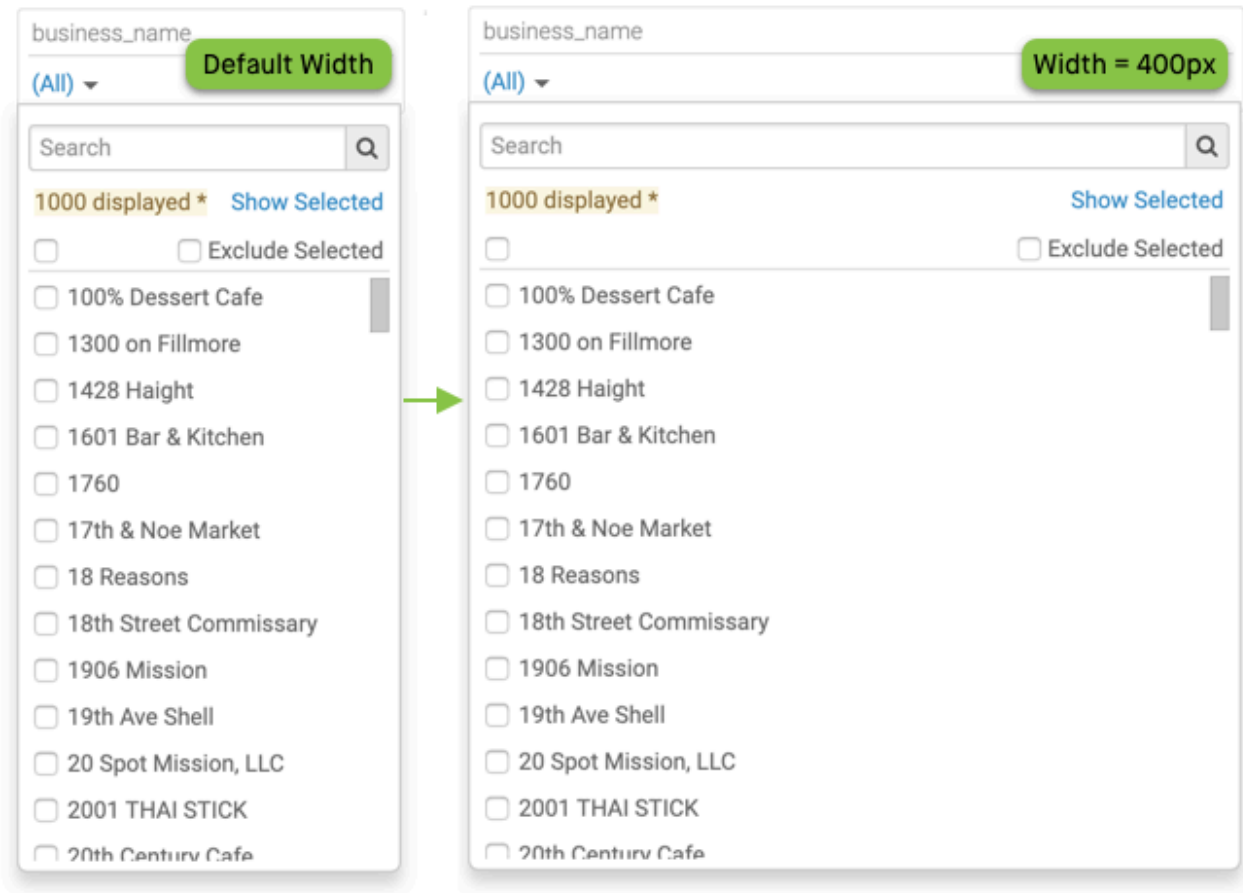
- Display a textbox parameter ⓘ
- Width of this filter (in px)**  
A text input field containing the number '400' is highlighted with a green border.
- Allow the user to add values to the filter
- Maximum default number of values displayed** - 1000 +
- Maximum number of search results displayed** - 1000 +
- Allow only one item to be selected at a time
  - Select values from a dropdown menu ⓘ
  - Include an option for 'All'
- Emit distinct parameters for each selected item
- Hide filter if no input data ⓘ
- Remember previous selections
- Apply all changes to a multi-select list at the same time ⓘ

At the bottom right of the dialog, there are two buttons: 'CANCEL' and 'APPLY'.

5. Click Apply.

**Example**

Consider the following example that compares the same filter with default width, and with the width of 400px.



## Entering values manually

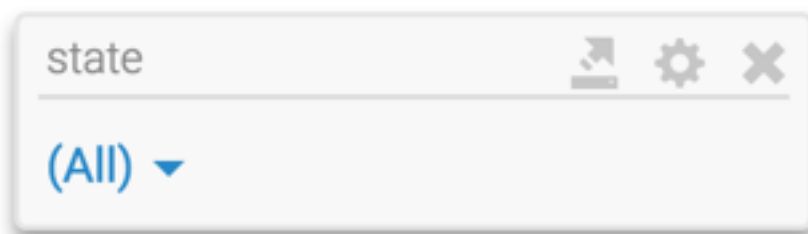
Change the display settings of a custom filter in a dashboard.

### About this task

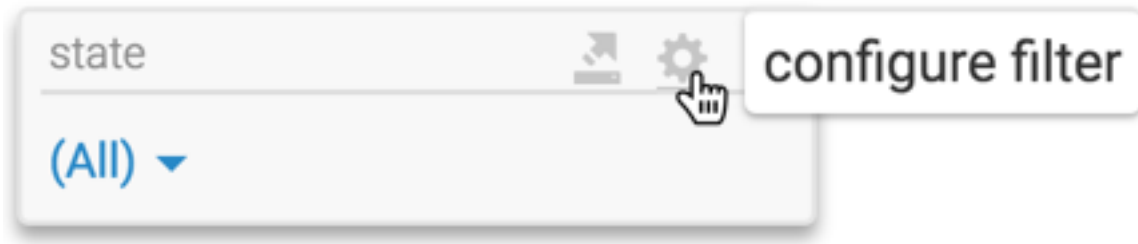
This option allows the user to select multiple values in bulk, instead of selecting them individually from a menu. For instance, you can copy multiple values from a table and paste them in a text box.

### Procedure

1. In application View mode, hover over a filter that is already added to the application, until the controls appear on the top right.



2. Click the Gear icon.



The Settings modal window appears.

3. In the Settings modal window, under Display Settings tab, check the following option:

- Allow the user to add values to the filter
- [This is on by default] Remember previous selections

Settings ×

Values Data **Display Settings** Scope Custom Style

Display a textbox parameter ⓘ

Width of this filter (in px)

Allow the user to add values to the filter

Maximum default number of values displayed

Maximum number of search results displayed

Allow only one item to be selected at a time

- Select values from a dropdown menu ⓘ
- Include an option for 'All'

Emit distinct parameters for each selected item

Hide filter if no input data ⓘ

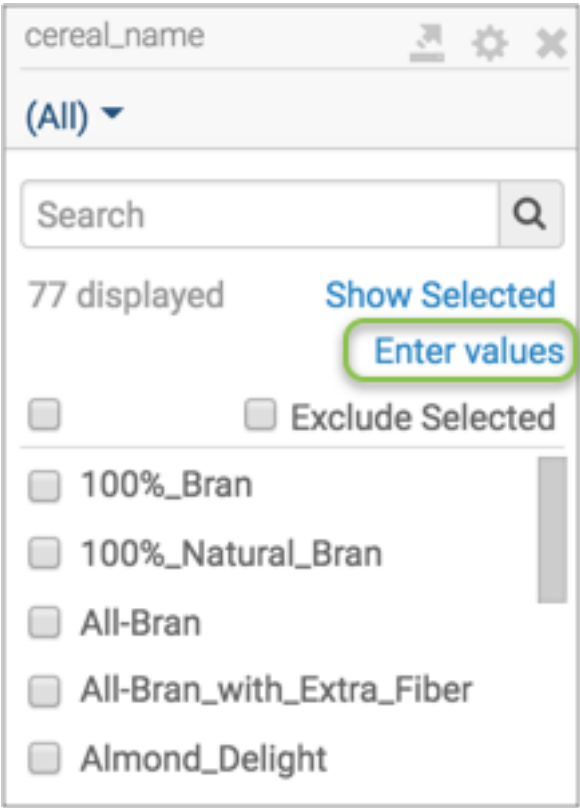
Remember previous selections

Apply all changes to a multi-select list at the same time ⓘ



4. Click Apply.

The Enter values link appears.



