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Dashboard for Web

[Dashboard for Web](#)

The Web Dashboard allows you to create and display dashboards on the web.

- [Web Dashboard - Designer Mode](#)
- [Web Dashboard - Viewer Mode](#)

Web Dashboard - Designer Mode

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#)

The **Web Dashboard** allows you to create dashboards in a web browser and provides an intuitive UI that facilitates data binding, shaping, layout design, etc. Many of these normally complex tasks can be accomplished with a simple drag-and-drop operation, allowing you to start creating dashboards immediately.

The screenshot shows the 'Dashboard Designer - ASI' application window. The main area displays a dashboard titled 'Revenue Analysis' with two visualizations: a bar chart showing Revenue from 2013 to 2015, and a pie chart showing revenue distribution across categories like Bikes, Clothing, Accessories, and Components. To the right of the dashboard is a data grid with columns for Bikes, Clothing, and Components, showing various metrics like Revenue and Units Sold. A context menu is open over the pie chart, providing options for 'VALUES', 'ARGUMENTS', 'SERIES', 'HIDDEN DIMENSIONS', 'HIDDEN MEASURES', and 'DATA & FILTERING'. The left sidebar contains icons for 'COMMON', 'MAPS', 'FILTER', and 'VIEWER'.

Bikes	Clothing	Components
\$6.29M	\$111K	2.41K
\$6.11M	\$112K	2.41K
\$18.9M	12K	\$763K
\$6.14M	3.68K	\$107K
\$6.07M	3.65K	\$119K
\$6.86M	4.4K	\$206K
\$6M	3.56K	\$106K
\$6.05M	3.61K	\$111K
\$5.77M	3.52K	\$123K
\$5.91M	3.48K	\$138K
\$6.12M	3.64K	\$114K
€5.90M	3.47K	€113K

Creating Dashboards

The following topics will guide you through the process of creating a dashboard.

- [Creating a Dashboard](#)
- [Providing Data](#)
- [Adding Dashboard Items](#)
- [Binding Dashboard Items to Data](#)
- [Designing Dashboard Items](#)
- [Data Shaping](#)
- [Interactivity](#)
- [Appearance Customization](#)
- [Data Analysis](#)
- [Converting Dashboard Items](#)
- [Dashboard Layout](#)
- [Undo and Redo Operations](#)
- [Saving a Dashboard](#)
- [Opening a Dashboard](#)

Exporting

The Web Dashboard provides the capability to export the individual items of a dashboard, as well as the entire dashboard.

- [Exporting](#)

UI Elements

The topics in this section describe the main elements of the Web Dashboard.

- [UI Elements](#)

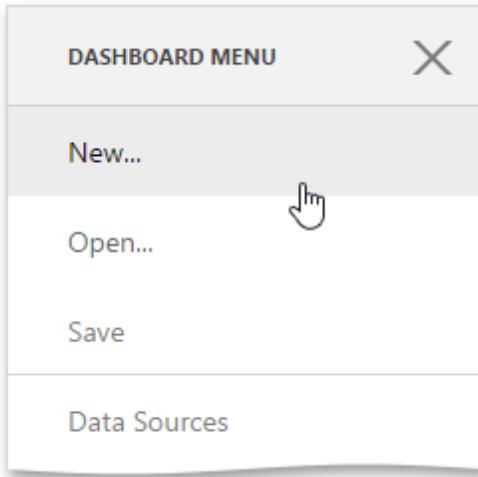
Creating a Dashboard

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Creating a Dashboard](#)

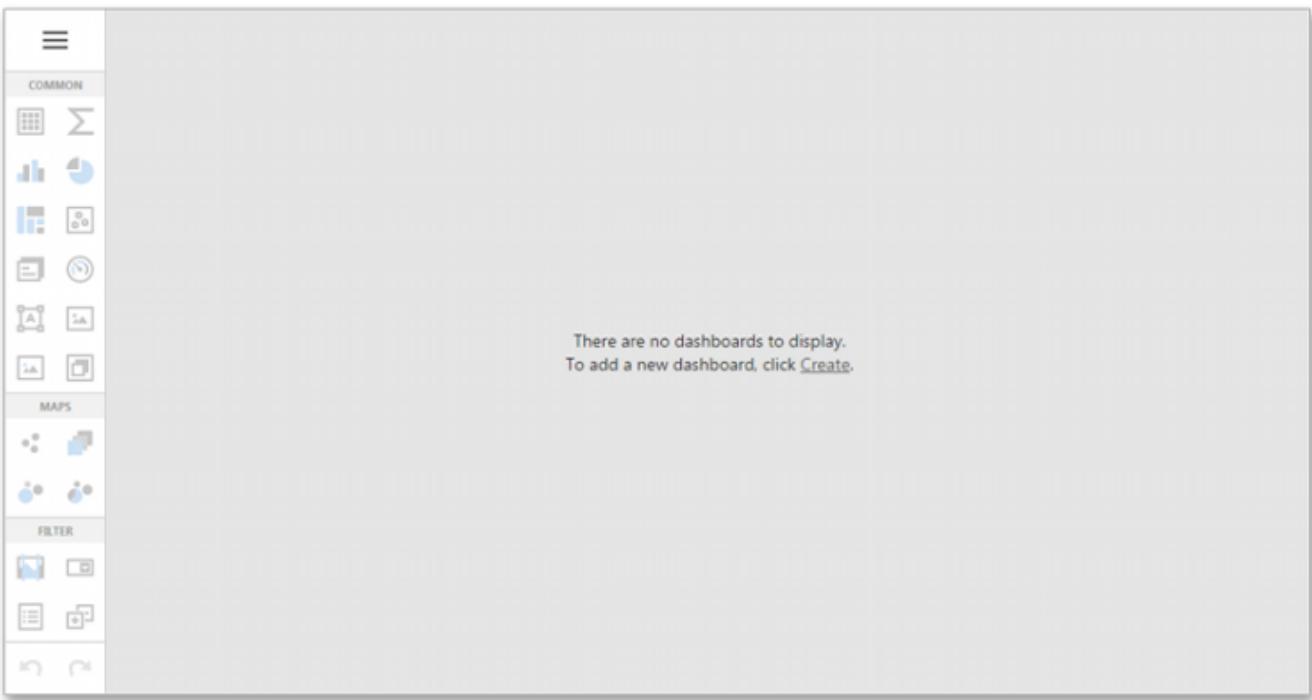
The Web dashboard allows you to embed the user interface required for creating dashboards at runtime.

You can create a new dashboard in two ways.

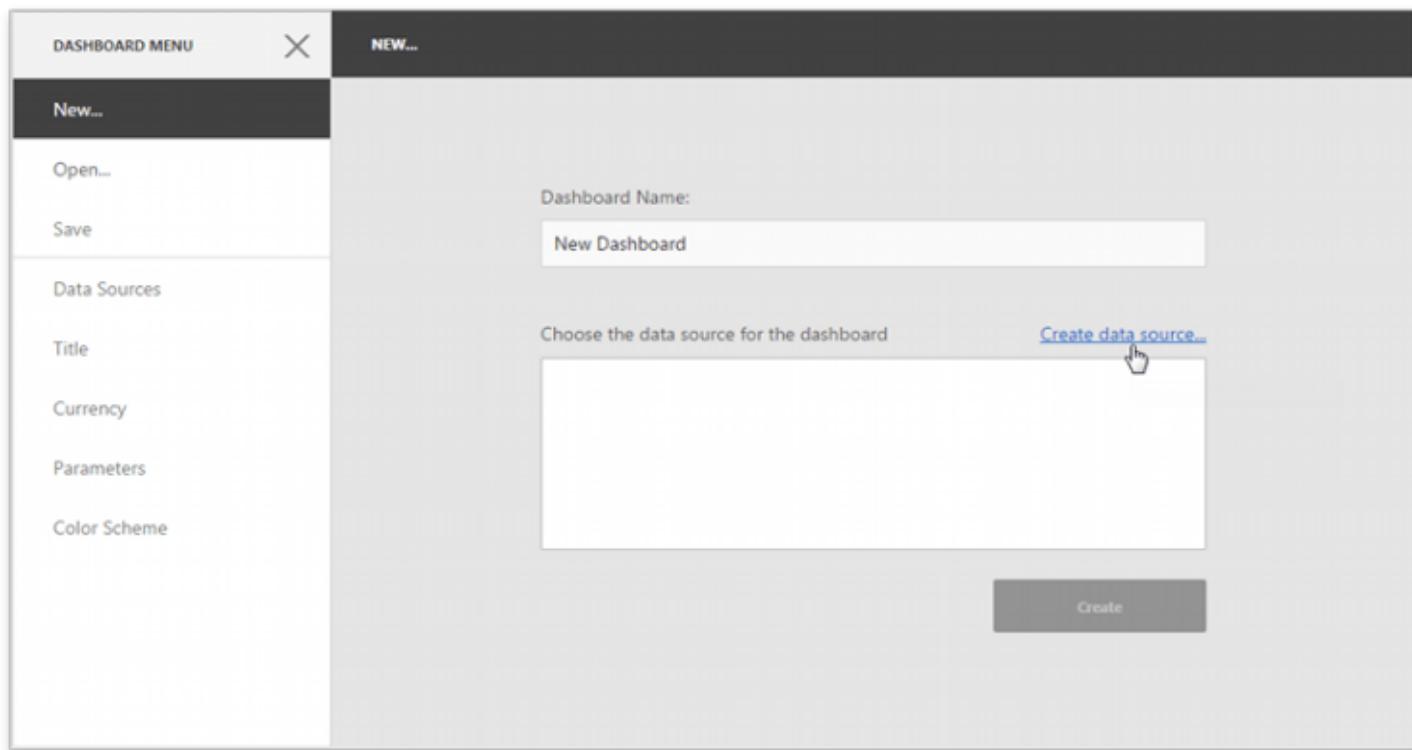
- You can open the [dashboard menu](#) and click the **New** button...



- ...or click **Create** in the following message if your application does not have any dashboards.



After that the **New...** page is invoked. Here you can set a dashboard name, [create a new data source](#) or [connect to an existing data source](#).



To learn how to provide data for the created dashboard, see [Providing Data](#).

Providing Data

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#)

Topics in this section describe how to connect dashboards to data sources and work with the connected data.

- [Create a New Data Source](#)
- [Connect to an Existing Data Source](#)
- [Manage Data Sources](#)
- [Working with SQL Data Sources](#)
- [Filter Data Sources](#)
- [Calculated Fields](#)

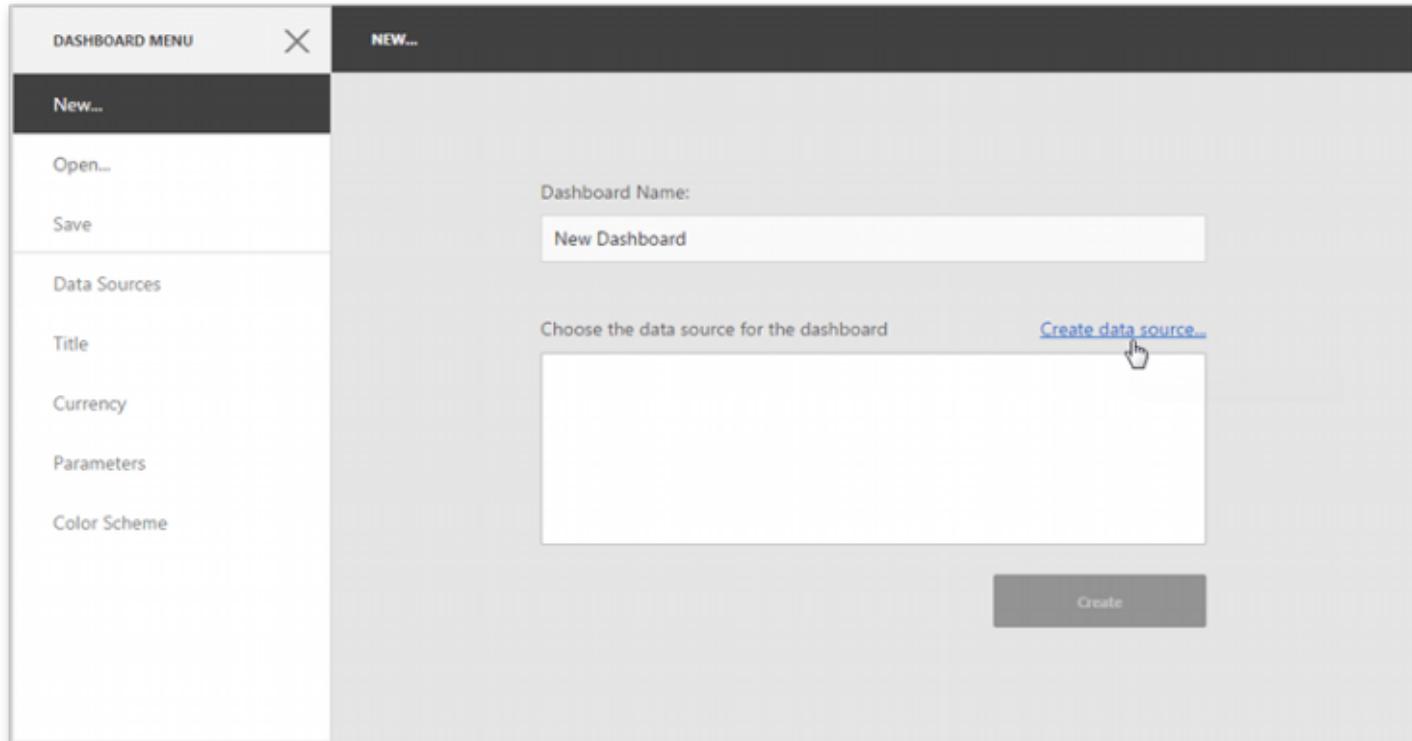
Create a New Data Source

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Create a New Data Source](#)

This topic describes how to create a new data source based on the existing data connection.

Create a Data Source for a New Dashboard

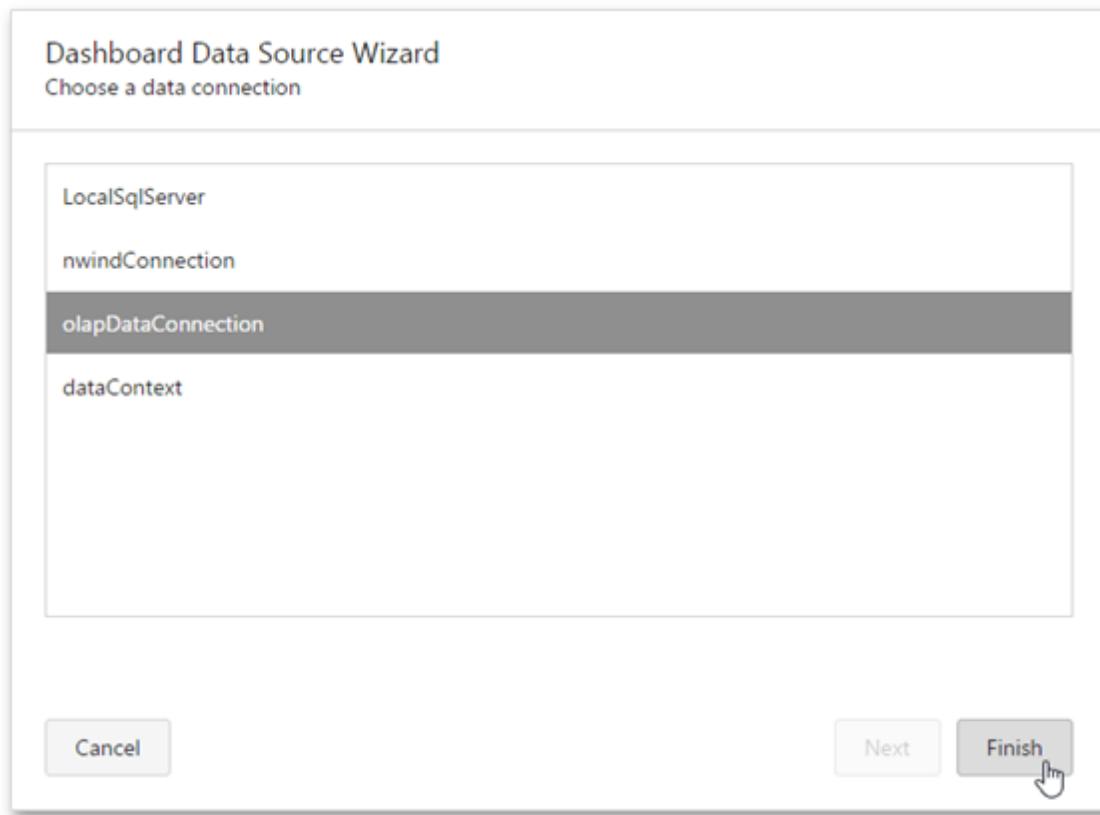
After [creating](#) a new dashboard, the **New** page of the [dashboard menu](#) is invoked. Click the **Create data source...** button to invoke the [Dashboard Data Source Wizard](#) where you can select the required connection.



Note

The SQL data connection requires a query or a stored procedure for further work. To learn more about managing queries, see [Manage SQL Queries](#).

Click **Finish** to create a new data source based on the selected connection.



The next step is [connecting a dashboard to a data source](#).

Create a Data Source for the Existing Dashboard

You can create a new data source based on the predefined connection for the existing dashboard. To learn more, see [Manage Data Sources](#).

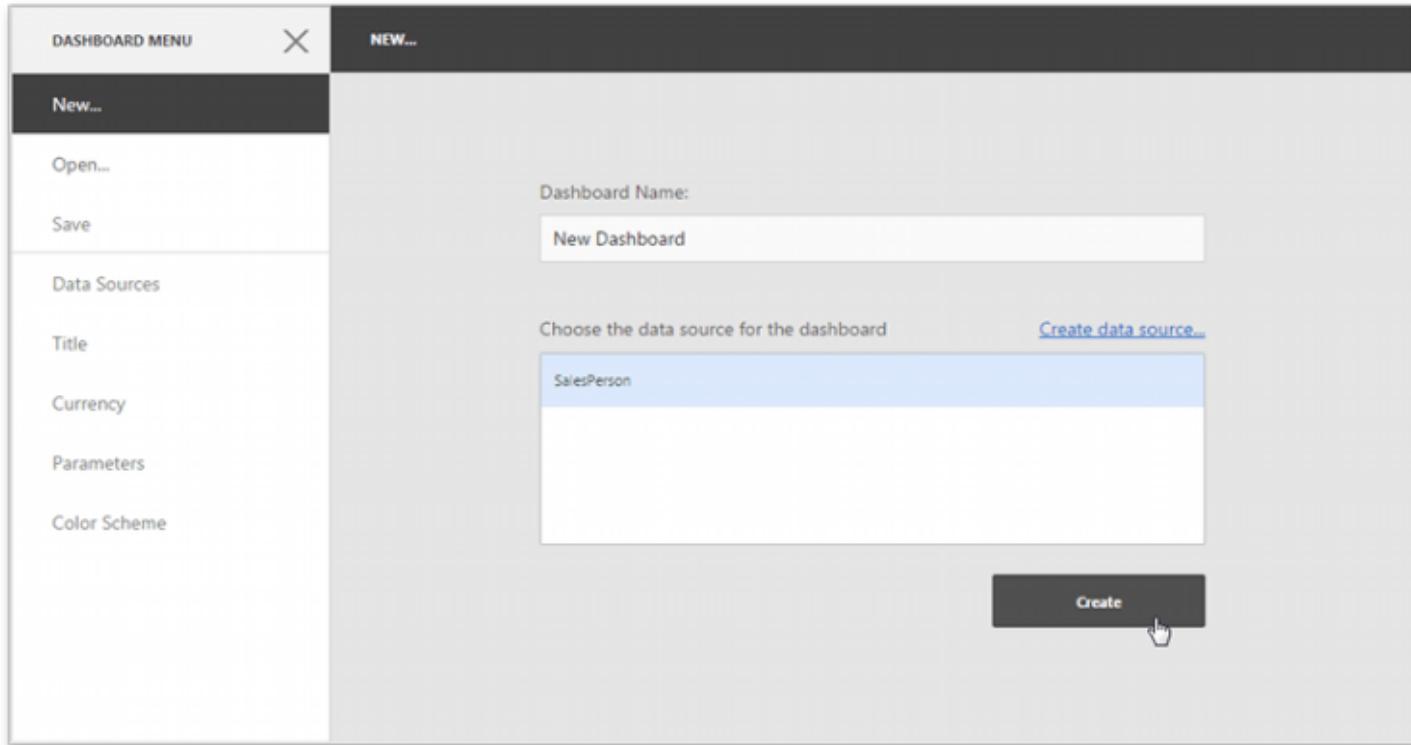
Connect to an Existing Data Source

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Connect to an Existing Data Source](#)

The Web Dashboard allows you to connect a dashboard to one of the existing data sources or add these data sources to the dashboard's data sources collection.

Connect a New Dashboard to an Existing Data Source

When you [create](#) a new dashboard, the **New** page of the [dashboard menu](#) is invoked and allows you to select the existing data source from the list.



This action creates a new empty dashboard that is bound to data. Now, you can [add dashboard items](#) and [bind them to data](#).

Add a New Data Source to the Existing Dashboard

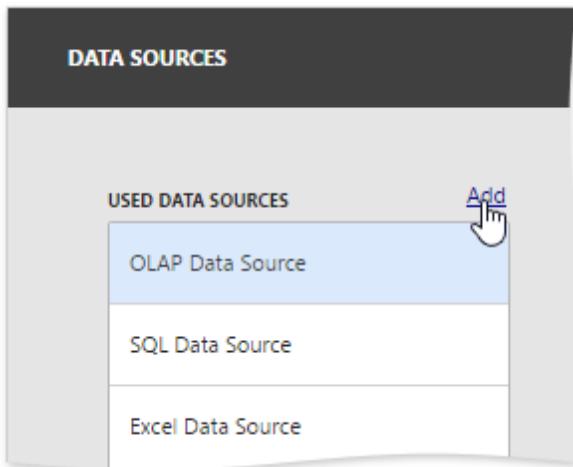
You can add an existing data source to the dashboard. To learn more, see [Manage Data Sources](#).

Manage Data Sources

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Manage Data Sources](#)

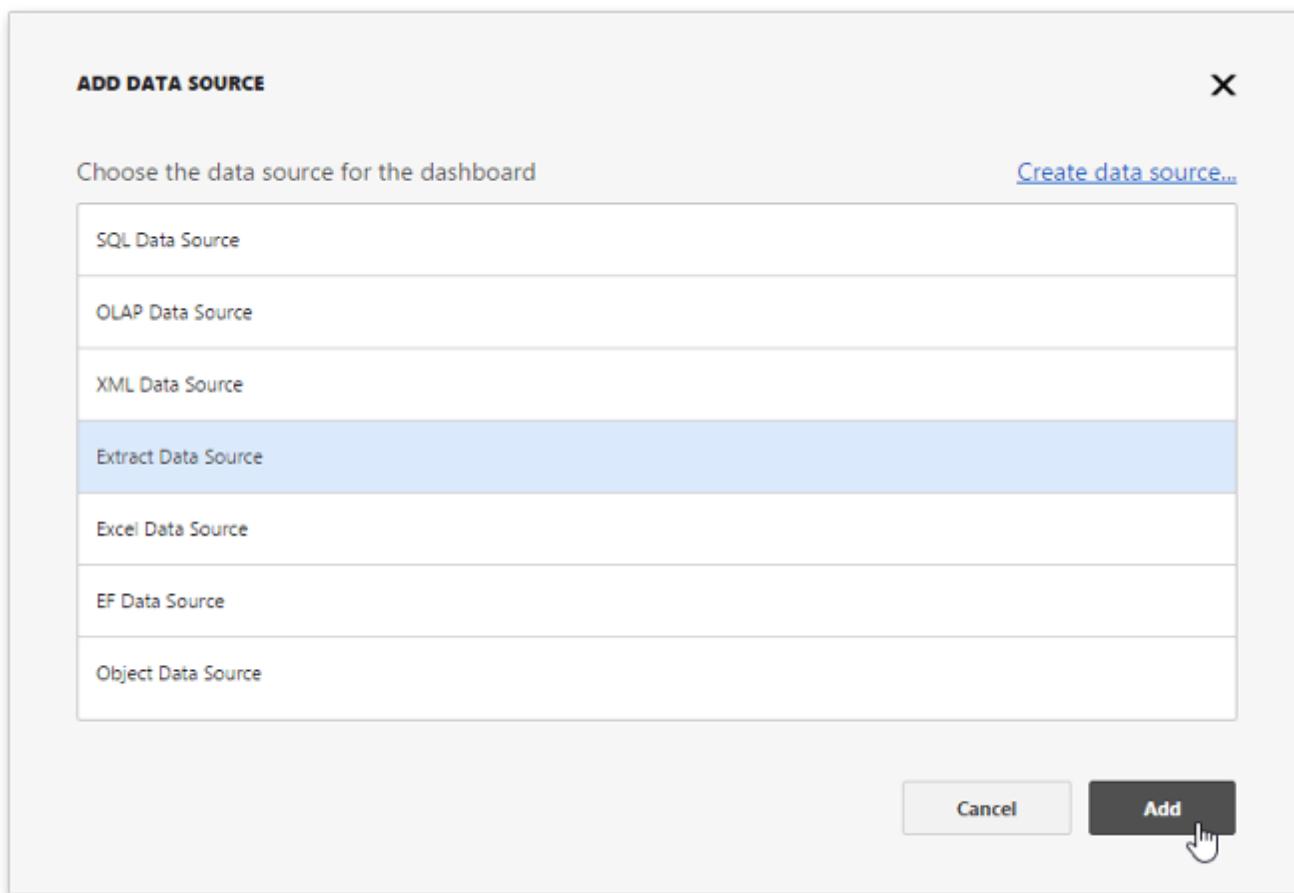
The Web Dashboard allows you to manage the dashboard's data sources. To do this, open the [dashboard menu](#) and go to the **Data Sources** page. Here you can add new data sources to the current dashboard or remove the existing data source.

To add a new data source, click **Add** next to the **Used Data Sources** list.



The **Add Data Source** window is invoked. Here you can perform the following actions.

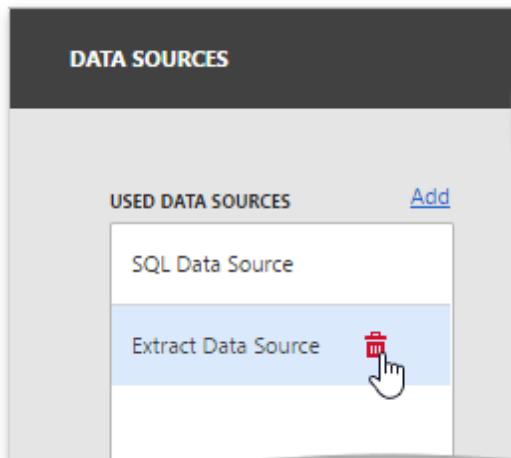
- Click **Create** to invoke the [Dashboard Data Source Wizard](#) where you can create a new data source based on the predefined data connection.
- Select the existing data source from the list.



After that, click **Add** to add the selected data source to the dashboard data sources.

The added data source will be displayed in the **Used Data Sources** section. You can use the added data sources to [change the data source](#) of the created dashboard items.

To remove the existing data source from the dashboard data sources, click **Remove** (the icon).



Working with SQL Data Sources

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Working with SQL Data Sources](#)

Topics in this section describe how to work with data in a [connected SQL data source](#).

- [Manage SQL Queries](#)
- [Dashboard Data Source Wizard](#)
- [Query Builder](#)
- [Filter Queries](#)
- [Pass Query Parameters](#)
- [Stored Procedures](#)
- [Preview Data](#)

Manage SQL Queries

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Working with SQL Data Sources](#) > [Manage SQL Queries](#)

After you [connect](#) to the data source and select the required data, you can create new SQL queries or edit the existing queries in the SQL data sources. To manage data sources, open the dashboard menu and go to the **Data Sources** page.

The screenshot shows the 'DATA SOURCES' page. On the left, there's a sidebar with 'USED DATA SOURCES' and an 'Add' button. Below it are two options: 'SQL Data Source' (selected) and 'EF Data Source'. On the right, there's a 'Field List' grid. At the top of the grid, there are 'Add Query' and 'Add Calculated Field' buttons. The grid itself has a header row with columns for 'Name' and 'Type'. Below this, there are several data rows. One row is expanded to show its details:

Name	Type
CategoryName	Text
Country	Text
Discount	Float
OrderDate	DateTime
ProductName	Text
Quantity	Integer
Sales Person	Text
Total Sum	Decimal
UnitPrice	Decimal

Each row in the grid has an 'Edit' icon (pencil) and a 'Delete' icon (trash bin) in the last column.

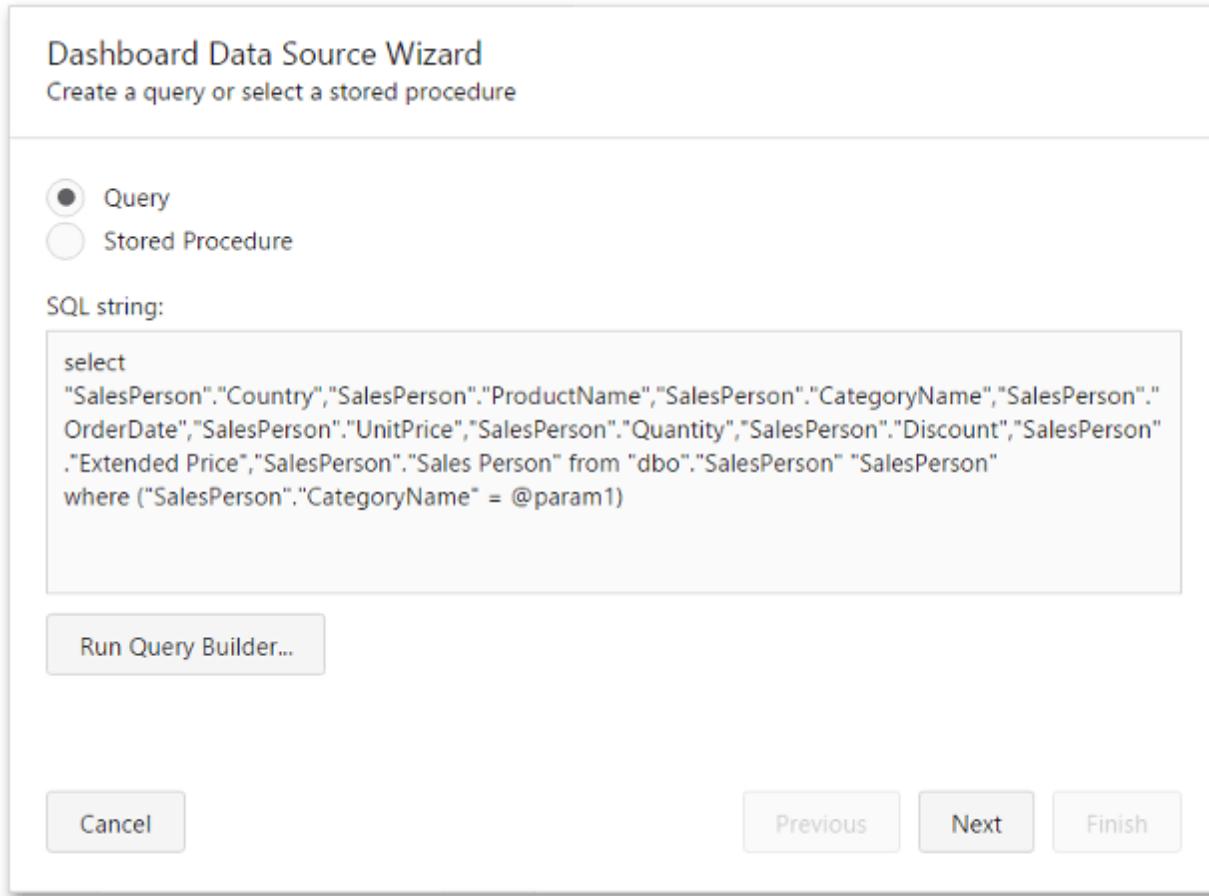
- To **add** a new query, click the **Add Query** button. This invokes the [Dashboard Data Source Wizard](#), where you can create a query, select a stored procedure or configure [query parameters](#).
- To **edit** the existing query, click the query's **Edit** button (the icon) in the Field List. This action invokes the [Dashboard Data Source Wizard](#).
- To **delete** the existing query or calculated field from a dashboard SQL data source, click the query's **Delete** button (the icon).

Dashboard Data Source Wizard

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Working with SQL Data Sources](#) > [Dashboard Data Source Wizard](#)

The **Dashboard Data Source Wizard** allows you to create a new data source or edit the existing data sources. To invoke this wizard, go to the **Data Sources** page of the [dashboard menu](#) and click the [Add Query](#) or [Edit Query](#) buttons.

The first page of the wizard allows you to create/edit a query or select a stored procedure. Click the **Run Query Builder...** button to launch the [Query Builder](#), which allows you to choose the required tables/columns visually and displays the resulting SQL query within the SQL String editor. The image below displays a generated query.



If the SQL query contains [query parameters](#), click **Next** to configure them.

Dashboard Data Source Wizard

Configure query parameters

param1

Name	param1
Type	Expression
Value	[Parameters.categoryParam] ...

Add Remove

Cancel Previous Next Finish

Click **Finish** to create a new query. This query will be displayed in the field list.

DATA SOURCES

USED DATA SOURCES [Add](#)

		Add Query	Add Calculated Field
SQL Data Source	+ Orders		
	+ SalesPerson		

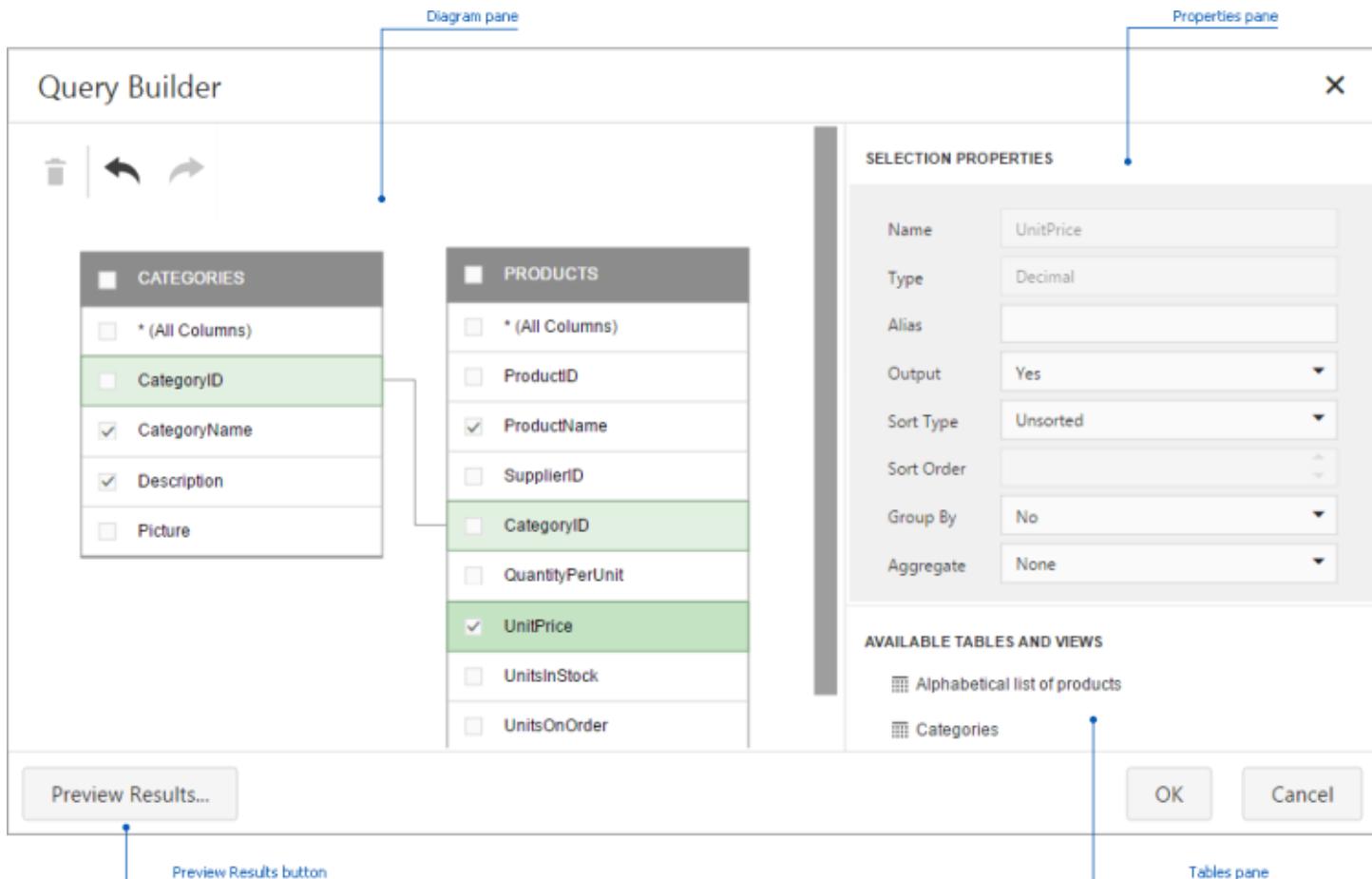
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Query Builder

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Working with SQL Data Sources](#) > [Query Builder](#)

In the **Query Builder** dialog, you can add data tables and views to the data source, and select which columns to include. The **Query Builder** automatically joins the related tables, so all you need to do is drag-and-drop.

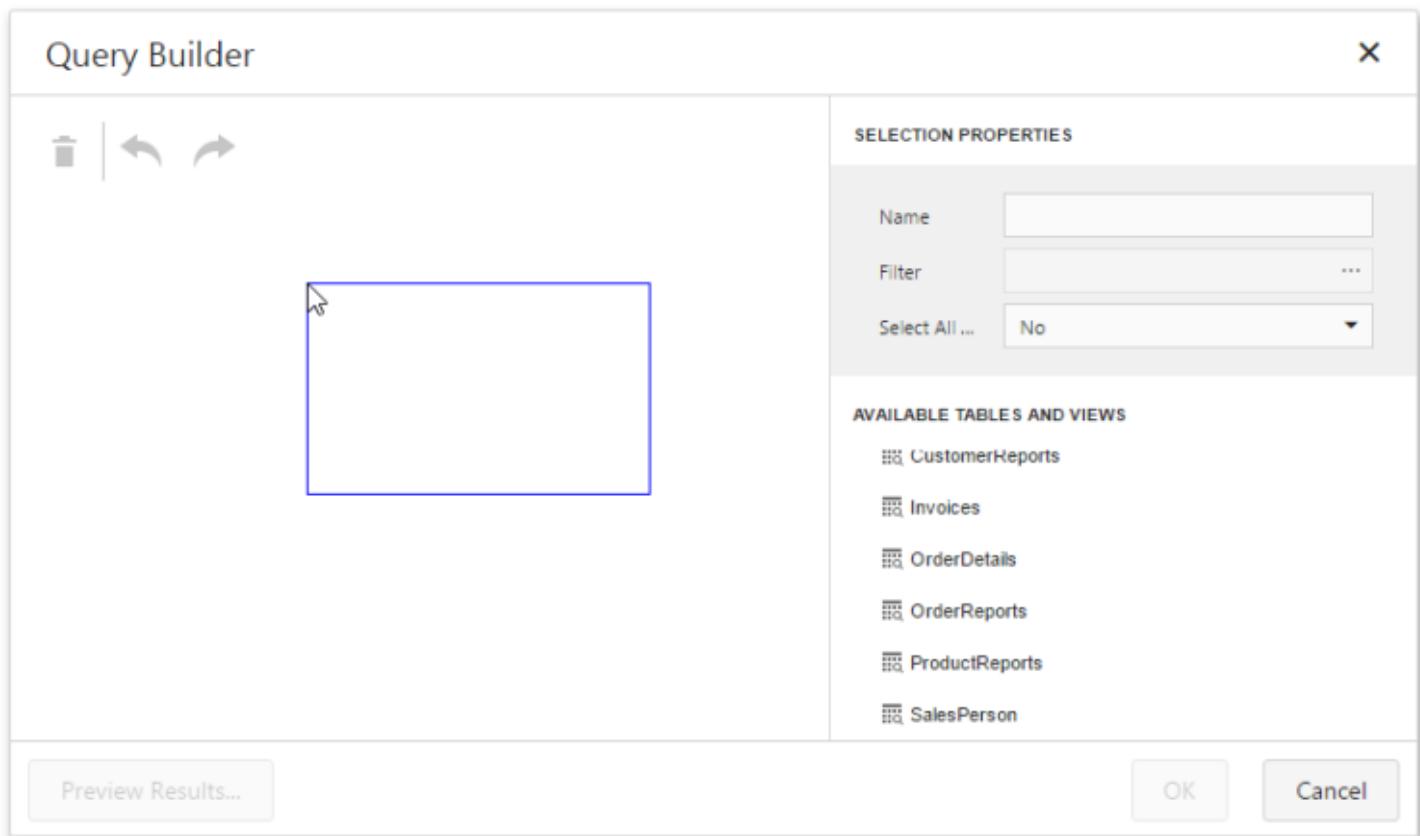


This topic consists of the following sections.

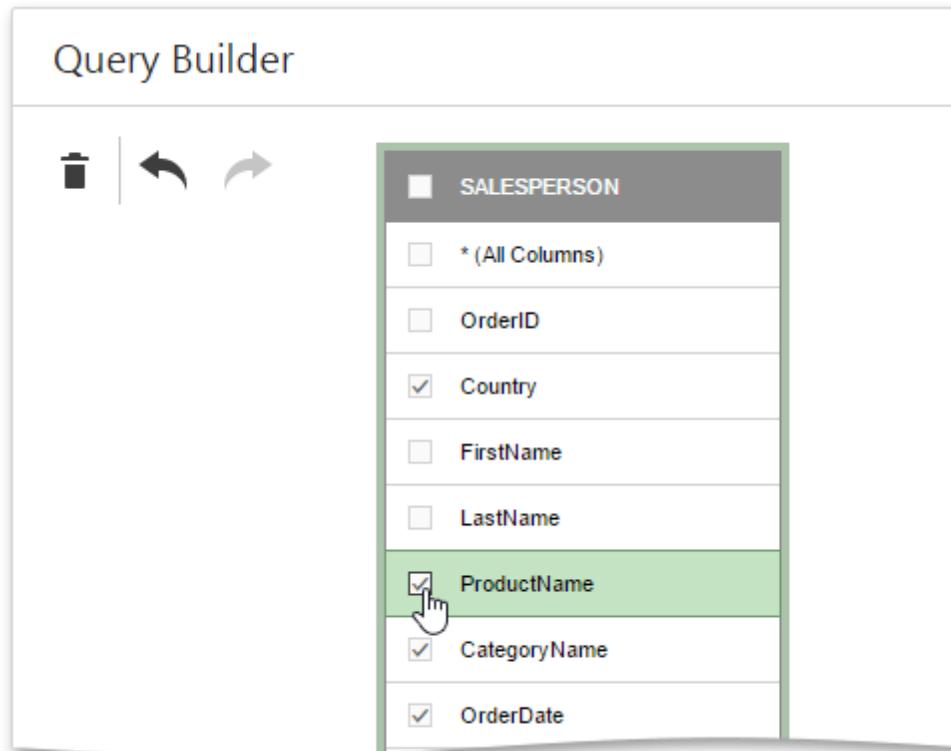
- [Add Tables](#)
- [Join Tables](#)
- [Edit Column Settings](#)
- [Filter Data](#)
- [Preview Data](#)

Add Tables

To add the required tables/views to a data source, drag-and-drop it from the **Tables** pane onto the **Diagram** pane.