5. Click Enter Values.

The Set Filter Values modal appears.

### Set Filter Values

Enter values below:

100%\_Bran  
Almond\_Delight  
Apple\_Jacks  
Basic\_4

CANCEL

SET VALUES 

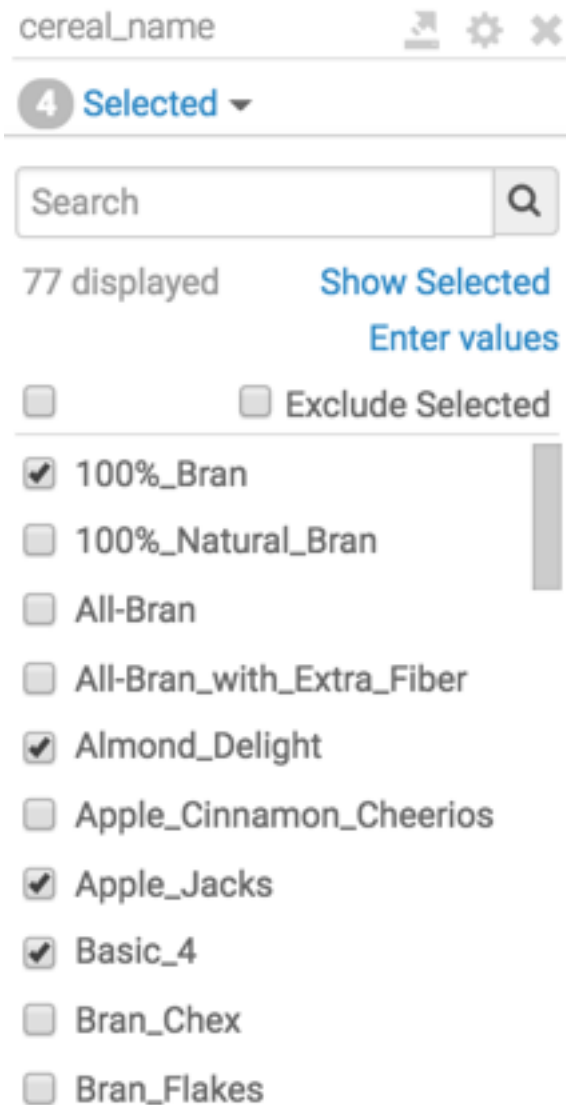
6. Enter values manually in the Enter values below: text box.

We entered:

- 100%\_Bran
- Almond\_Delight
- Apple\_Jacks,
- Basic\_4

## 7. Click Set Values.

In the following image, notice that all the four values that we entered manually in the text box are selected.



## Changing number of initial options in dashboard filters

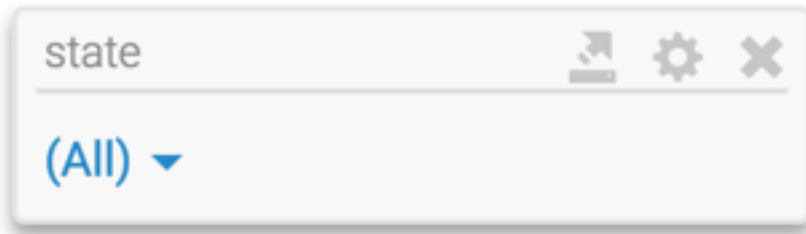
In a dashboard filter, you can control the number of initial options that appear in the dashboard filter at loading time. This limits the display of options for datasets with a very large variability.

### About this task

To change the number of options that appear in the dashboard filter at loading time, and before you enter a search criteria, follow these steps:

**Procedure**

1. In dashboard Edit mode, hover over a filter that is already added to the dashboard, until the controls appear on the top right.



2. Click the Gear icon.



The Settings modal window appears.

Settings ×

---

Values
Data
Display Settings
Scope
Custom Style

---

Display a textbox parameter ⓘ

Width of this filter (in px)

Allow the user to add values to the filter

Maximum default number of values displayed - 1000 +

Maximum number of search results displayed - 1000 +

Allow only one item to be selected at a time

Select values from a dropdown menu ⓘ  
 Include an option for 'All'

Emit distinct parameters for each selected item

Hide filter if no input data ⓘ

Remember previous selections

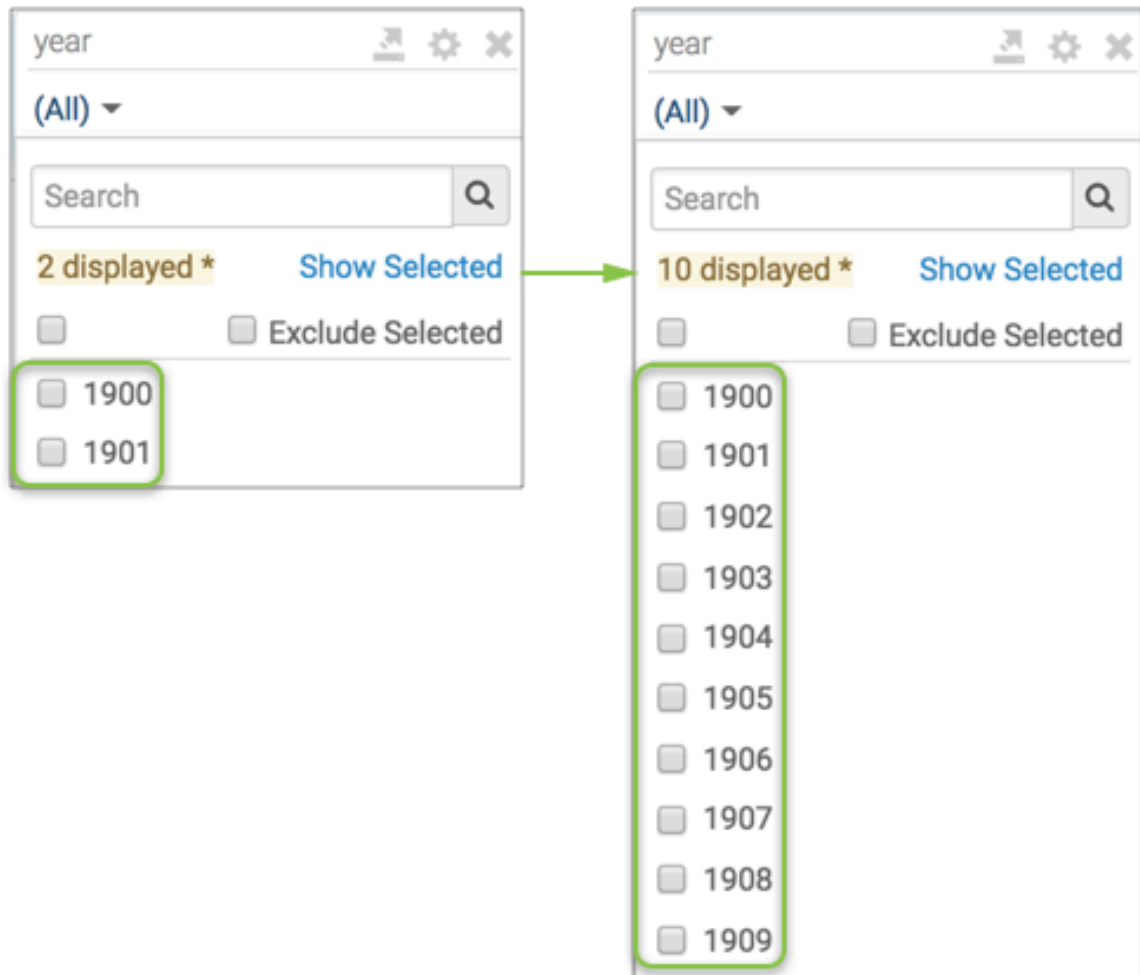
Apply all changes to a multi-select list at the same time ⓘ

CANCEL
APPLY

3. In the Settings modal window, click Display Settings. The Remember previous selections option is checked by default.
4. Enter a value in the Maximum default number of values displayed. Default is 1000.

5. Click Apply.

In the following example, let us compare the difference in number of values displayed when we change the Maximum default number of values displayed setting from 2 to 10. Notice that the search text box is empty. The number of items displayed depends on the setting in this option, not on the search criteria.



## Changing number of options in search output of dashboard filters

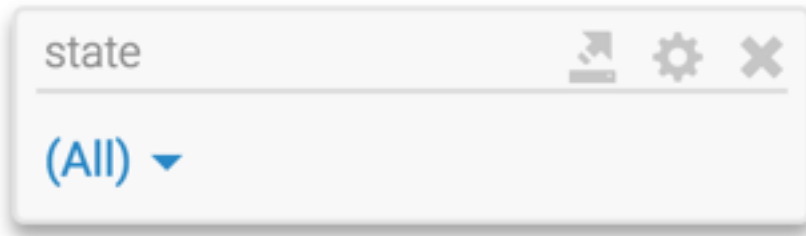
In a dashboard filter, you can change the maximum number of options that appear during search. This limits the display of options for datasets with a very large variability.

### About this task

To change the number of items that are displayed when you search for options in the filter, follow these steps:

**Procedure**

1. In dashboard View mode, hover over a filter that is already added to the dashboard, until the controls appear on the top right.



2. Click the Gear icon.



The Settings modal window appears.

Settings ×

---

Values
Data
Display Settings
Scope
Custom Style

---

Display a textbox parameter ⓘ

Width of this filter (in px)

Allow the user to add values to the filter

Maximum default number of values displayed

Maximum number of search results displayed

Allow only one item to be selected at a time

Select values from a dropdown menu ⓘ  
 Include an option for 'All'

Emit distinct parameters for each selected item

Hide filter if no input data ⓘ

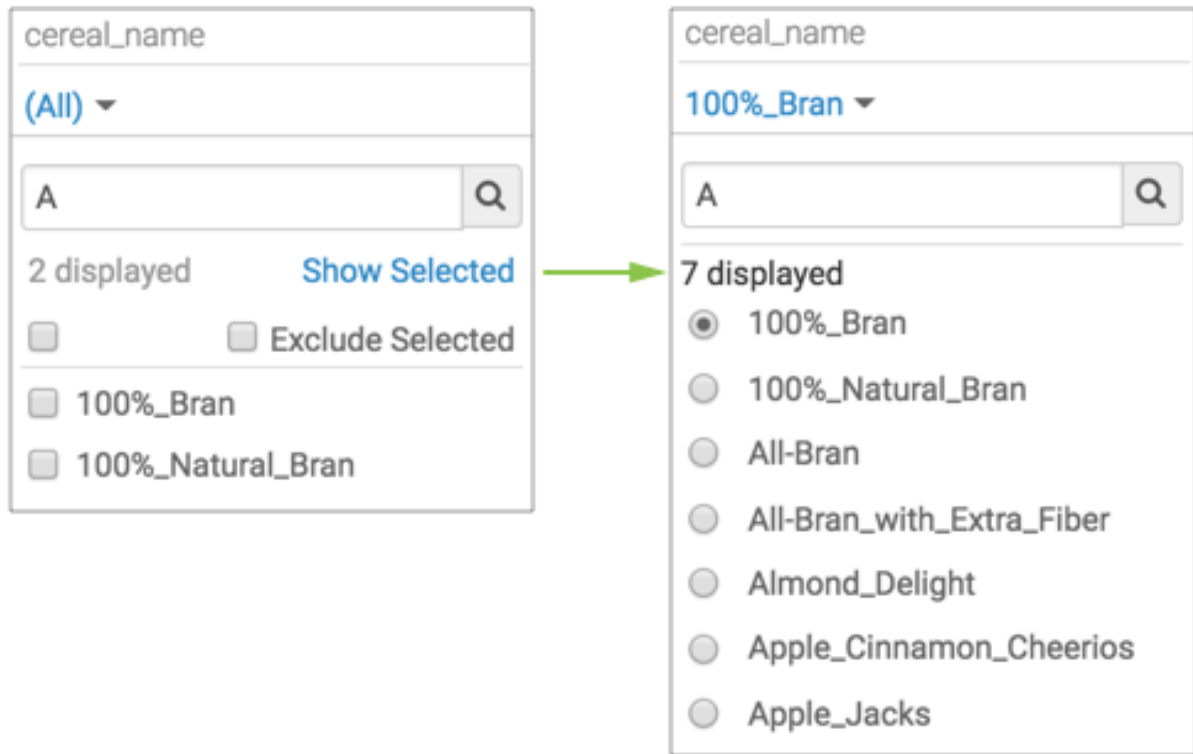
Remember previous selections

Apply all changes to a multi-select list at the same time ⓘ

3. In the Settings modal window, click Display Settings. The Remember previous selections option is checked by default.
4. Enter a value in the Maximum number of search results displayed. Default is 1000.
5. Click Apply.

**Example**

In the following example, we search for options that contain the letter A. Notice the difference in number of items displayed when we changed the Maximum number of search results displayed setting from 2 to 7.

**Using single value mode, with radio buttons**

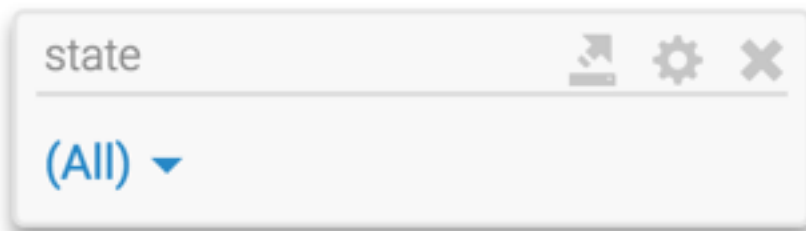
In a dashboard filter, you have an option to select a single value from the menu.

**About this task**

This mode of dashboard controls uses radio button choices to let the user select a single value.

**Procedure**

1. In the dashboard's Edit mode, hover over a filter until its controls appear on the top right.



2. Click the Gear icon.

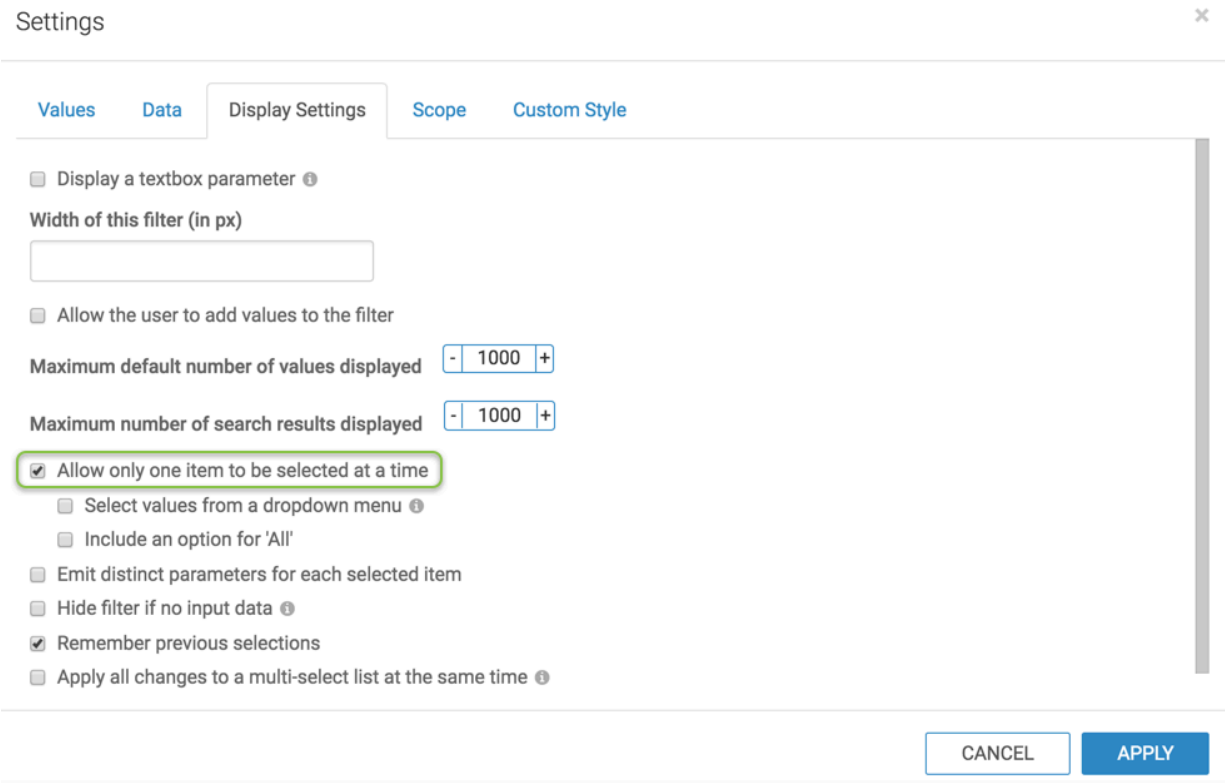


The Settings modal window appears.