Then, select the required columns.

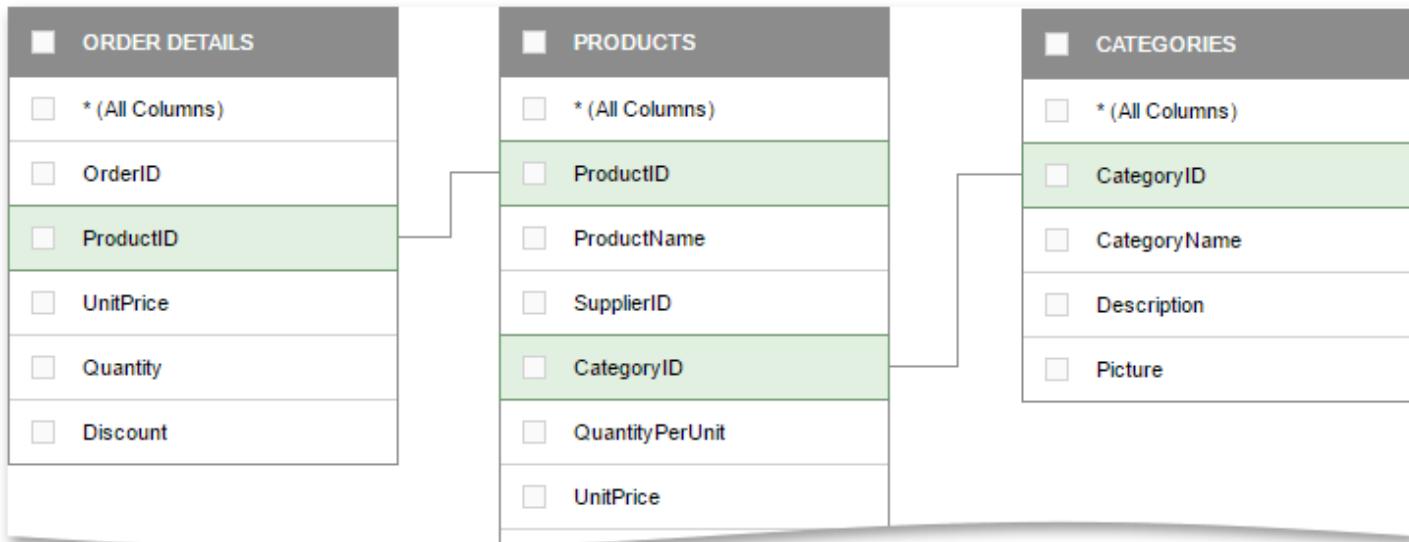


To delete the unnecessary table, select it and click the **Delete** button (the icon).

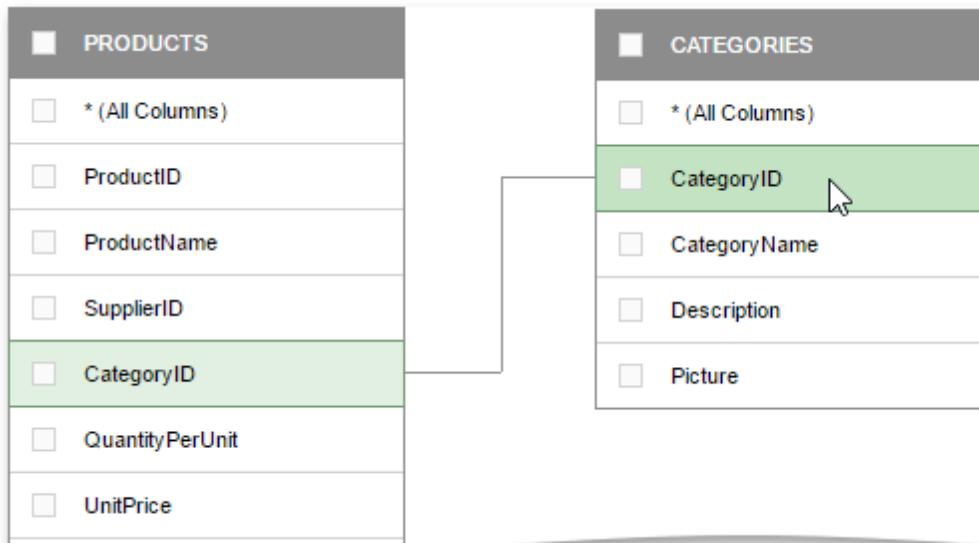
You can cancel or repeat the action using the **Undo/Redo** buttons (the and icons).

Join Tables

When you drop a table that has a relationship at the database level with any of the recently added tables, the **Query Builder** joins these tables automatically.



You can create a relationship between two tables manually by dragging a column in one table to a related column in a different table. A relationship line will be drawn between the two tables.



The Query Builder allows you to change the join type (if necessary). For this, select the relationship line and use the **Join type** combo box in the Properties pane. An **Inner join** and **Left outer join** are supported.

SELECTION PROPERTIES

Left	Products.CategoryID
Right	Categories.CategoryID
Join Type	Inner
Operator	Equals to

To delete the unnecessary relationship, select the relationship line and click the **Delete** button (the  icon).

Edit Column Settings

To edit a column setting, select the required column in a table. Then, use the **Properties** pane to specify the column setting.

The following settings are available for each column.

SELECTION PROPERTIES

Name	Extended Price
Type	Decimal
Alias	Price
Output	Yes
Sort Type	Ascending
Sort Order	1
Group By	No
Aggregate	Sum

- The **Name** field displays the selected column name.
- The **Type** field displays the selected column type.
- The **Alias** field allows you to specify the column alias.



Note that aggregated columns should always have an alias.

- The **Output** field allows you to choose whether to include the selected column to the query.
- Use **Sort Type** to specify the sort order of column values.
- The **Sort Order** field allows you to specify the order in which several columns are sorted.
- The **Group By** option allows you to group data by the values of the selected column.

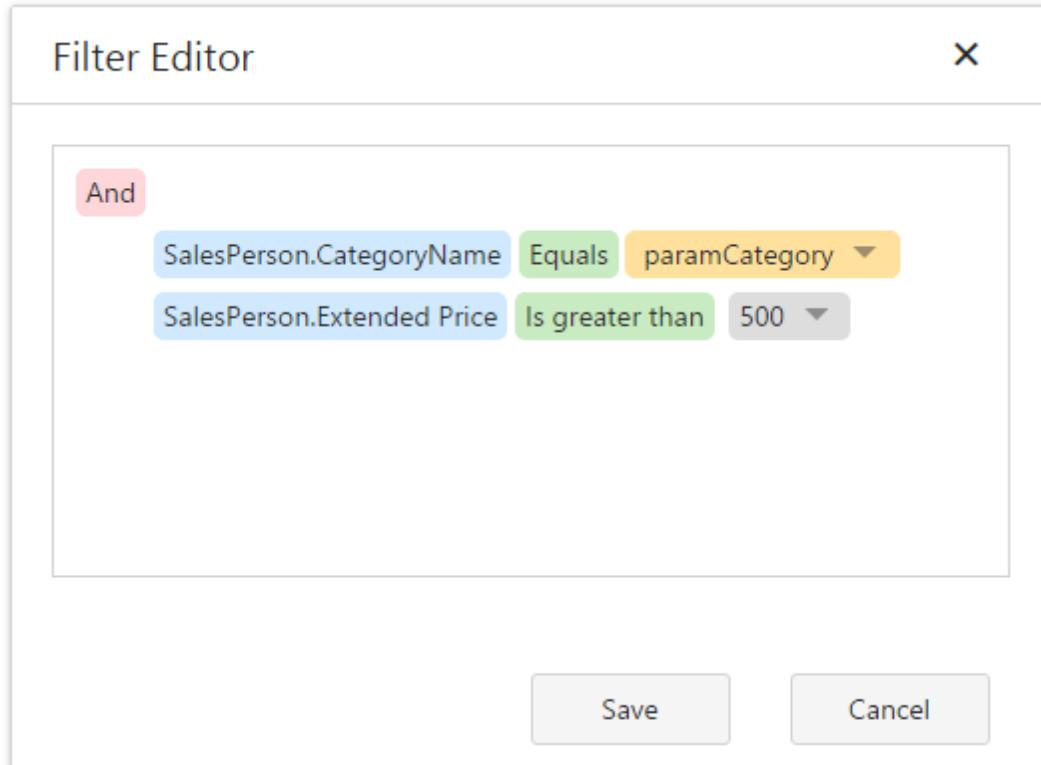
- The **Aggregate** field allows you to specify the aggregate function used to aggregate column values.



Note that you should apply aggregation/grouping either to all columns or to none of them.

Filter Data

The Query Builder allows you to filter a query. To do this, deselect tables and click the ellipsis button in the appeared **Filter** field in the **Properties** pane. This invokes the **Filter Editor** dialog, which provides a visual interface for constructing a filter string.



To learn more, see [Filter Queries](#).

Preview Data

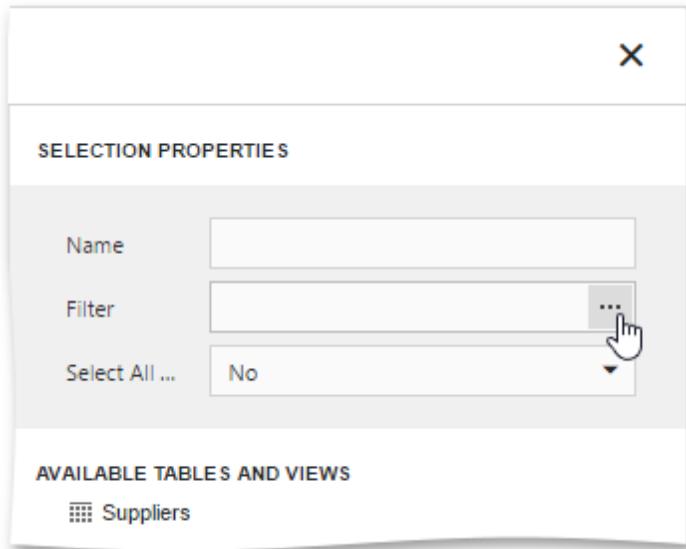
The Query Builder allows you to preview data for the created SQL query. To do this, click the **Preview Results...** button. This invokes the [Data Preview](#) window containing data returned after executing the query.

Filter Queries

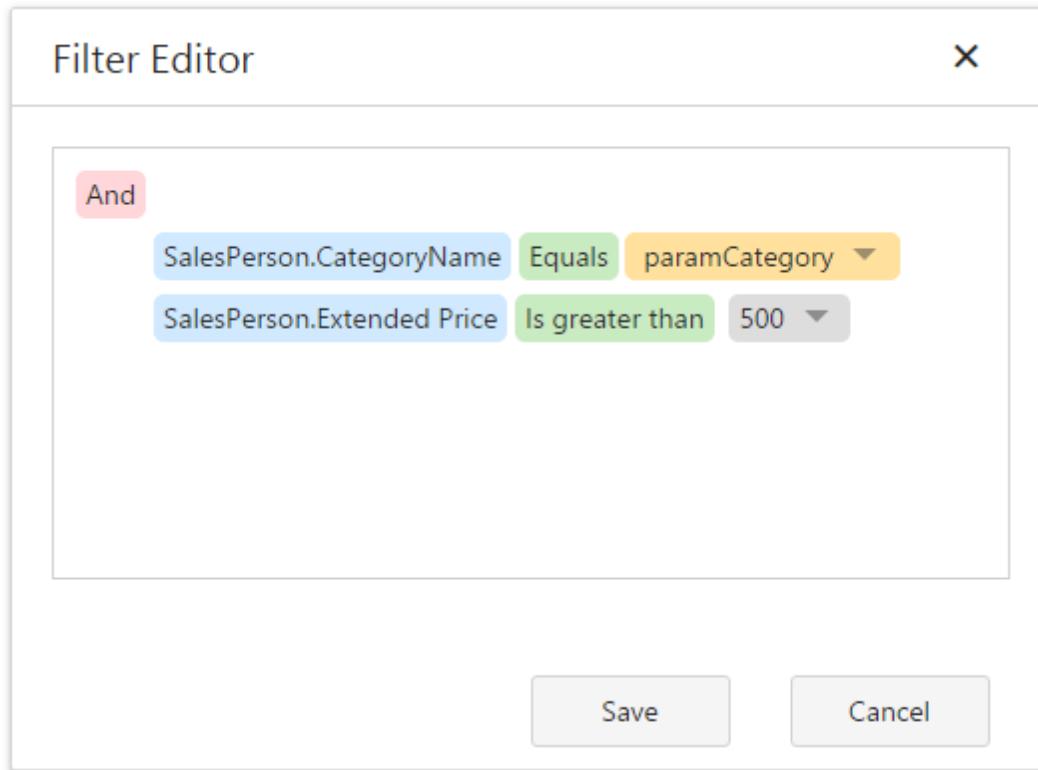
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Working with SQL Data Sources](#) > [Filter Queries](#)

SQL queries constructed in the [Query Builder](#) can be filtered by including the *WHERE* clauses to the query. Filtering can be applied to either underlying or aggregated data. You can also limit the number of returned records when filtering data.

To filter a query, deselect added tables and click the ellipsis button of the **Filter** field within the [Query Builder](#).



This will invoke the **Filter Editor** dialog, which allows you to build filter criteria.



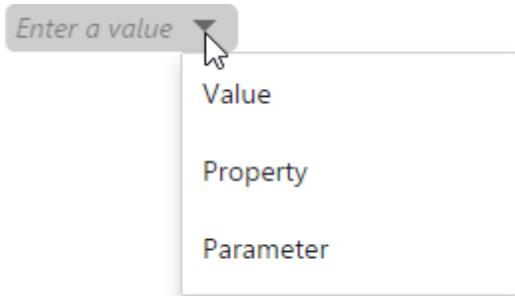
You can create complex filter criteria with an unlimited number of filter conditions. These filter conditions can be arranged into groups with **And**, **Or**, **Not And**, and **Not Or** operators. The Filter Editor displays filter criteria as a

tree-like structure, in which each node can be edited separately.

In the Filter Editor, you can compare a field value with the following objects.

- **Value** - represents a static value.
- **Property** - represents another field value.
- **Parameter** - represents a parameter value. Click the **Create new parameter** button to create a new parameter and specify its name. To learn how to configure the created parameter, see [Pass Query Parameters](#).

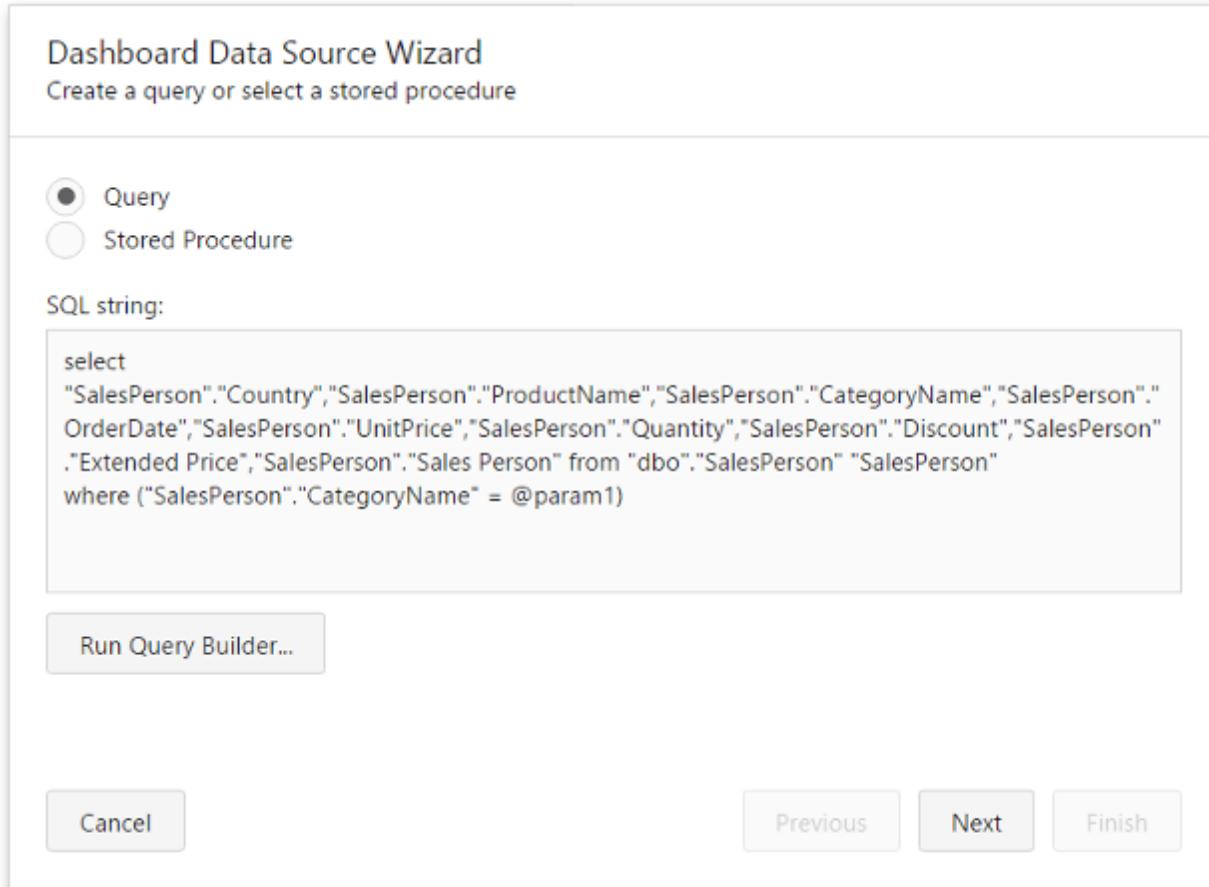
To switch between values, click a down arrow glyph in the operand value placeholder to expand the list of available objects.



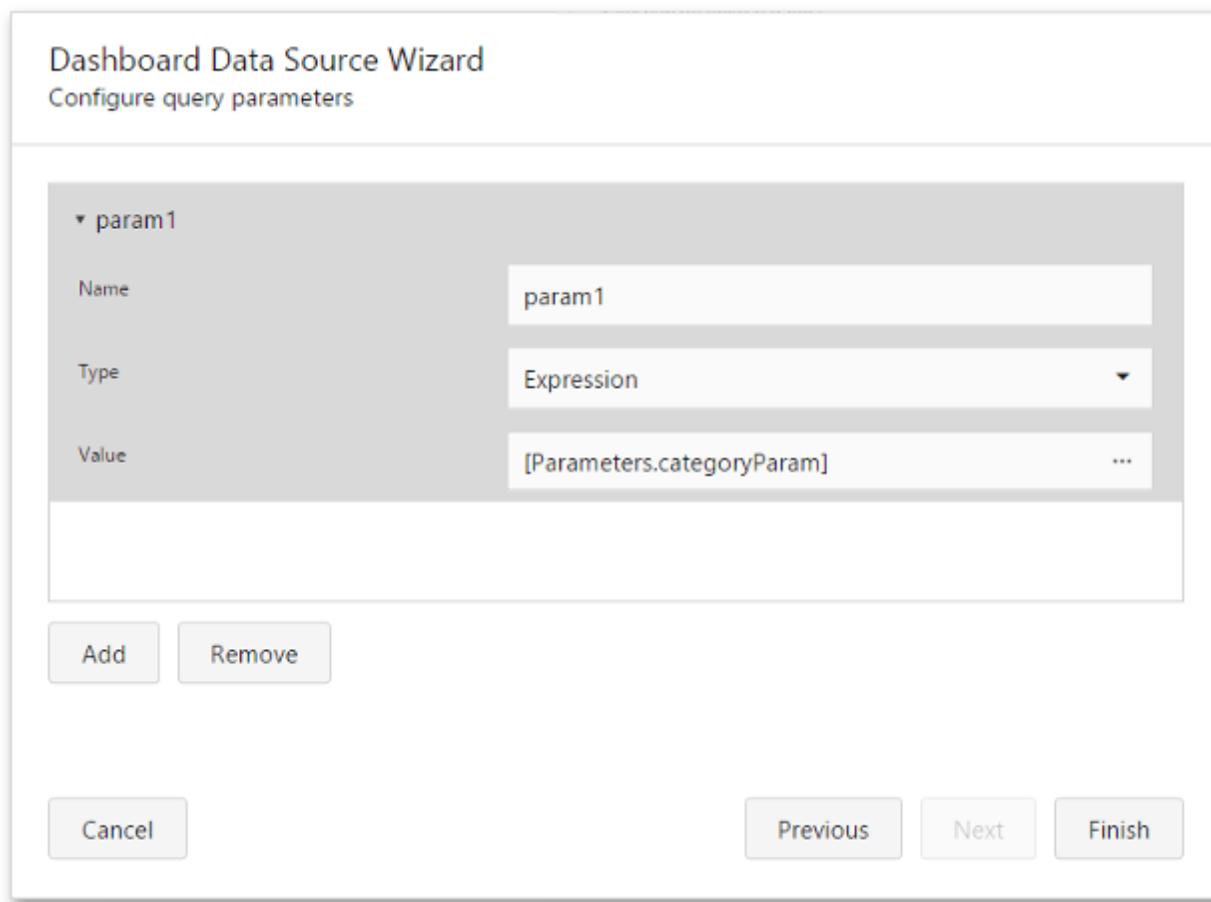
Pass Query Parameters

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Working with SQL Data Sources](#) > [Pass Query Parameters](#)

The [Query Builder](#) allows you to [filter queries](#) using parameters. To specify settings of an added query parameter after creating a query, click **Next** in the [Dashboard Data Source Wizard](#) dialog.



On the next page, select the query parameter you have created to configure it.



The following settings are available.

- **Name** - Specifies a parameter's name.
- **Type** - Specifies the parameter's type.
- **Value** - Specifies the parameter's value. If the parameter type is set to *Expression*, invoke the **Expression Editor** dialog using the ellipsis button and specify the required expression. For example, you can use an existing [dashboard parameter](#) to pass to the SQL query.

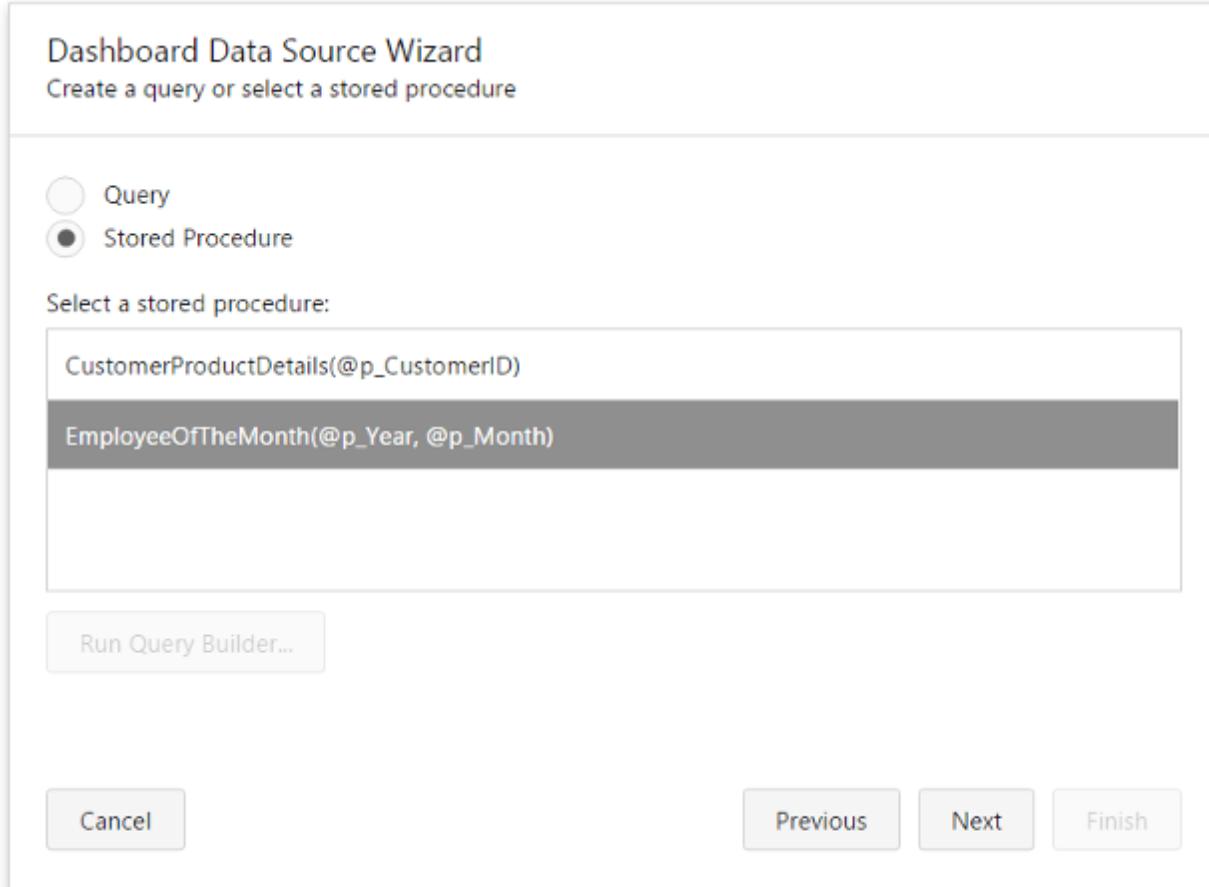
Use **Add** to add a new parameter and the **Remove** button to remove the selected query parameter.

Then, click **Finish** to complete query modifications.

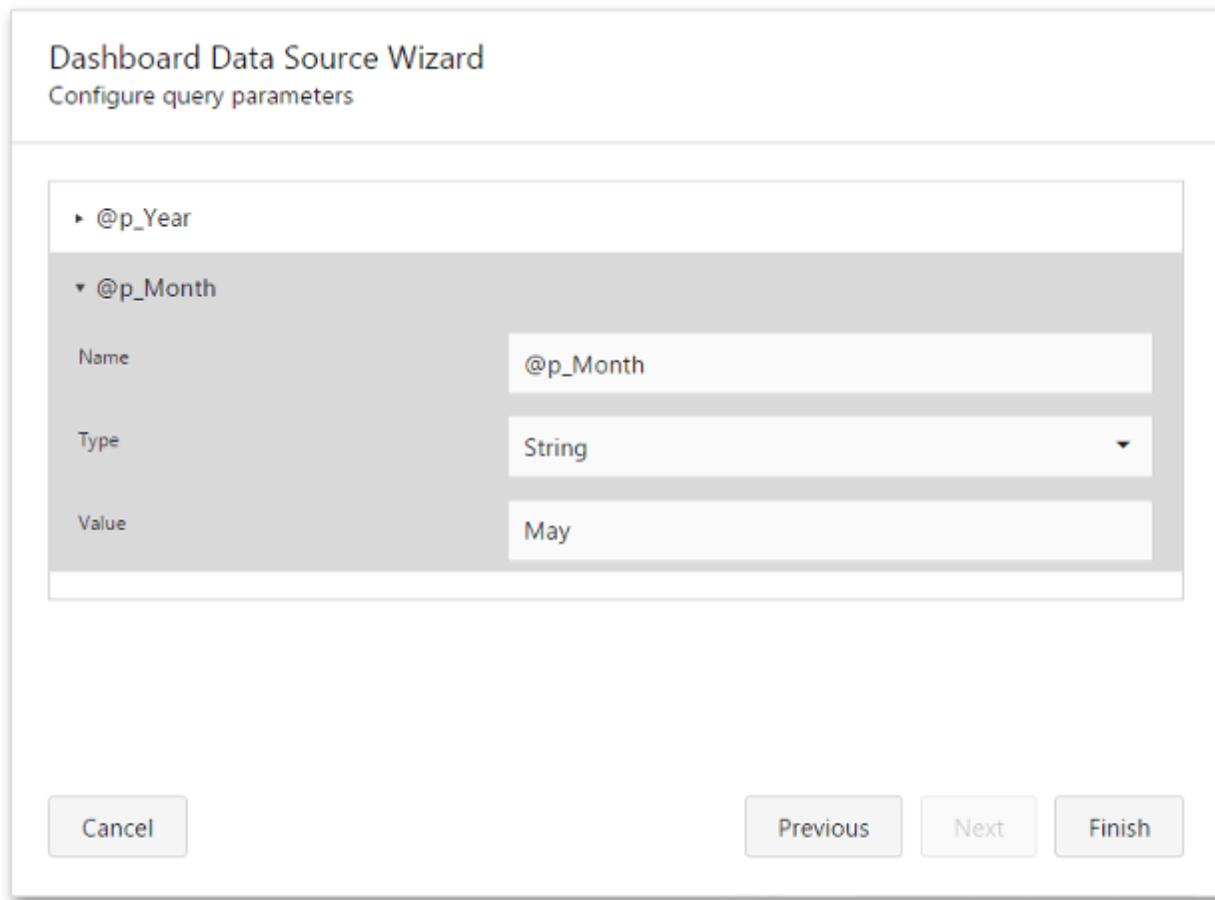
Stored Procedures

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Working with SQL Data Sources](#) > [Stored Procedures](#)

If you use a stored procedure to supply the dashboard with data, you should specify the stored procedure parameters. In the [Dashboard Data Source Wizard](#) dialog, select the required stored procedure and click **Next**.



On the next page, you can configure the parameters.



The following parameter settings are available.

- **Name** - Displays a parameter's name.
- **Type** - Specifies the parameter's type.
- **Value** - Specifies the parameter's value. If the parameter type is set to *Expression*, you can invoke the **Expression Editor** dialog to specify the required expression. For example, you can select an existing [dashboard parameter](#) to pass to the stored procedure.

Click **Finish** to complete query modifications.

Preview Data

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Working with SQL Data Sources](#) > [Preview Data](#)

The [Dashboard Data Source Wizard](#) and [Query Builder](#) allow you to preview data returned after a query/[stored procedure](#) execution. To do this, click the **Preview...** button.

Data Preview (First 100 Rows Displayed)

Country	OrderID	LastName	FirstName	ProductName	CategoryName
UK	10248	Buchanan	Steven	Queso Cabrales	Dairy Products
UK	10248	Buchanan	Steven	Singaporean Hokkien Fried Mee	Grains/Cereals
UK	10248	Buchanan	Steven	Mozzarella di Giovanni	Dairy Products
UK	10249	Suyama	Michael	Tofu	Produce
UK	10249	Suyama	Michael	Manjimup Dried Apples	Produce
USA	10250	Peacock	Margaret	Jack's New England Clam Chowder	Seafood
USA	10250	Peacock	Margaret	Manjimup Dried Apples	Produce
USA	10250	Peacock	Margaret	Louisiana Fiery Hot Pepper Sauce	Condiments

OK

This invokes the **Data Preview** window containing data returned after you execute the current query.

Filter Data Sources

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Filter Data Sources](#)

The Web Dashboard allows you to apply filtering to Excel and Object data sources.

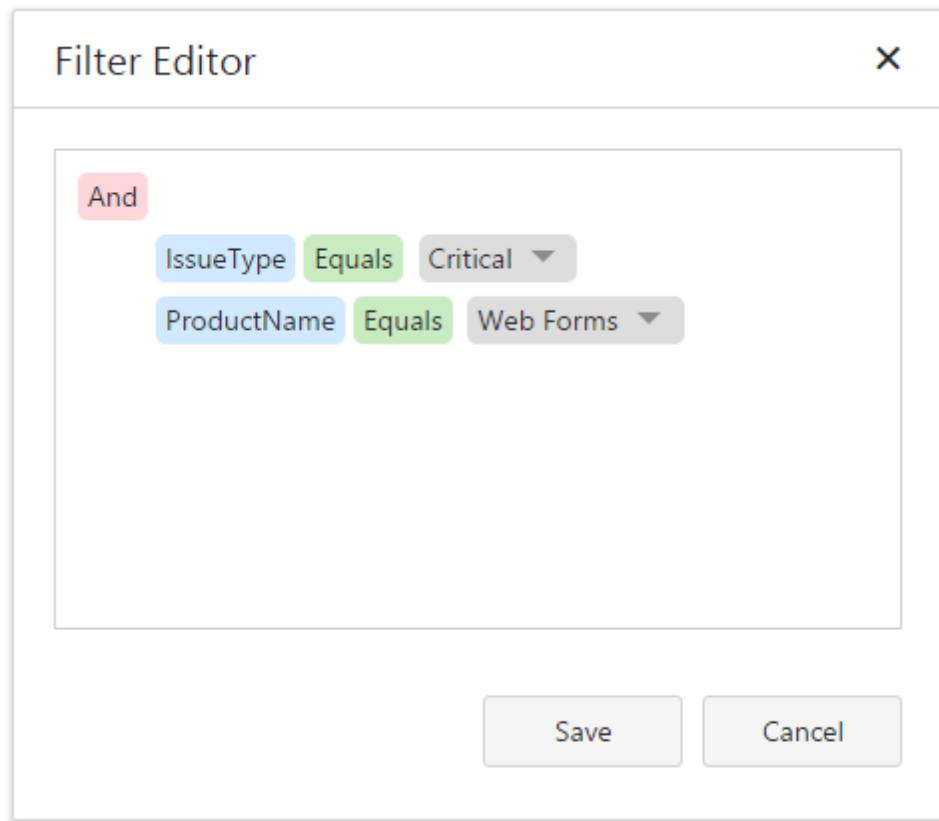
Apply Filtering

To apply filtering to a data source, open the [dashboard menu](#), invoke the **Data Sources** page and click the **Filter** button.

The screenshot shows the 'Data Sources' page. On the left, there's a sidebar with 'USED DATA SOURCES' and a 'Customer Support' item selected. An 'Add' button is located above the data table. To the right of the table, there's a 'Filter' button with a hand cursor icon. The data table lists the following fields:

	Customer	Text
	Employee	Text
	IssueType	Text
	IssueTypeIndex	Integer
	Opened	Datetime
	ProductName	Text
	ResolvedTime	Integer

This will invoke the **Filter Editor** dialog, which allows you to build filter criteria with a convenient tree-like interface.



Pass Parameter Values

You can use the Filter Editor to filter a data source according to the current parameter value. To learn more, see the [Dashboard Parameters](#) topic.

Calculated Fields

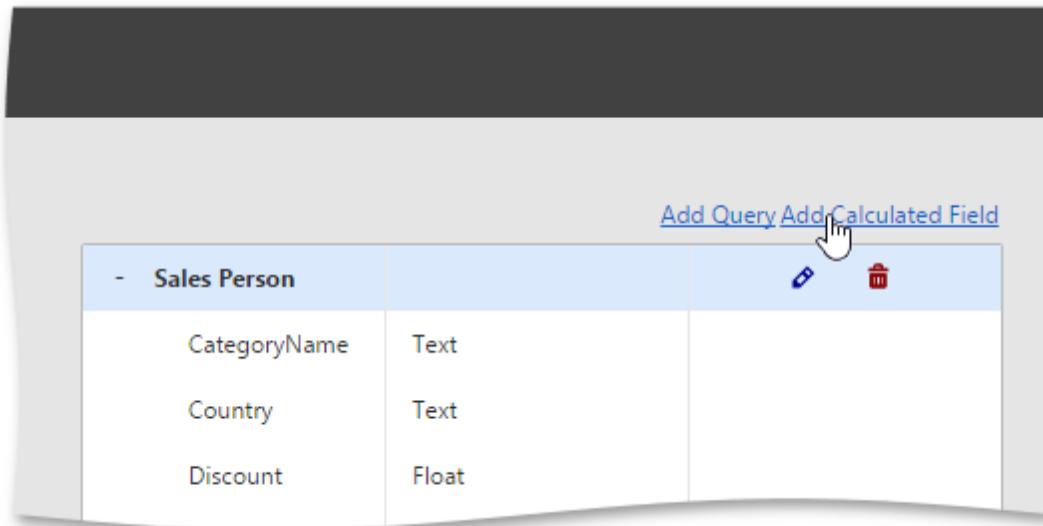
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Providing Data](#) > [Calculated Fields](#)

The Web Dashboard provides the capability to create **calculated fields** that allow you to apply complex expressions to data fields obtained from the dashboard's data source. As a result, you can use these fields in data visualizations as regular data source fields.

- [Creating a Calculated Field](#)
- [Editing a Calculated Field](#)

Creating a Calculated Field

To create a calculated field, open the [dashboard menu](#) and go to the **Data Sources** page. Select a required data source, then select a query and click the **Add Calculated Field** button.



This action invokes the **Create Calculated Field** dialog, which allows you to specify an expression that will be used to obtain calculated field values. Here you can construct the required expression.

CREATE CALCULATED FIELD

Name: Total Sum
Field Type: Decimal

[UnitPrice] * [Quantity] * (1 - [Discount])

Operations: + - × ÷ % (·) = ≠ < ≤ ≥ > ○○

FUNCTIONS	OPERATORS	FIELDS
▶ Aggregate ▶ Date-Time ▶ Logical ▶ Math ▶ String	+ - * / %	OrderID ProductName Quantity Sales Person

Save Cancel

To specify the required calculated field type use the **Type** option. To change the default name, use the **Name** option.

The following elements are available for creating expressions.

- The **Functions** section includes different types of functions including [aggregate](#).
- The **Operators** section allows you to select operators from the list.
- The **Fields** section contains available fields and [dashboard parameters](#).

After creating the expression, click **Save**. This creates a new calculated field in the Field List, indicated with the **f** glyph.

Add Query Add Calculated Field		
- Sales Person		
f calc_Total Sum	Decimal	
CategoryName	Text	
Country	Text	

Editing a Calculated Field

To edit the created field, click the calculated field's **Edit** button (the icon) on the Data Sources page. This action invokes the **Create Calculated Field** dialog. You can change the calculated field name, field type or edit the current expression.

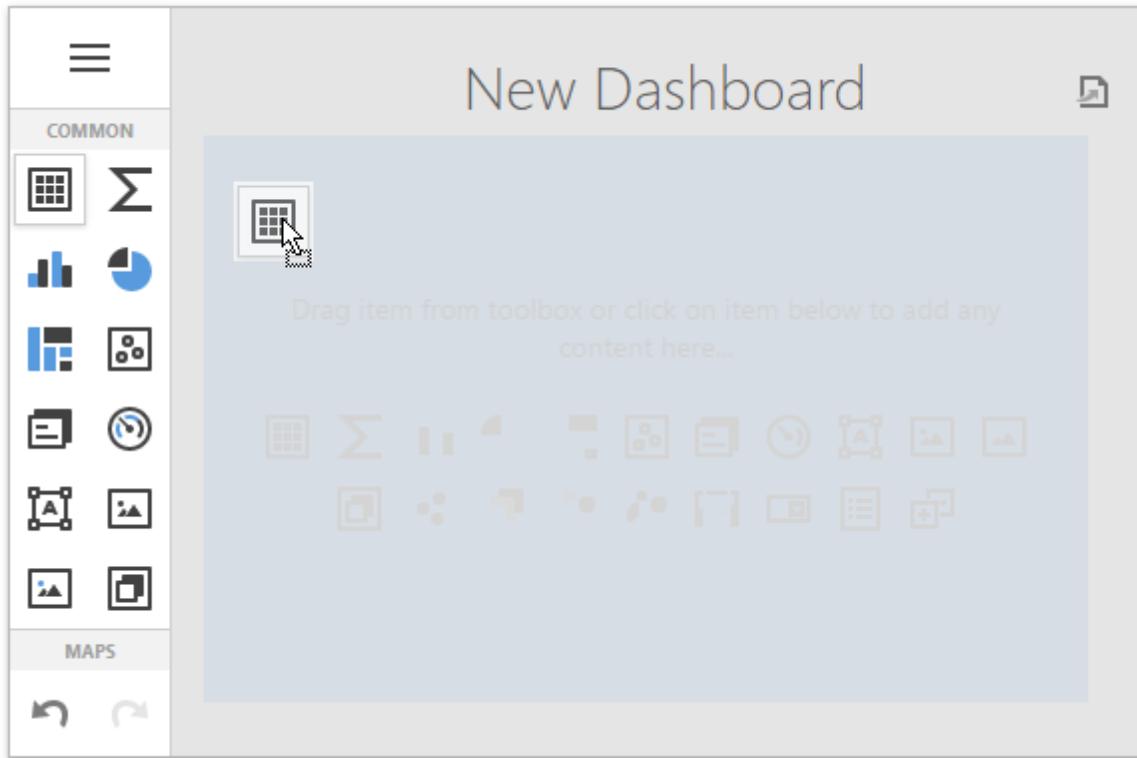
You can delete the calculated field by clicking the calculated field's **Delete** button (the icon).

Adding Dashboard Items

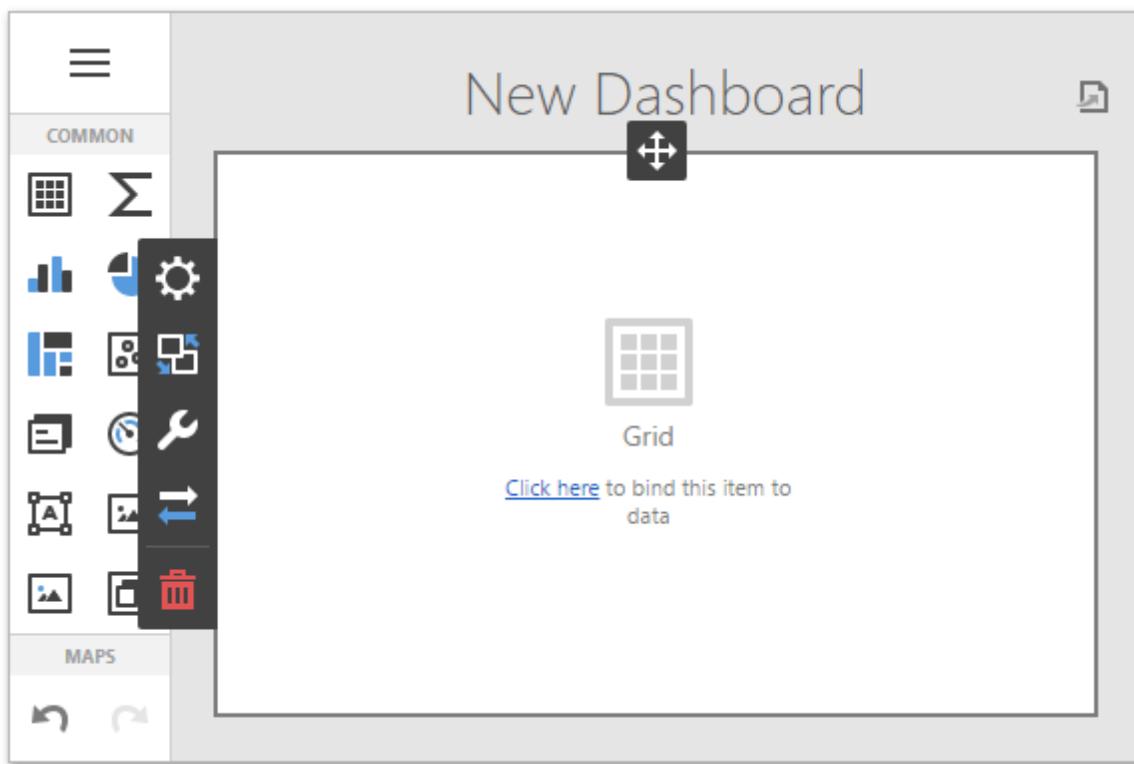
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Adding Dashboard Items](#)

After [creating a dashboard](#) and [providing data](#) to it, add **dashboard items** to display visual or textual information in a dashboard.

To create a dashboard item, click the corresponding button in the [Toolbox](#) or drag an item from the Toolbox into the dashboard surface.



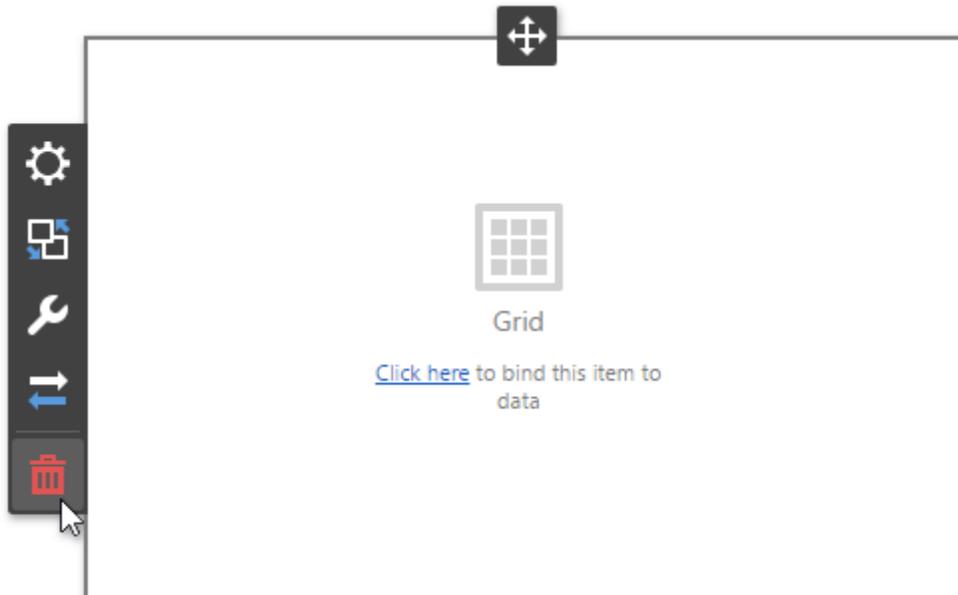
This creates an empty dashboard item, which you can now configure.



To completely design a dashboard item, perform the following steps.

- [Bind](#) the dashboard item to data.
- Set specific dashboard item settings based on its type. To learn more, see [Designing Dashboard Items](#).
- Perform the required [data shaping](#) operations (such as [grouping](#), [sorting](#), [filtering](#), etc.).
- Use the [interactivity](#) features to enable interaction between various dashboard items.
- Adjust the dashboard item's position and size (a [layout](#)) and specify the dashboard item caption settings.

To remove the dashboard item from the dashboard surface, use the **Delete** button in the [dashboard item menu](#).



Binding Dashboard Items to Data

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Binding Dashboard Items to Data](#)

To display data, dashboard items should be bound to [data source](#) fields. The topics in this section describe how to do this.

- [Binding Dashboard Items to Data in the Web Dashboard](#)
- [Hidden Data Items](#)
- [Binding Dashboard Items to Data in OLAP Mode](#)

Binding Dashboard Items to Data in the Web Dashboard

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Binding Dashboard Items to Data](#) > [Binding Dashboard Items to Data in the Web Dashboard](#)

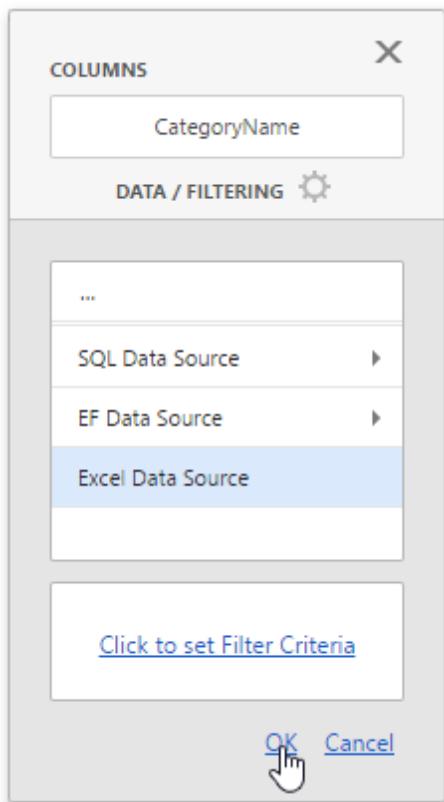
This topic explains how to bind the newly created dashboard item to data source fields to visualize data.

- [Specify a Data Source](#)
- [Create Binding](#)
- [Modify Binding](#)
- [Clear Binding](#)

Specify a Data Source

A dashboard can contain several data sources. By default, a dashboard item is bound to the first [available data source](#).

You can change the default data source (or a data member / query, optionally) of dashboard items. For this, go to the dashboard item's [Bindings](#) menu and click the **Data / Filtering** button.



In the invoked section you can change the data source (data member) for the selected dashboard item. Click **OK** to save the changes.

Note

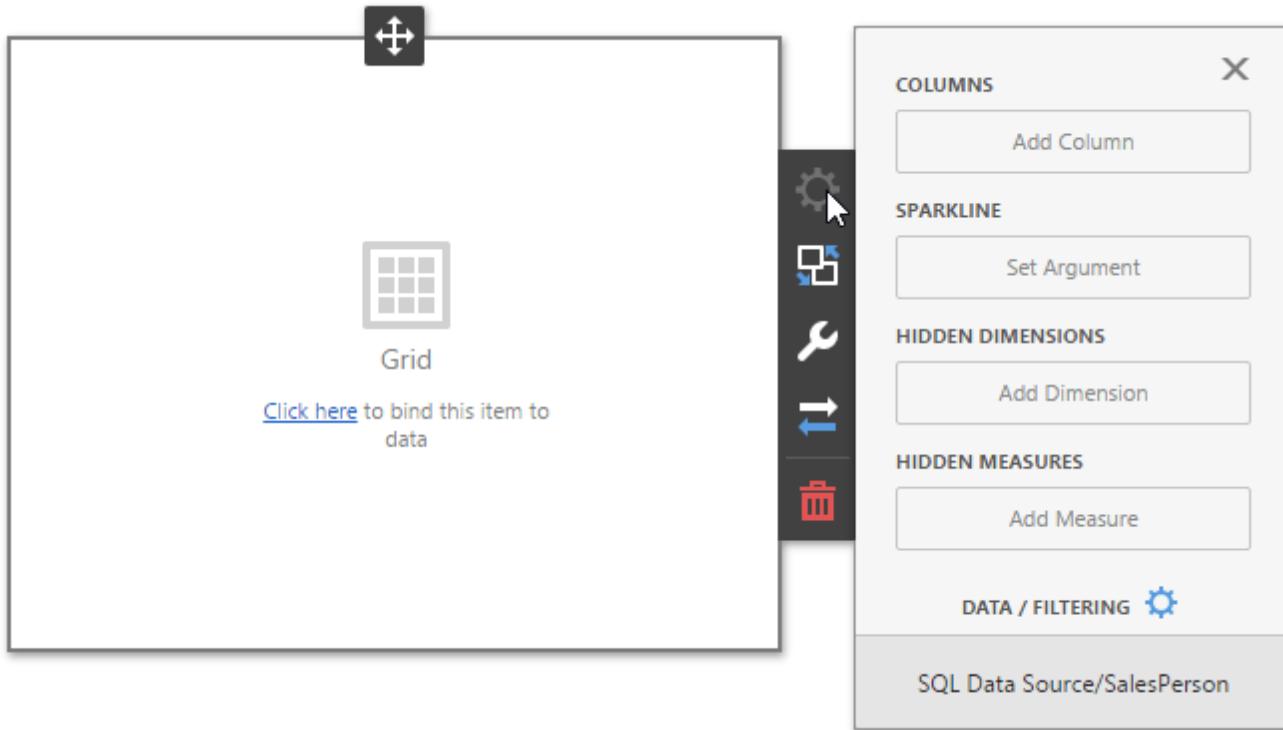
Note that this action removes all data items from the current dashboard item.

Create Binding

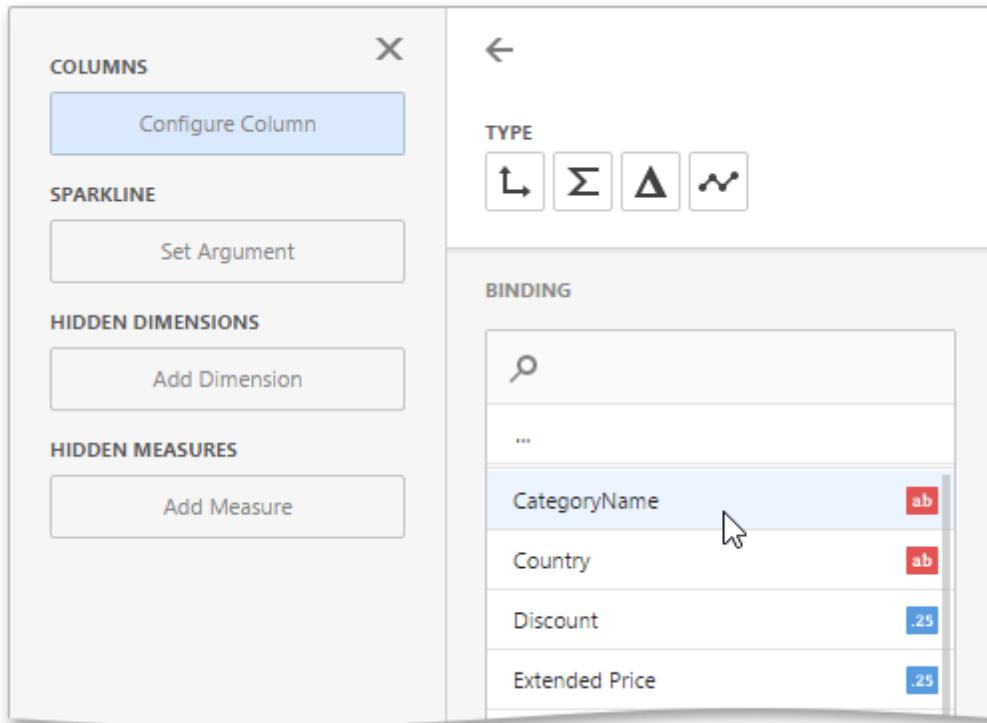
To bind a dashboard item to data, invoke the dashboard item's [Bindings](#) menu to open binding settings. In this menu you can see a data source (data member) to which the dashboard item is bound and empty placeholders for data items.

The image below displays the [Grid](#) dashboard item, that binded to *Sales Person* query of the *SQL Data Source*, and

corresponding [data sections](#).



To populate a dashboard item with data, click a placeholder and choose the required field in the invoked list of data source's available fields.



To rename the data item, go to the **Options** section and specify the data item's caption.

The screenshot shows the 'Columns' panel on the left and the 'Data Binding' dialog on the right. The 'Columns' panel contains sections for 'COLUMNS', 'SPARKLINE', 'HIDDEN DIMENSIONS', and 'HIDDEN MEASURES'. The 'Data Binding' dialog has tabs for 'TYPE', 'BINDING', 'DATA SHAPING', 'OPTIONS', 'CAPTION', 'TOTALS', and 'CONDITIONAL FORMATTING'. In the 'CAPTION' tab, the text 'Category' is entered into the input field.

Note

To learn how to bind a specific dashboard item to data, see the **Providing Data** topic for the [required dashboard item](#).

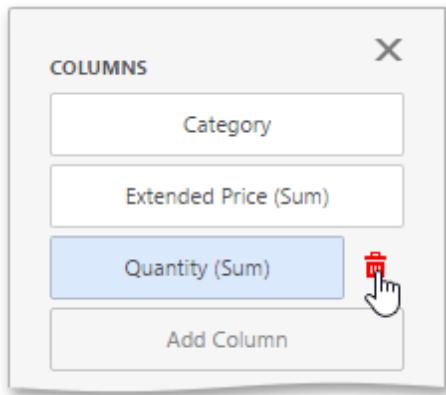
Modify Binding

You can modify data binding by dragging a data item within a data section. To do this, drag the data item to the required position.

The screenshot shows the 'Columns' panel. The 'Quantity (Sum)' data item is highlighted and has a small circular icon with a cursor arrow pointing to its center, indicating it is selected for dragging.

Clear Binding

You can remove the data item by clicking the **Remove** (trash bin) icon in the data item container.



Hidden Data Items

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Binding Dashboard Items to Data](#) > [Hidden Data Items](#)

The **hidden data items** can be used to perform various data shaping and analysis operations by measures or dimensions that do not directly take part in the visual representation of data.

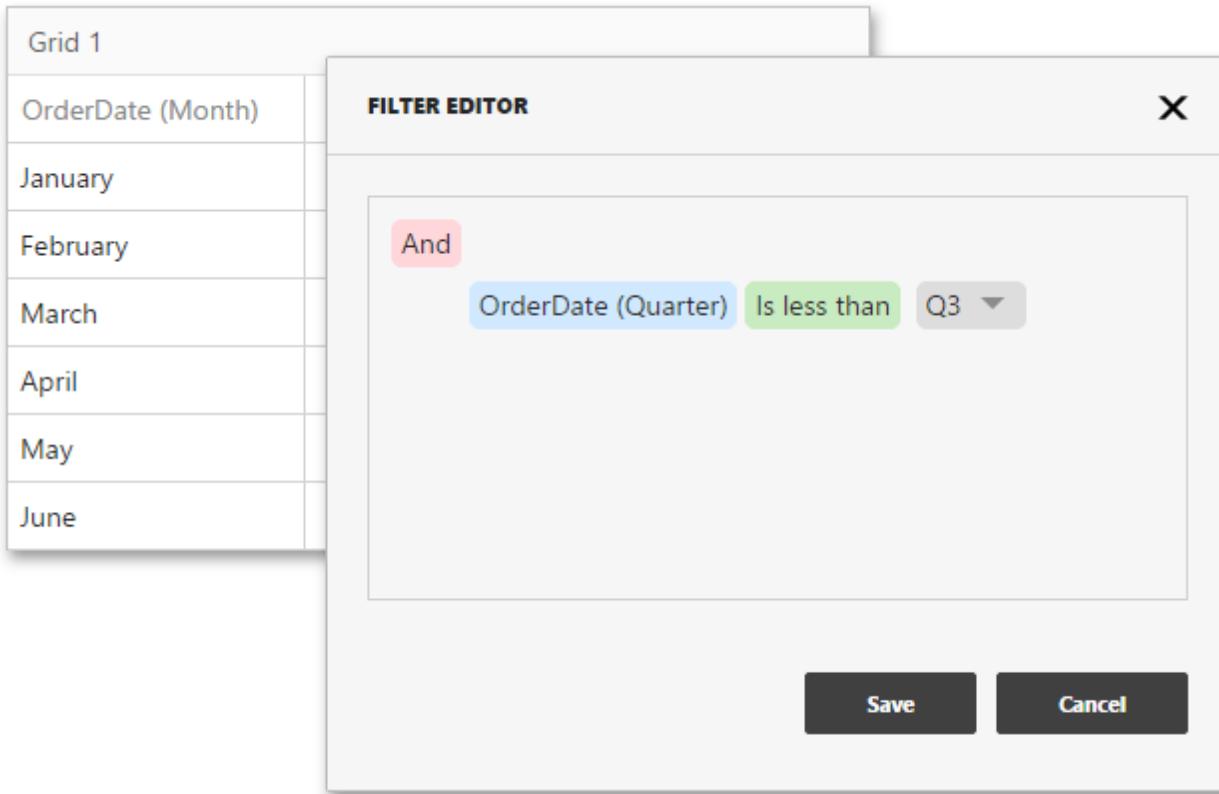
To create hidden data items, click the *Add Measure / Add dimension* placeholders in the **Hidden Measures / Hidden Dimensions** data section and select an appropriate data field.

You can perform the following operations using hidden data items.

- [Filtering](#)
- [Sorting](#)
- [Top N](#)
- [Conditional Formatting](#)

Filtering

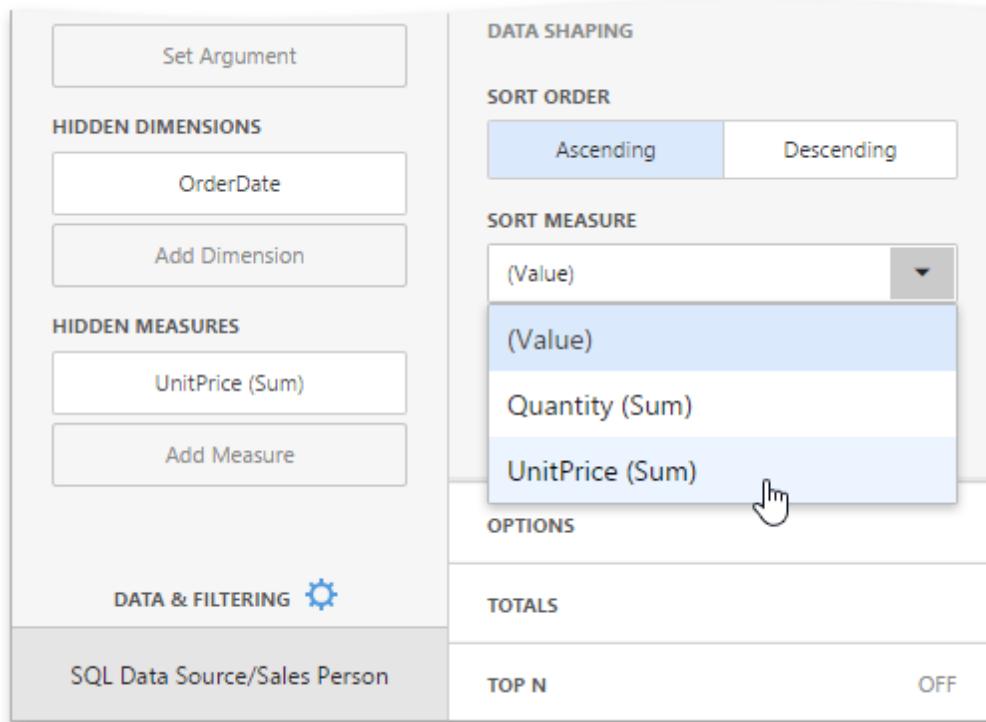
You can use **hidden dimensions** to apply [filtering](#) to the dashboard item.



For example, the Grid on the image above is filtered by the *OrderDate (Quarter)* hidden dimension.

Sorting

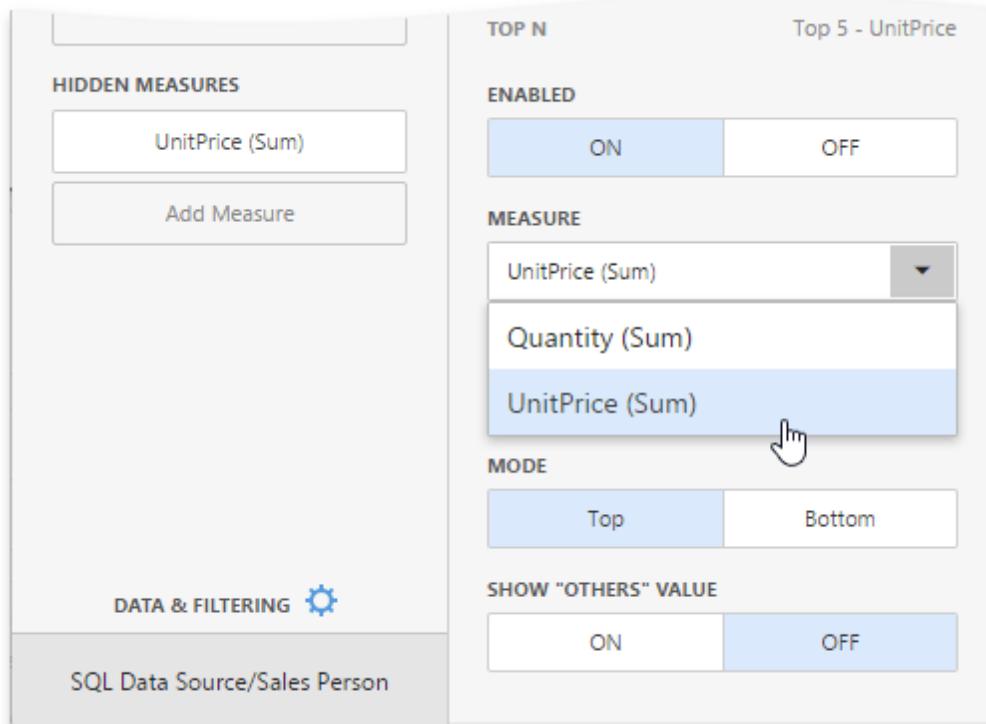
You can [sort](#) values of the specified dimension by the **hidden measure**.



For instance, a data item menu on the image above displays sorting by values of the hidden *UnitPrice (Sum)* measure.

Top N

You can use **hidden measures** in [Top N](#) conditions.



For example, a data item menu on the image above displays the top 5 categories for the *UnitPrice (Sum)* hidden measure.

Conditional Formatting

You can create format rules based on **hidden measures** to apply [conditional formatting](#) to elements corresponding to visible values.

The screenshot shows the 'FormatRule 2: Range Set' dialog box. On the left, there's a sidebar with sections for 'COLUMNS', 'SPARKLINE', 'HIDDEN DIMENSIONS', and 'HIDDEN MEASURES'. Under 'HIDDEN MEASURES', 'Quantity (Sum)' is selected and has a delete icon. The main dialog area shows 'CALCULATED BY' set to 'Hidden Measures - Quantity (Sum)'. 'APPLY TO' is set to 'Category'. 'CONDITION TYPE' is set to '... / Color Ranges'. Below this, 'RANGES 2' and 'RANGES 3' are shown, each with three colored bars (light blue, light green, light red) representing different value ranges. A cursor is hovering over the first bar in 'RANGES 2'.

For example, the Range Set format rule on the image above is calculated by the *Quantity (Sum)* hidden measure.

Binding Dashboard Items to Data in OLAP Mode

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Binding Dashboard Items to Data](#) > [Binding Dashboard Items to Data in OLAP Mode](#)

In OLAP mode, the cube schema is fetched automatically, and the **Data Sources** page of the [dashboard menu](#) displays the entire OLAP cube structure.

USED DATA SOURCES	
Add	
OLAP Data Source	
+ Customer	
+ Date	
+ Delivery Date	
+ Employee	
- Geography	
City	Text
Country	Text
Postal Code	Text
State-Province	Text
Geography	Text
+ Internet Sales Order	
+ Measures	

To visualize data, open the dashboard item's **Bindings** menu, click a placeholder and choose the required measure, attribute or hierarchy in the invoked list of data source's available fields, as described in the [Binding Dashboard Items to Data](#) topic. Note that OLAP measures can only be placed in the Values section, while dimension attributes and hierarchies can be placed within other data sections.

Note

By default, the dashboard displays only dimension values that have intersections with measures in a cube. To show all available dimension values, add [hidden measures](#) to the dashboard item so that all dimension values of the dimension will have not be empty for at least one measure value of these measures.

OLAP hierarchies allow you to customize each of their levels separately. Select the desired level in the dashboard item's **Bindings** menu to invoke the [data item menu](#) to access hierarchy level options.

The screenshot shows the 'VALUES' section with 'Sales Amount' selected. In the 'ARGUMENTS' section, a hierarchy is defined: 'Group' at the top, followed by 'Country' and 'Region'. A hand cursor is hovering over the 'Region' button. Below these are 'Add Values' and 'Add Argument' buttons. The 'SERIES' section contains 'Fiscal Year' and 'Add Series' buttons. On the right side, the 'BINDING' section is set to 'Group'. Under 'DATA SHAPING', 'SORT ORDER' is set to 'Ascending', 'SORT BY' is '(Value)', 'GROUP INTERVAL' is 'None', and 'COLORING' is 'Auto'. There is also a back arrow icon.

Note

You can easily drill down through OLAP hierarchies using the [Drill-Down](#) feature.

Designing Dashboard Items

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#)

The Web Dashboard provides a number of visualization media designed to effectively present visual or textual information in a dashboard - **dashboard items**.

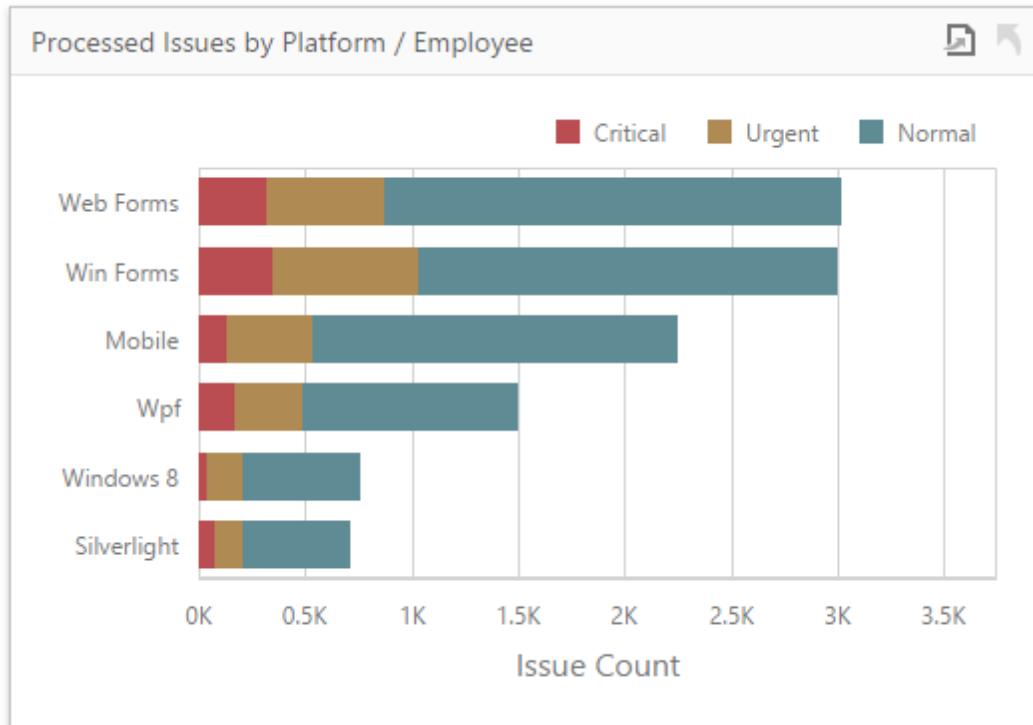
This section describes the available dashboard items.

- [Chart](#)
- [Scatter Chart](#)
- [Grid](#)
- [Pies](#)
- [Cards](#)
- [Gauges](#)
- [Pivot](#)
- [Choropleth Map](#)
- [Geo Point Maps](#)
- [Range Filter](#)
- [Images](#)
- [Text Box](#)
- [Treemap](#)
- [Filter Elements](#)
- [Dashboard Item Group](#)

Chart

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Chart](#)

The topics in this section describe the features available in the **Chart** dashboard item, and provide information on how to create and customize charts in the Web Dashboard.



This section is divided into the following subsections.

- [Providing Data](#)
Provides information on how to supply the Chart dashboard item with data.
- [Series](#)
Enumerates and describes different types of series that can be displayed within the Chart dashboard item.
- [Panes](#)
Introduces the concept of chart panes (visual areas within a diagram that display chart series), and provides information on how to create them.
- [Interactivity](#)
Describes features that enable interaction between the Chart and other dashboard items.
- [Legend](#)
Provides information about the chart legend and its options.
- [Axes](#)
Describes how to customize settings related to chart axes.
- [Orientation](#)
Describes how to toggle the chart's orientation.

Providing Data

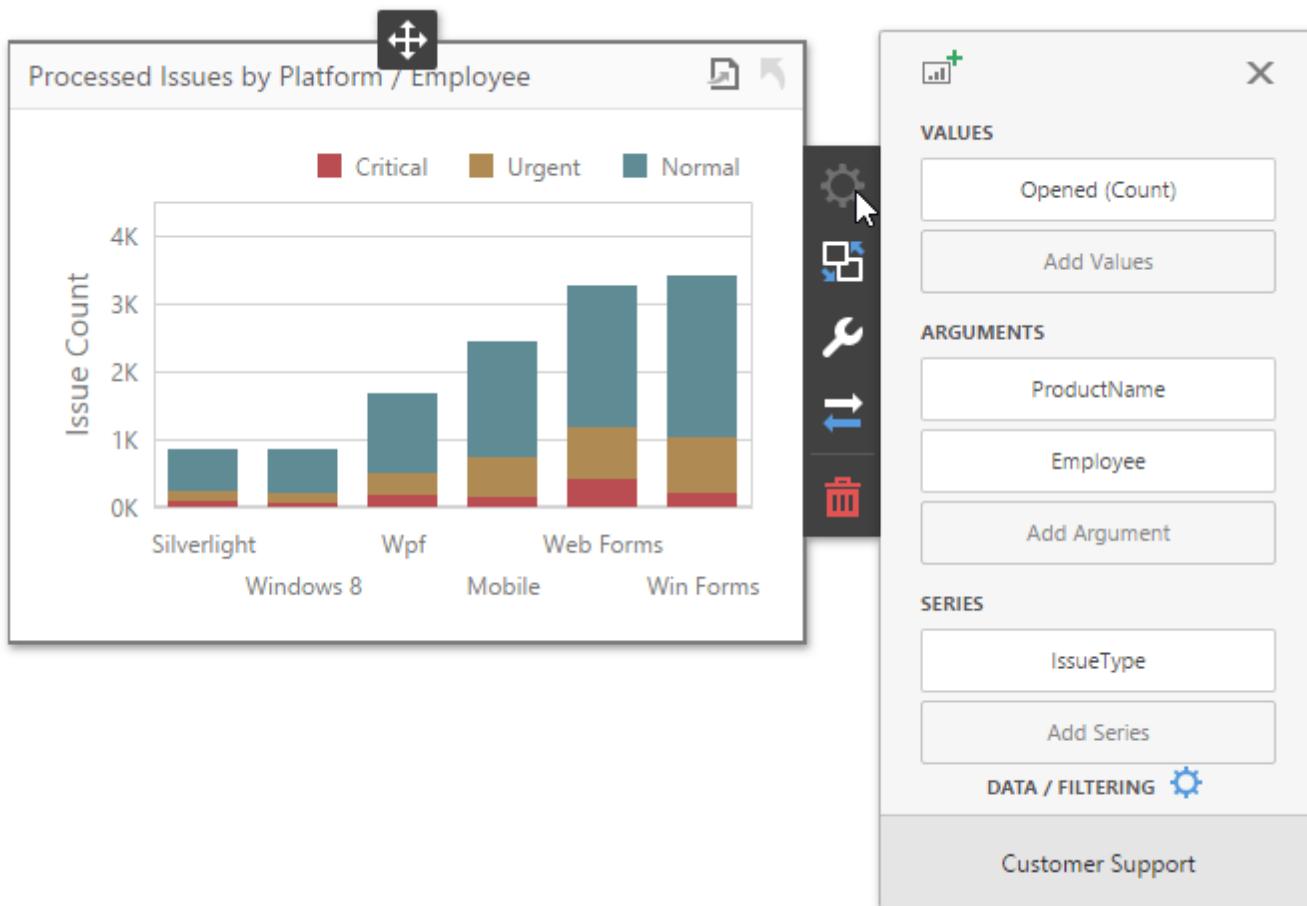
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Chart](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind a **Chart** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Chart dashboard item that is bound to data.



To bind the Chart dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The table below lists and describes the Chart's data sections.

Section	Processed as	Description
Values	Measure	Contains data items against which the Y-coordinates of data points are calculated. The data item menu allows you to select the series type and specify different options. Note that some types of series accept several measures. To learn more, see the documentation for the required series type .

Arguments	Dimension	Contains data items that provide values displayed along the X-axis of the chart.
Series	Dimension	Contains data items whose values are used to create chart series.

Series

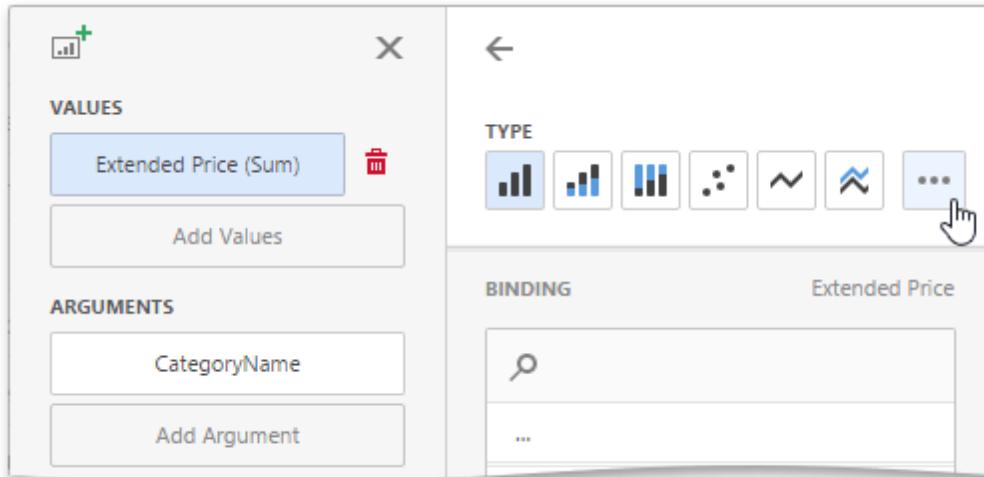
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Chart](#) > [Series](#)

The Chart dashboard item supports different types of series - from simple bar and line charts to candle stick and bubble graphs.

- [Change Series Type](#)
- [Configure Series Options](#)
- [Configure Series Point Label](#)

Change Series Type

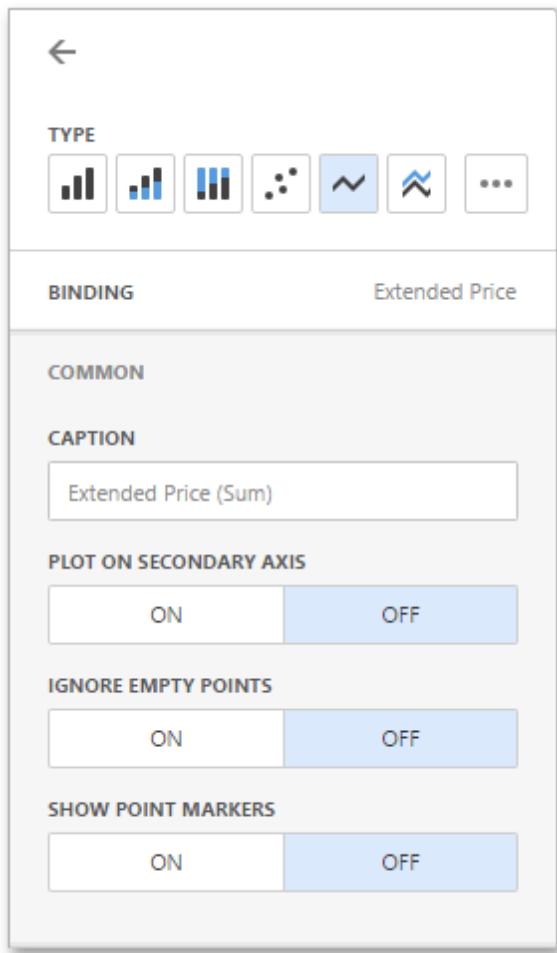
By default, Chart visualizes data using the Bar series. To switch between series types, click the required data item in the **Values** section and select the required series type in the invoked data item menu.



Click the ellipsis button to show all available series types.

Configure Series Options

To configure common series options, go to the data items **Options** section.



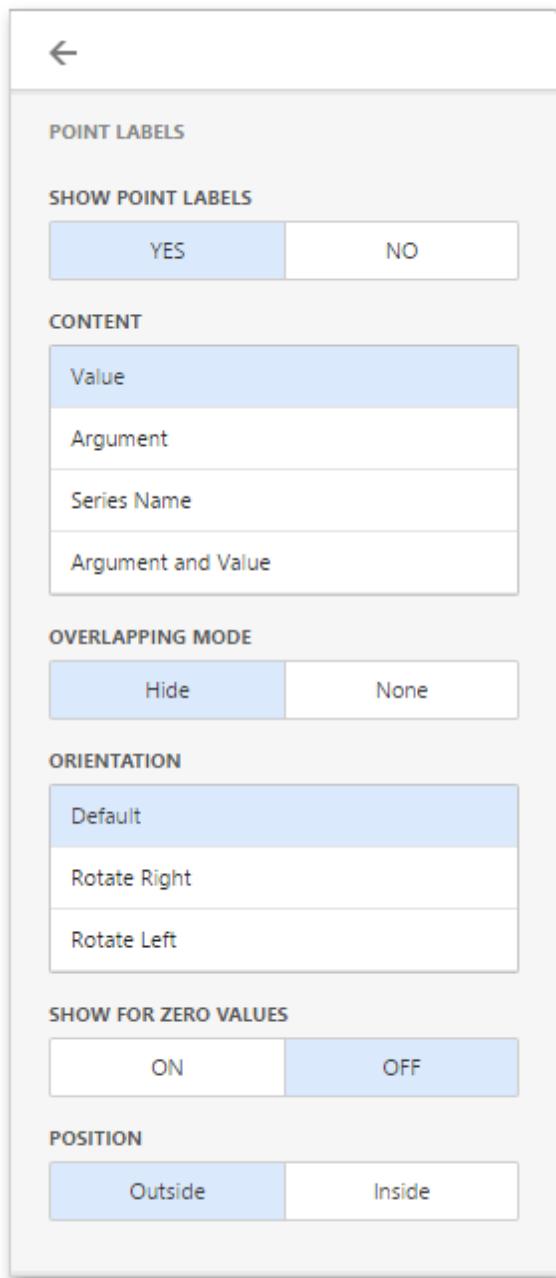
Here you can specify whether or not to plot the current series on the secondary axis, configure point markers behavior, etc.

The following options are available.

Option	Description
Caption	Specifies the series caption.
Plot on secondary axis	Specifies whether or not the secondary axis is used to plot the current series.
Ignore empty points	Specifies whether or not empty points are ignored when plotting the current series.
Show point markers	Specifies whether or not to show point markers for the current series. This option is in effect for the Line and Area series. Note that point markers are always shown when Master Filtering is enabled for the Chart dashboard item.

Configure Series Point Label

The **Point Label** section of a value data item allows you to enable series point labels and manage their settings.



For example, you can specify whether or not to show point labels or set the label overlap mode.

The following options are available.

Option	Description
Show Point Labels	Specifies whether or not to show point labels for the current series.
Content	Specifies the type of content displayed within point labels. You can select one of the following options: <i>Value</i> , <i>Argument</i> , <i>Series Name</i> or <i>Argument and Value</i> .
Overlapping Mode	Specifies the label overlap mode. You can reposition or hide overlapping labels or disable a resolving algorithm.

Orientation

Specifies the orientation of point labels. You can set default orientation or rotate point labels 90 degrees clockwise or counter clockwise.

Bar series has additional settings.

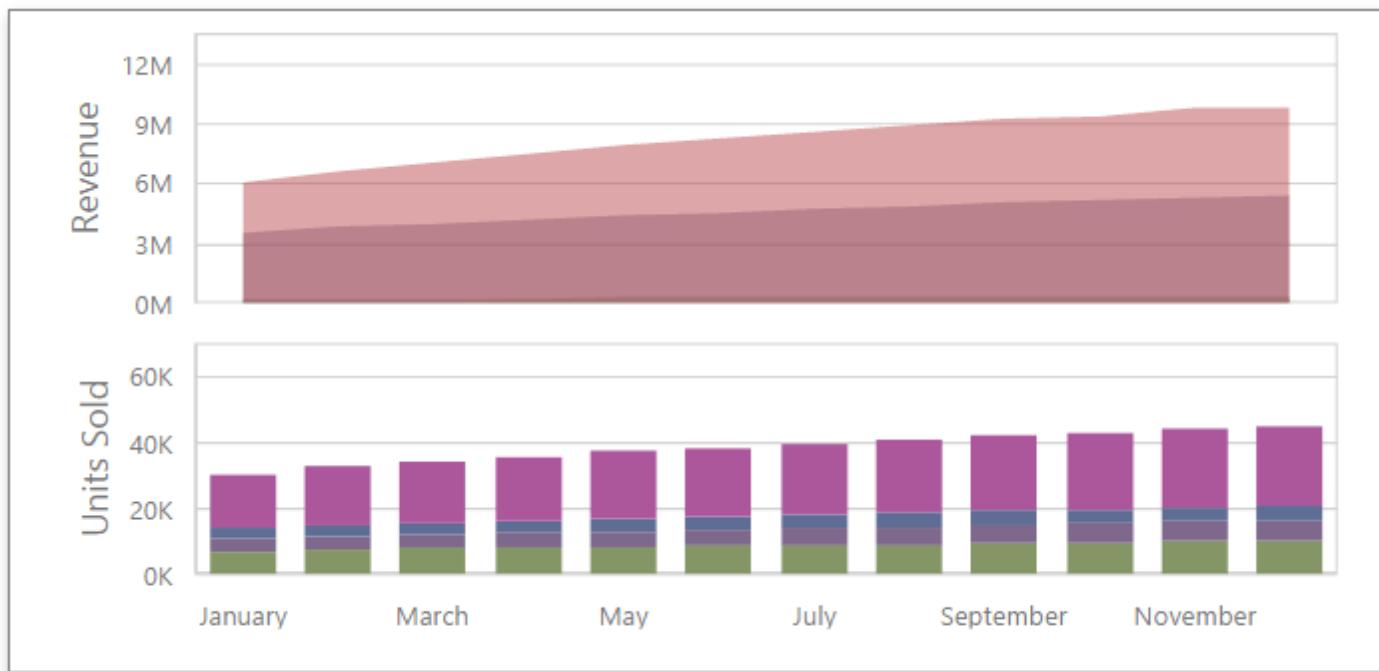
Option	Description
Show for zero values	Specifies whether or not to show labels for points with zero values.
Position	Specifies the position of point labels relative to bars. Point labels can be displayed inside or outside bars.