3. In the Settings modal window, under Display Settings tab, check these options:

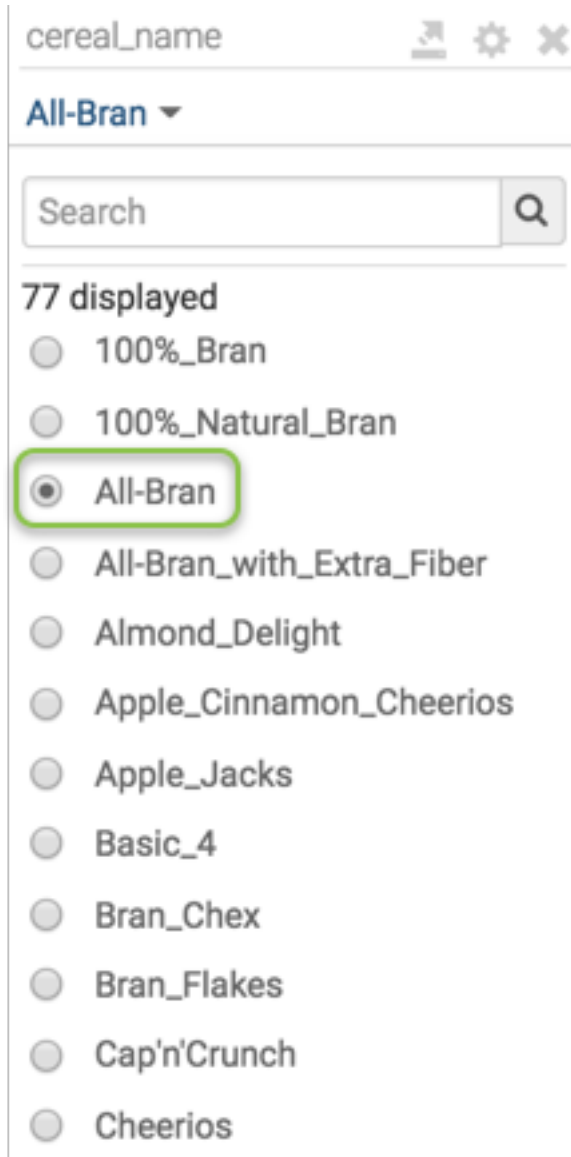
- Allow only one item to be selected at a time
- [This is on by default] Remember previous selections

4. Click Apply.





5. Notice that you can only select a single item from the menu.



The image shows a dashboard filter for 'cereal\_name'. At the top, there are three icons: a chart, a gear, and a close button. Below the filter name is a dropdown menu currently showing 'All-Bran'. Underneath the dropdown is a search box with the placeholder text 'Search' and a magnifying glass icon. Below the search box, it says '77 displayed'. A list of cereal names follows, each with a radio button. The 'All-Bran' option is selected and highlighted with a green rounded rectangle. The other options listed are: 100%\_Bran, 100%\_Natural\_Bran, All-Bran\_with\_Extra\_Fiber, Almond\_Delight, Apple\_Cinnamon\_Cheerios, Apple\_Jacks, Basic\_4, Bran\_Chex, Bran\_Flakes, Cap'n'Crunch, and Cheerios.

## Selecting all values

In a dashboard filter, you can ensure that all data may be examined at once.

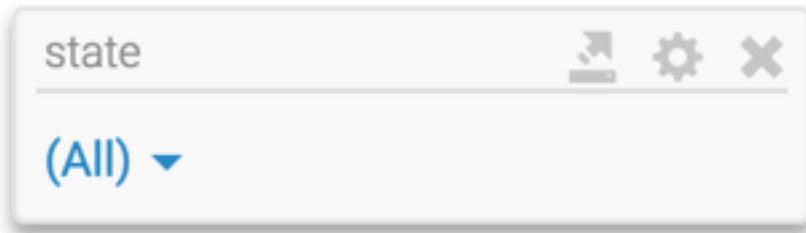
### About this task

In single select mode on a cereal name filter, you can only look at details of one cereal. It may be interesting to look at information of all cereals at the same time.

Follow these steps to select all options at the same time:

**Procedure**

1. In dashboard Edit mode, hover over a filter until its controls appear on the top right.



2. Click the Gear icon.



The Settings modal window appears.

Settings
×

---

Values
Data
Display Settings
Scope
Custom Style

Display a textbox parameter ⓘ

Width of this filter (in px)

Allow the user to add values to the filter

Maximum default number of values displayed

Maximum number of search results displayed

Allow only one item to be selected at a time

Select values from a dropdown menu ⓘ

Include an option for 'All'

Emit distinct parameters for each selected item

Hide filter if no input data ⓘ

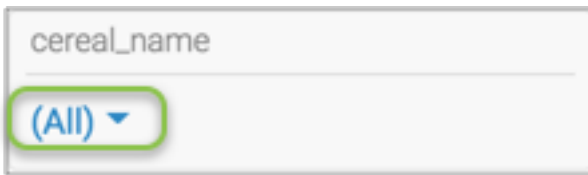
Remember previous selections

Apply all changes to a multi-select list at the same time ⓘ

CANCEL
APPLY

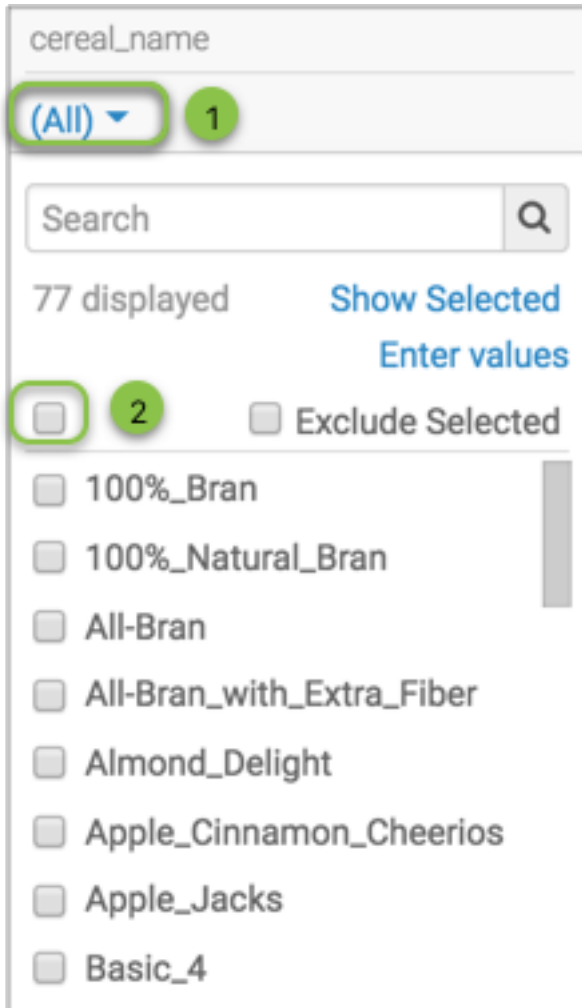
3. In the Settings modal window, under Display Settings tab, check the following option:
  - Allow only one item to be selected at a time
  - [This is on by default] Remember previous selections
4. Check the following sub-options:
  - Include an option for '(All)'
  - [Optional] Select values from a dropdown

5. Click Apply.
6. The All option appears in the filter box.



A screenshot of a dashboard filter box for the field 'cereal\_name'. The filter box contains a dropdown menu with the option '(All)' selected and highlighted with a green circle.