Panes

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Chart](#) > [Panes](#)

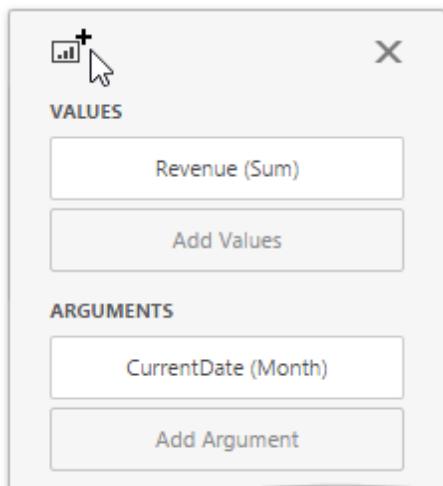
Panes are visual areas within a diagram that display chart series. The Chart dashboard item can contain any number of panes.

Each pane has its own **Y-axis** and displays a specific set of series. All panes in a chart share the same **X-axis**.

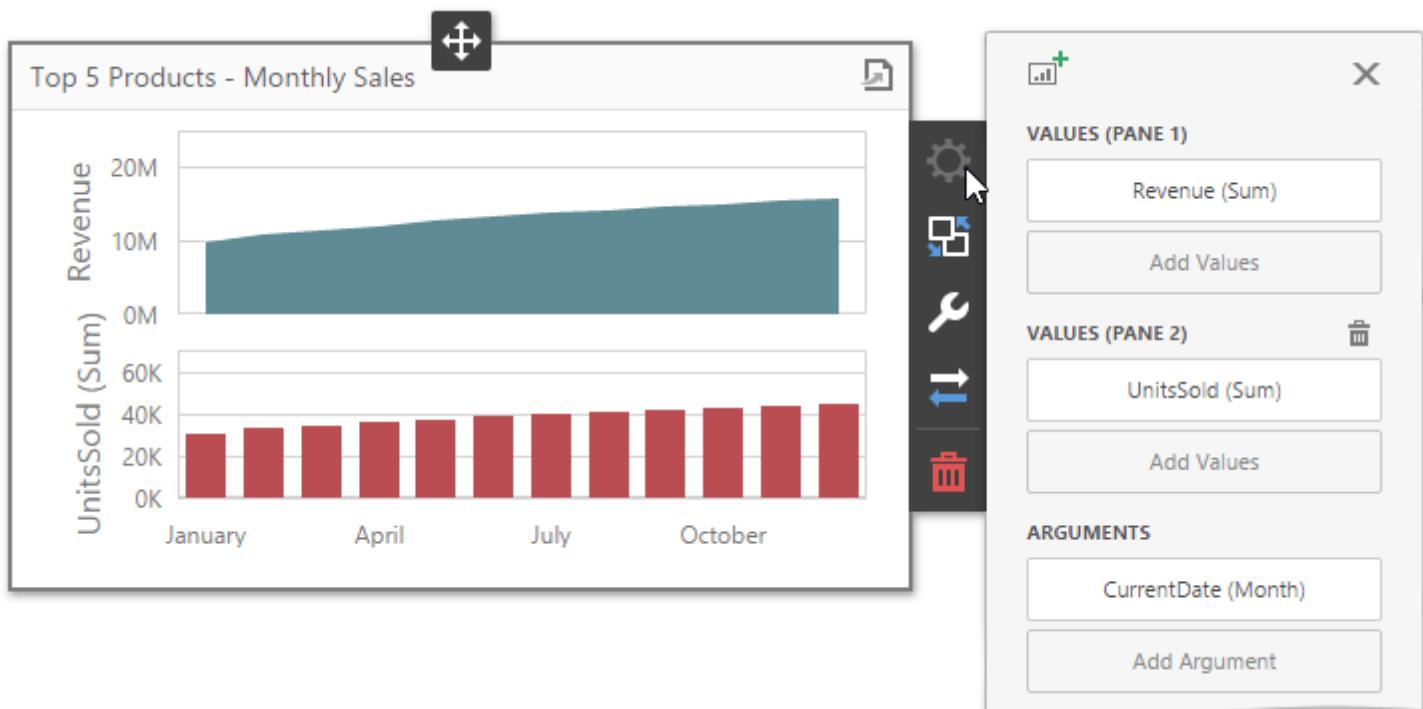


Add Panes

To add a pane, click the **Add Pane** button in the Chart's data item section.



Once a new pane is added, the Web Dashboard creates another Values section. Use this section to provide data items that supply values to be displayed in the new pane (see [Providing Data](#) for details on data binding).



To remove a pane, click the **Remove Pane** button displayed in the added Values section.

Interactivity

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Chart](#) > [Interactivity](#)

To enable interaction between the Chart and other dashboard items, you can use the interactivity features, as **Master Filtering** and **Drill-Down**.

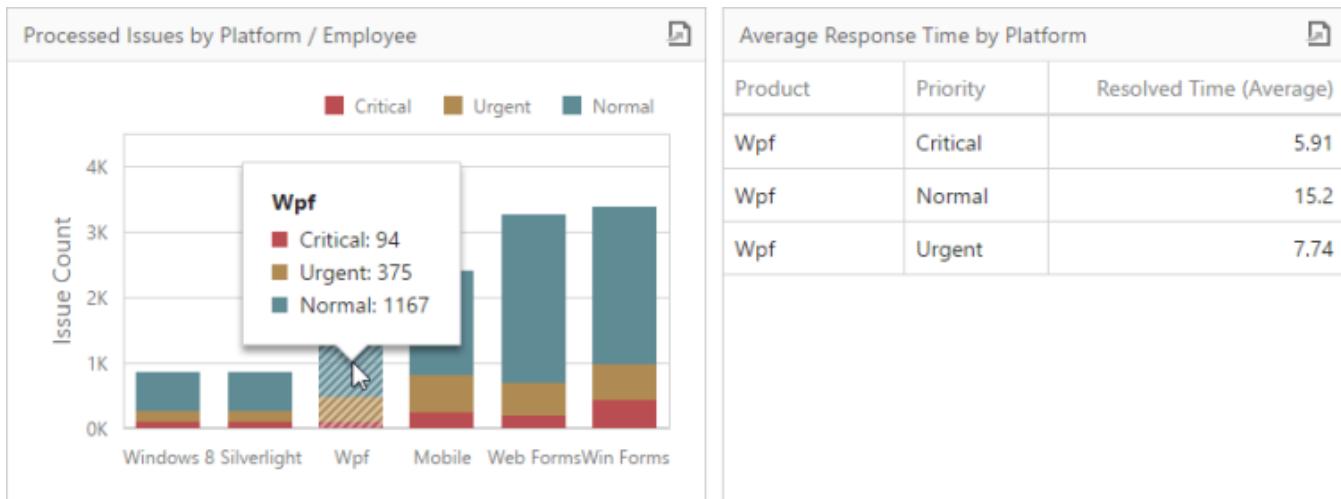
- [Master Filtering](#)
- [Drill-Down](#)

Master Filtering

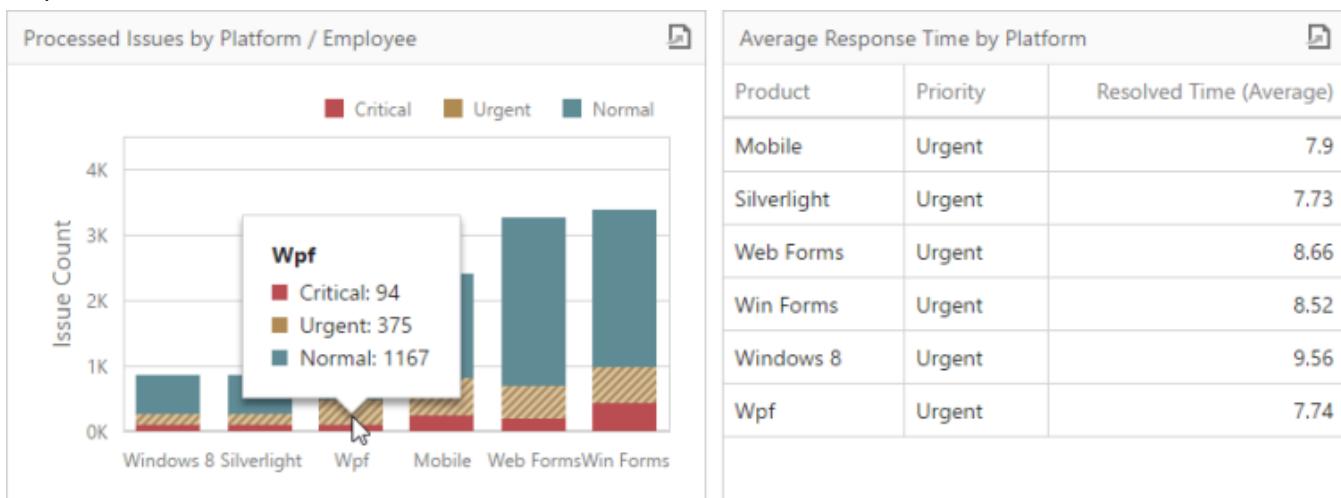
You can use the Chart dashboard item as a filter for other dashboard items. To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

The Chart supports filtering by **argument**, **series** or **points**.

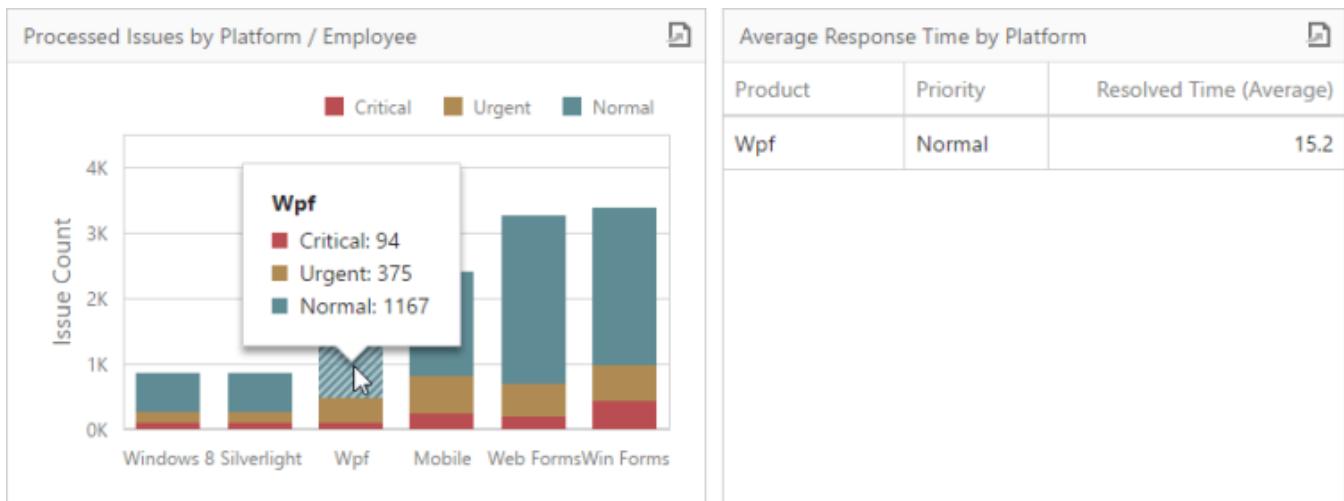
- Filtering **by arguments** allows you to make other dashboard items display only data related to selected argument values by clicking series points.



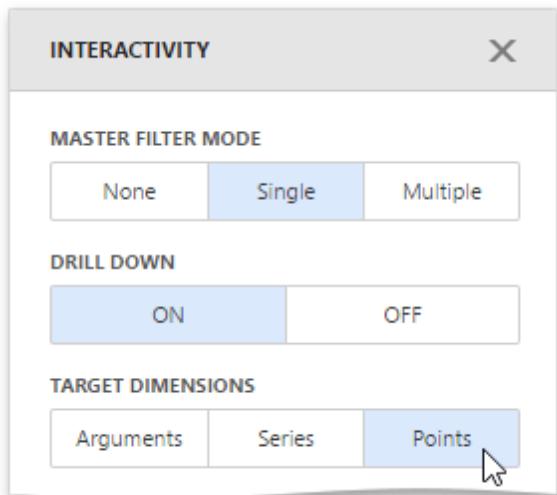
- When filtering **by series** is enabled, you can click a series point to make other dashboard items display only data related to the selected series.



- Filtering **by points** makes other dashboard items display only data related to the selected point.



To configure filtering type, open the Chart's [Interactivity](#) menu and select **Arguments**, **Series** or **Points** as a target dimension.



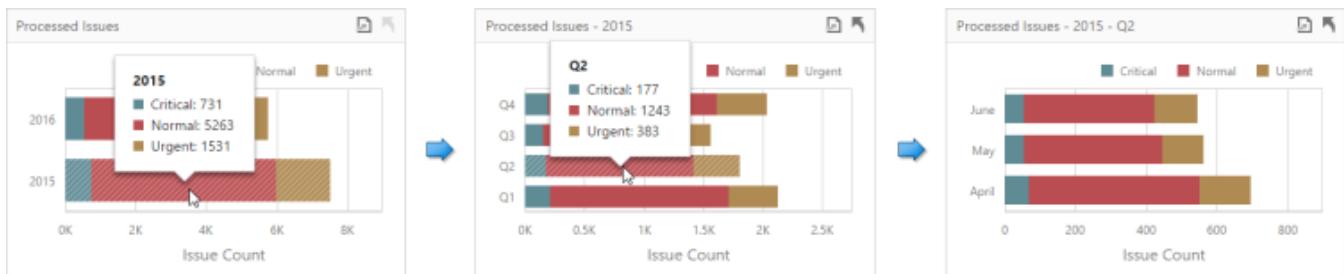
To reset filtering, use the **Clear Master Filter** button (the icon) in the Chart's [caption](#).

Drill-Down

The drill-down capability allows you to change the detail level of data displayed in the Chart dashboard item. To learn more about drill-down concepts common to all dashboard items, see the [Drill-Down](#) topic.

The Chart supports drill-down on **argument** or **series** values.

- To drill down on arguments, click a series point to view a detail chart for the corresponding argument value.

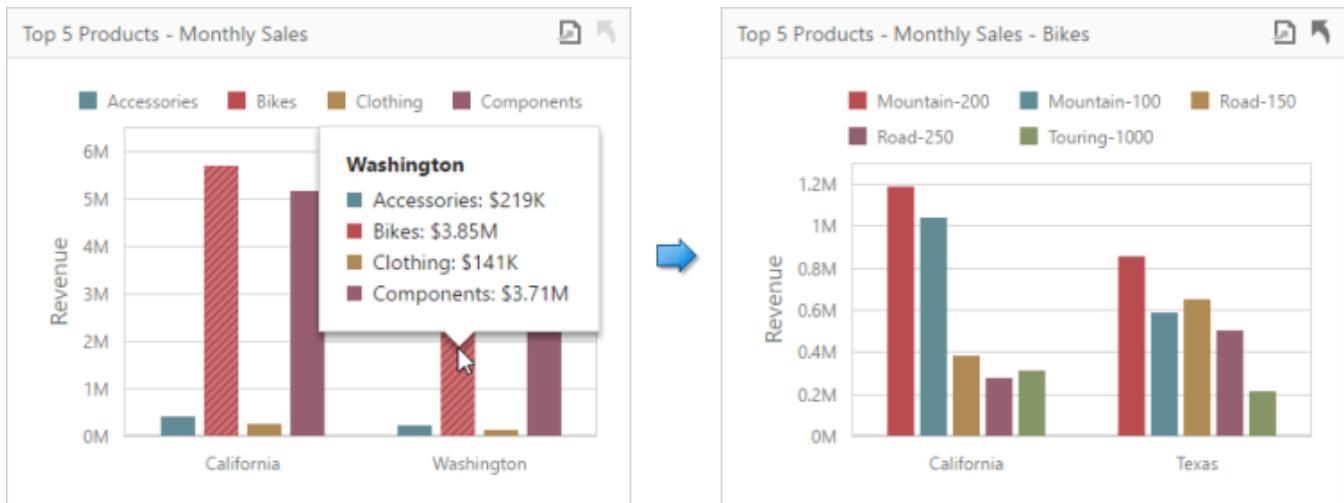


Drill-down on arguments requires that the Arguments section contains several data items, from the least detailed to the most detailed item.

ARGUMENTS

- Opened
- Opened (Quarter)
- Opened (Month)
- Add Argument

- When drill-down on series is enabled, you can click a series point to view a detail chart for the corresponding series.



Drill-down on series requires that the Series section contains several data items, from the least detailed to the most detailed item.

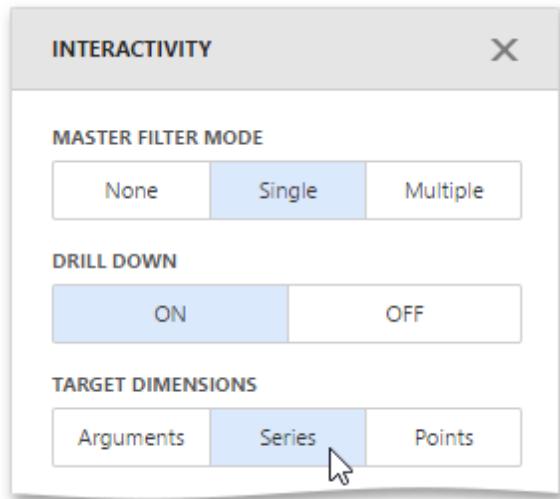
SERIES

- Category
- Product
- Add Series

Note

In OLAP mode, you can perform drill-down for either a hierarchy data item or several dimension attributes.

To specify drill-down type, go to the Chart's [Interactivity](#) menu and set **Arguments** or **Series** as a target dimension.

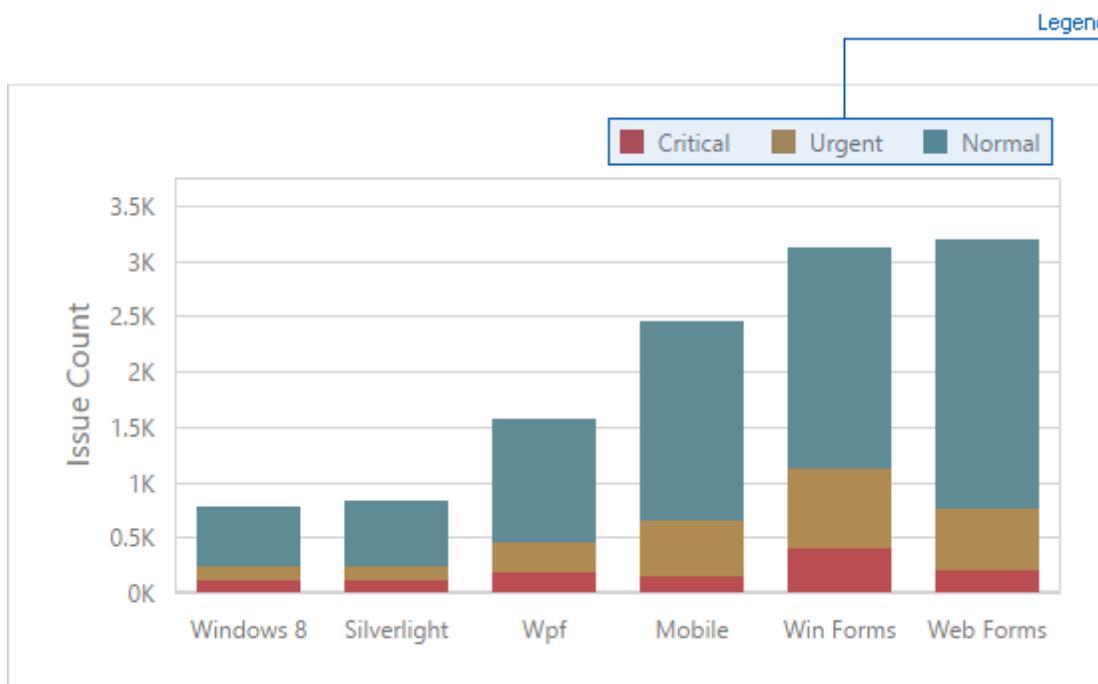


To return to the previous detail level, click the **Drill Up** button (the ↕ icon) in the Chart's [caption](#).

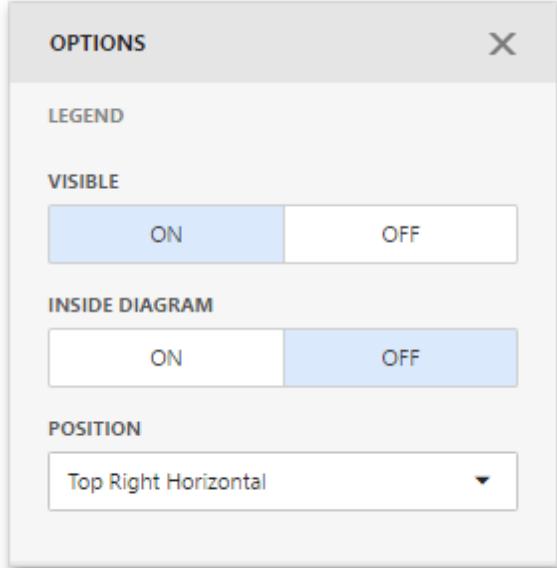
Legend

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Chart](#) > [Legend](#)

A legend is an element of a chart that identifies chart series and series points.



To customize legend options, go to the Chart's [Options](#) menu and open the **Legend** section.



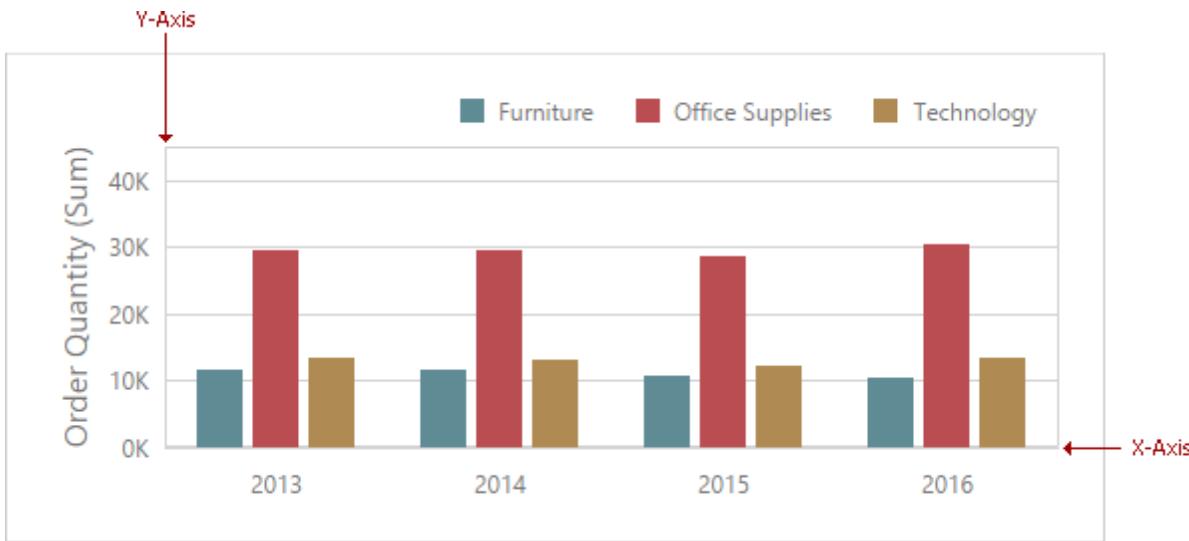
The following settings are available.

- The **Visible** option allows you to specify whether or not to show a legend.
- The **Inside Diagram** option allows you to locate a legend inside or outside the Chart.
- The **Position** option allows to set a legend's position and orientation.

Axes

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Chart](#) > [Axes](#)

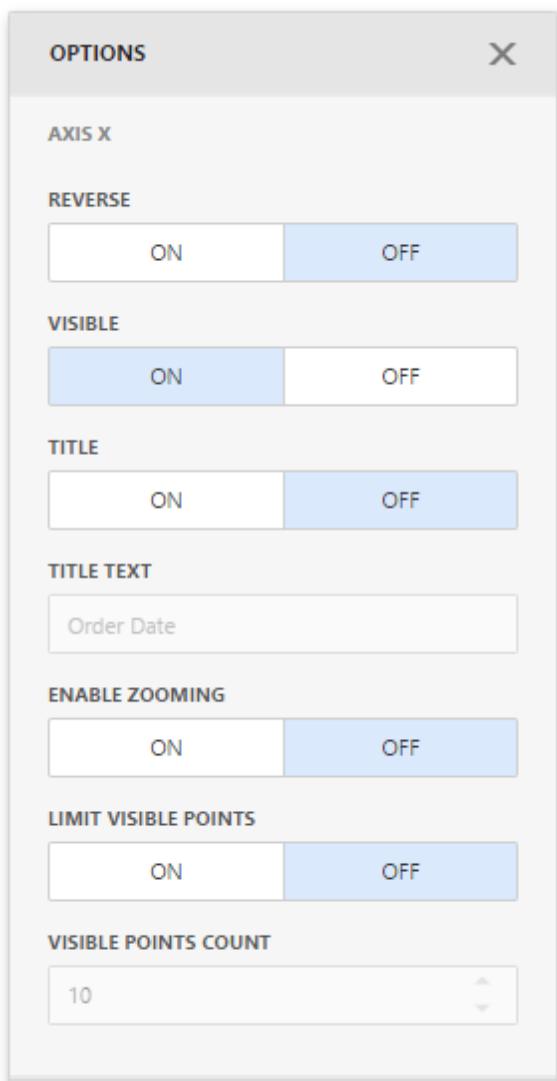
The Chart dashboard item displays two axes by default: the X-axis and the Y-axis. The X-axis is the axis of arguments and the Y-axis is the numerical axis of values.



Axis X

To access X-axis settings, go to the Chart's [Options](#) menu and open the **Axis X** section.

You can configure the following settings.

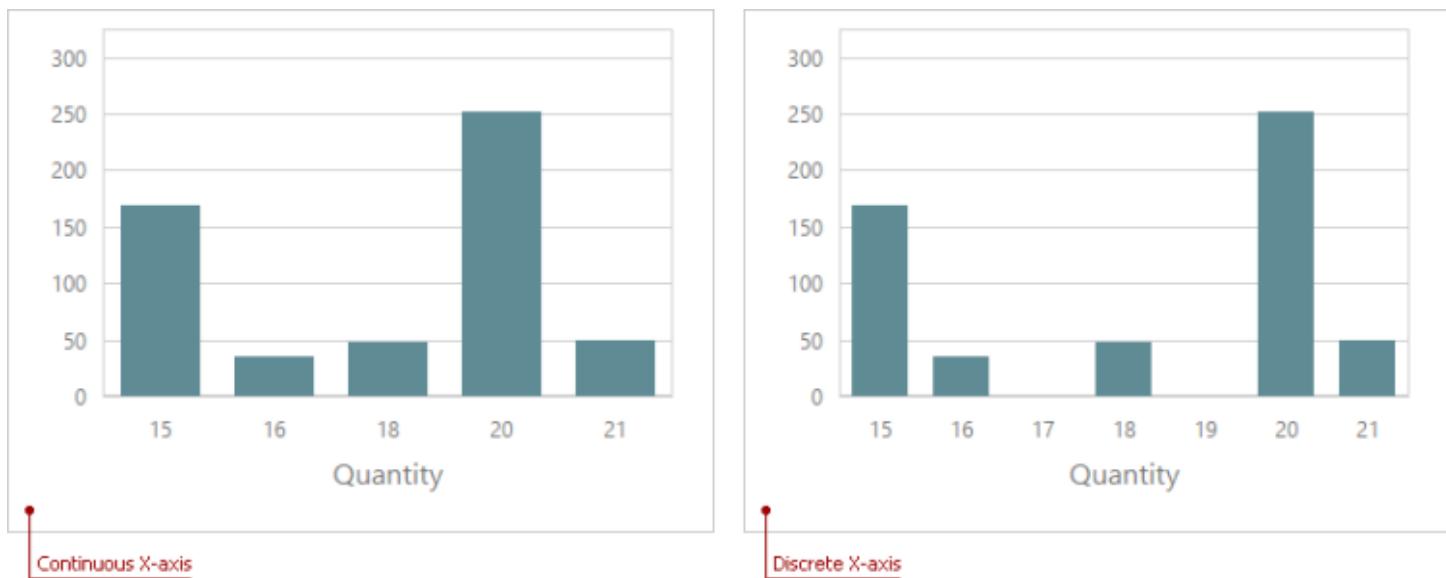


- The **Reverse** option allows you to reverse an X axis. If the X axis is reversed, its values are ordered from right to left.
- The **Visible** option specifies whether the axis is visible.
- The **Title** option specifies the X axis's title. Use the **Title Text** field to set the title.
- The **Enable Zooming** option allows you to enable zooming for the X axis.
- The **Limit Visible Points** option allows you to limit the number of visible points. The **Visible Points Count** field allows you to specify the maximum number of visible points.

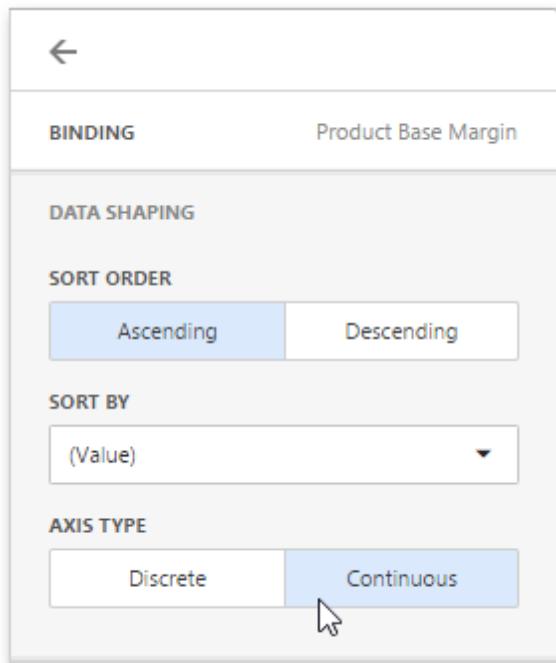
Continuous and Discrete X-Axes

If the dimension in the Arguments section contains numeric data, the Chart can create either a continuous X-axis or a discrete X-axis.

If a continuous axis is used, the distance between argument values is proportional to their values. On a discrete axis, all argument values are an equal distance from each other.



To specify the X-axis type in the Web Dashboard, go to the data item [Data Shaping](#) menu for the argument dimension and select the axis type. The image below illustrates how to change this setting for the *Product Base Margin* data item.



Axis Y

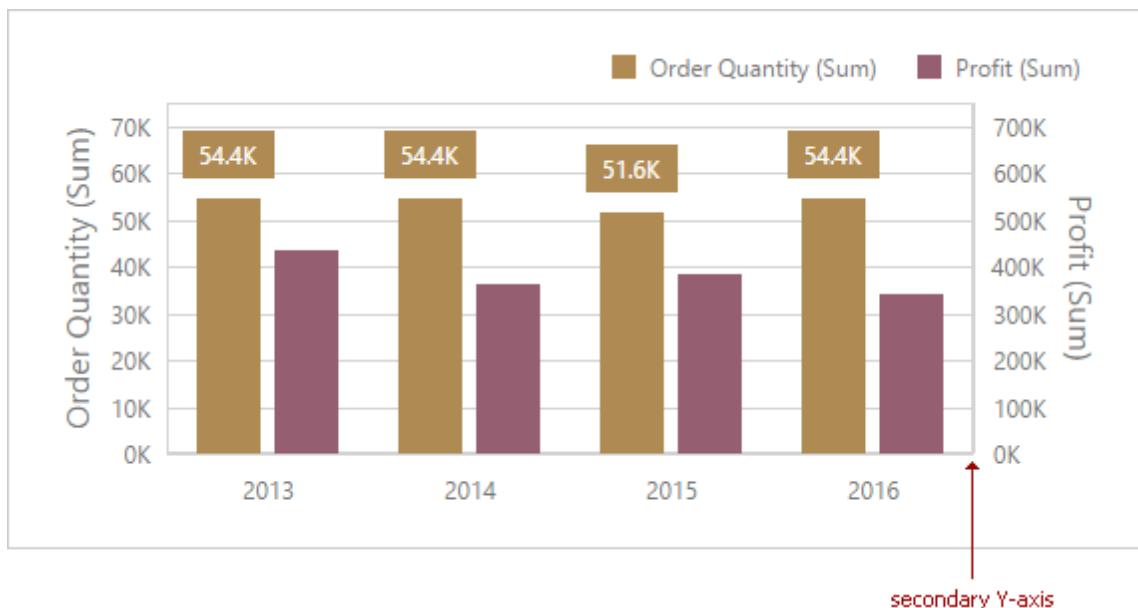
To access Y-axis settings, go to the Chart's [Options](#) menu and open the **Axis Y** section for a corresponding pane.



- The **Always Show Zero Level** option allows you to indicate whether or not an axis zero value should be displayed.
- The **Reverse** option allows you to reverse an Y-axis. If the Y-axis is reversed, its values are ordered from right to left.
- The **Grid Lines** options allows you to control the visibility of the reference lines used to improve the readability of a chart's visual data.
- The **Visible** option specifies whether the axis is visible.
- The **Title** option specifies the Y-axis's title. Use the **Title Text** field to set the title.
- The **Logarithmic Scale** option allows you to use a log scale to display Y-axis. Use the **Logarithmic Scale Base** field to set a log scale base.

Secondary Axis

The secondary Y-axis is useful when it is necessary to visually combine several charts into one. Secondary axes provide the ability to plot series with different ranges on the same chart.

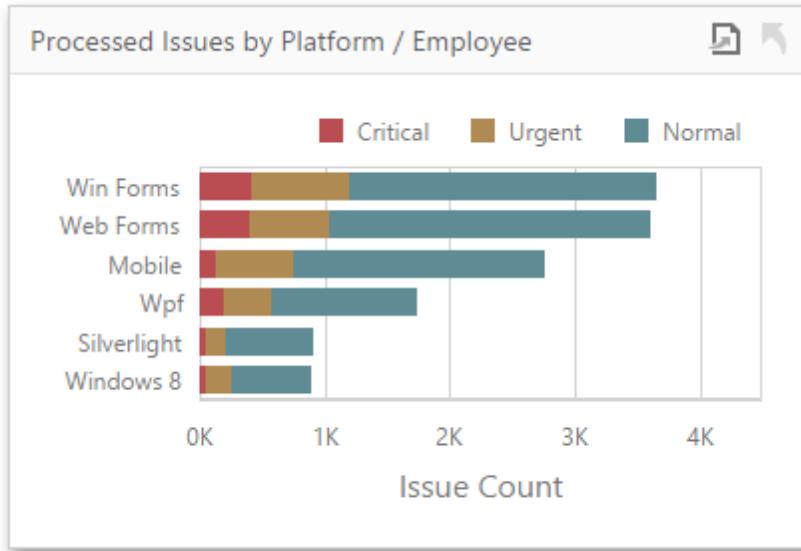


To plot the required series using the secondary axis, go to the data item [Options](#) menu for the value measure and turn the **Plot on Secondary Axis** option on.

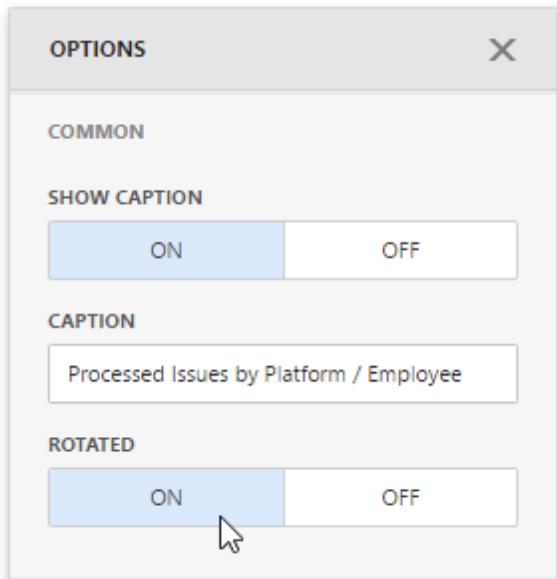
Orientation

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Chart](#) > Orientation

You can rotate the Chart so that the X-axis becomes vertical, and the Y-axis becomes horizontal.



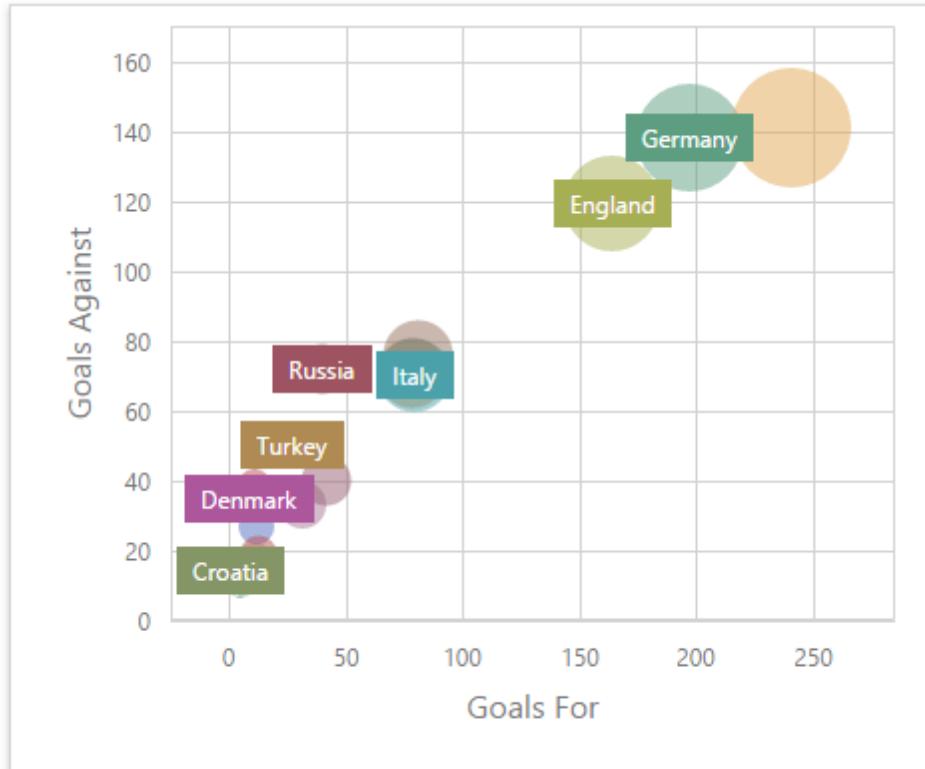
To rotate a Chart in the Web Dashboard, open the Chart's [Options](#) menu and go to **Common** section. Then, turn the **Rotated** option on.



Scatter Chart

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Scatter Chart](#)

The topics in this section describe the features available in the **Scatter Chart** dashboard item, and provide information on how to create and customize scatter charts in the Web Dashboard.



This section is divided into the following subsections.

- [Providing Data](#)
Provides information on how to supply the Scatter Chart dashboard item with data.
- [Interactivity](#)
Describes features that enable interaction between the Scatter Chart and other dashboard items.
- [Legend](#)
Provides information about the chart legend and its options.
- [Axes](#)
Describes how to customize settings related to chart axes.
- [Orientation](#)
Describes how to toggle the chart's orientation.
- [Labels](#)
Provides information about point labels and tooltips that contain descriptions of data points.

Providing Data

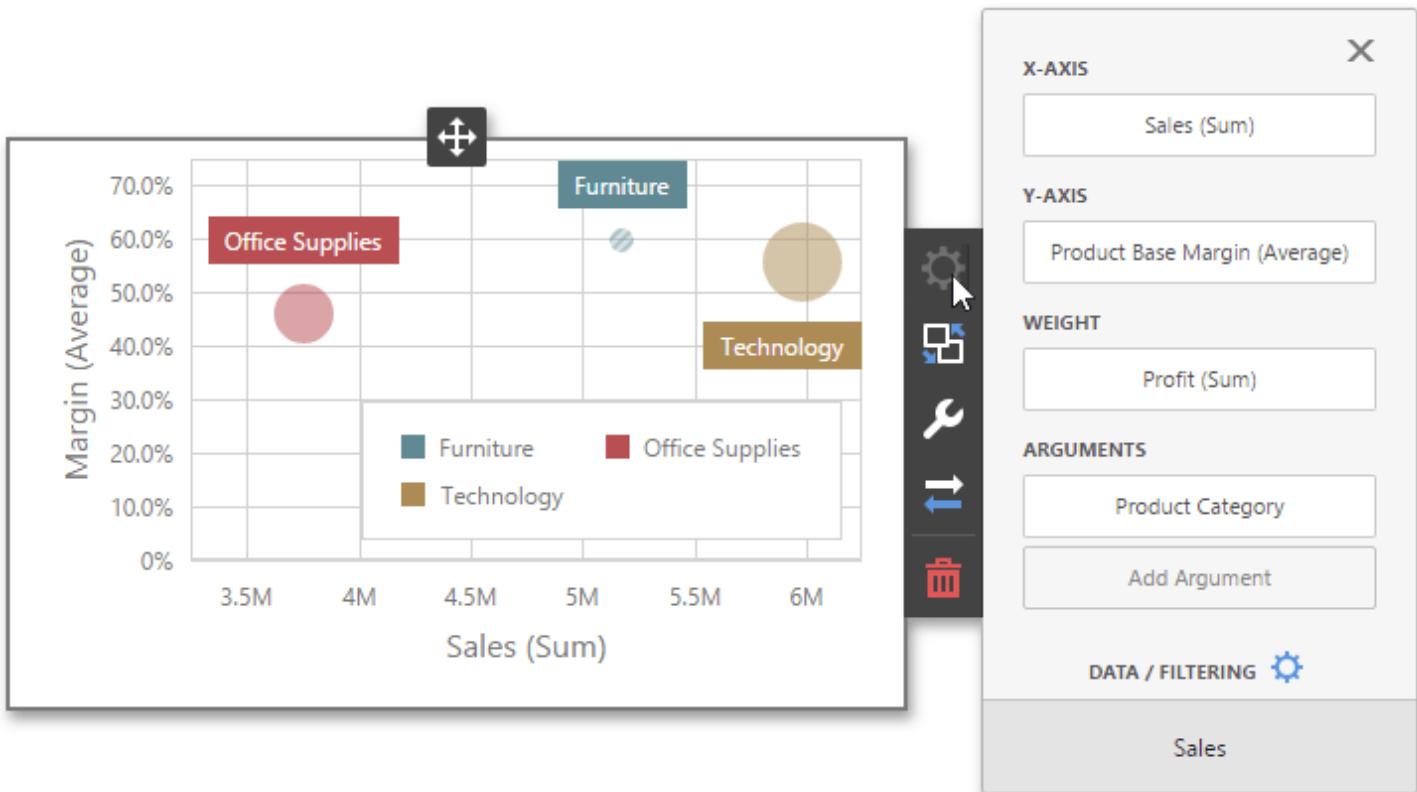
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Scatter Chart](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind a **Scatter Chart** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Scatter Chart dashboard item that is bound to data.