7. To select all values, follow these steps:
  - a. Click on the arrow beside All to open a dropdown menu.
  - b. Click the check box to select all values at the same time.



A screenshot of a dashboard filter box for the field 'cereal\_name'. The filter box is open, showing a dropdown menu with the option '(All)' selected and highlighted with a green circle. A green circle with the number '1' is next to the dropdown arrow. Below the dropdown menu, there is a search bar, a '77 displayed' indicator, and a 'Show Selected' button. Below the search bar, there is a checkbox labeled 'All' (highlighted with a green circle and a green circle with the number '2') and an 'Exclude Selected' checkbox. Below the checkboxes, there is a list of cereal names with checkboxes next to them: 100%\_Bran, 100%\_Natural\_Bran, All-Bran, All-Bran\_with\_Extra\_Fiber, Almond\_Delight, Apple\_Cinnamon\_Cheerios, Apple\_Jacks, and Basic\_4.

## Using single value, with dropdown menu

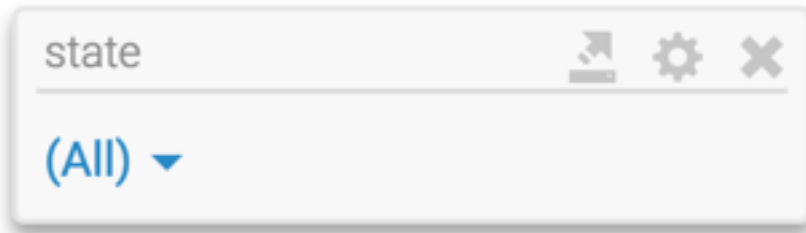
In a dashboard filter, you can select a single value from a dropdown menu.

### About this task

This mode of filtering enables you to select a single value from a dropdown menu. It uses a dropdown menu for selection.

**Procedure**

1. In dashboard Edit mode, hover over a filter until its controls appear on the top right.



2. Click the Gear icon.



The Settings modal window appears.

3. In the Settings modal window, under Display Settings tab, check the following option:
  - Allow only one item to be selected at a time
  - [This is on by default] Remember previous selections
4. Check the following sub-options:
  - Select values from a dropdown menu
  - [Optional] Include an option for '(All)'

## 5. Click Apply.

Settings
✕

---

Values
Data
Display Settings
Scope
Custom Style

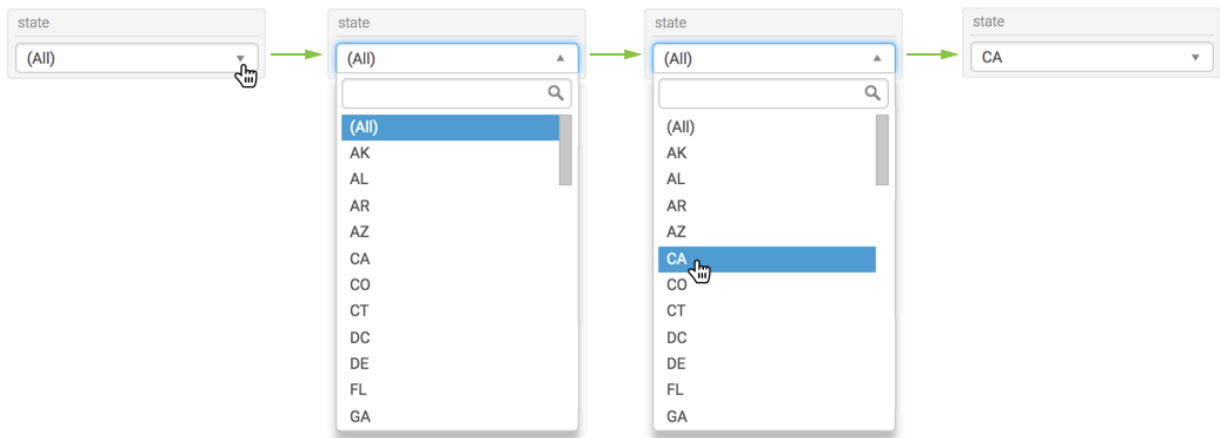
Display a textbox parameter ⓘ  
**Width of this filter (in px)**  
  
 Allow the user to add values to the filter  
**Maximum default number of values displayed**     
**Maximum number of search results displayed**     

Allow only one item to be selected at a time  
 Select values from a dropdown menu ⓘ  
 Include an option for 'All'

 Emit distinct parameters for each selected item  
 Hide filter if no input data ⓘ  
 Remember previous selections  
 Apply all changes to a multi-select list at the same time ⓘ

## 6. Manipulate the filter widget in the following ways:

- In the state filter, click the Down Arrow icon to open the menu of available choices.  
The application control expands.
- [Optional] In the Search box, enter the search term and click the Search icon.
- Make your selections, as needed.



Notice that you can only select a single item from the menu.

## Displaying distinct parameters

In a dashboard filter, you can ensure that parameters show a distinct 'key': 'value' pair.

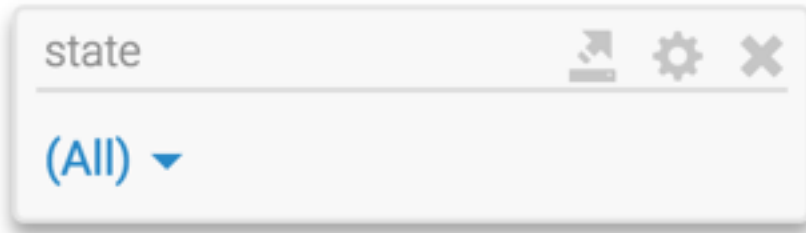
### About this task

This option ensures that each selection is processed by the filter as a distinct 'key':'value' pair. By default, the selections are passed as a 'key':'list of values'.

This option enables a single filter to be potentially used for multiple purposes.

### Procedure

1. In dashboard Edit mode, hover over a filter until its controls appear on the top right.



2. Click the Gear icon.



The Settings modal window appears.

3. In the Settings modal window, under Display Settings tab, check the following option:
  - Emit distinct parameters for each item selected
  - [This is on by default] Remember previous selections

4. Click Apply.

Settings
✕

---

Values
Data
Display Settings
Scope
Custom Style

Display a textbox parameter ⓘ

Width of this filter (in px)

Allow the user to add values to the filter

Maximum default number of values displayed

Maximum number of search results displayed

Allow only one item to be selected at a time
 

- Select values from a dropdown menu ⓘ
- Include an option for 'All'
- Emit distinct parameters for each selected item
- Hide filter if no input data ⓘ
- Remember previous selections
- Apply all changes to a multi-select list at the same time ⓘ

5. Click the Filter icon in the top right corner to view the current parameters.

Notice when the Emit distinct parameters for each item selected option is selected, parameters show a distinct 'key': 'value' pair.

```

Current Parameters
100%_bran: 100%_Bran
100%_natural_bran: 100%_Natural_Bran
all-bran: All-Bran
all-bran_with_extra_fiber: All-Bran_with_Extra_Fiber
  
```

*Emit distinct parameters for each item selected, no labels specified (key:value)*

```

Current Parameters
cereal_name.data: '100%_Bran', '100%_Natural_Bran', 'All-Bran', 'All-Bran_with_Extra_Fiber'
  
```

*[Default] All value items referenced by the same parameter (one key, several values)*

### Hiding filters

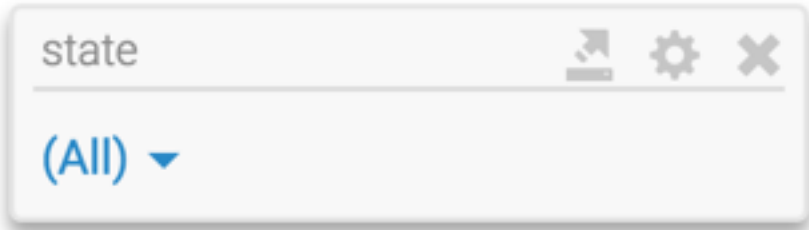
Hide the custom filter in a dashboard.

#### About this task

If no viable selection data exists, this option hides the filter in View mode.

**Procedure**

- 1. In dashboard Edit mode, hover over a filter that is already added to the dashboard, until the controls appear on the top right.