To bind the Scatter Chart dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The table below lists and describes the Scatter Chart's data sections.

Section	Processed as	Description
X-Axis	Measure	Contains the data item against which the X-coordinates of data points are calculated.
Y-Axis	Measure	Contains the data item against which the Y-coordinates of data points are calculated.
Weight	Measure	Contains the data item whose values are used to calculate the weight of data points.

Arguments

Dimension

Contains data items that provide scatter chart arguments used to create data points.

Interactivity

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Scatter Chart](#) > [Interactivity](#)

To enable interaction between the Scatter Chart and other dashboard items, you can use the interactivity features, as **Master Filtering** and **Drill-Down**.

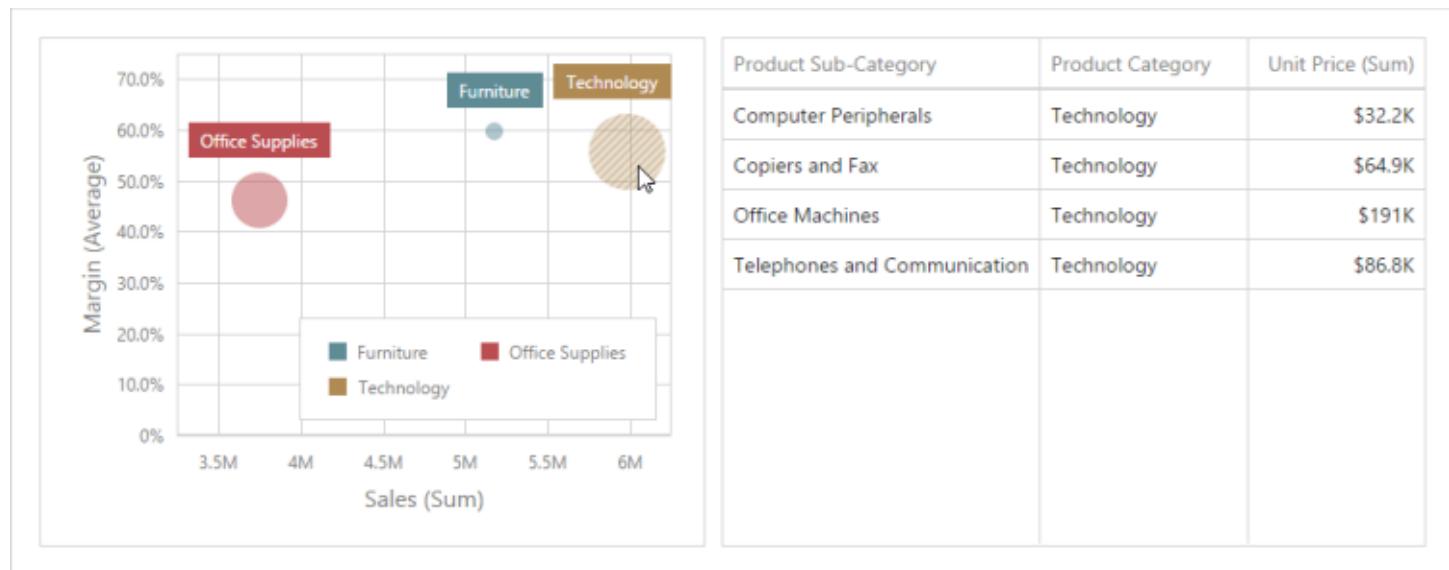
- [Master Filtering](#)
- [Drill-Down](#)

Master Filtering

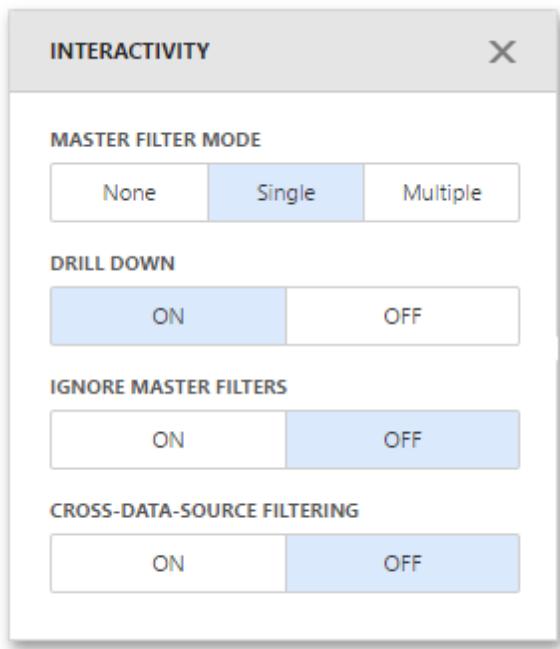
The Web Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items. To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

The Scatter Chart dashboard item supports filtering by points that correspond to specific argument values or their combinations.

When Master Filtering is enabled, you can click a point (or multiple points) to make other dashboard items only display data related to the selected point(s).



To enable **Master Filtering**, go to the Scatter Chart's [Interactivity](#) menu and select the required Master Filtering mode.

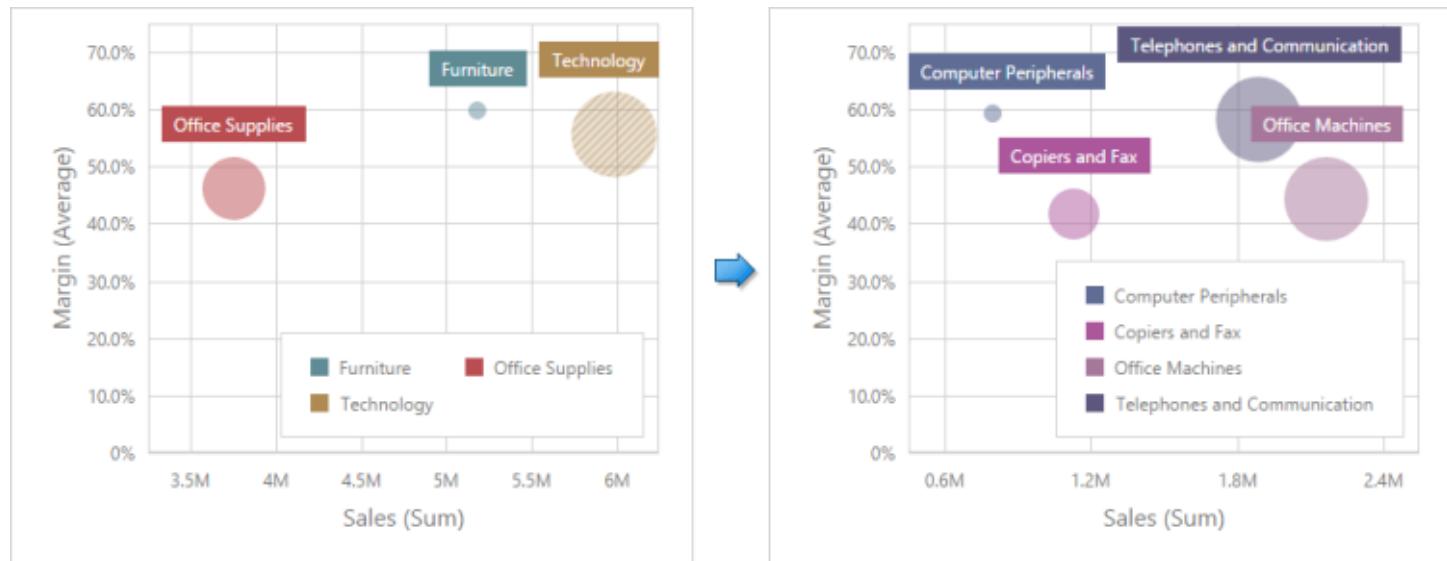


To reset filtering, use the **Clear Master Filter** button (the icon) in the Scatter Chart's [caption](#).

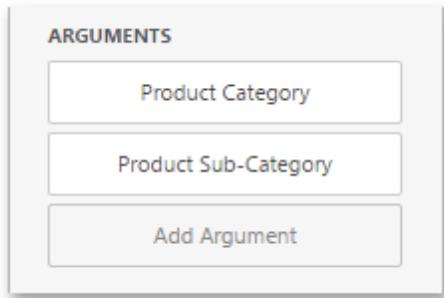
Drill-Down

The Drill-Down feature allows you to change the detail level of data displayed in dashboard items. To learn more about concepts common to all dashboard items, see the [Drill-Down](#) topic.

When drill-down is enabled, you can click a point to view the details (or double-click a point in case of enabled Master Filtering).

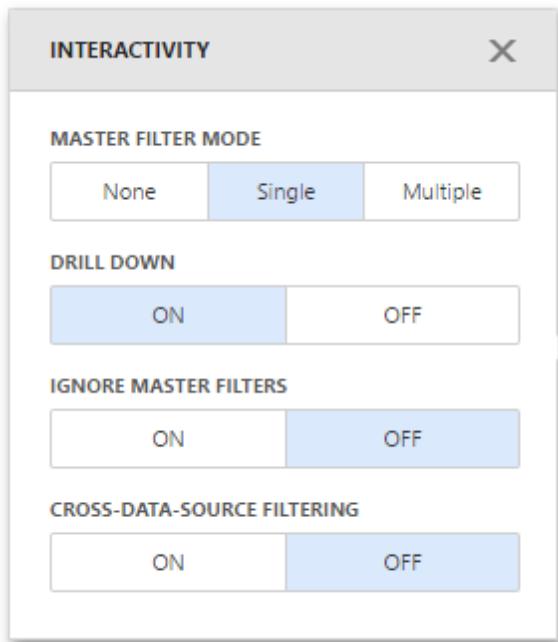


Drill-down requires that the **Arguments** section contains several dimensions, from the least to the most detailed dimension.

**Note**

In OLAP mode, you can perform drill-down for either a hierarchy data item or several dimension attributes.

To enable **Drill-Down**, go to the Scatter Chart's [Interactivity](#) menu and turn the **Drill-Down** option on.

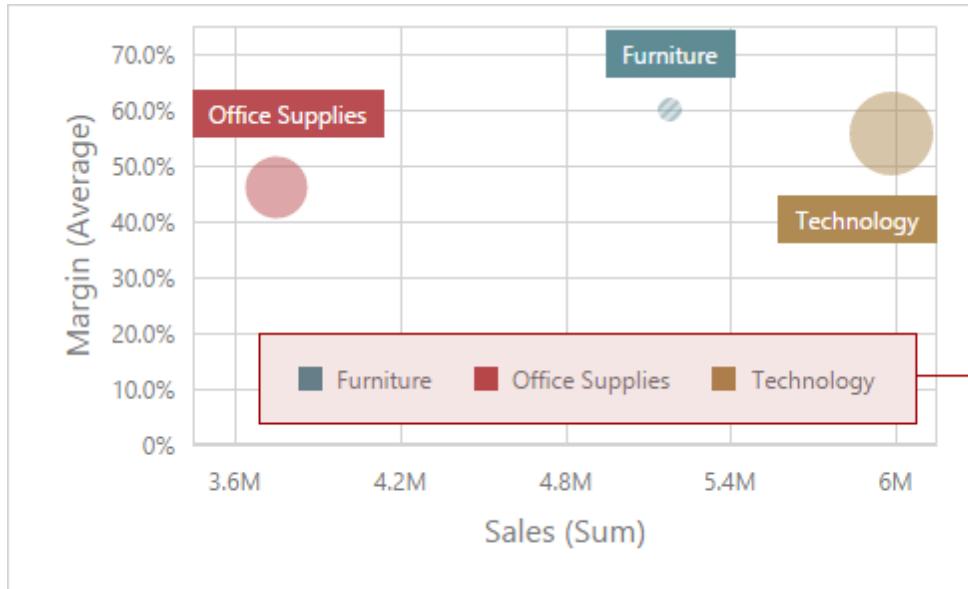


To return to the previous detail level, click the **Drill Up** button (the ↕ icon) in the Scatter Chart's [caption](#).

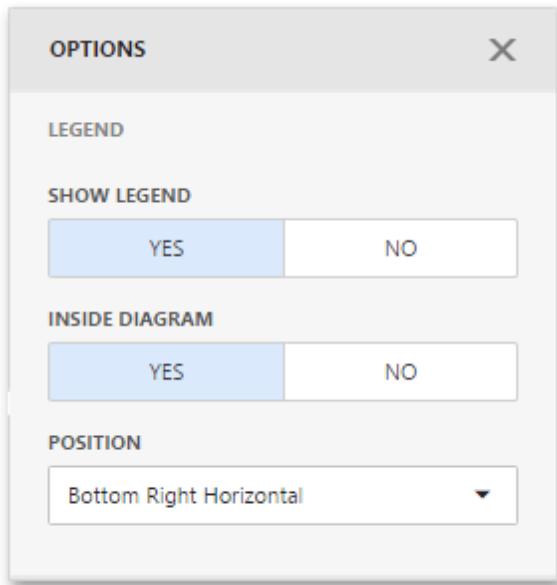
Legend

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Scatter Chart](#) > [Legend](#)

A legend is an element of a scatter chart that identifies chart points (for instance, colored points corresponding to argument values).



To customize legend options, go to the Scatter Chart's [Options](#) menu and open the **Legend** section.



The following settings are available.

Setting	Description
Show Legend	Specifies whether or not to show a legend.
Inside Diagram	Locates a legend inside or outside the Scatter Chart.
Position	Sets a legend position and orientation.

Axes

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Scatter Chart](#) > [Axes](#)

Scatter Chart X and Y-axes are numerical axis of values. You can specify various axes settings to change visual data presentation.

To access X and Y-axis settings, go to the Scatter Chart's [Options](#) menu and open the **Axis X** or **Axis Y** section.

Here you can configure the visibility of axes, their title and grid lines, reverse the axes, etc.

The following options are available.



Options	Description
Always show zero level	Specifies whether or not the axis' zero level is visible. If this option is unchecked, the visible axis range is

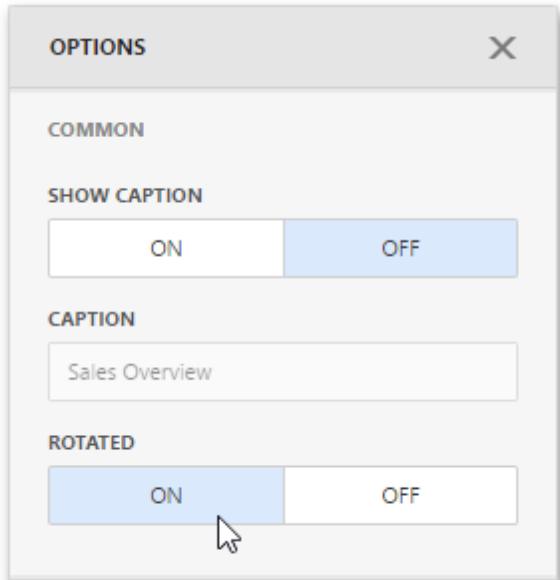
	defined based on the values plotted in the chart. Note that the Axis X section does not contain the Always show zero level option.
Reverse	Allows you to reverse the axis. If the axis is reversed, its values are ordered from top to down.
Grid Lines	Allows you to hide and show grid lines for the axis.
Visible	Allows you to hide and show the axis.
Title	Allows you to hide and show the axis title. You can choose whether to use the default text or specify a custom string using the Title Text option.
Logarithmic scale	Specifies whether or not the axis should display its numerical values using a logarithmic scale. The combo box next to this option allows you to select the logarithmic base from one of the predefined values.

Orientation

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Scatter Chart](#) > Orientation

You can rotate the Scatter Chart so that the [X-axis](#) becomes vertical, and the [Y-axis](#) becomes horizontal.

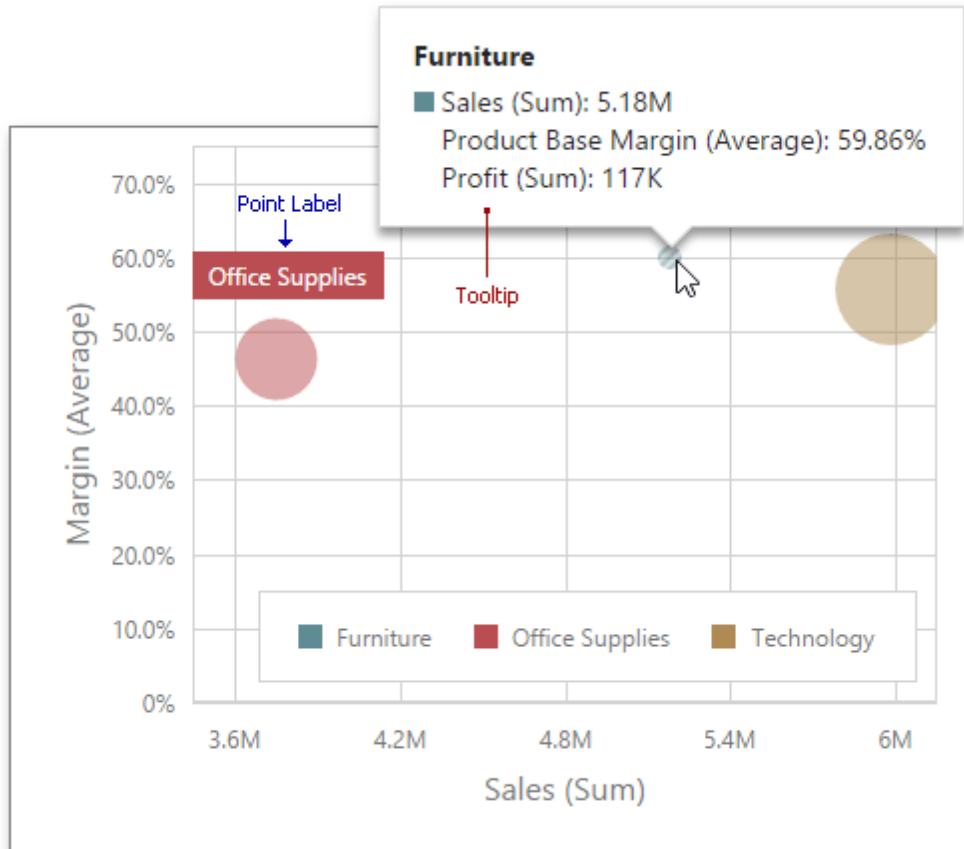
To rotate a Scatter Chart in the Web Dashboard, open the Scatter Chart's [Options](#) menu and go to **Common** section. Then, turn the **Rotated** option on.



Labels

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Scatter Chart](#) > [Labels](#)

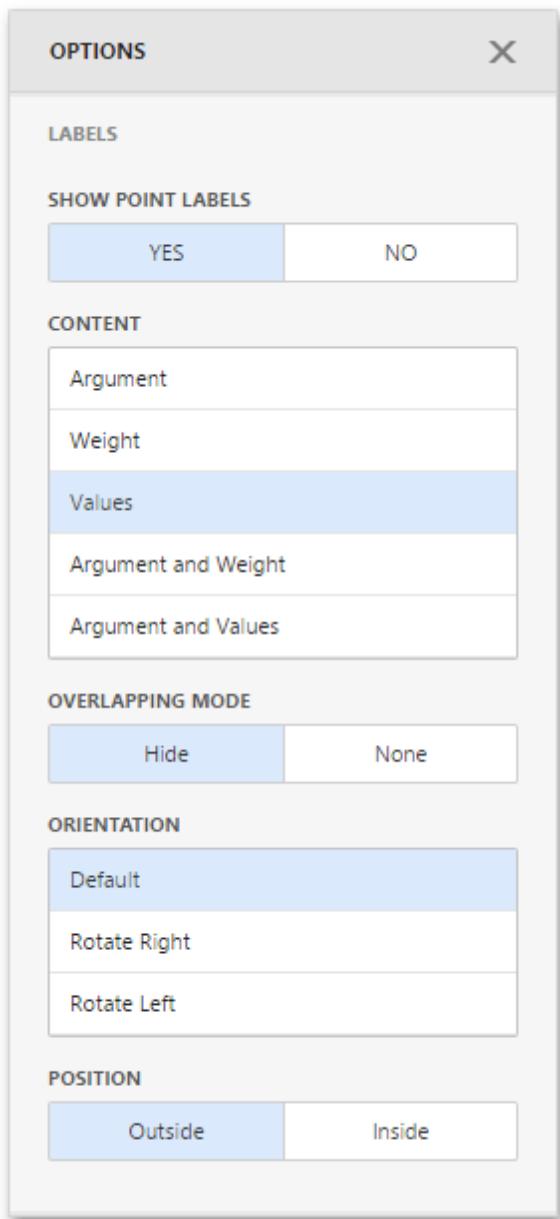
The Scatter Chart can display **point labels** that contain descriptions for data points, and provide **tooltips** with additional information.



To manage the visibility of point labels, open the Scatter Chart's [Options](#) menu and go to the **Labels** section. Then, turn the **Show Point Labels** option on.

Here you can specify the type of content displayed within point labels, configure label overlap mode and set the orientation of point labels.

The following options are available.



Options	Description
Show Point Labels	Specifies whether or not to show point labels for the current series.
Content	Specifies the type of content displayed within point labels. You can select <i>Value</i> , <i>Argument</i> , <i>Series Name</i> or <i>Argument and Value</i> options.
Overlapping Mode	Specifies the label overlap mode. You can hide overlapping labels or disable a resolving algorithm.
Orientation	Specifies the orientation of point labels. You can set a default orientation or rotate point labels 90 degrees clockwise or counter clockwise.
Position	Specifies the position of point labels relative to bars. Point labels can be displayed inside or outside bars.

Grid

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > Grid

The topics in this section describe the features available in the **Grid** dashboard item, and provide information on how to create and customize grids.

Trend	State	Sales	Sales vs Target
	Arizona	\$328M	-1.54%
	New Mexico	\$297M	-3.65%
	California	\$225M	+3.81%
	Idaho	\$210M	+3.71%
	Utah	\$187M	+2.03%
	Michigan	\$169M	+3.95%

- [Providing Data](#)

Provides information about how to supply the Grid dashboard item with data.

- [Columns](#)

Describes different types of grid columns.

- [Interactivity](#)

Describes features that imply interaction between the Grid and other dashboard items.

- [Conditional Formatting](#)

Describes the conditional formatting feature that provides the capability to apply formatting to grid cells whose values meet the specified condition.

- [Totals](#)

Describes totals that allow you to calculate summaries against values displayed within Grid columns.

- [Layout](#)

Describes the Grid's layout options.

Providing Data

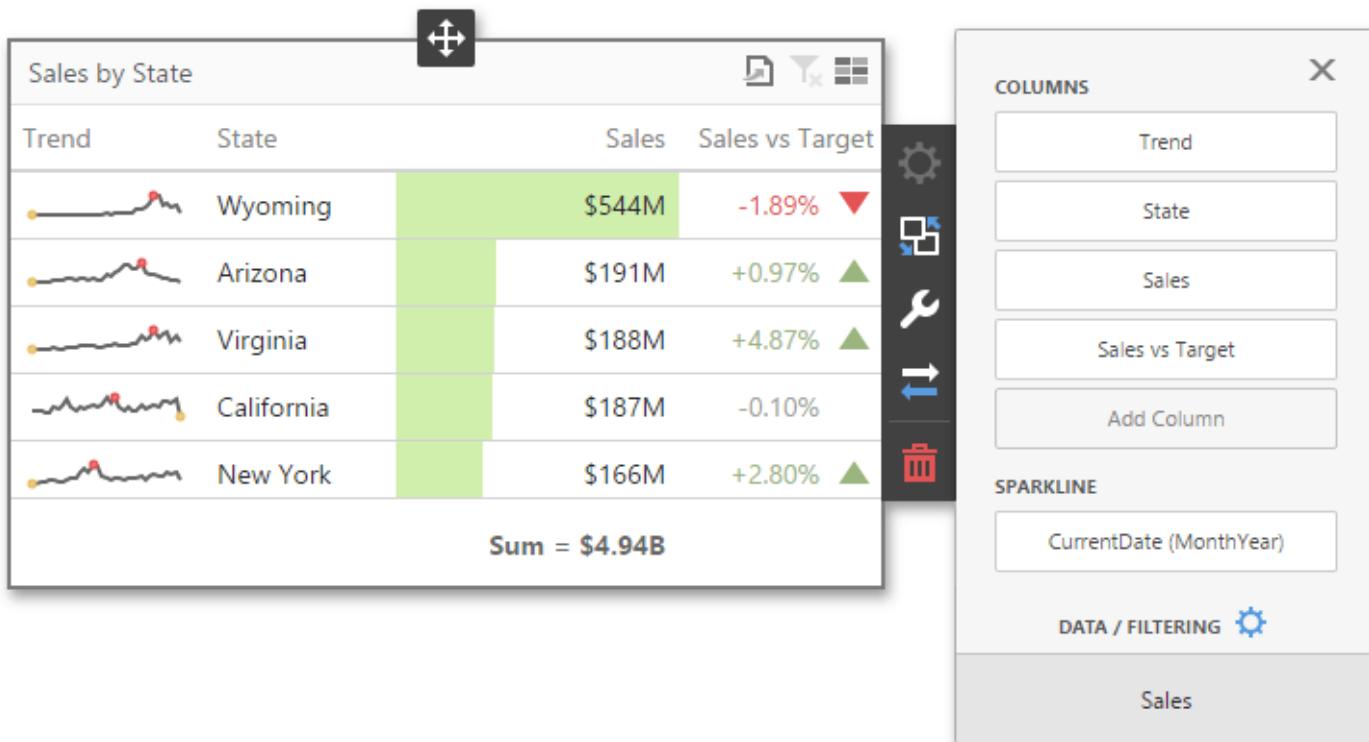
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Grid](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind a **Grid** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Grid dashboard item that is bound to data.



To bind the Grid dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The table below lists and describes the Grid's data sections.

Section	Processed as	Description
Columns	Dimension or Measure (depending on the selected column type)	Contains data items that provide values for grid columns. The data item menu allows you to select the column type and specify their options.
Sparkline	Dimension	Contains a data item that provides arguments for sparkline columns. To learn more, see Columns .

Columns

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Grid](#) > [Columns](#)

The Grid dashboard item supports four types of columns.

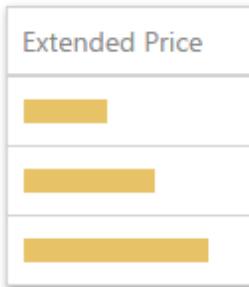
Dimension Column	Measure Column	Delta Column	Sparkline Column
State	Sales	Sales vs Target	Trend
Alabama	\$125M	+6.05% ▲	
Arizona	\$328M	-1.54% ▼	
California	\$225M	+3.81% ▲	

- **Dimension**

A dimension column displays values from the bound data item "as is". If the dimension column is bound to a data source containing images, it can display images.

- **Measure**

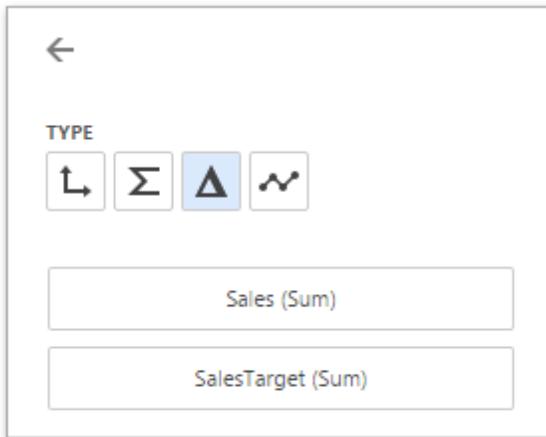
A measure column displays summaries calculated against data in the bound data item. Values in the measure column can be displayed as text or represented by bars.



To select between these modes, open the column menu and go to the **Options** section.

- **Delta**

A delta column calculates summaries against two measures: the **Actual** value and the **Target** value. When you switch the column type to **Delta**, a new **Target** data item container appears.



The difference between these values is displayed within the column.

You can configure delta options in the **Delta Options** section of the [column menu](#).

- **Sparkline**

A sparkline column visualizes the variation of summary values over time.

The sparkline column is bound to the measure providing sparkline values and to the dimension providing a date-time interval. Add the required date-time dimension to the **Sparkline** placeholder to show values depending on time.



You can configure sparkline options in the data item's **Sparkline Options** section.

When you drop a data item into the Columns section, the type for the new column is determined automatically based on the data type.

To change the column type, open the [column menu](#) and click the corresponding type button.



Interactivity

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Grid](#) > [Interactivity](#)

To enable interaction between the Grid and other dashboard items, you can use the interactivity features, as **Master Filtering** and **Drill-Down**.

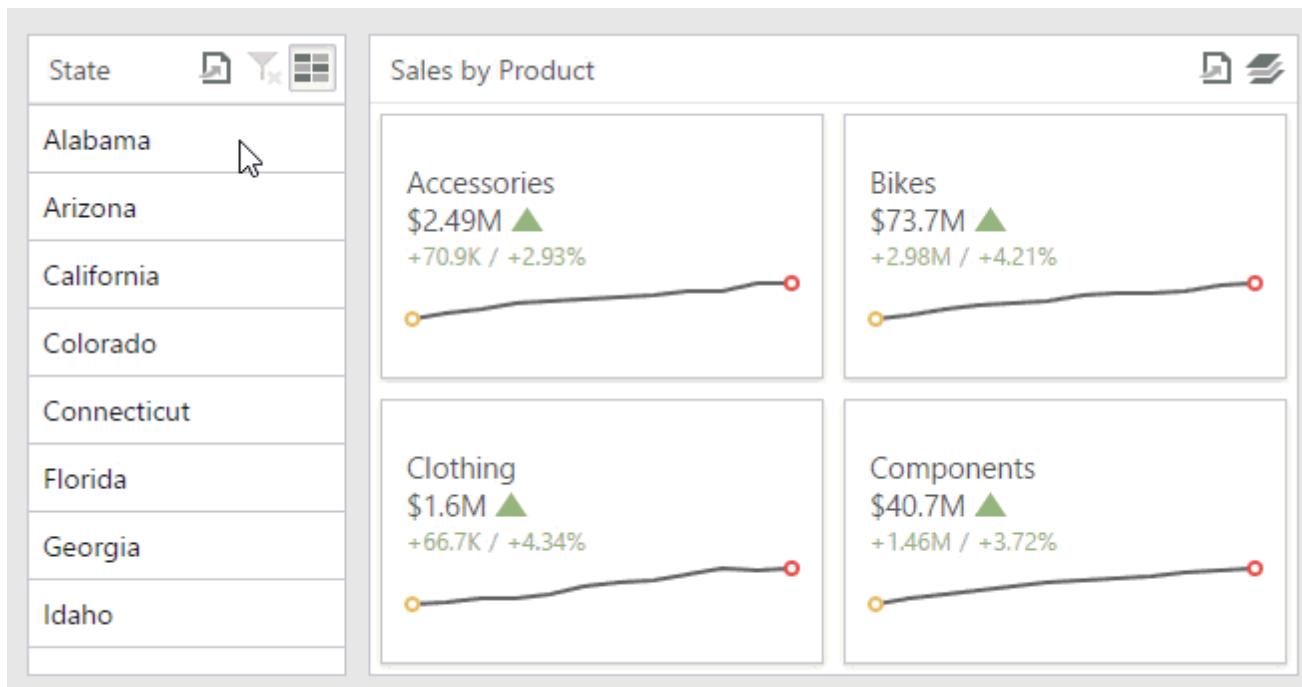
- [Master Filtering](#)
- [Drill-Down](#)

Master Filtering

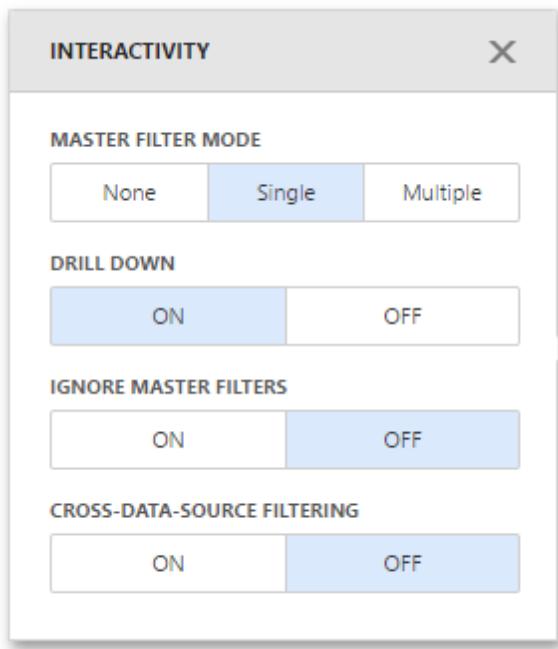
You can use the **Grid** dashboard item as a filter for other dashboard items. To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

The Grid dashboard item supports filtering by rows.

When **Master Filtering** is enabled, you can click a grid row (or multiple rows) to make other dashboard items only display data related to the selected record(s).



To enable **Master Filtering**, go to the Grid's [Interactivity](#) menu and select the required Master Filtering mode.



To reset filtering, use the **Clear Master Filter** button (the icon) in the Grid's [caption](#).

Drill-Down

The built-in drill-down capability allows you to change the detail level of data displayed in dashboard items on the fly. To learn more about drill-down concepts common to all dashboard items, see the [Drill-Down](#) topic.

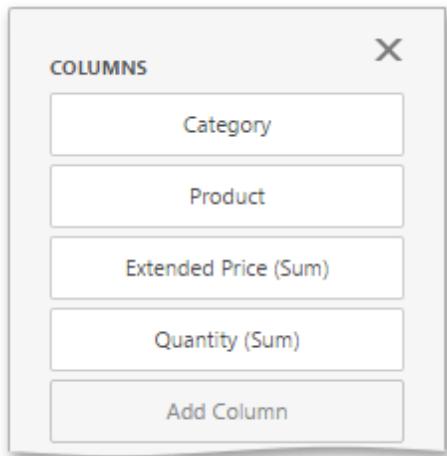
The **Grid** dashboard item supports drill-down for rows. When drill-down is enabled, you can click a grid row to view the details.

Category	Extended Price (Sum)	Quantity (Sum)
Beverages	\$268K	9.53K
Condiments	\$106K	5.3K
Confections	\$167K	7.91K
Dairy Products	\$235K	9.15K
Grains/Cereals	\$95.7K	4.56K
Meat/Poultry	\$163K	4.2K
Produce	\$100K	2.99K
Seafood	\$131K	7.68K



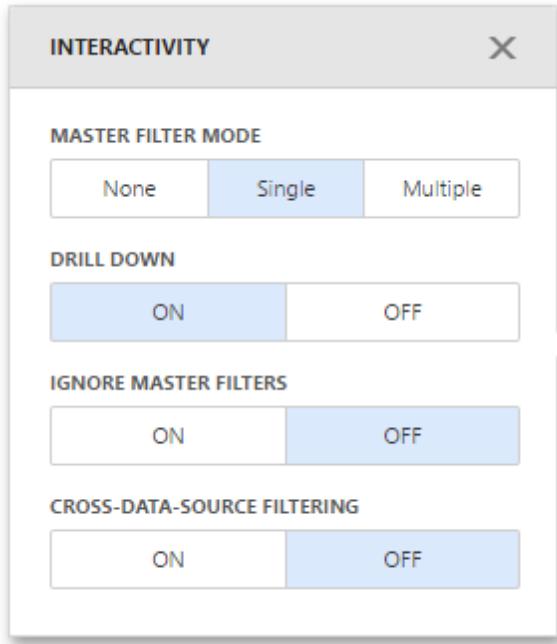
Product	Extended Price (Sum)	Quantity (Sum)
Alice Mutton	\$32.7K	978
Mishi Kobe Niku	\$7.23K	95
Pâté chinois	\$17.4K	903
Perth Pasties	\$20.6K	722
Thüringer Rostbratwurst	\$80.4K	746
Tourtière	\$4.73K	755

Drill-down requires that the Columns section contains several dimensions at the top, from the least detailed to the most detailed dimension.

**Note**

In OLAP mode, you can perform drill-down for either a hierarchy data item or several dimension attributes.

To enable **Drill-Down**, go to the Grid's [Interactivity](#) menu and turn the **Drill-Down** option on.



To return to the previous detail level, click the **Drill Up** button (the ↕ icon) in the Grid's [caption](#).

Conditional Formatting

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Grid](#) > [Conditional Formatting](#)

The Grid dashboard item supports the conditional formatting feature that provides the capability to apply formatting to grid cells whose values meet the specified condition. This feature allows you to highlight specific cells or entire rows using a predefined set of rules. To learn more about conditional formatting concepts common for all dashboard items, see [Conditional Formatting](#).

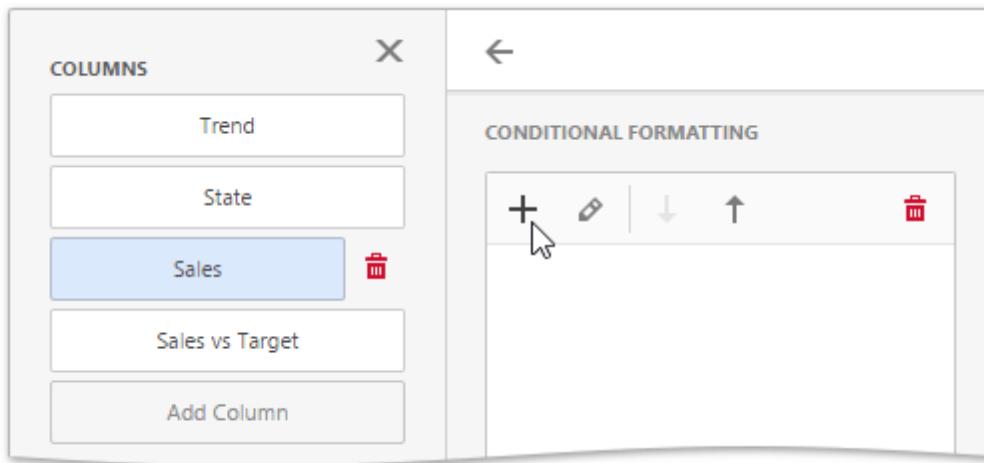
State	Sales	SalesTarget (Sum)
Wyoming	↑ \$546M	\$544M
Kentucky	→ \$378M	\$374M
Maine	→ \$346M	\$366M
Georgia	↓ \$231M	\$232M
Texas	↓ \$229M	\$229M

The Grid dashboard item allows you to apply conditional formatting to data items providing data to the **dimension** and **measure** [column types](#).

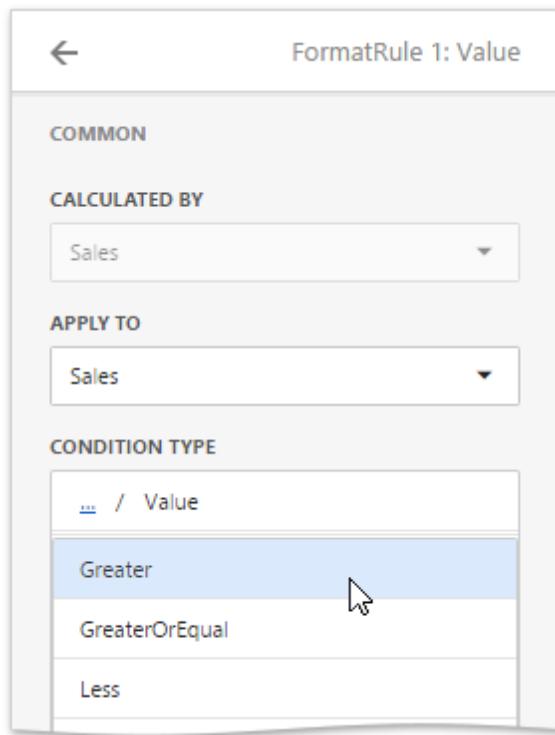
You can use [hidden measures](#) to specify a condition used to apply formatting to visible values. New appearance settings are applied to grid cells corresponding to the target dimension/measure values.

Create and Edit Format Rules

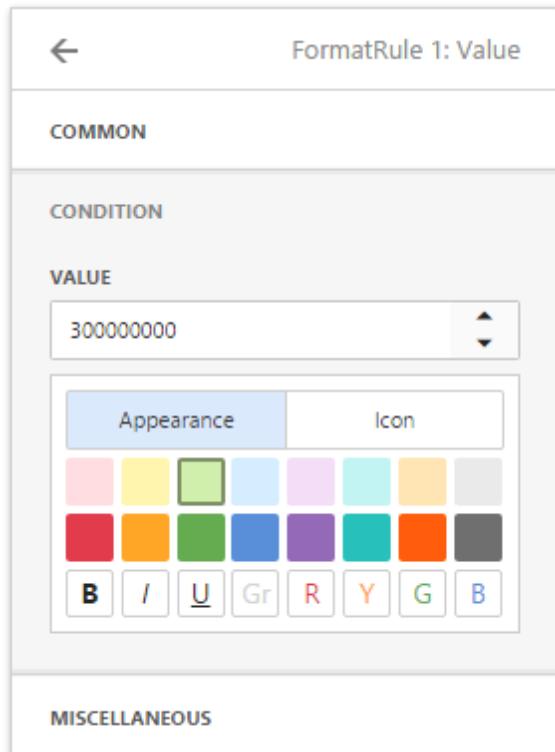
To create a new format rule, select the required measure / dimension by whose values a format condition will be calculated, open its [menu](#) and go to the **Conditional Formatting** section. Click "+" to add a new rule.



Then, specify the data item to which conditional formatting is applied using the **Apply to** combo box and select the condition type.



Depending on the selected format condition, the menu used to create a format rule for a Grid contains different settings. For example, the image below displays the *Value* format condition menu. Here you need to specify a required value and select a format rule style.