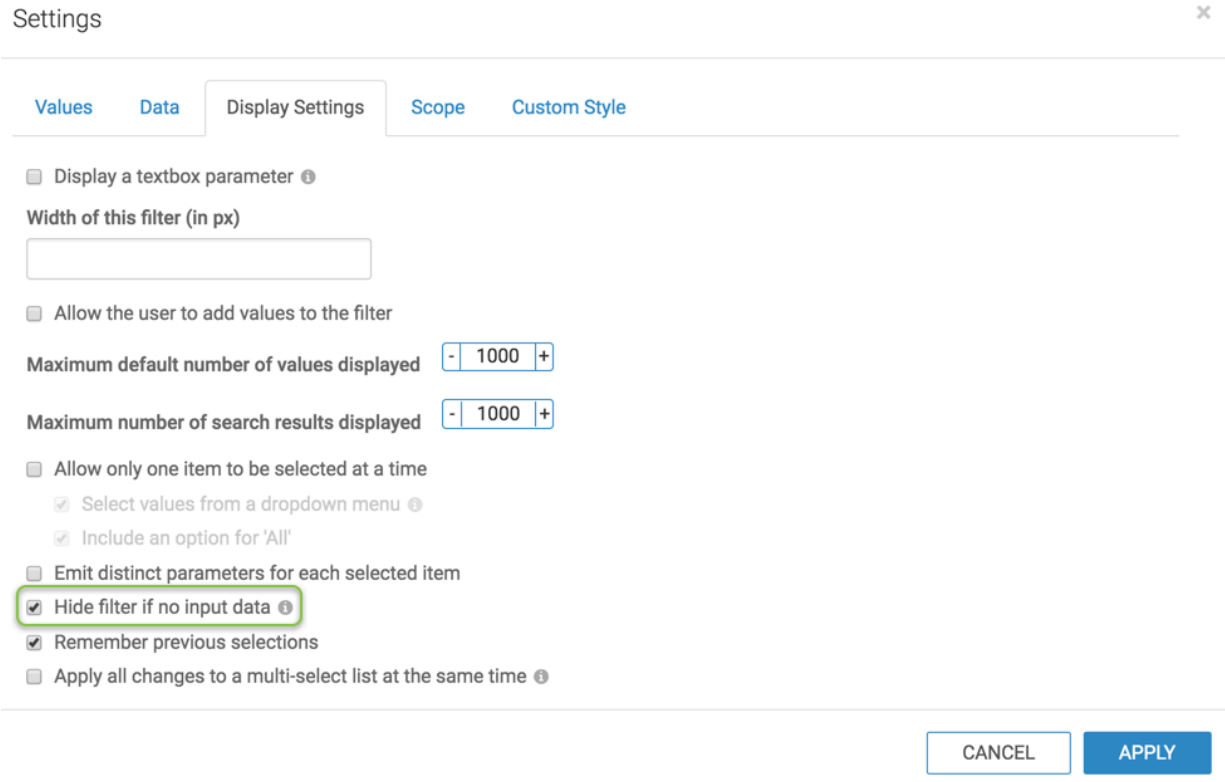


- 2. Click the Gear icon.



The Settings modal window appears.

- 3. In the Settings modal window, under Display Settings tab, check the following option:
  - Hide filter when no input data is present
  - [This is on by default] Remember previous selections



- 4. Click Apply.



## Remembering previous selections on dashboard filters

In dashboard filters, you can view previous selections when searching for a new value.

### About this task

This option is on by default.

Here, we demonstrate how to enable or disable this option, and how the filter behaves at run time both with and without the option:

- [Enabling 'Remember Previous Selections'](#)
- [Using Filters with 'Remember Previous Selection'](#)
- [Using Filters Without 'Remember Previous Selection'](#)

### Procedure

Enabling 'Remember Previous Selections'

1. In dashboard Edit mode, hover over a filter on the dashboard until the controls appear on the top right corner of the widget.
2. Click the Gear icon.

The Settings modal window appears.

3. In the Settings modal window, click the Display Settings tab.
4. Select the option Remember previous selections. By default, it is turned on.

Settings
×

---

Values
Data
Display Settings
Scope
Custom Style

Display a textbox parameter ⓘ

Width of this filter (in px)

Allow the user to add values to the filter

Maximum default number of values displayed

Maximum number of search results displayed

Allow only one item to be selected at a time

- Select values from a dropdown menu ⓘ
- Include an option for 'All'

Emit distinct parameters for each selected item

Hide filter if no input data ⓘ

Remember previous selections

Apply all changes to a multi-select list at the same time ⓘ

CANCEL

APPLY

5. Click Apply.
6. Save changes to the dashboard.



#### Note:

To disable the option, follow the previous steps and de-select the option.

### Using Filters with 'Remember Previous Selection'

To see how the 'Remember previous selections' option works, you must see the dashboard in View mode. Contrast this with the next section, [Using Filters Without 'Remember Previous Selection'](#).

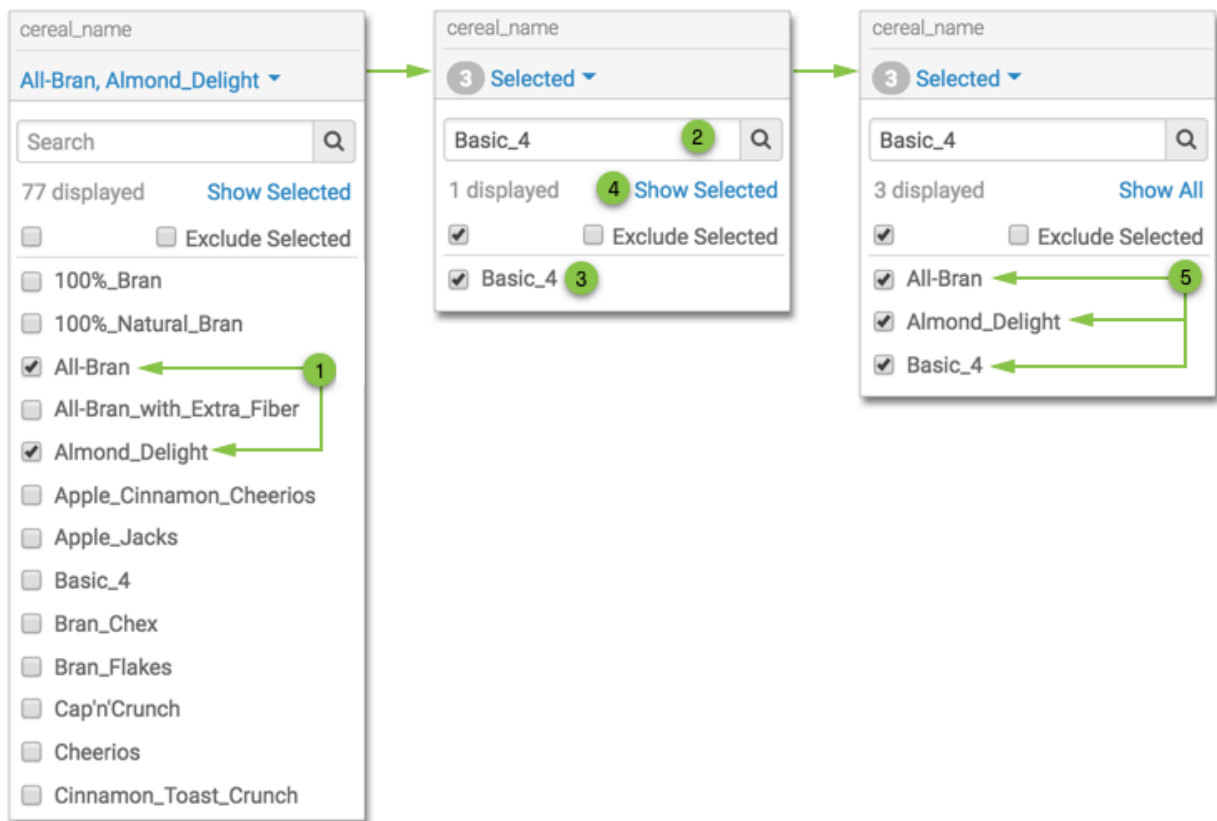
Here, we are using a dashboard based on Cereals dataset, and a dashboard filter based on the dataset field `cereal_name`.