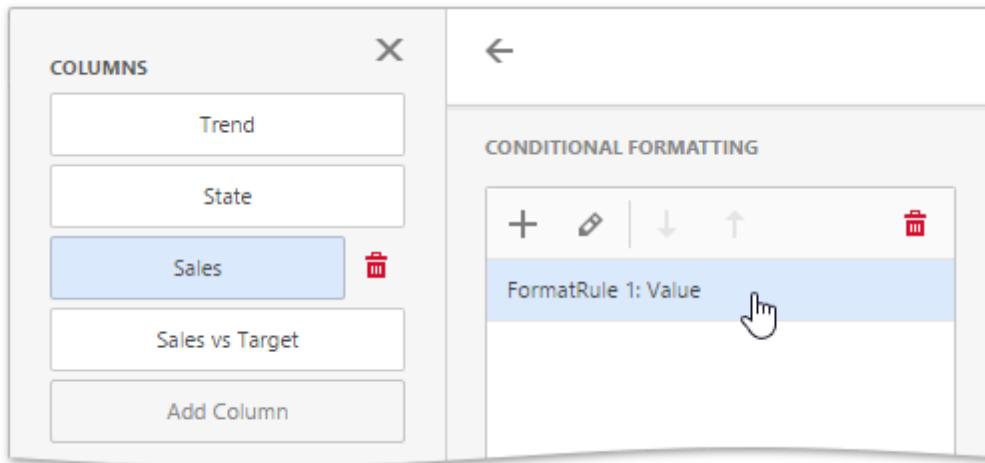
Note

The **MISCELLANEOUS** section of the format rule menu contains additional settings, depending on the dashboard item type. The Grid dashboard item allows you to apply the current format rule to a row or disable this rule.

The format condition is now ready and will be applied to the Grid dashboard item. ©

State	Sales	SalesTarget (Sum)
Wyoming	\$546M	\$544M
Kentucky	\$378M	\$374M
Maine	\$346M	\$366M
Georgia	\$231M	\$232M
Texas	\$229M	\$229M

To edit a format rule, open the **Conditional Formatting** section of the [data item menu](#), select the required format rule and click the **Edit** button (the  icon).



To delete the selected format rule, click the **Delete** button (the  icon).

Totals

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Grid](#) > [Totals](#)

The Grid dashboard item enables you to add a summary value (a **total**) calculated against displayed values of an individual column, and to show the result under this column. Note that you can add any number of totals for each column. For example, you can obtain the number of column records, average or maximum value, etc.

Category	Extended Price (Sum)	Discount (Average)
Beverages	\$268K	6.19%
Condiments	\$106K	5.26%
Confections	\$167K	5.69%
Dairy Products	\$235K	5.34%
Grains/Cereals	\$95.7K	4.53%
Meat/Poultry	\$163K	6.45%
Produce	\$100K	4.54%
Seafood	\$131K	6.02%
Count = 8		Avg = 5.50%
Max = \$268K		Sum = \$1.27M

- [Totals Overview](#)
- [Create and Edit Totals](#)

Totals Overview

You can use the following summary functions when creating totals.

- **Count** - The number of records.
- **Sum** - The sum of the values.

$$\text{Sum} = \sum_i v_i$$

- **Min** - The smallest value.
- **Max** - The largest value.
- **Average** - The average of the values.

$$\bar{v} = \frac{1}{n} \cdot \sum_i v_i$$

- **Auto** - The total is calculated using the type of [summary function](#) specified for the measure corresponding to the current Grid column. Note that in this case, the total is calculated based on values of the corresponding data field from the underlying data source.

Note

Note that the **Auto** type is not supported when the Grid is bound to the OLAP data source.

You can create totals using different sets of summary functions. This depends on the type of the data source field providing data for the target column.

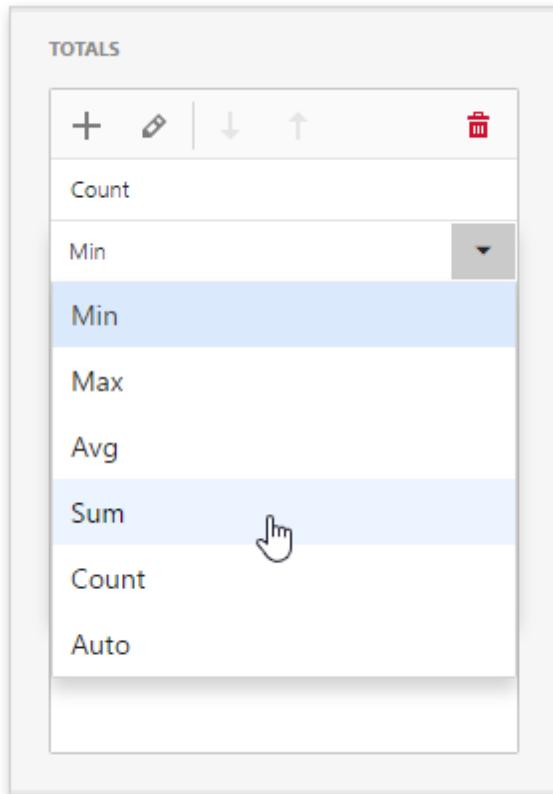
Important

Note that the **Auto** type is available only for the [measure](#) column.

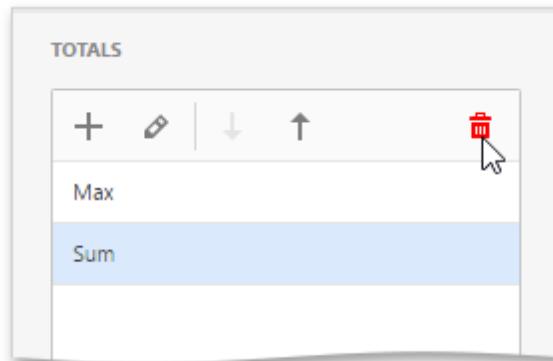
Create and Edit Totals

To create a total, open a [data item menu](#) and go to the **Totals** section. Click "+" to add a new total.

To change the total type, open the drop down list and select the required type.



You can delete the required total by clicking the **Delete** button (the icon).



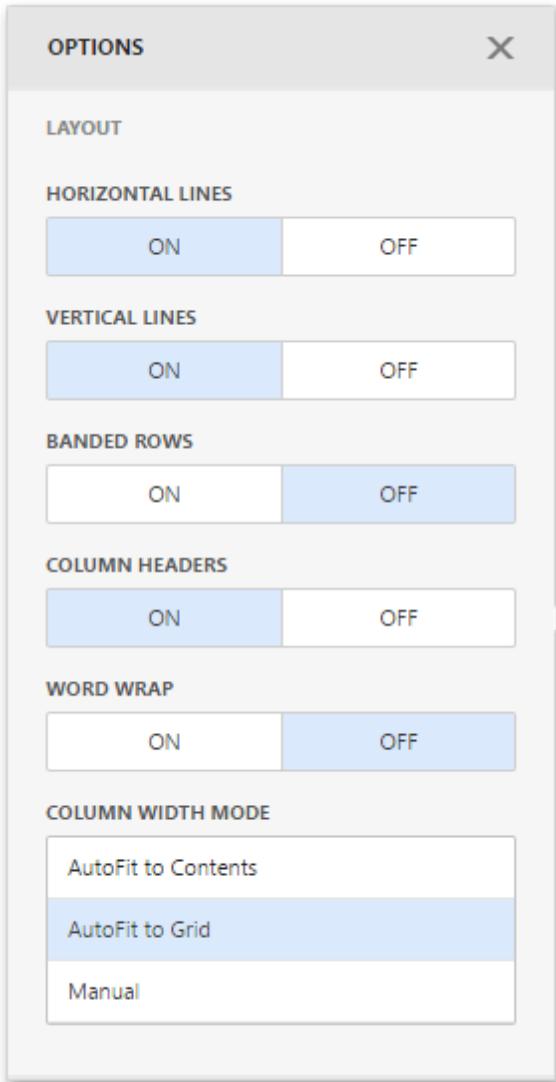
Layout

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Grid](#) > [Layout](#)

The Grid dashboard item allows you to customize its layout in various ways. You can manage the width of grid columns, specify the visibility of column headers, enable cell merging, etc.

To access the layout settings, use the **Layout** section in the Grid's [Options](#) menu.

The following settings are available.

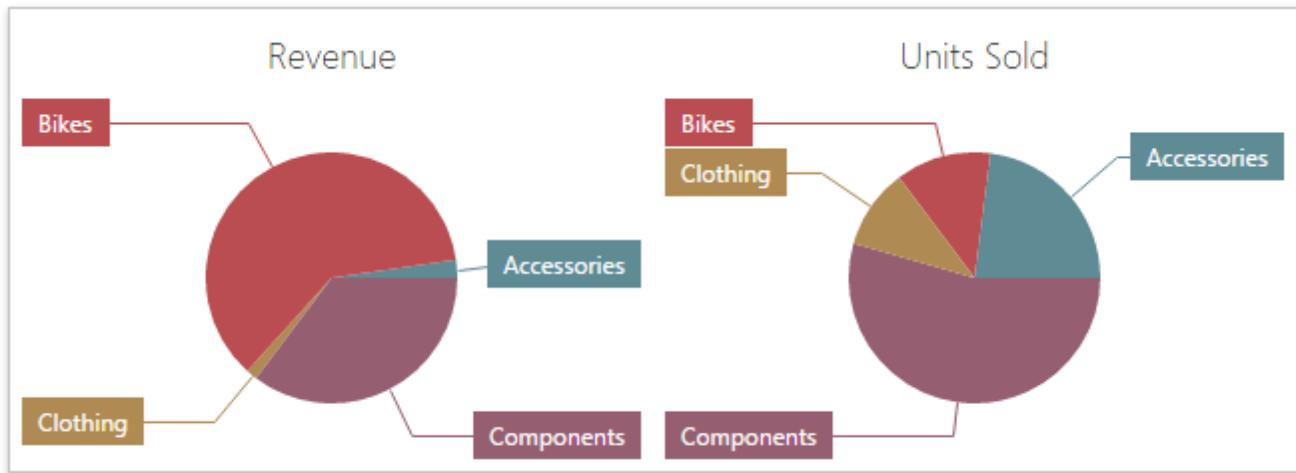


- **Horizontal Lines** - Specifies grid's horizontal line visibility.
- **Vertical Lines** - Specifies grid's vertical line visibility.
- **Banded Rows** - Specifies the different background for odd and even rows.
- **Column Headers** - Allows you to toggle column header visibility.
- **Word Wrap** - Displays cell content on multiple lines if the size of a dashboard item is insufficient to completely display the cell content on a single line.
- **Column Width Mode** - Specifies column widths of the entire Grid using one of the available modes.

Pies

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pies](#)

The Pie dashboard item displays a series of pies or donuts that represent the contribution of each value to a total.



This section consists of the following subsections.

- [Providing Data](#)

Describes how to supply the Pie dashboard item with data.

- [Interactivity](#)

Describes features that enable interaction between the Pie dashboard item and other items.

- [Layout](#)

Describes layout options of the Pie dashboard item.

- [Labels](#)

Explains how to customize data labels and tooltips.

- [Style](#)

Describes how to select the style of pie charts.

Providing Data

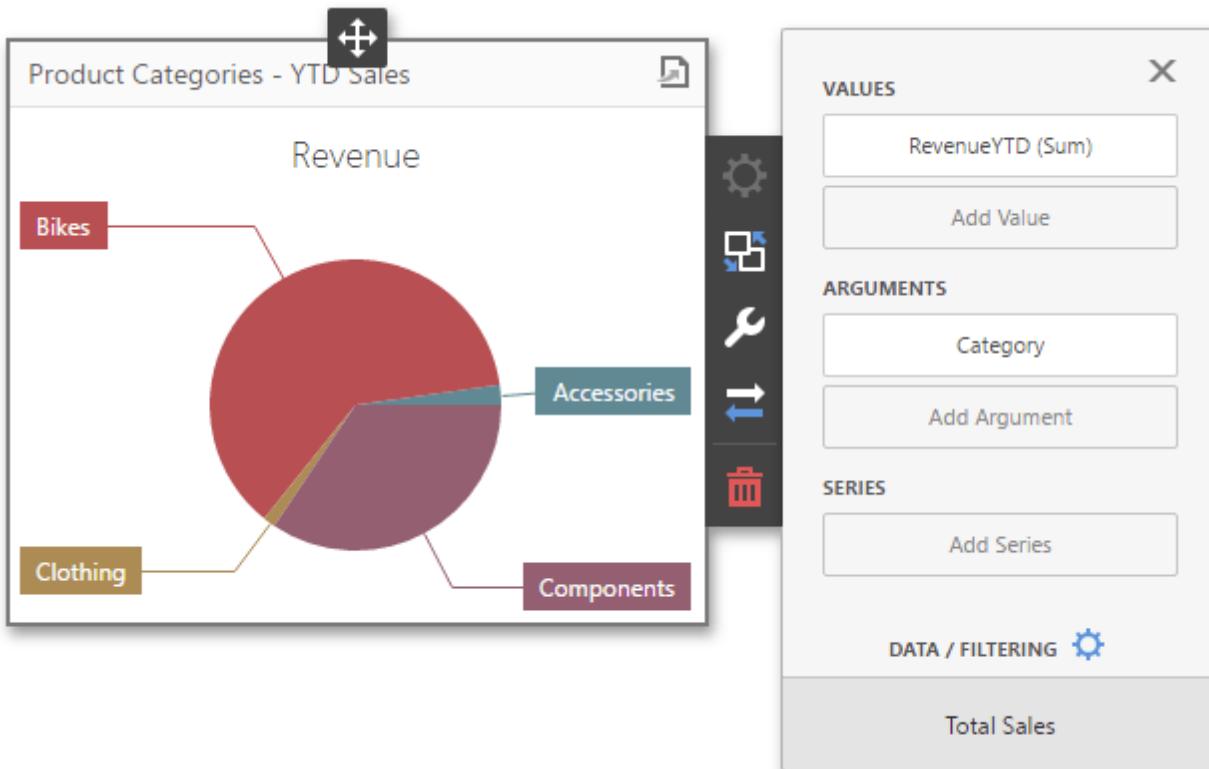
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pies](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind a **Pie** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Pie dashboard item that is bound to data.



To bind the Pie dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The table below lists and describes the Pie's data sections.

Section	Processed as	Description
Values	Measure	Contains data items that define the share of pie segments. In case of negative measure values, Pie uses their absolute values.
Arguments	Dimension	Contains data items that provide values used to label pie segments.
Series	Dimension	Contains data items whose values are used to label pie charts.

Interactivity

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pies](#) > [Interactivity](#)

To enable interaction between the Pie and other dashboard items, you can use interactivity features like **Master Filtering** and **Drill-Down**.

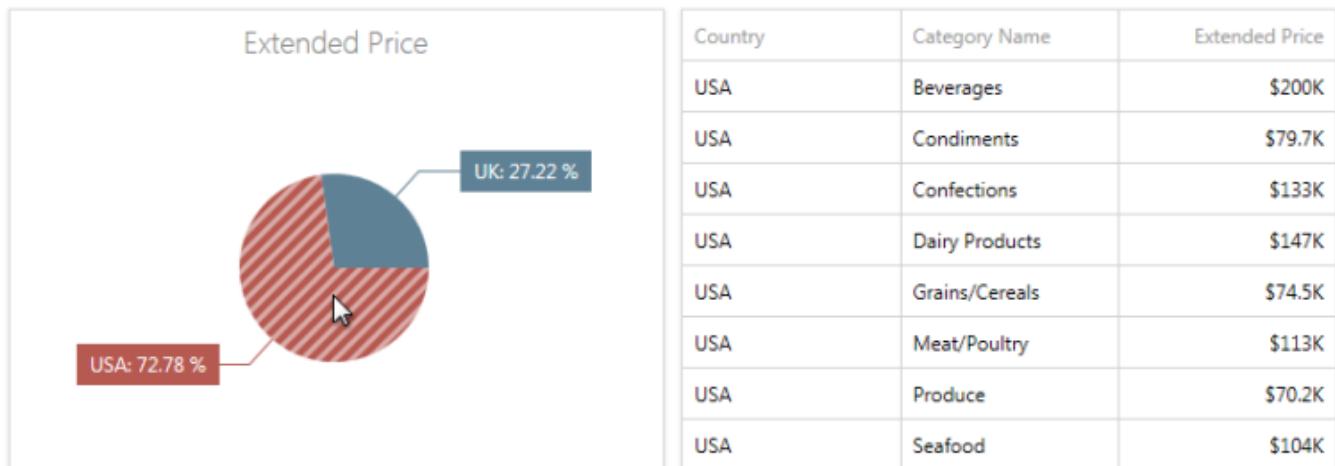
- [Master Filtering](#)
- [Drill-Down](#)

Master Filtering

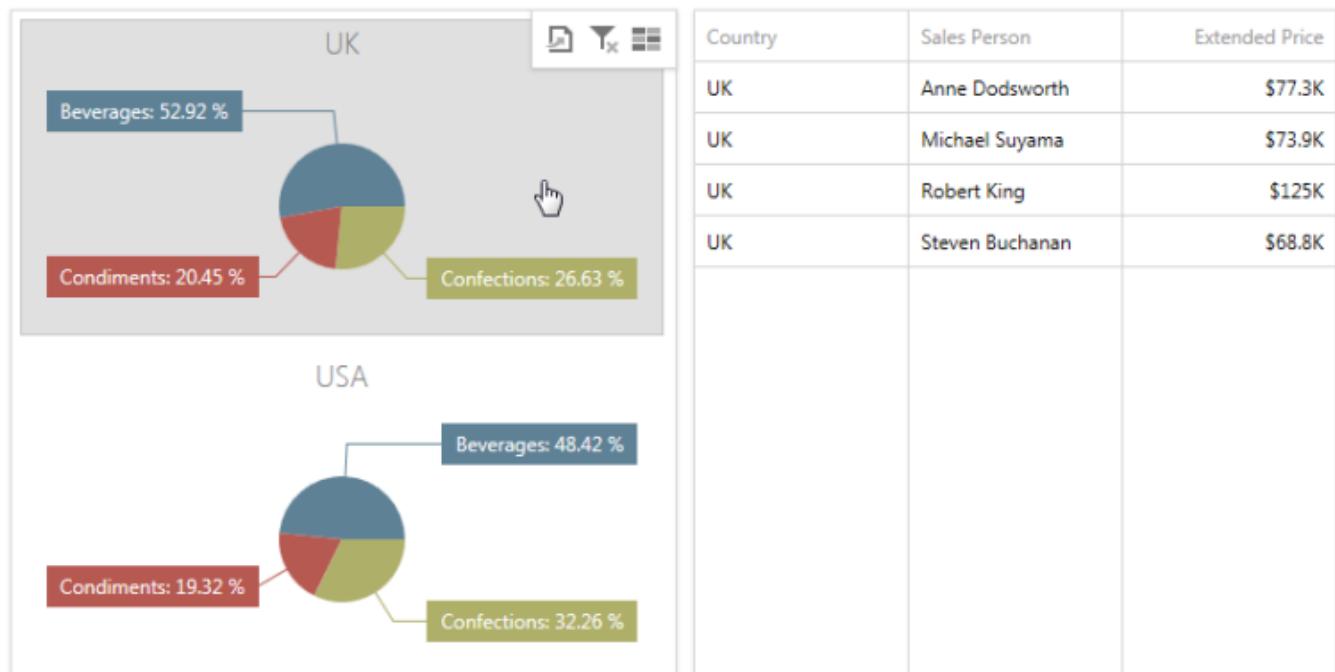
You can use the Pie dashboard item as a filter for other dashboard items. To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

The Pie dashboard item supports filtering by **arguments**, **series** or **points**.

- Filtering **by arguments** allows you to make other dashboard items display only data related to selected argument values by clicking a pie segment.

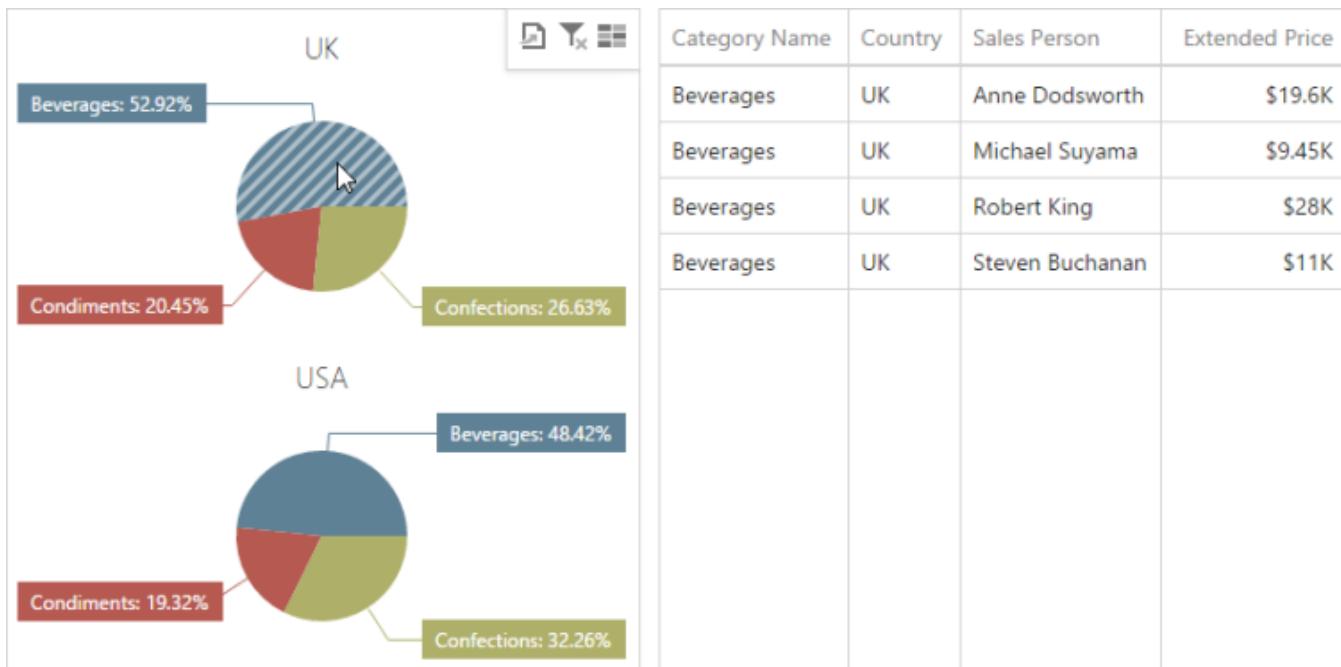


- When filtering **by series** is enabled, you can click a pie to make other dashboard items display only data related to the selected pie.

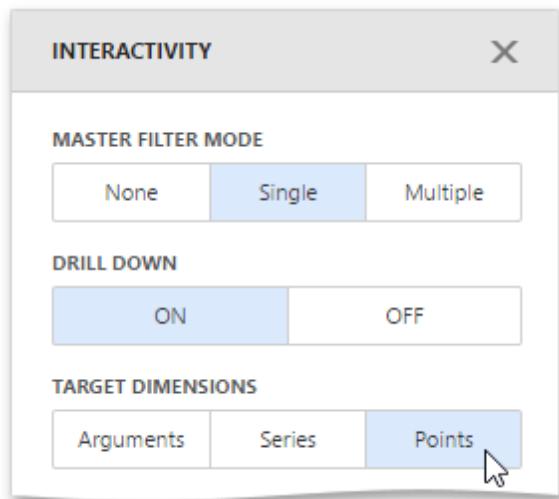


- When filtering **by points** is enabled, you can click a single pie segment to make other dashboard items

display only data related to the selected segment.



To configure filtering type, open the Pie's [Interactivity](#) menu and select **Arguments**, **Series** or **Points** as a target dimension.



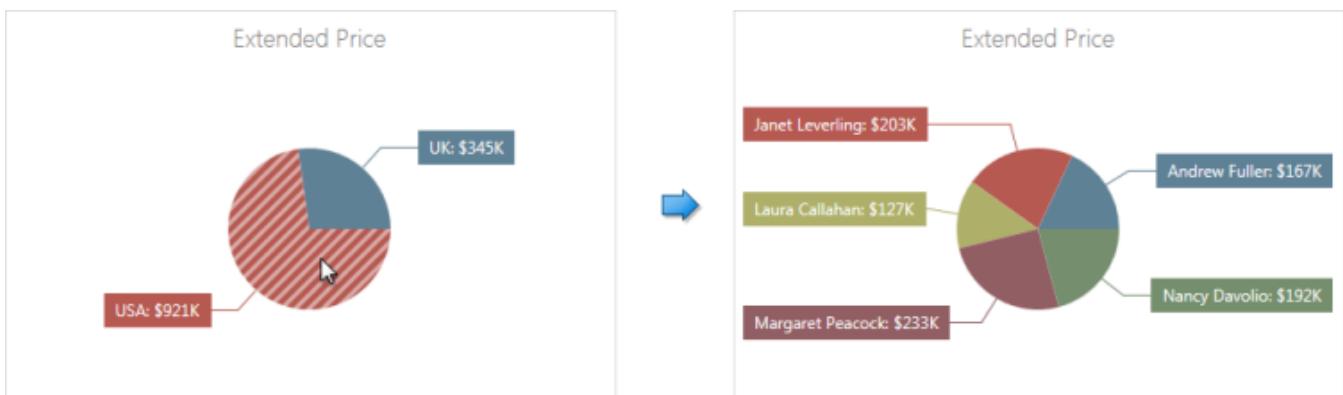
To reset filtering, use the **Clear Master Filter** button (the icon) in the Pie's [caption](#).

Drill-Down

The drill-down capability allows you to change the detail level of data displayed in the Pie dashboard item. To learn more about drill-down concepts common to all dashboard items, see the [Drill-Down](#) topic.

The Pie supports drill-down on **argument** or **series** values.

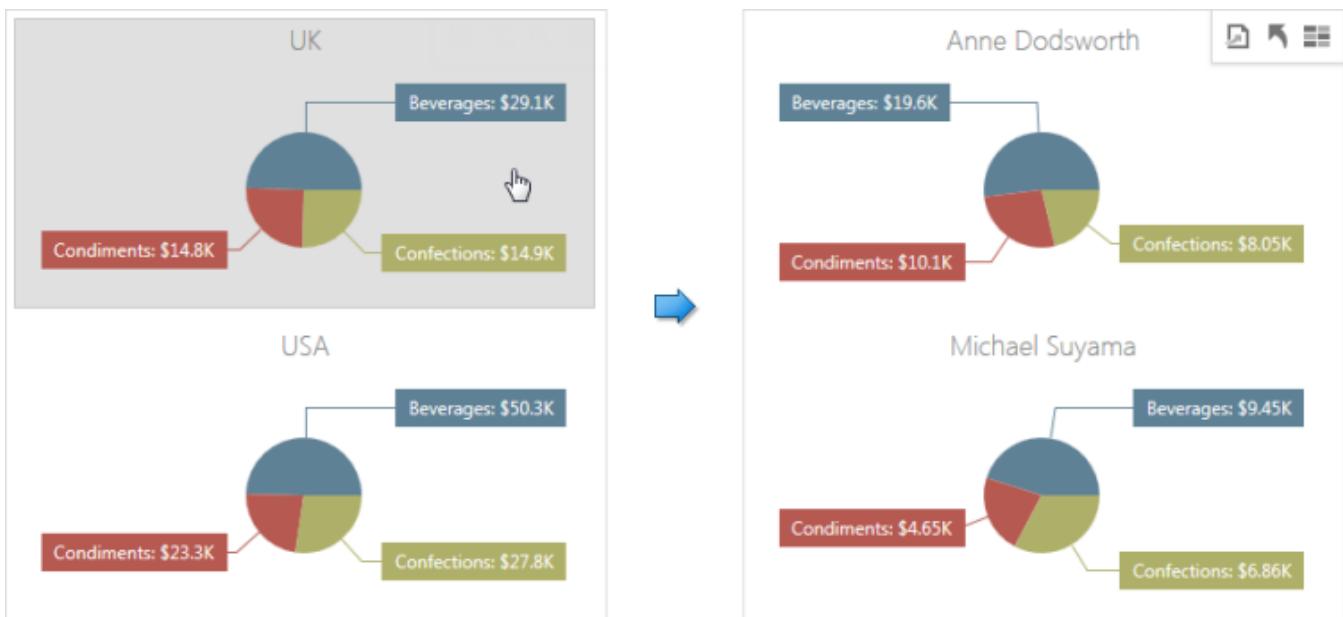
- To drill down on **arguments**, click a pie segment to view a detail diagram for the corresponding argument value.



Drill-down on arguments requires that the **Arguments** section contains several data items, from the least detailed to the most detailed item.

A screenshot of the "ARGUMENTS" section. It contains three input fields: "Country" (highlighted in light blue), "Sales Person" (highlighted in light green), and "Add Argument".

- When drill-down on **series** is enabled, you can click a pie chart to view a detail diagram for the corresponding series value.

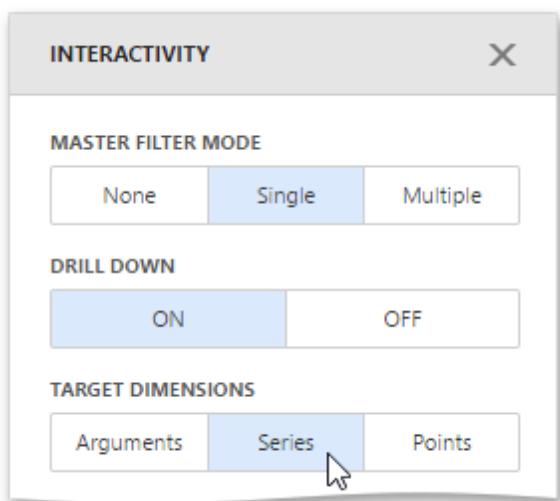


Drill-down on series requires that the **Series** section contains several data items, from the least detailed to the most detailed item.

**Note**

In OLAP mode, you can perform drill-down for either a hierarchy data item or several dimension attributes.

To specify drill-down type, go to the Pie's [Interactivity](#) menu and set **Arguments** or **Series** as the target dimension.

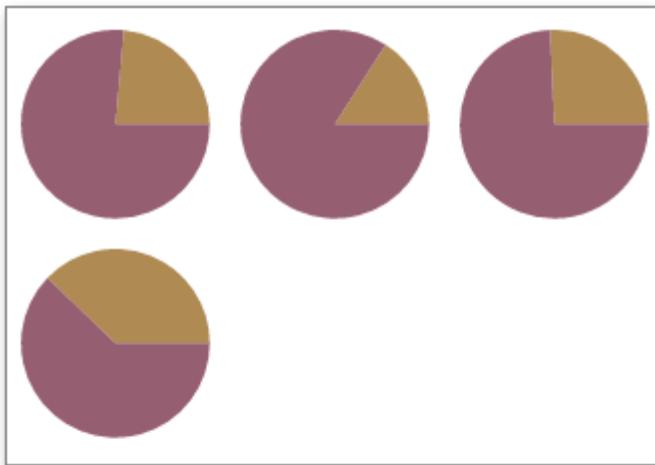


To return to the previous detail level, click the **Drill Up** button (the ↺ icon) in the Pie's [caption](#).

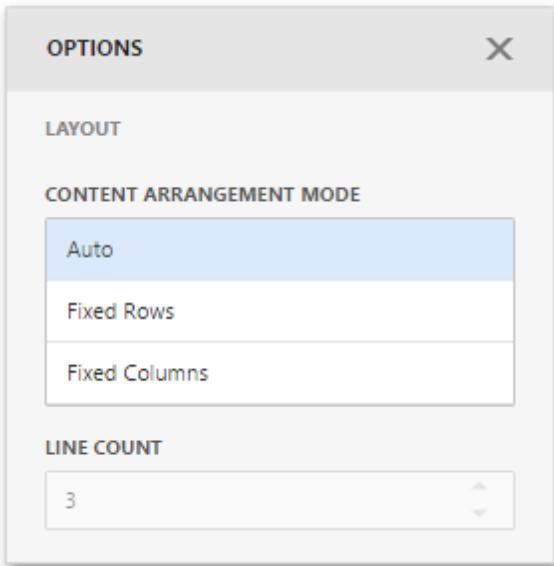
Layout

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pies](#) > [Layout](#)

The Pie dashboard item allows you to specify the number of columns or rows in which pies are arranged. For example, the following image shows pies arranged into 3 columns.



To control how cards are arranged, use the **Layout** section in the Pie's [Options](#) menu.



The following modes are available.

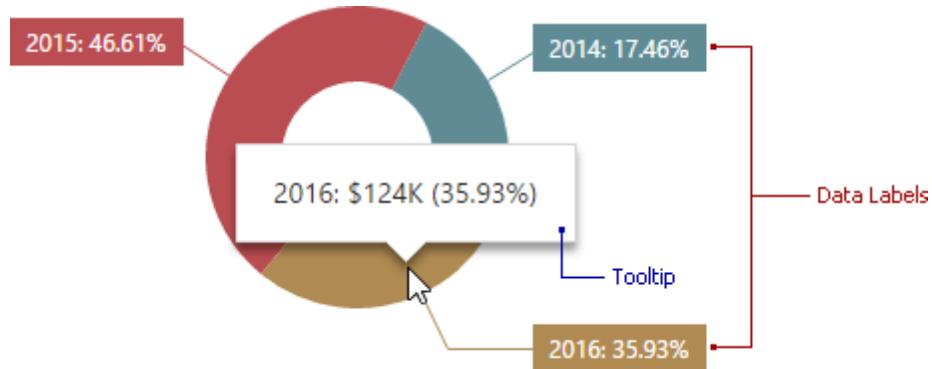
Arrangement Mode	Description
Auto	Automatically resizes pies to fit within the dashboard item.
Fixed Rows	Allows you to arrange pies in a specific number of rows.
Fixed Columns	Allows you to specify the number of columns in which pies are arranged.

To specify the number of rows / columns, use the **Line Count** field.

Labels

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pies](#) > [Labels](#)

Pies display **data labels** that contain descriptions for pie segments, and provide **tooltips** with additional information.



To configure data labels and tooltips, open the Pie's [Options](#) menu and go to the **Labels** section.

DATA LABELS	
None	
Argument	
Percent	
Argument And Percent	
Value	
Argument And Value	
Value And Percent	
Argument, Value And Percent	

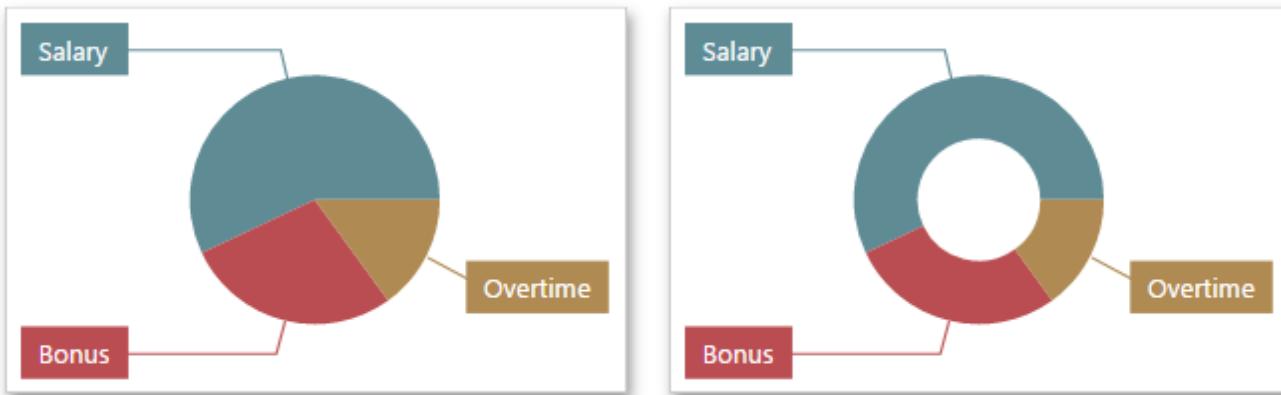
TOOLTIPS	
None	
Argument	
Percent	
Argument And Percent	
Value	
Argument And Value	
Value And Percent	
Argument, Value And Percent	

Here you can set argument, value, percent or their combinations as data labels or tooltips.

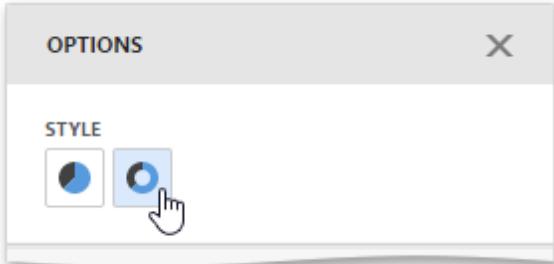
Style

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pies](#) > [Style](#)

The Pie dashboard item allows you to select whether diagrams should be painted as **pies** or **donuts**.



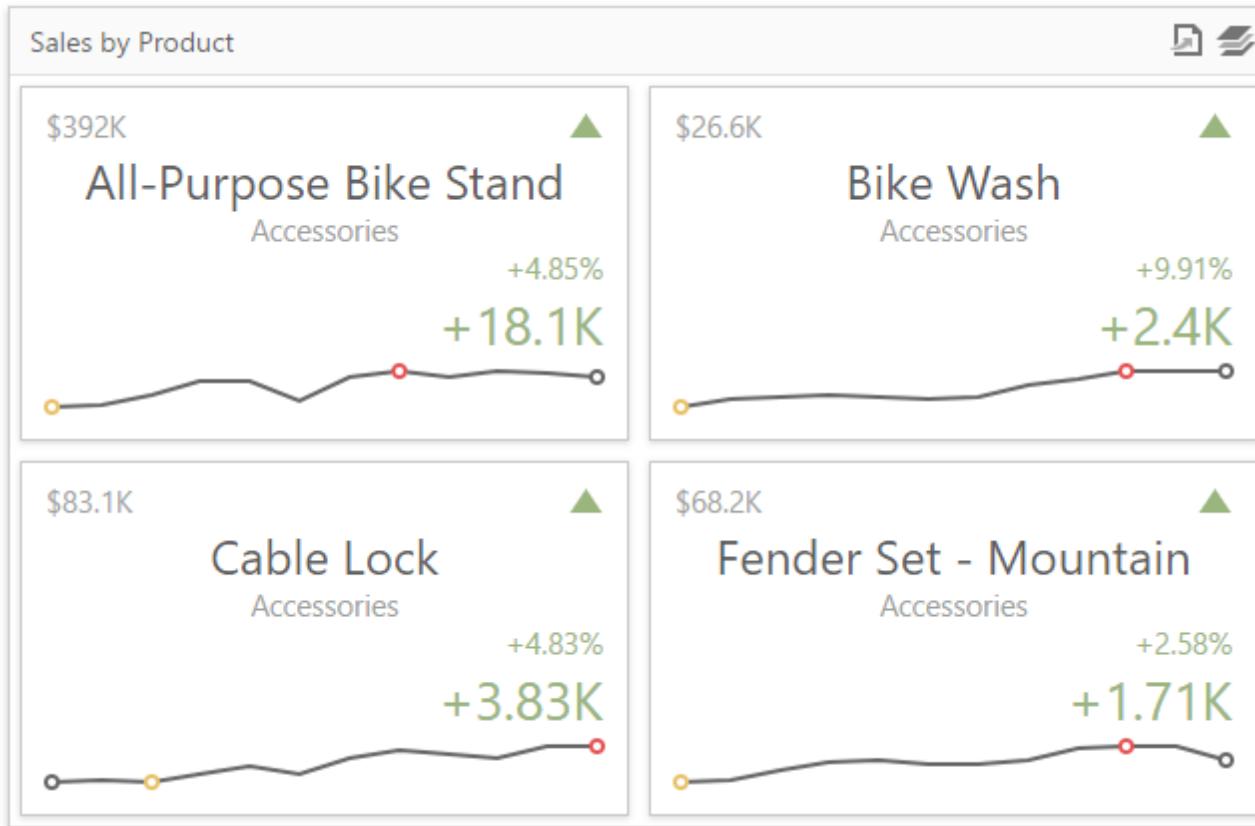
To select the diagram style, go to the **Style** section of the Pie's [Options](#) menu and use the **Pie** or **Donut** buttons.



Cards

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Cards](#)

The **Card** dashboard item displays a series of cards. Each card illustrates the difference between two values. This difference can be expressed as an absolute value, an absolute variation or a percentage variation.



This section provides the following topics.

- [Providing Data](#)

Provides information about how to supply the Card dashboard item with data.

- [Layout](#)

Describes how to manage the position and visibility of elements within a card.

- [Delta](#)

Provides an overview of the Card dashboard items capability to display the difference between two parameters.

- [Sparkline](#)

Provides an overview of the Card dashboard items capability to visualize data using sparklines.

- [Formatting](#)

Shows how to format values displayed within a card.

- [Interactivity](#)

Describes features that enable interaction between the Card dashboard item and other items.

- [Cards Arrangement](#)

Describes how to arrange cards within the Card dashboard item.

Providing Data

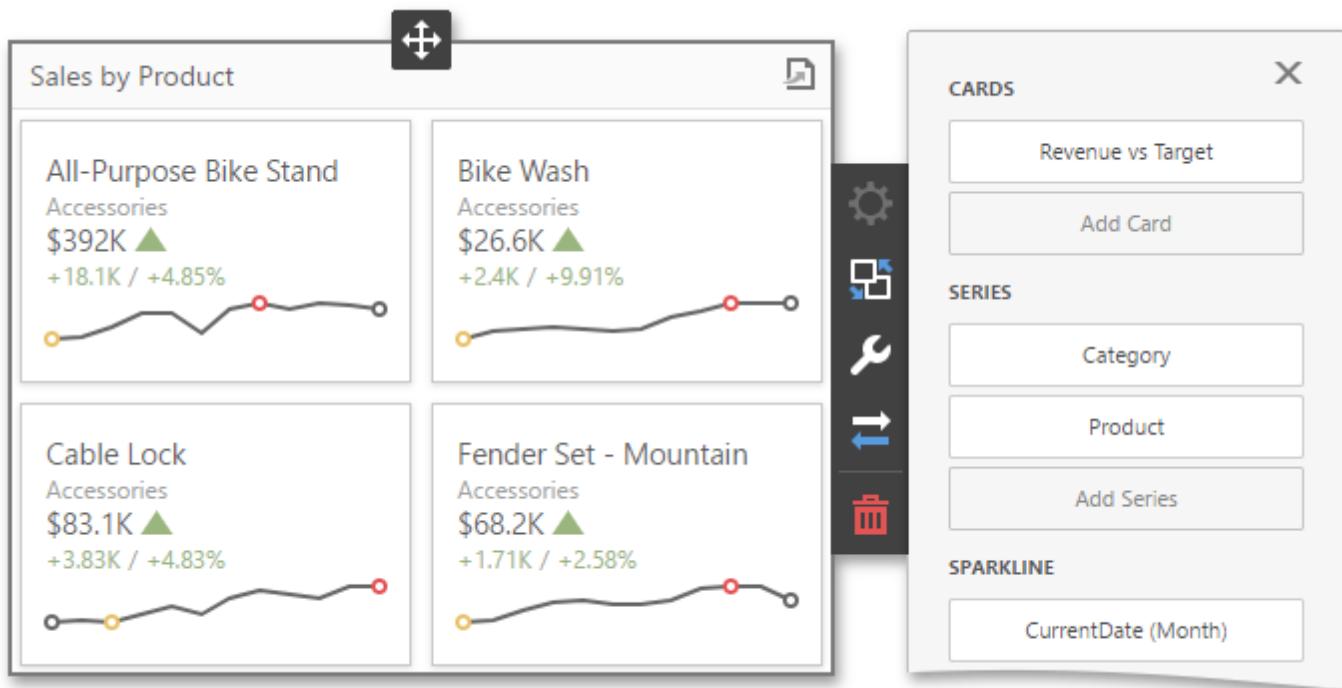
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Cards](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind a **Card** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Card dashboard item that is bound to data.