Follow these steps:

7. Select All-Bran and Almond-Delight from the dropdown menu.
8. Enter Basic\_4 in the search box, and click the Search icon to find the value.
9. Click Basic\_4 to confirm the selection.
10. Click the Show Selected option.

Note that the top bar and the list at the bottom shows three selections, the previous two selections and the new selection:

- All-Bran
- Almond-Delight
- Basic\_4



### Using Filters Without 'Remember Previous Selection'

When this option is disabled, the user is unable to see the previous selections.

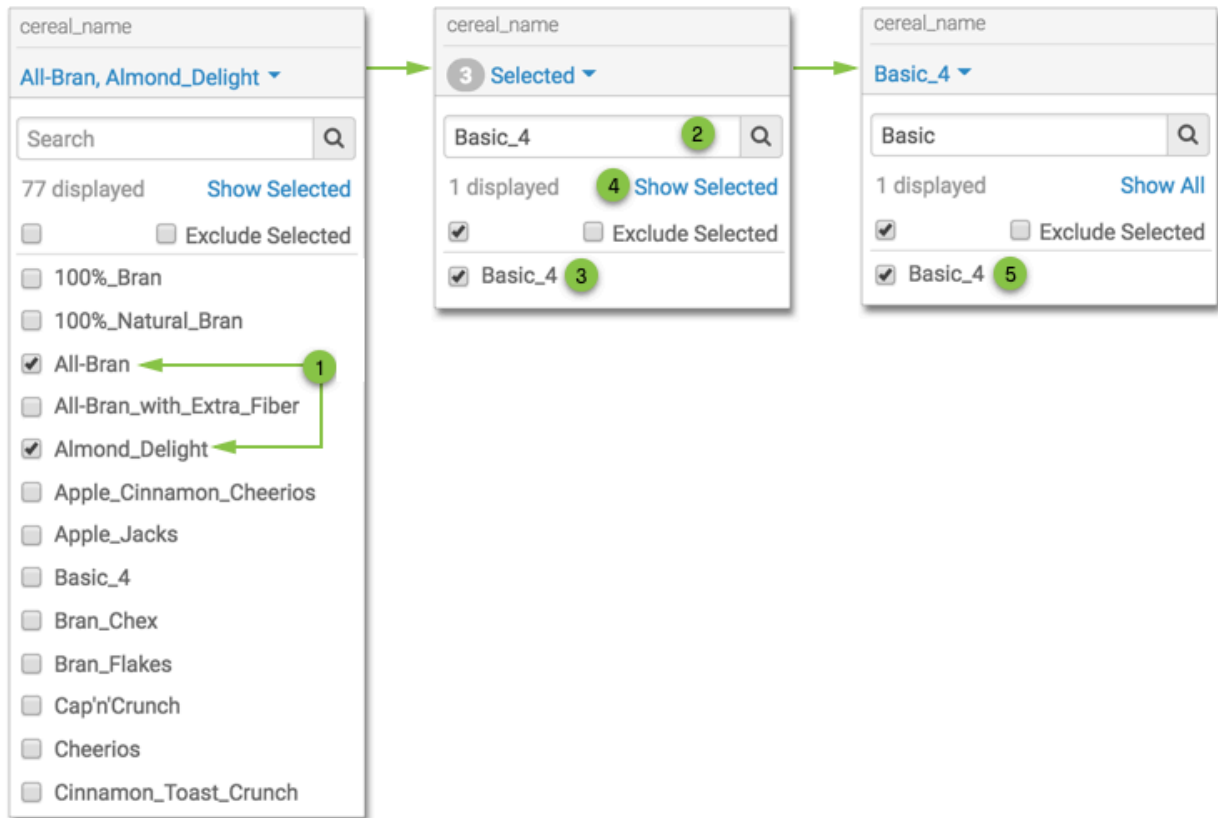
Here, we are using the same dashboard and filter on `cereal_name` as in the previous section, [Using Filters with 'Remember Previous Selection'](#), but with the option disabled.

To use the filter without the option, follow these steps:

11. Select All-Bran and Almond-Delight from the dropdown menu.
12. Enter Basic\_4 in the search box, and click the Search icon to find the value.
13. Click Basic\_4 to confirm the selection.

**14.** Click Show Selected.

Note that the top bar and the list at the bottom shows only the last selection, Basic\_4.



## Using multi-select mode

In dashboard filters, you can select multiple options in the dropdown menu.

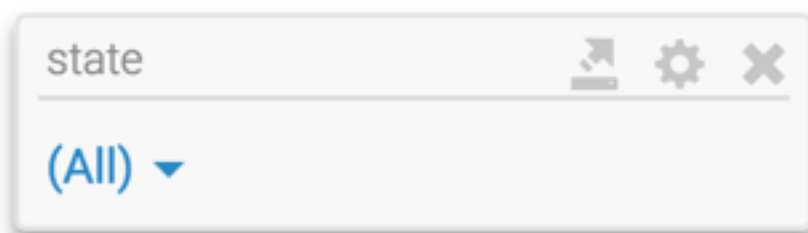
### About this task

This option allows the user to select multiple options in the dropdown, then apply all changes to the filter together by clicking outside the table. This collapses the list. For multi-select list, this is a recommended option as it minimizes the query refresh time.

This is the default mode for application controls.

### Procedure

1. In dashboard Edit mode, hover over a filter that is already added to the dashboard, until the controls appear on the top right.



- Click the Gear icon.



The Settings modal window appears.

- In the Settings modal window, click the Display Settings tab.

The Remember previous selections option is checked by default.

- Select Apply all changes to a multi-select list at the same time.
- Click Apply.

 A screenshot of the 'Settings' modal window. The window has a title bar with 'Settings' and a close button. Below the title bar are five tabs: 'Values', 'Data', 'Display Settings', 'Scope', and 'Custom Style'. The 'Display Settings' tab is selected. The settings include:
 

- Display a textbox parameter ⓘ
- Width of this filter (in px):
- Allow the user to add values to the filter
- Maximum default number of values displayed:
- Maximum number of search results displayed:
- Allow only one item to be selected at a time
  - Select values from a dropdown menu ⓘ
  - Include an option for 'All'
- Emit distinct parameters for each selected item
- Hide filter if no input data ⓘ
- Remember previous selections
- Apply all changes to a multi-select list at the same time ⓘ

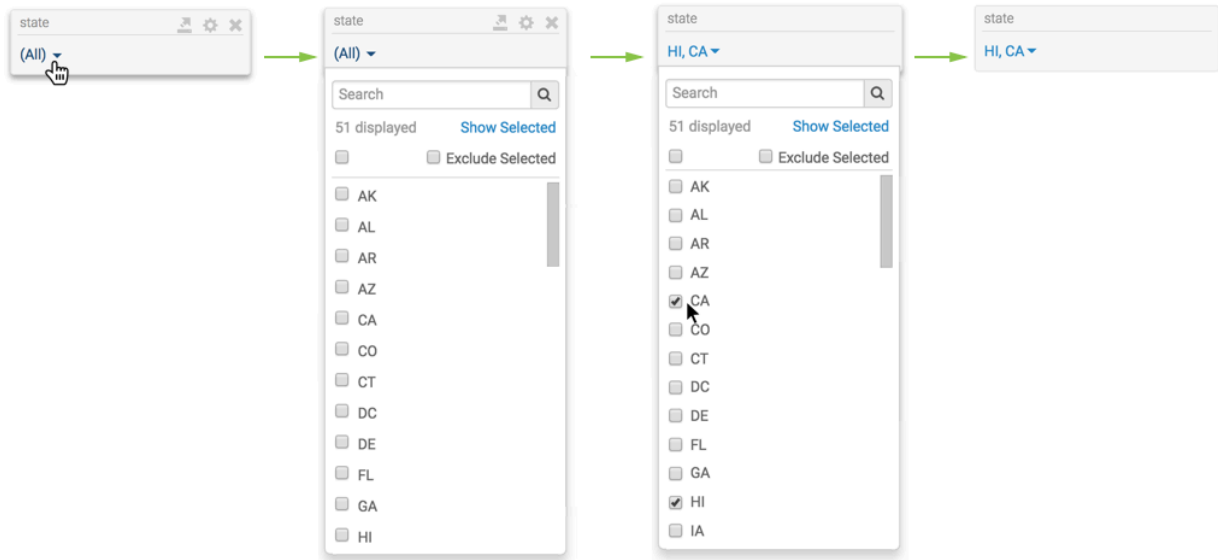
 At the bottom right, there are two buttons: 'CANCEL' and 'APPLY'.