To bind the Card dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The table below lists and describes the Card's data sections.

Section	Processed as	Description
Cards	Measure (both <i>Actual</i> and <i>Target</i> values)	Contains data items used to calculate values displayed within cards. After you add the data item containing actual data, you can add the second data item (optional) that contains target data. If both items are provided, cards show the difference between actual and target values, called <i>delta</i> . To learn more, see Delta . You can fill several data item containers in the Cards section and use the Values drop-down menu to switch between the provided values. To invoke the Values menu, click the icon in the dashboard item caption.

Series	Dimension	Contains data items whose values are used to label cards.
Sparkline	Dimension	Provides a date-time dimension whose data will be used to visualize values using sparklines .

Layout

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Cards](#) > [Layout](#)

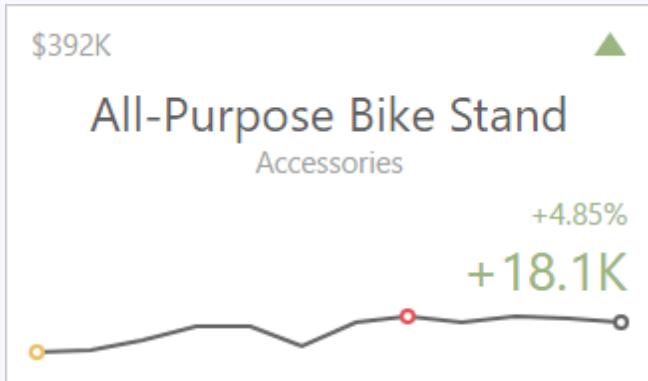
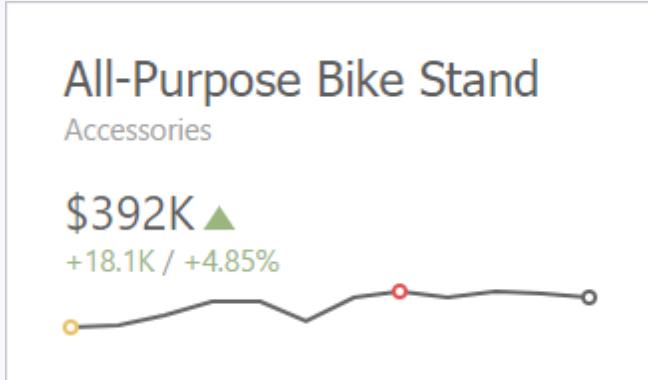
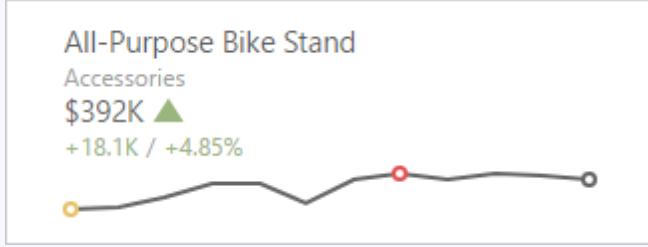
The Card dashboard item allows you to manage the position and visibility of elements displayed on cards. These elements include actual and target values, a [delta indicator and corresponding delta values](#), a [sparkline](#), etc.

To manage the position and visibility of card elements, choose a predefined layout template and customize its settings.

- [Available Layout Templates](#)
- [Default Layout](#)
- [Change Layout](#)

Available Layout Templates

The table below contains information about the available layout templates:

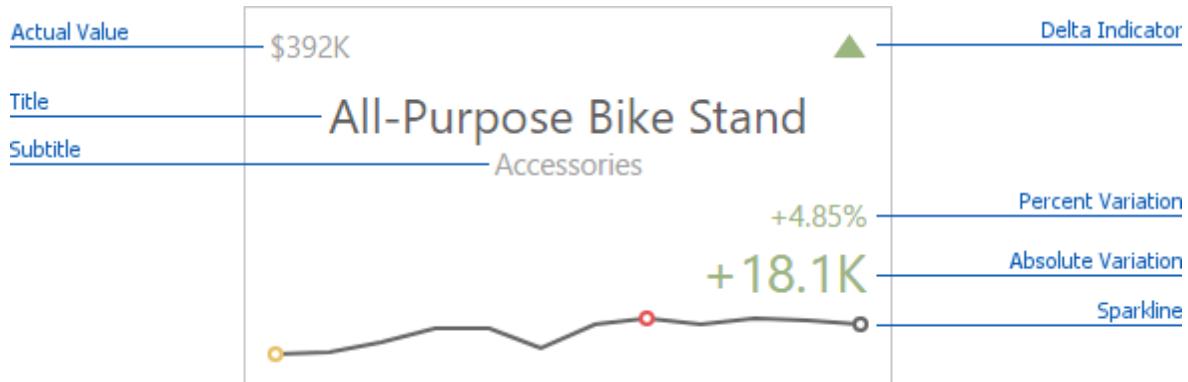
Layout Type	Example	Description
Stretched		<p>The <i>Stretched</i> layout template arranges card elements so that they occupy an entire card area.</p>
Centered		<p>The <i>Centered</i> layout template is used to center card elements so that they occupy a specified width/height.</p>
Compact		<p>The <i>Compact</i> layout template is used to arrange card elements so that they occupy the minimum area.</p>

Lightweight		\$392K All-Purpose Bike Stand Accessories	The <i>Lightweight</i> layout template displays the minimum set of elements within a card.
-------------	--	---	--

For all layout types, you can change the visibility of its elements, or you can specify the display value type for data-bound elements. To learn more, see the [Change Layout](#) paragraph below.

Default Layout

The Card dashboard item uses the [Stretched](#) layout template that arranges card visual elements in the following way by default:



To learn more about the available value types and visual elements, see [Change Layout](#).

Note

Delta Indicator and delta values (such as **Percent Variation** or **Absolute Variation**) are colored depending on delta settings. To learn how to manage delta settings, see [Delta](#).

Change Layout

To change a card's layout in the Web Dashboard's UI, invoke the [Binding menu](#), click the required data item in the [Cards](#) section and go to **Cards Layout** in the [data item's menu](#). Select the required layout type and click the **Edit** button (the icon) to change its settings. The following settings are available:

- Min width** - Specifies the minimum width of the card content.
- Max width** - Allows you to specify the maximum width of the card content. Select the **Auto** option to determine the maximum width automatically or switch to **Custom** and specify the required width manually.

You can show/hide the following values and visual elements within the card:

Value	Description	Example
Title	Displays values of the last (bottommost) dimension placed in the Series section.	Microsoft Office Keyboard
Subtitle	Displays combined values of all dimensions except the last (bottommost) dimension.	Technology - Computer Peripherals
Absolute Variation	An absolute difference	+18.1K

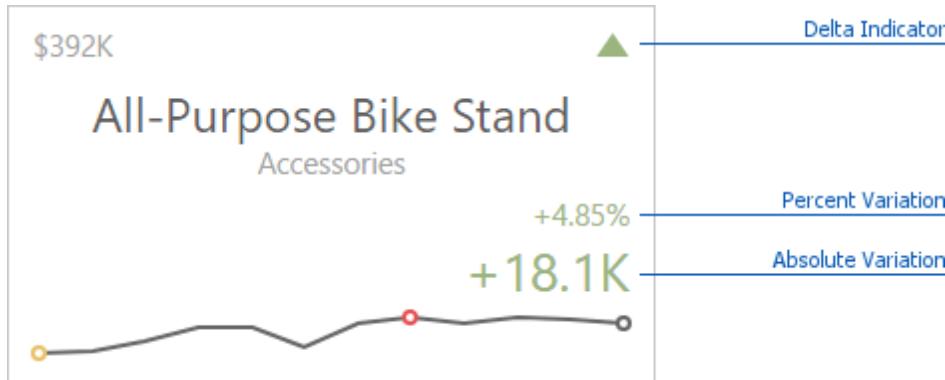
	between the actual and target value (see Delta).	
Actual Value	A summary value for a measure placed in the Actual placeholder.	\$392K
Card Name	A card name.	Revenue vs. Target
Percent of Target	A percent of a target value (see Delta).	104.85 %
Percent Variation	A percent difference between the actual and target value (see Delta).	4.85 %
Target Value	A summary value for a measure placed in the Target placeholder.	\$374K
Dimension {Name}	Allows you to display values of a specific dimension placed in the Series section.	Technology
Element	Description	Example
Delta Indicator	Indicates whether the actual value is less or greater than the target value (see Delta).	▲
Sparkline	Visualizes the variation of actual or target values. To learn more, see Sparkline .	

Use the **Apply to All Cards** button to propagate the specified layout settings to all cards corresponding to [Actual-Target](#) pairs. The **Reset** button resets all setting to their default values.

Delta

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Cards](#) > [Delta](#)

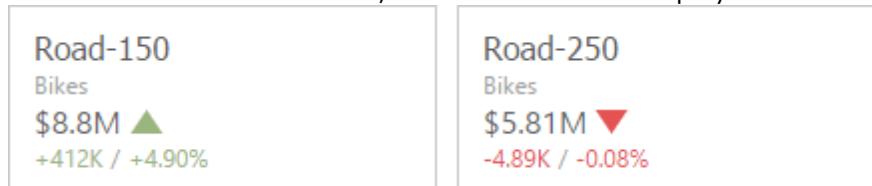
Cards allow you to visualize the difference between the [actual and target](#) values using special delta values and a delta indicator. If the default layout is used ([Stretched layout type](#)), the card displays the following delta values/elements:



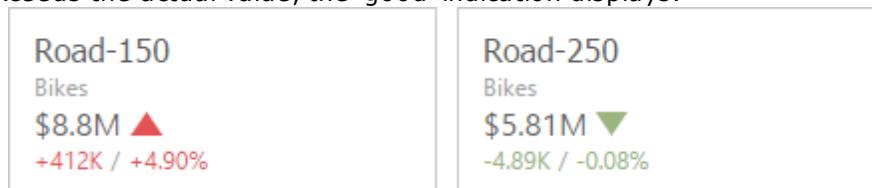
- **Delta Indicator** - Indicates whether the actual value is less or greater than the target value.
- **Percent Variation** and **Absolute Variation** - delta values that show a difference between the actual and target value. You can also display the **Percent of Target** value. To do this, customize the [card's layout](#).

To customize settings that relate to the calculation and display of delta values/elements, invoke the [Binding menu](#), click the required data item in the [Cards](#) section and go to **Delta Options** in the [data item's menu](#). Then, specify the following settings:

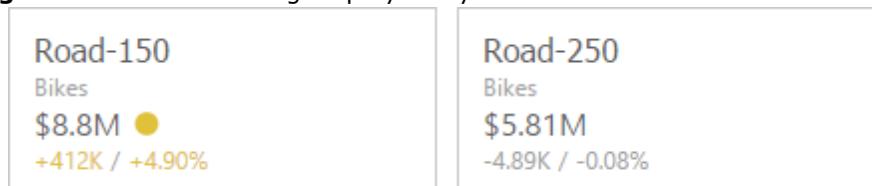
- **Result Indication** - You can specify the condition for displaying delta indication.
- **Greater is Good** - The 'good' indication is displayed if the actual value exceeds the target value; if the target value exceeds the actual value, the 'bad' indication displays.



- **Less is Good** - The 'bad' indication displays if the actual value exceeds the target value; if the target value exceeds the actual value, the 'good' indication displays.



- **Warning if Greater** - A warning displays only if the actual value exceeds the target value.



- **Warning if Less** - A warning displays only if the target value exceeds the actual value.

Road-150

Bikes

\$8.8M

+412K / +4.90%

Road-250

Bikes

\$5.81M



-4.89K / -0.08%

- **No Indication** - Indication does not display.

Road-150

Bikes

\$8.8M

+412K / +4.90%

Road-250

Bikes

\$5.81M

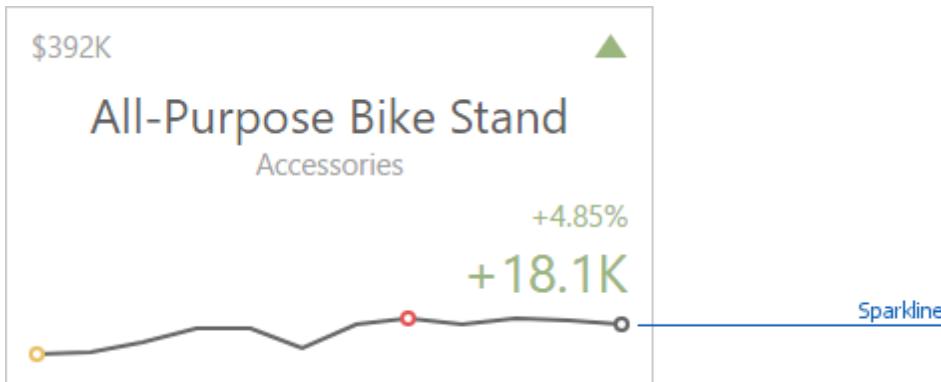
-4.89K / -0.08%

- **Threshold type / Threshold value** - For instance, you can specify that a specific indication should display when the actual value exceeds the target value by 10% or by \$2K. Use the **Threshold type** combo box to select whether you wish to specify the comparison tolerance in percentage values or absolute values. Then use the **Threshold value** box to specify the comparison tolerance.

Sparkline

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Cards](#) > [Sparkline](#)

Sparklines can be used to visualize the variation of [actual or target](#) values (for instance, over time).

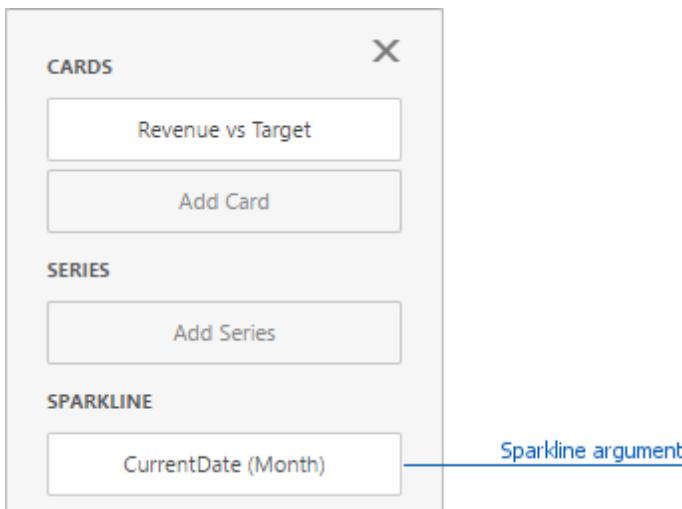


To learn how to display the sparkline for different layout types, see [Layout](#).

- [Data Binding Specifics](#)
- [Change Sparkline Options](#)

Data Binding Specifics

You need to provide a date-time or numeric dimension (in the **Sparkline** section) whose data is used as argument values to display a sparkline within the card.



If you have provided both actual and target values, a sparkline visualizes the actual value's variation.

Change Sparkline Options

To change sparkline settings in the Web Dashboard's UI, invoke the [Binding menu](#), click the required data item in the [Cards](#) section and go to **Sparkline Options** in the [data item's menu](#). The following options are available:

Sparkline Options	Description
View type	Defines the sparklines view type. Sparkline data points can be represented as area , line , bars , or win and loss squares.
Highlight min/max points	Specifies whether to highlight the minimum/maximum

	points of a sparkline.
Highlight start/end points	Specifies whether to highlight the start/end points of a sparkline.

Formatting

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Cards](#) > [Formatting](#)

The Card dashboard item formats the [actual and target](#) values displayed within cards using [format settings](#) specified for data items.

To change format settings in the Web Dashboard's UI, invoke the [Binding menu](#), click the required data item in the [Cards](#) section and go to **Format Options** in the [data item's menu](#). You can change format settings for the following [value types](#):

- **Actual Value**
- **Target Value**
- **Absolute Variation**
- **Percent of Target**
- **Percent Variation**

To change format settings for the selected value type, click the **Edit** button (the  icon). To learn more about format settings, see **Formatting Numeric Values** in the [Formatting Data](#) topic.

Interactivity

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Cards](#) > [Interactivity](#)

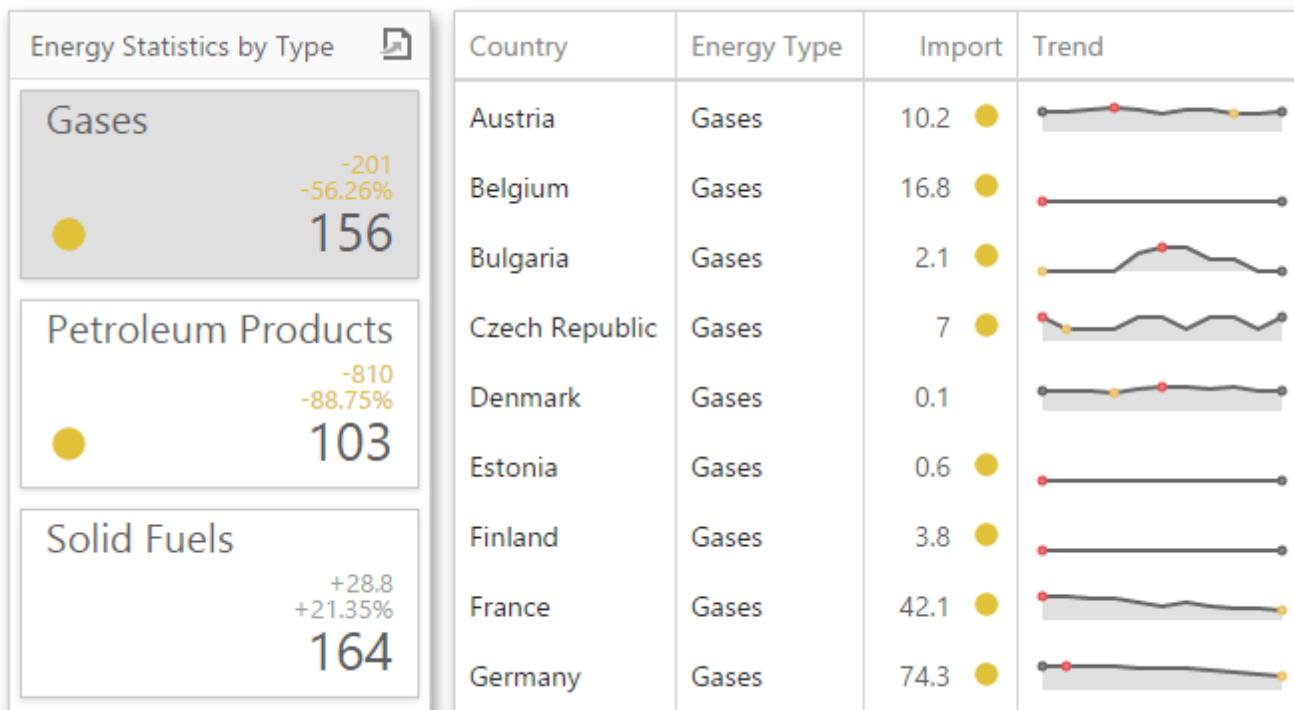
To enable interaction between the Card and other dashboard items, you can use interactivity features like **Master Filtering** and **Drill-Down**.

- Master Filtering
 - Drill-Down

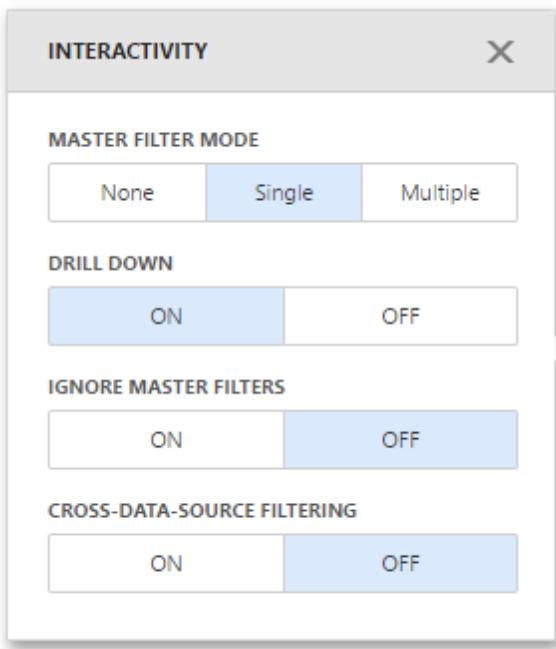
Master Filtering

The Dashboard allows you to use the Card dashboard item as a filter for other dashboard items. To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

When **Master Filtering** is enabled, you can click a card(s) to make other dashboard items only display data related to the selected card(s).



To enable **Master Filtering**, go to the Card's [Interactivity](#) menu and select the required Master Filtering mode.

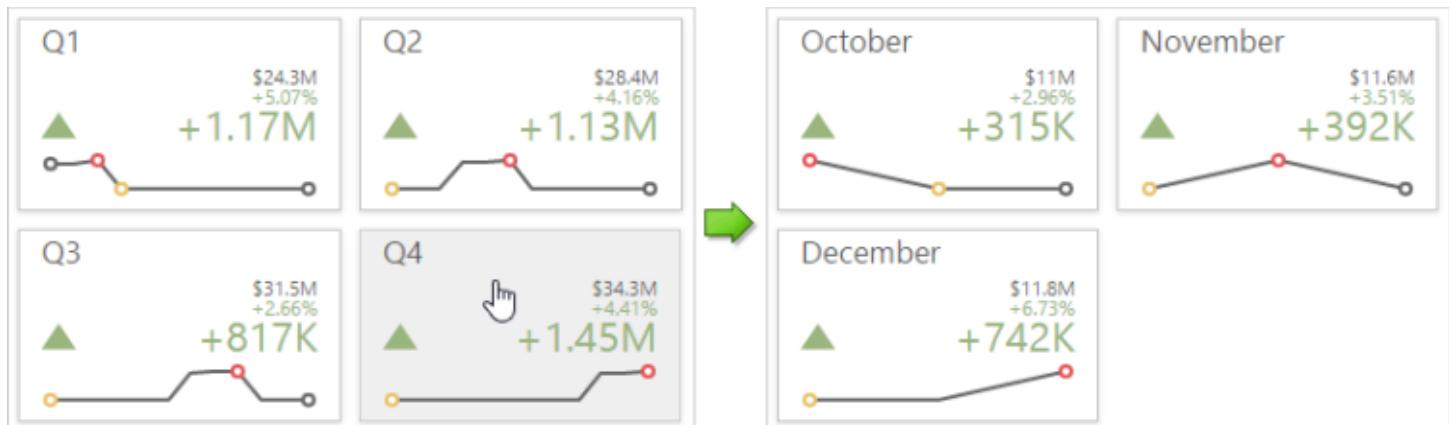


To reset filtering, use the **Clear Master Filter** button (the icon) in the Card's [caption](#).

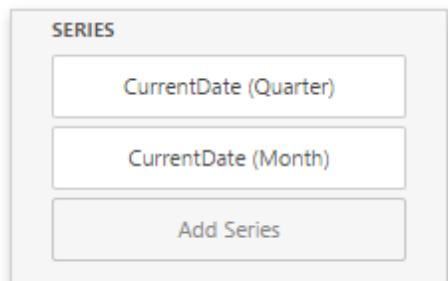
Drill-Down

The built-in drill-down capability allows you to change the detail level of data displayed in dashboard items on the fly. To learn more about drill-down concepts common to all dashboard items, see the [Drill-Down](#) topic.

When drill-down is enabled, you can click a card to view the details.



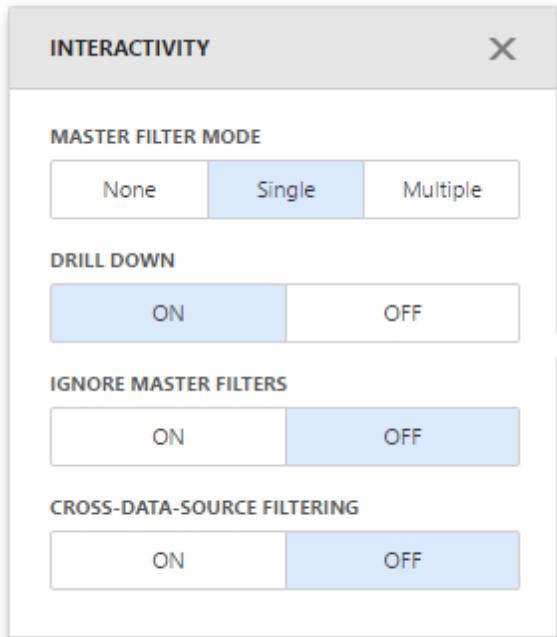
Drill-down requires that the Series section contains several dimensions at the top, from the least detailed to the most detailed dimension.



 Note

In OLAP mode, you can perform drill-down for either a hierarchy data item or several dimension attributes.

To enable **Drill-Down**, go to the Card's [Interactivity](#) menu and turn the **Drill-Down** option on.

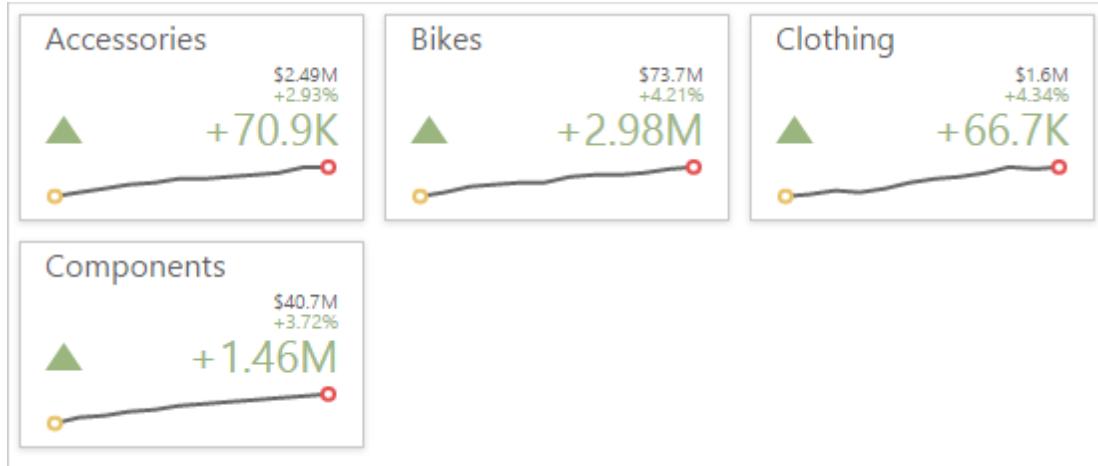


To return to the previous detail level, click the **Drill Up** button (the ↕ icon) in the Card's [caption](#).

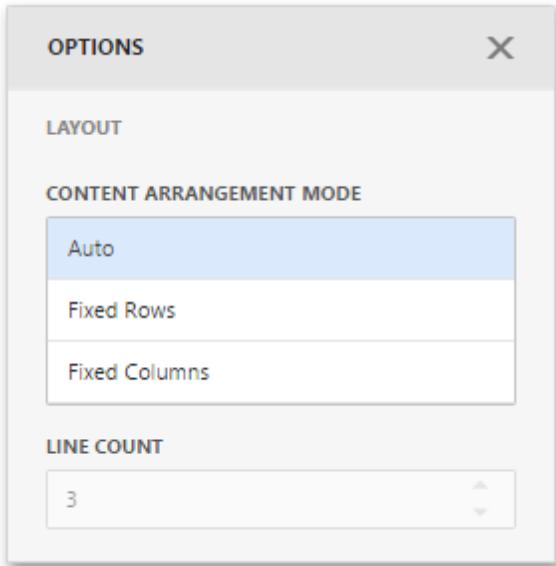
Cards Arrangement

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Cards](#) > [Cards Arrangement](#)

The Card dashboard item allows you to specify the number of columns or rows in which cards are arranged. For example, the following image show cards arranged into 3 columns.



To control how cards are arranged, use the **Layout** section in the Card's [Options](#) menu.



The following modes are available.

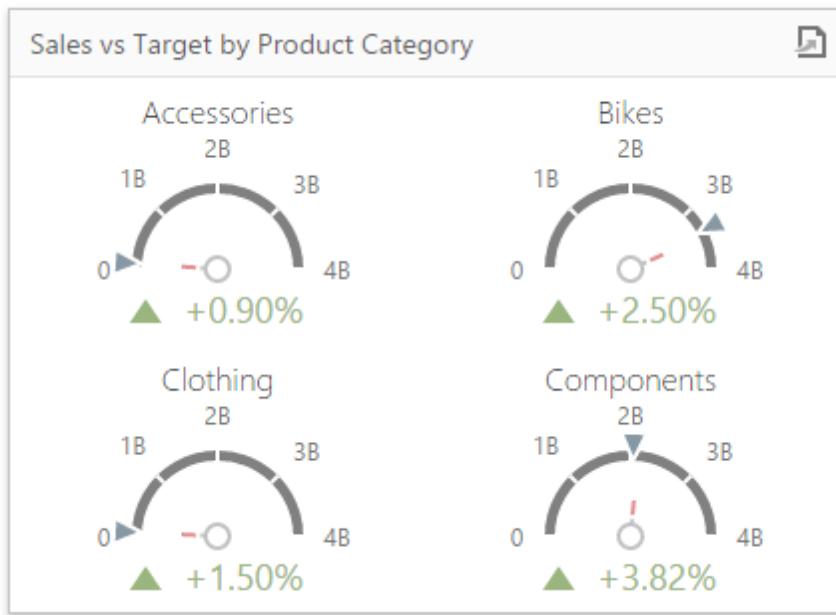
Arrangement Mode	Description
Auto	Automatically resizes cards to fit within the dashboard item.
Fixed Rows	Allows you to arrange cards in a specific number of rows.
Fixed Columns	Allows you to specify the number of columns in which cards are arranged.

To specify the number of rows / columns, use the **Line Count** field.

Gauges

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Gauges](#)

The **Gauge** dashboard item displays a series of gauges. Each gauge can communicate two values - one with a needle and the other with a marker on the scale.



The following sections are available.

- [Providing Data](#)
Provides information about how to supply the Gauge dashboard item with data.
- [Delta](#)
Provides an overview of the Gauge dashboard items capability to display the difference between two parameters.
- [Gauge Scale](#)
Describes options that relate to the gauge scales.
- [Interactivity](#)
Describes features that enable interaction between the Gauge dashboard item and other items.
- [Layout](#)
Describes layout options of the Gauge dashboard item.
- [Style](#)
Provides information about how to specify the gauge style.

Providing Data

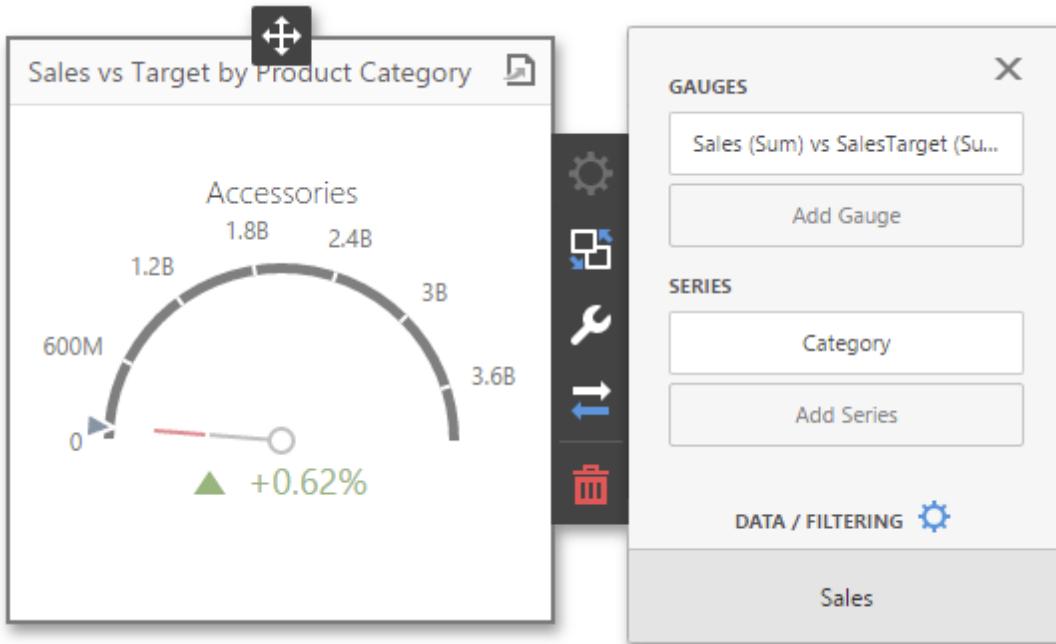
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Gauges](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind a **Gauge** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Gauge dashboard item that is bound to data.



To bind the Gauge dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The table below lists and describes the Gauge's data sections.

Section	Processed as	Description
Gauges	Measure (both <i>Actual</i> and <i>Target</i> values)	Contains data items used to calculate values displayed by gauges. After you add the data item containing actual data, you can add the second data item (optional) that contains target data. If both items are provided, gauges show the difference between actual and target values, called <i>delta</i> . To learn more, see Delta . You can fill several data item containers in the Gauges section and use the Values drop-down menu to switch between the provided values. To invoke the Values menu, click the  icon in the dashboard item caption.

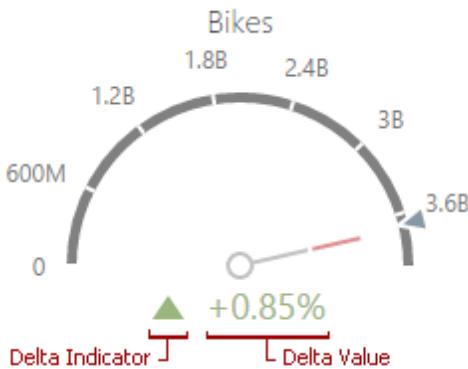
Series	Dimension	Contains data items whose values are used to label gauges..
---------------	-----------	---

Delta

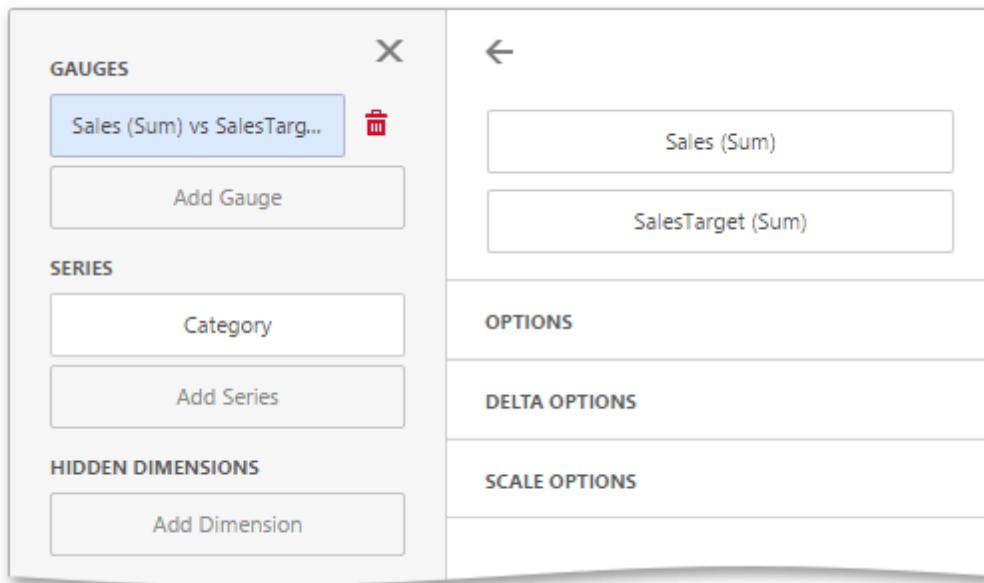
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Gauges](#) > [Delta](#)

Gauges allow you to display the difference between the *actual* and *target* values of a particular parameter. This difference is called **delta**.

Delta is shown with a *delta indicator* (indicating whether the actual value is less than or greater than the target value) and *delta values* (representing this difference as an absolute value or a variation).



After you add the data item containing *actual* data, you can add the second data item (optional) that contains *target* data. To customize settings that relate to the calculation and display of deltas, open the **Delta Options** section of the [data item menu](#).



Use it to define the conditions for displaying delta indication, specify which delta values should be displayed, and introduce the comparison tolerance. The following options are available.

Option	Description
Value Type	Specifies which values should be displayed as the main delta value. Additional delta values are selected automatically.
Result Indication	Specifies the condition for displaying delta indication.
Threshold Type	Specifies the comparison tolerance in percentage values or in absolute values.

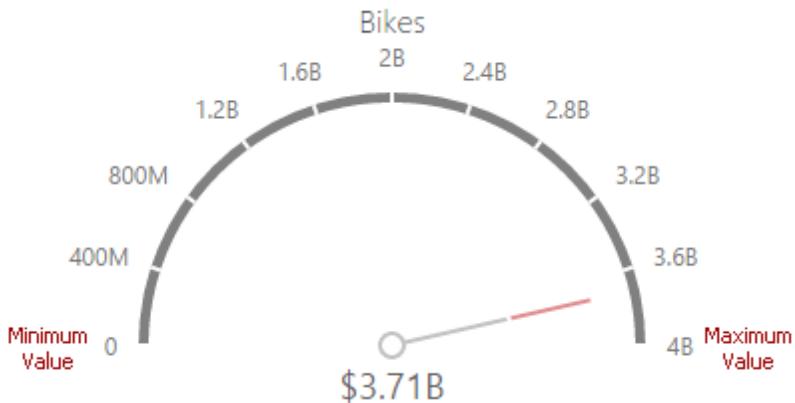
Threshold Value

Specifies the comparison tolerance value.

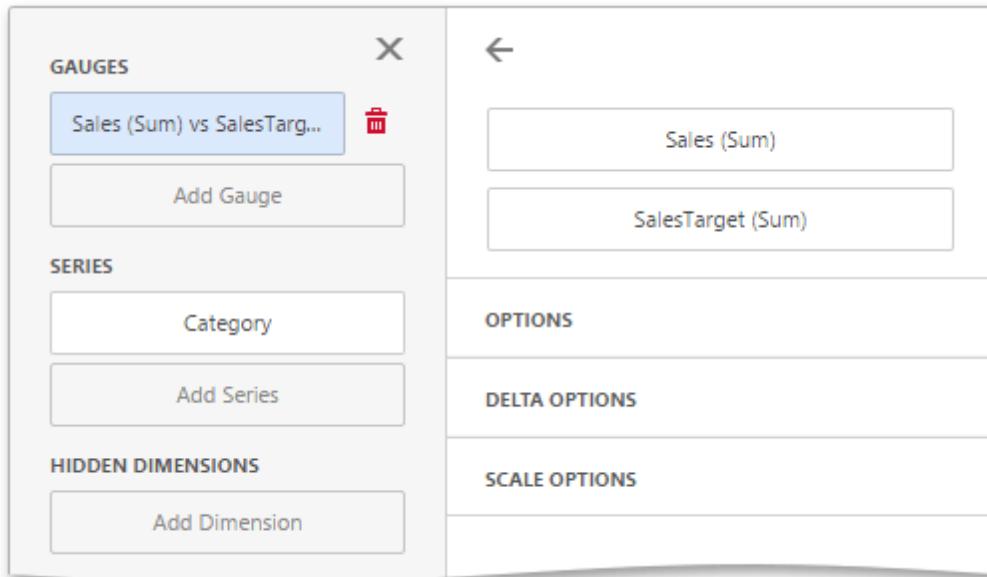
Gauge Scale

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Gauges](#) > [Gauge Scale](#)

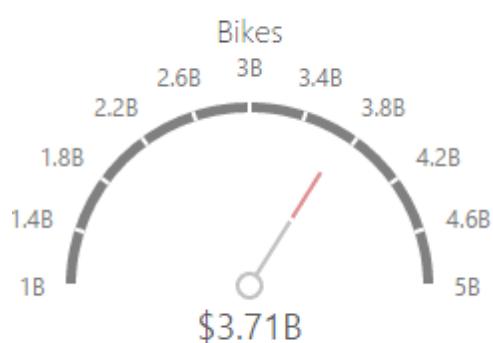
By default, the Gauge dashboard item automatically determines the range of the gauge scales based on the values they display.



You can override this behavior and specify maximum and minimum values on the scale. After you add the data item, open the **Scale Options** section of the [data item menu](#) to customize the gauge scale.



Then, set the minimum/maximum value mode to **Custom** and specify this value in the corresponding field. The image below shows a gauge with a minimum value of 1B and maximum 5B.



SCALE OPTIONS

MINIMUM VALUE

Auto	Custom
1000000000	
▲	▼

MAXIMUM VALUE

Auto	Custom
5000000000	
▲	▼

Interactivity

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Gauges](#) > [Interactivity](#)

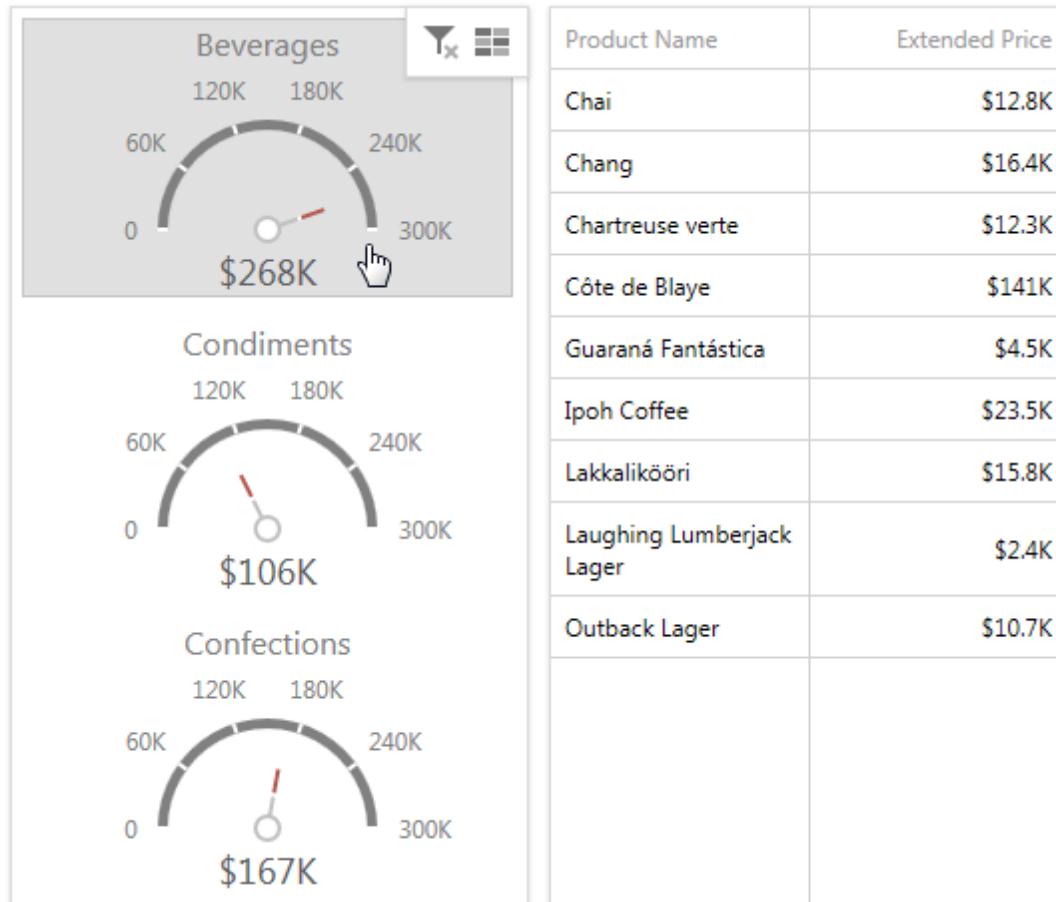
To enable interaction between the Gauge and other dashboard items, you can use the interactivity features, as **Master Filtering** and **Drill-Down**.