- Manipulate the filter widget in the following ways:

- In the state filter, click the Down Arrow icon to open the menu of available choices.
  - The application control expands.
- [Optional] In the Search box, enter the search term and click the Search icon.
- [Optional] Click Show Selected, immediately under the search bar, to display the sub-list of selected values. This options toggles with Show All.
- [Optional] Click the unlabeled check box at the top left to include all selections.
- [Optional] Click the Exclude Selected check box at the top right to exclude the specified selections.
- Make your selections, as needed.

- In the state filter, click Select.

The application control expands, in multi-select mode.

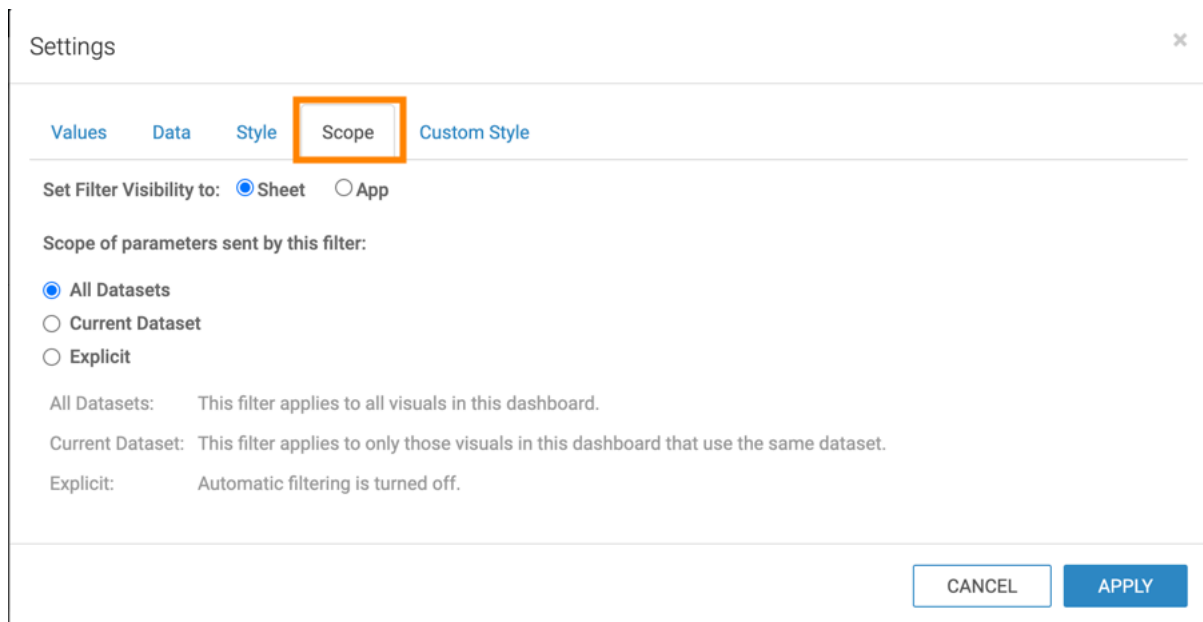


## Configuring scope of dashboard filters

In , you must specify the scope of a newly created custom filter, after adding it to a sheet in a dashboard.

### Procedure

- Click the Gear icon on the filter widget.  
The Settings modal window appears.
- Select the Scope tab.



## 3. Select the desired visibility.

Settings

Values Data Display Settings Scope Custom Style

Set Filter Visibility to:  Sheet  App

Scope of parameters sent by this filter:

All Datasets  
 Current Dataset  
 Explicit

All Datasets: This filter applies to all visuals in this dashboard.  
Current Dataset: This filter applies to only those visuals in this dashboard that use the same dataset.  
Explicit: Automatic filtering is turned off.

CANCEL APPLY

**Note:**

If App scope is selected all apps that contain the dashboard, and all sheets in the dashboard also inherit the selections and behavior of this filter. When you select this option in Edit mode, the filter widget on the dashboard displays a gray triangle on the top left corner of the filter. Hover over the triangle to view the tooltip.

## 4. Select the desired scope of the filter.

Settings

Values Data Display Settings Scope Custom Style

Set Filter Visibility to:  Sheet  App

Scope of parameters sent by this filter:

All Datasets  
 Current Dataset  
 Explicit

All Datasets: This filter applies to all visuals in this dashboard.  
Current Dataset: This filter applies to only those visuals in this dashboard that use the same dataset.  
Explicit: Automatic filtering is turned off.

CANCEL APPLY

**All Datasets**

The filter applies to all visuals in this dashboard.

**Current Datasets**

This filter applies to only those visuals in this dashboard that use the same dataset.

**Explicit**

Automatic filtering is turned off.

5. Click Apply.

## Configuring custom styles for dashboard filters

enables you to apply custom styles to a newly created filter in a dashboard.

### About this task

When applying custom styles, there are several approaches: setting custom styles, setting custom styles at the dashboard level, setting styles for a visual, see *Adding custom styles to visuals* and *Customizing style*. Or setting styles for an application filter, described here.



**Note:** Prerequisite: By default, the Custom Styling option is turned off. It can be turned on by a user with administrative privileges; see *Adding custom styles to visuals*.

Follow these steps to configure custom styles for dashboard filters:

### Procedure

1. Click the Gear icon on the filter widget

- In the Settings modal window, click the Custom Style tab, and examine the available options.
  - Configuring custom style using CSS code*
  - Adding included styles to dashboards*

## Settings ✕

---

[Values](#) [Data](#) [Display Settings](#) [Scope](#) **Custom Style**

Enter CSS classes for the filter ⓘ

Included Styles

Inline CSS  Autocomplete on

--	--

### Related Information

[Adding custom styles to visuals](#)

[Configuring custom style using CSS code](#)

[Adding included styles to dashboards](#)

## Configuring custom style using CSS code

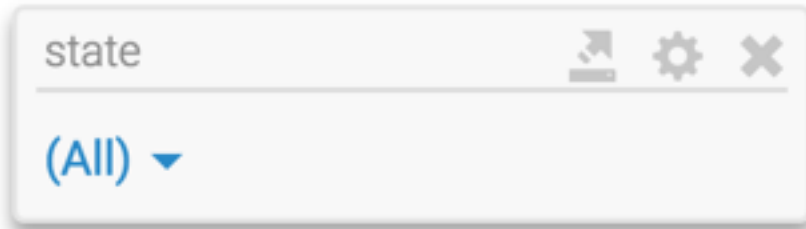


### About this task

To configure a custom style on a dashboard by entering a custom CSS code, follow these steps:

### Procedure

1. Open an existing or new application in Edit mode.
2. Ensure that it has an application filter. Hover over a filter, until the controls appear on the top right.



3. Click the Gear icon.



The Settings modal window appears.

Settings
×

---

Values
Data
Display Settings
Scope
Custom Style

Enter CSS classes for the filter

When using multiple classes, separate them by spaces. These classes add to the existing CSS classes of the filter's container.

Included Styles + ADD STYLE

Enter inline CSS below  Autocomplete on

CANCEL

APPLY

4. In the Settings modal window, click Custom Styling tab.

- Set CSS class for visual to list-larger-font.
- Enter the following code in the Enter inline CSS rules here to text box:

```
.list-larger-font .picklist-list li {  
    font-size:14px;  
    padding:3px;  
    border-bottom:dotted 1px #ddd;  
}
```

- Click Apply.

Settings ×

---

Values   Data   Display Settings   Scope   Custom Style

Enter CSS classes for the filter

When using multiple classes, separate them by spaces. These classes add to the existing CSS classes of the filter's container.

Included Styles + ADD STYLE

Enter inline CSS below  Autocomplete on

```
.list-larger-font .picklist-list li {  
    font-size:14px;  
    padding:3px;  
    border-bottom:dotted 1px #ddd;  
}
```

CANCEL APPLY

8. Click Save to save the application.

Note the resulting style changes to the application filter in View mode.