- [Master Filtering](#)
- [Drill-Down](#)

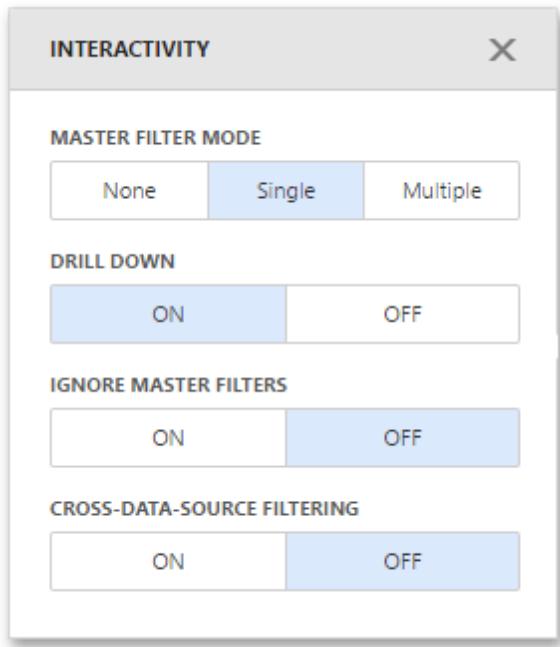
Master Filtering

You can use the **Gauge** dashboard item as a filter for other dashboard items. To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

When **Master Filtering** is enabled, you can click a gauge(s) to make other dashboard items only display data related to the selected gauge(s).



To enable **Master Filtering**, go to the Gauge's [Interactivity](#) menu and select the required Master Filtering mode.

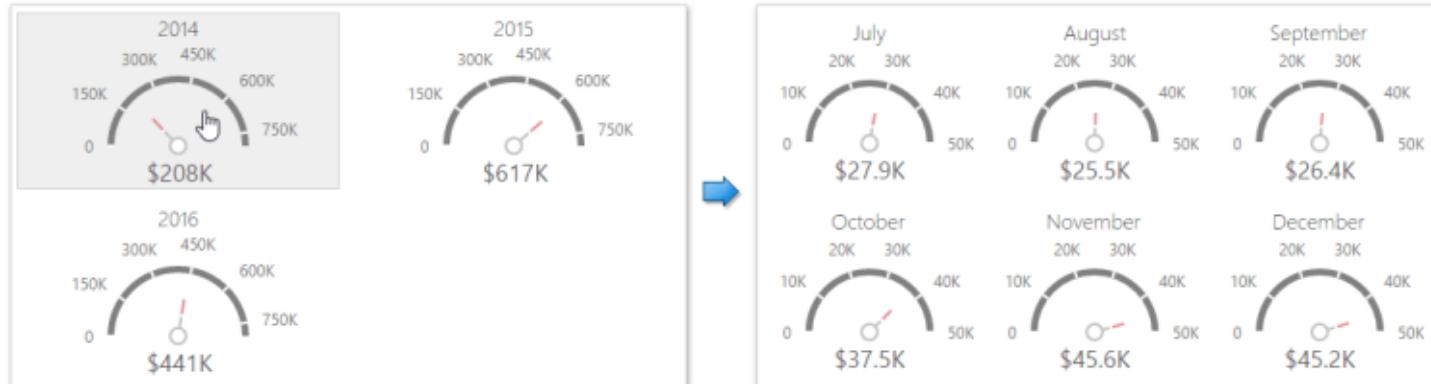


To reset filtering, use the **Clear Master Filter** button (the icon) in the Gauge's [caption](#).

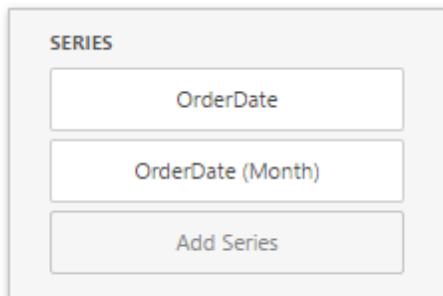
Drill-Down

The built-in drill-down capability allows you to change the detail level of data displayed in dashboard items on the fly. To learn more about drill-down concepts common to all dashboard items, see the [Drill-Down](#) topic.

When drill-down is enabled, you can click a gauge to view the details.

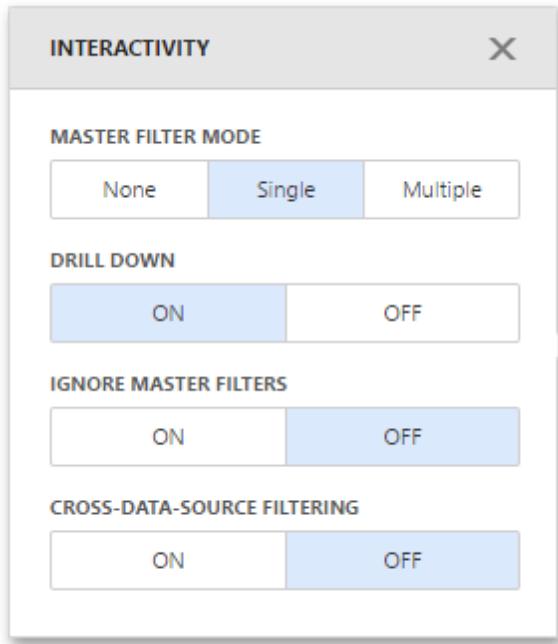


Drill-down requires that the **Series** section contains several dimensions at the top, from the least detailed to the most detailed dimension.



In OLAP mode, you can perform drill-down for either a hierarchy data item or several dimension attributes.

To enable **Drill-Down**, go to the Gauge's [Interactivity](#) menu and turn the **Drill-Down** option on.

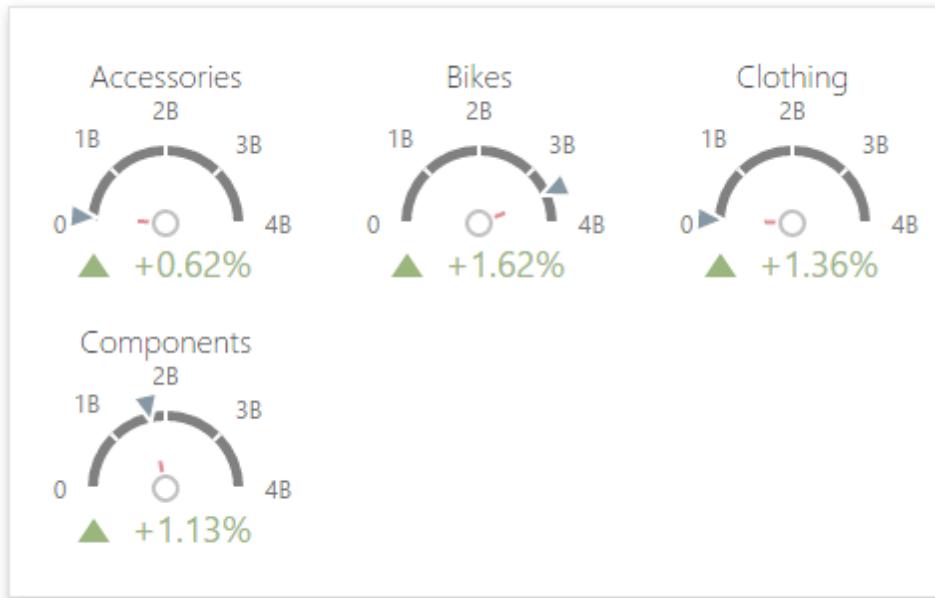


To return to the previous detail level, click the **Drill Up** button (the ↗ icon) in the Gauge's [caption](#).

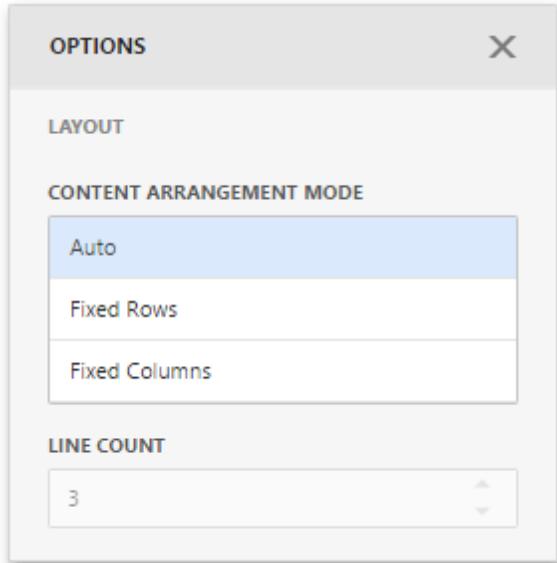
Layout

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Gauges](#) > [Layout](#)

The Gauge dashboard item allows you to specify the number of columns or rows by which gauges are arranged. For example, the following image shows gauges arranged into 3 columns.



To control how gauges are arranged, use the **Layout** section in the Gauge's [Options](#) menu.



The following modes are available.

Arrangement Mode	Description
Auto	Automatically resizes gauges to fit within the dashboard item.
Fixed Rows	Allows you to arrange gauges in a specific number of rows.

Fixed Columns

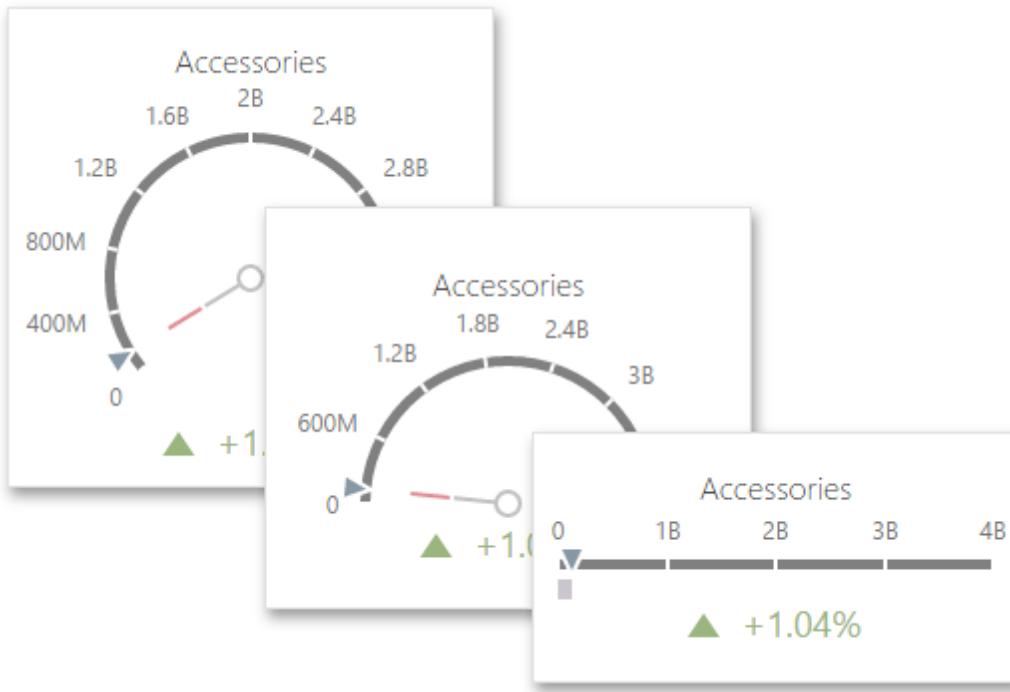
Allows you to specify the number of columns in which gauges are arranged.

To specify the number of rows/columns, use the **Line Count** field.

Style

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Gauges](#) > Style

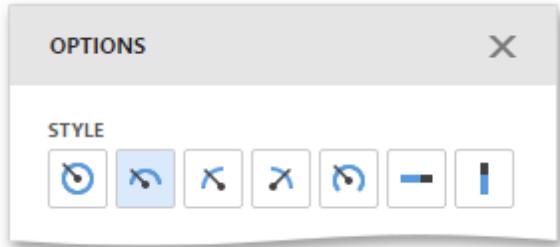
The Gauge dashboard item allows you to select the gauge style.



The following types are available.

- Full Circular
- Half-Circular
- Left-Quarter Circular
- Right-Quarter Circular
- Three-Fourths Circular
- Linear Horizontal
- Linear Vertical

To select the gauge style, use the style icons in the Gauge [Options](#) menu.



Pivot

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pivot](#)

The **Pivot** dashboard item displays a cross-tabular report that presents multi-dimensional data in an easy-to-read format.

Sales by State									
	► Bikes		★	► Clothing		► Components		Grand Total	
	Revenue	Units Sold		Revenue	Units Sold	Revenue	Units Sold	Revenue	Units Sold
Alabama	\$6.29M	3.67K		\$111K	2.41K	\$3.1M	13.7K	\$9.69M	25.1K
Arizona	\$6.11M	3.52K		\$112K	2.41K	\$3.02M	13.4K	\$9.43M	24.9K
California	\$18.9M	12K	★	\$763K	15.9K	\$15.6M	77.8K	\$36.4M	142K
Colorado	\$6.14M	3.68K		\$107K	2.32K	\$3.26M	13.9K	\$9.7M	25.5K
Connecticut	\$6.07M	3.65K		\$119K	2.56K	\$2.97M	13.2K	\$9.35M	24.7K
Florida	\$6.86M	4.4K	★	\$206K	4.78K	\$5M	25.8K	\$12.4M	47.1K
Georgia	\$6M	3.56K		\$106K	2.35K	\$3.14M	13.6K	\$9.44M	24.9K

This section consists of the following topics.

- [Providing Data](#)
Explains how to supply the Pivot dashboard item with data.
- [Interactivity](#)
Describes features that enable interaction between the Pivot and other dashboard items.
- [Conditional Formatting](#)
Describes the conditional formatting feature that provides the capability to apply formatting to cells whose values meet the specified condition.
- [Layout](#)
Describes layout options of the Pivot dashboard item.
- [Expanded State](#)
Describes how to specify whether to expand column/row groups by default.

Providing Data

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pivot](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind a **Pivot** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Pivot dashboard item that is bound to data.

	Bikes	Clothing	Components	Grand Total
Alabama	\$6.29M	\$111K	\$3.1M	\$9.69M
Arizona	\$6.11M	\$112K	\$3.02M	\$9.43M
California	\$18.9M	\$763K	\$15.6M	\$36.4M
Colorado	\$6.14M	\$107K	\$3.26M	\$9.7M
Connecticut	\$6.07M	\$119K	\$2.97M	\$9.35M
Florida	\$6.86M	\$206K	\$5M	\$12.4M
Georgia	\$6M	\$106K	\$3.14M	\$9.44M
Idaho	\$6.05M	\$111K	\$3.01M	\$9.36M

To bind the Pivot dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The table below lists and describes the Pivot's data sections.

Section	Processed as	Description
Values	Measure	Contains data items used to calculate values displayed in the pivot table.
Columns	Dimension	Contains data items whose values are used to label columns.
Rows	Dimension	Contains data items whose values are used to label rows.

Interactivity

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pivot](#) > [Interactivity](#)

To enable interaction between the Pivot and other dashboard items, you can use the interactivity features. These features include **Master Filtering**.

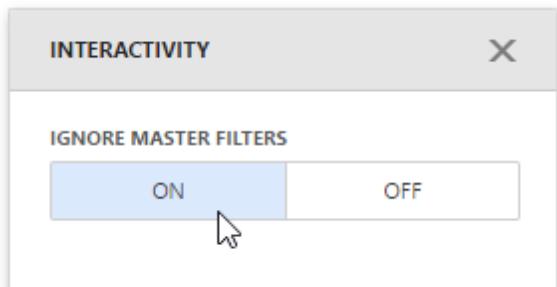
Master Filtering

Data displayed in the Pivot dashboard item can be filtered by other master filter items. The image below displays the Pivot dashboard item filtered by [Tree View](#).

The screenshot shows a dashboard layout. On the left, there is a master filter tree view titled '(All)'. It has a single expanded node 'Beverages' which contains several items: 'Chai' (checked), 'Chang' (unchecked), 'Chartreuse verte' (checked), 'Côte de Blaye' (checked), 'Guaraná Fantástica' (checked), 'Ipoh Coffee' (unchecked), and 'Lakkalikööri' (unchecked). To the right of this is a pivot table with the following data:

		► UK	► USA	Grand Total
▼ Beverages	Chai	\$3.57K	\$9.22K	\$12.8K
	Chartreuse verte	\$4.14K	\$8.16K	\$12.3K
	Côte de Blaye	\$37.6K	\$104K	\$141K
	Guaraná Fantástica	\$1.51K	\$2.99K	\$4.5K
Beverages Total	\$46.9K	\$124K	\$171K	
Grand Total	\$46.9K	\$124K	\$171K	

You can prevent the pivot from being affected by other master filter items using the **Ignore Master Filters** button in the Pivot's [Interactivity](#) menu.



To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

Conditional Formatting

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pivot](#) > [Conditional Formatting](#)

The Pivot dashboard item supports the conditional formatting feature that provides the capability to apply formatting to data cells whose values meet the specified condition. This feature allows you to highlight specific cells or entire rows/columns using a predefined set of rules. To learn more about conditional formatting concepts common for all dashboard items, see [Conditional Formatting](#).

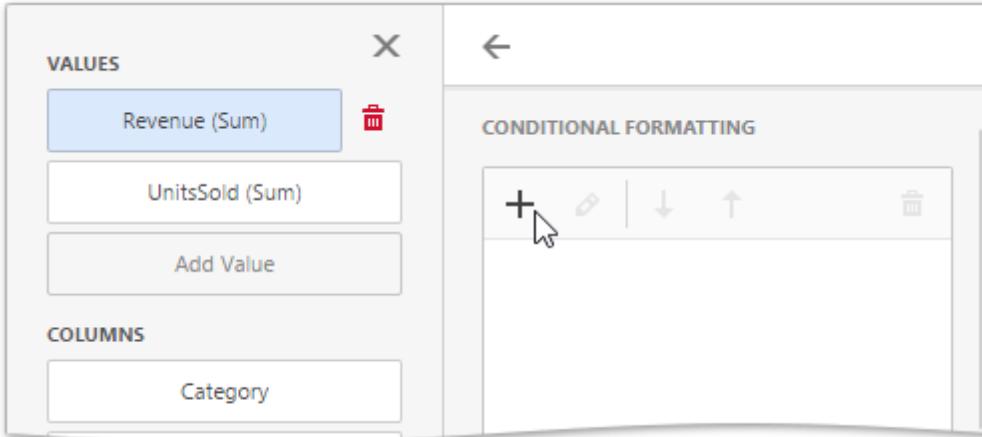
	► Clothing		► Components		Grand Total	
	Revenue	Units Sold	Revenue	Units Sold	Revenue	Units Sold
Alabama	\$111K	2.41K	\$3.1M	13.7K	\$9.69M	25.1K
Arizona	\$112K	2.41K	\$3.02M	13.4K	\$9.43M	24.9K
California ★	\$763K	15.9K	\$15.6M	77.8K	\$36.4M	142K
Colorado	\$107K	2.32K	\$3.26M	13.9K	\$9.7M	25.5K
Connecticut	\$119K	2.56K	\$2.97M	13.2K	\$9.35M	24.7K
Florida ★	\$206K	4.78K	\$5M	25.8K	\$12.4M	47.1K

The Pivot dashboard item allows you to use conditional formatting for measures placed in the **Values** section and dimensions placed in the **Columns/Rows** sections.

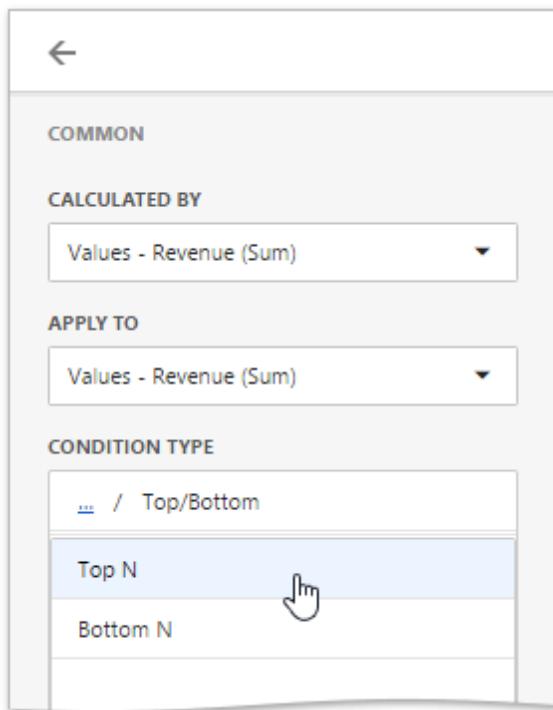
You can use [hidden measures](#) to specify a condition used to apply formatting to visible values. New appearance settings are applied to data cells corresponding to a row/column intersection. You can set the intersection of the row and column manually or use predefined settings.

Create and Edit Format Rules

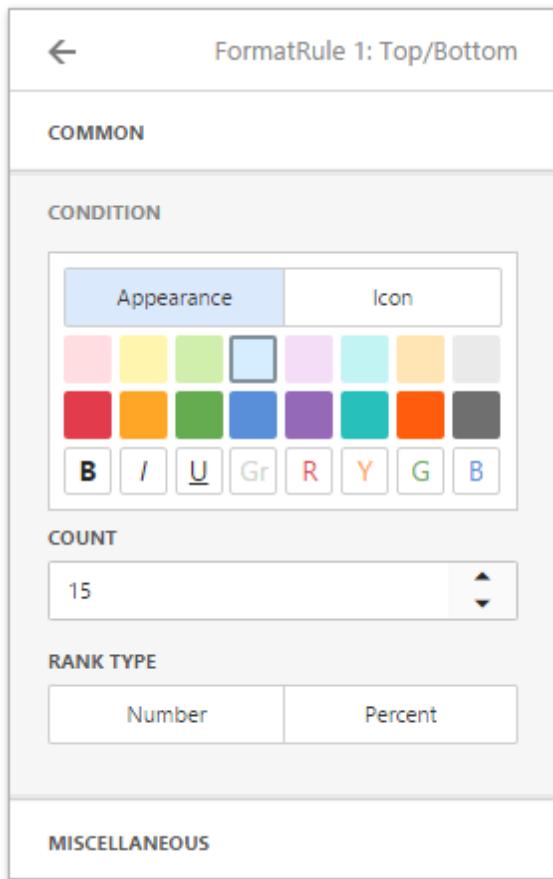
To create a new format rule for the Pivot's dimension/measure, select the required data item by whose values a format condition will be calculated, open its menu and go to the **Conditional Formatting** section. Click "+" to add a new rule.



Then, specify the data item to which conditional formatting is applied using the **Apply to** combo box and select the condition type.



Depending on the selected format condition, the menu used to create a format rule for Pivot contains different settings. For example, the image below displays the *Top/Bottom* format condition menu. Here, you need to specify the number of values to be displayed and select a format rule style.

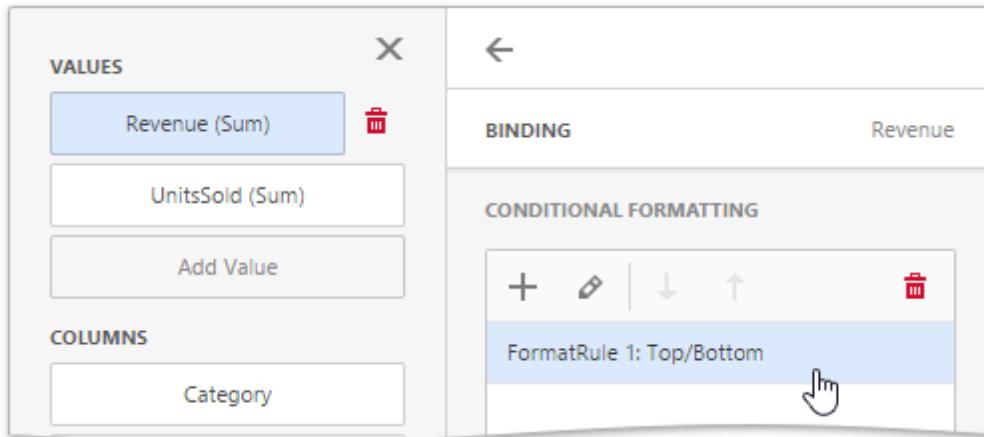


The **Miscellaneous** section of the format rule menu contains additional settings depending on the dashboard item type. The Pivot dashboard item allows you to manually specify an intersection level or disable the current rule.

The format condition is now ready and will be applied to the Pivot dashboard item.

	▶ Accessories		▶ Bikes	
	Revenue	Units Sold	Revenue	Units Sold
Texas	\$655K	19.1K	\$9.53M	6.29K
Utah	\$188K	5.44K	\$6.21M	3.64K
Virginia	\$183K	5.33K	\$6.22M	3.65K
Washington	\$622K	20.6K	\$11.1M	7.6K
Wisconsin	\$182K	5.44K	\$6.23M	3.68K
Wyoming	\$182K	5.4K	\$5.9M	3.54K
Grand Total	\$8.91M	266K	\$235M	142K

To edit a format rule, open the **Conditional Formatting** section of the [data item menu](#), select the required format rule and click the **Edit** button (the  icon).



To delete the selected format rule, click the **Delete** button (the  icon).

Layout

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pivot](#) > [Layout](#)

This topic describes how to control the Pivot dashboard item layout, the visibility of totals and grand totals, etc.

- [Layout Type](#)
- [Totals Visibility](#)
- [Totals Position](#)
- [Values Visibility](#)
- [Values Position](#)

Layout Type

If the Pivot dashboard item contains a hierarchy of dimensions in the [Rows](#) section, you can specify the layout used to arrange values corresponding to individual groups.

Layout type	Example			Description																																												
Compact	<table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="2">Grand Total</th> </tr> <tr> <th colspan="2"></th> <th>Sales</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td colspan="2">▼ 2015 Total</td> <td>\$591K</td> <td>25K</td> </tr> <tr> <td colspan="2">Q1</td> <td>\$145K</td> <td>6.73K</td> </tr> <tr> <td colspan="2">Q2</td> <td>\$145K</td> <td>5.85K</td> </tr> <tr> <td colspan="2">Q3</td> <td>\$135K</td> <td>5.55K</td> </tr> <tr> <td colspan="2">Q4</td> <td>\$166K</td> <td>6.88K</td> </tr> <tr> <td colspan="2">▼ 2016 Total</td> <td>\$512K</td> <td>18.9K</td> </tr> <tr> <td colspan="2">Q1</td> <td>\$265K</td> <td>9.26K</td> </tr> <tr> <td colspan="2">Q2</td> <td>\$247K</td> <td>9.67K</td> </tr> <tr> <td colspan="2">Grand Total</td> <td>\$1.1M</td> <td>43.9K</td> </tr> </tbody> </table>			Grand Total				Sales	Quantity	▼ 2015 Total		\$591K	25K	Q1		\$145K	6.73K	Q2		\$145K	5.85K	Q3		\$135K	5.55K	Q4		\$166K	6.88K	▼ 2016 Total		\$512K	18.9K	Q1		\$265K	9.26K	Q2		\$247K	9.67K	Grand Total		\$1.1M	43.9K			Displays values from different Row dimensions in a single column. Note that in this case totals are displayed at the top of a group, and you cannot change totals position .
		Grand Total																																														
		Sales	Quantity																																													
▼ 2015 Total		\$591K	25K																																													
Q1		\$145K	6.73K																																													
Q2		\$145K	5.85K																																													
Q3		\$135K	5.55K																																													
Q4		\$166K	6.88K																																													
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Q2		\$247K	9.67K																																													
Grand Total		\$1.1M	43.9K																																													
Tabular	<table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="2">Grand Total</th> </tr> <tr> <th colspan="2"></th> <th>Sales</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>▼ 2015</td> <td>Q1</td> <td>\$145K</td> <td>6.73K</td> </tr> <tr> <td>Q2</td> <td></td> <td>\$145K</td> <td>5.85K</td> </tr> <tr> <td>Q3</td> <td></td> <td>\$135K</td> <td>5.55K</td> </tr> <tr> <td>Q4</td> <td></td> <td>\$166K</td> <td>6.88K</td> </tr> <tr> <td>2015 Total</td> <td></td> <td>\$591K</td> <td>25K</td> </tr> <tr> <td>▼ 2016</td> <td>Q1</td> <td>\$265K</td> <td>9.26K</td> </tr> <tr> <td>Q2</td> <td></td> <td>\$247K</td> <td>9.67K</td> </tr> <tr> <td>2016 Total</td> <td></td> <td>\$512K</td> <td>18.9K</td> </tr> <tr> <td>Grand Total</td> <td></td> <td>\$1.1M</td> <td>43.9K</td> </tr> </tbody> </table>			Grand Total				Sales	Quantity	▼ 2015	Q1	\$145K	6.73K	Q2		\$145K	5.85K	Q3		\$135K	5.55K	Q4		\$166K	6.88K	2015 Total		\$591K	25K	▼ 2016	Q1	\$265K	9.26K	Q2		\$247K	9.67K	2016 Total		\$512K	18.9K	Grand Total		\$1.1M	43.9K			Displays values from different Row dimensions in separate columns.
		Grand Total																																														
		Sales	Quantity																																													
▼ 2015	Q1	\$145K	6.73K																																													
Q2		\$145K	5.85K																																													
Q3		\$135K	5.55K																																													
Q4		\$166K	6.88K																																													
2015 Total		\$591K	25K																																													
▼ 2016	Q1	\$265K	9.26K																																													
Q2		\$247K	9.67K																																													
2016 Total		\$512K	18.9K																																													
Grand Total		\$1.1M	43.9K																																													

To change the Pivot layout, go to [Options menu](#) | **Layout** and use the **Layout** option.

Totals Visibility

You can control the visibility of totals and grand totals for the entire Pivot dashboard item. For instance, the image below displays the Pivot dashboard item with the disabled row totals.

		Grand Total	
		Sales	Quantity
▼ 2015	Q1	\$145K	6.73K
	Q2	\$145K	5.85K
	Q3	\$135K	5.55K
	Q4	\$166K	6.88K
2015 Total		\$591K	25K
▼ 2016	Q1	\$265K	9.26K
	Q2	\$247K	9.67K
2016 Total		\$512K	18.9K
Grand Total		\$1.1M	43.9K

		Grand Total	
		Sales	Quantity
▼ 2015	Q1	\$145K	6.73K
	Q2	\$145K	5.85K
	Q3	\$135K	5.55K
	Q4	\$166K	6.88K
▼ 2016	Q1	\$265K	9.26K
	Q2	\$247K	9.67K
	Grand Total		\$1.1M
		43.9K	

To manage the visibility of totals and grand totals, go to [Options menu | Layout](#) and use the following options:

- **Row Totals / Row Grand Totals**
- **Column Totals / Column Grand Totals**

Moreover, you can control the visibility of totals for individual dimensions/measures. To do this, go to [Bindings menu](#), select the required data item and use its **Options | Show Totals** option.

Totals Position

If necessary, you can change the position of totals/grand totals for the Pivot dashboard item. For instance, in the Image below the Pivot dashboard item whose row totals are moved from bottom to top.

		Grand Total	
		Sales	Quantity
▼ 2015	Q1	\$145K	6.73K
	Q2	\$145K	5.85K
	Q3	\$135K	5.55K
	Q4	\$166K	6.88K
2015 Total		\$591K	25K
▼ 2016	Q1	\$265K	9.26K
	Q2	\$247K	9.67K
2016 Total		\$512K	18.9K
Grand Total		\$1.1M	43.9K

		Grand Total	
		Sales	Quantity
Grand Total		\$1.1M	43.9K
▼ 2015 Total		\$591K	25K
2015	Q1	\$145K	6.73K
	Q2	\$145K	5.85K
	Q3	\$135K	5.55K
	Q4	\$166K	6.88K
▼ 2016 Total		\$512K	18.9K
2016	Q1	\$265K	9.26K
	Q2	\$247K	9.67K

To manage totals position, go to [Options menu | Layout](#) and use the following options:

- **Row Totals Position**
- **Column Totals Position**

Values Visibility

The Pivot dashboard item can contain several measures in the [Values](#) section. In this case, you can hide summary values corresponding to specific measures. For instance, the image below shows the Pivot with hidden *Quantity* values.

		UK		USA		Grand Total	
		Sales (Sum)	Quantity (Sum)	Sales (Sum)	Quantity (Sum)	Sales (Sum)	Quantity (Sum)
▼ 2015	Q1	\$34.3K	1.21K	\$111K	5.52K	\$145K	6.73K
	Q2	\$35.1K	1.7K	\$110K	4.15K	\$145K	5.85K
	Q3	\$40.7K	1.64K	\$93.9K	3.91K	\$135K	5.55K
	Q4	\$55.3K	1.99K	\$111K	4.89K	\$166K	6.88K
▼ 2016	Q1	\$69.1K	2.45K	\$196K	6.81K	\$265K	9.26K
	Q2	\$65.4K	2.66K	\$182K	7.01K	\$247K	9.67K



		UK	USA	Grand Total
▼ 2015	Q1	\$34.3K	\$111K	\$145K
	Q2	\$35.1K	\$110K	\$145K
	Q3	\$40.7K	\$93.9K	\$135K
	Q4	\$55.3K	\$111K	\$166K
▼ 2016	Q1	\$69.1K	\$196K	\$265K
	Q2	\$65.4K	\$182K	\$247K

To do this, go to [Bindings menu](#), select the required measure and use its **Options | Show Values** option.

Values Position

The Pivot dashboard item allows you to control the position of headers used to arrange summary values corresponding to different measures. For instance, you can display values in columns or in rows.

		Grand Total	
		Sales	Quantity
▼ 2016	Q1	\$265K	9.26K
	Q2	\$247K	9.67K
2016 Total		\$512K	18.9K
Grand Total		\$512K	18.9K



		Grand Total	
		Sales	Quantity
▼ 2016	Q1	\$265K	9.26K
	Q2	\$247K	9.67K
2016 Total		\$512K	18.9K
Grand Total		\$512K	18.9K
		Sales	Quantity

To manage this position, go to [Options menu | Layout](#) and use the **Values Position** option.

Expanded State

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Pivot](#) > [Expanded State](#)

If the [Columns or Rows](#) section contains several data items, the Pivot column and row headers are arranged in a hierarchy and make up column and row groups.

	▶ Accessories	▼ Bikes		
		Mountain-100	Mountain-200	Mountain-300
Alabama	\$192K	\$1.67M	\$831K	\$207K
Arizona	\$189K	\$1.51M	\$914K	\$207K
California	\$1.18M	\$3.62M	\$2.99M	\$959K
Colorado	\$192K	\$1.38M	\$886K	\$220K
Connecticut	\$187K	\$1.38M		
Florida	\$383K	\$1.34M		
Georgia	\$189K	\$1.3M		

COLUMNS

- Category
- Product
- Add Column

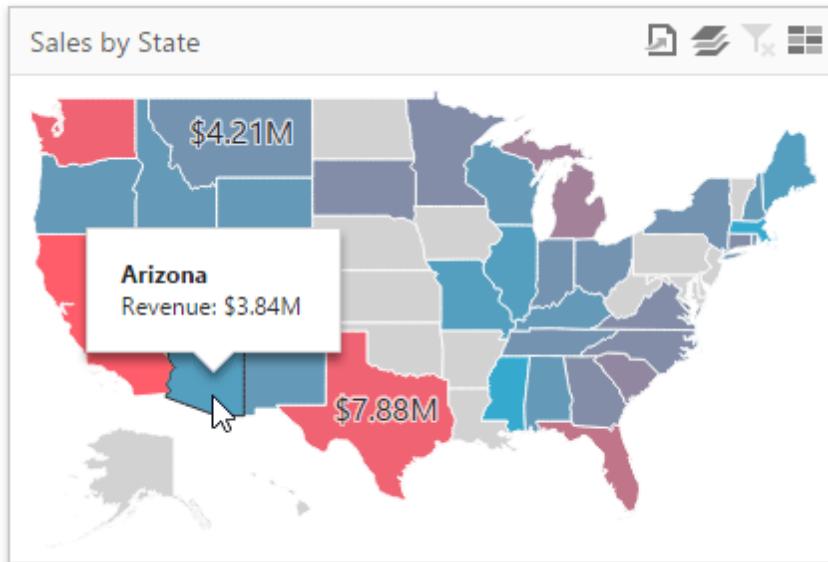
You can collapse and expand row and column groups using the ▶ and ▷ buttons. However, the current expanded state of column and row groups do not save in the dashboard definition. If necessary, you can specify the default expanded state using the following options from [Options menu | Initial State](#):

- **Auto Expanded Column Groups** - Specifies whether column groups should be collapsed or expanded by default;
- **Auto Expanded Row Groups** - Specifies whether row groups should be collapsed or expanded by default.

Choropleth Map

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Choropleth Map](#)

The topics in this section describe the features available in the Choropleth Map dashboard item, that allows you to colorize the required areas in proportion to the provided values.



This section consists of the following subsections.

- [Choropleth Map](#)
Describes how to use default dashboard maps or provide custom maps.
- [Providing Data](#)
Explains how to supply the Choropleth Map dashboard item with data.
- [Delta](#)
Details how to use delta to color the map shapes.
- [Map Navigation](#)
Explains how to manage map zooming and scrolling.
- [Interactivity](#)
Describes features that enable interaction between the Choropleth Map and other dashboard items.
- [Labels](#)
Describes how to display additional information related to map shapes.
- [Legend](#)
Explains the map legend and its options.

Providing Maps

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Choropleth Map](#) > [Providing Maps](#)

This topic describes how to use the default **In.SIST Dashboard** maps and configure their attributes.

- [Default Maps](#)
- [Custom Maps](#)
- [Map Attributes](#)

Default Maps

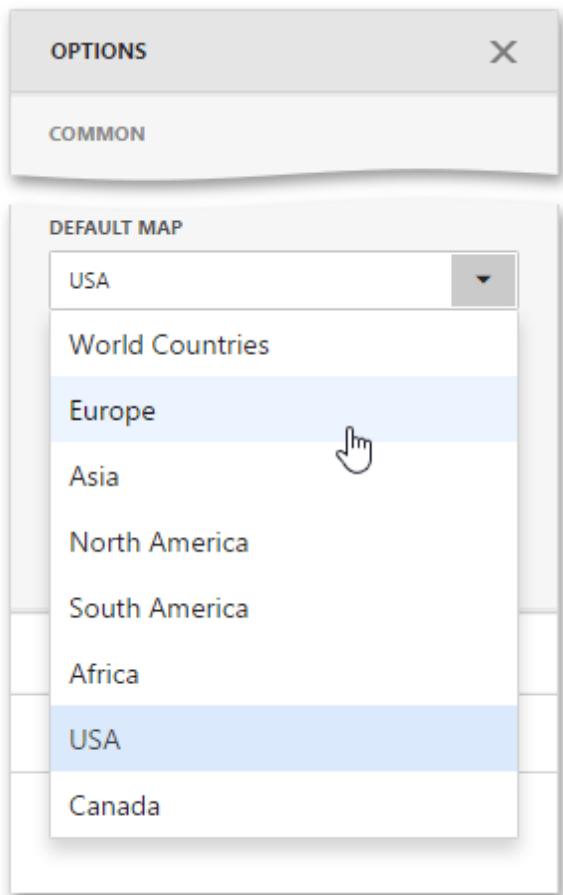
The **In.SIST Dashboard** ships with a set of default maps showing various parts of the world. The following maps are included.

- **World Countries** - a map of the world
- **Europe** - a map of Europe
- **Asia** - a map of Asia
- **North America** - a map of North America
- **South America** - a map of South America
- **Africa** - a map of Africa
- **USA** - a map of the USA
- **Canada** - a map of Canada

Note

The **World Countries** map has a lower level of detail than maps of specific regions and may not contain some of the countries. As an alternative, you can load a custom map with required granularity.

To select a required default map, go to the **Common** section of the [Options](#) menu and use the **Default Map** dropdown list.

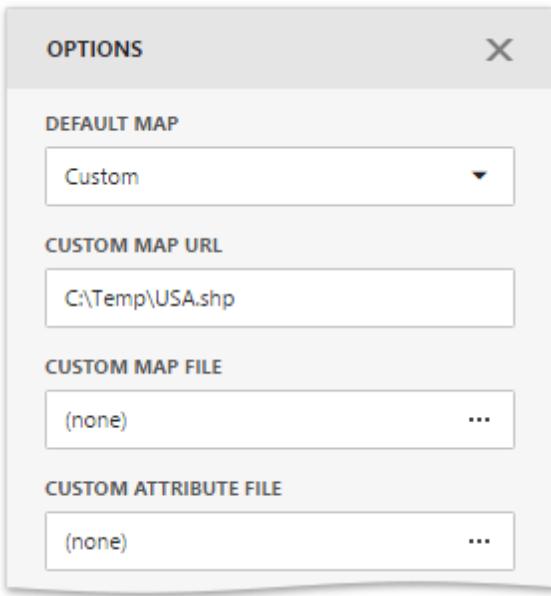


Custom Maps

The Web Dashboard uses a **Shapefile** vector format to provide custom maps. Commonly, this format includes two file types:

- **.shp file** - holds map shapes (points/lines/polygons)
- **.dbf file** - contains attributes for each shape.

To provide a custom map, go to the **Common** section of the [Options](#) menu and change the **Default Map** value to **Custom**.



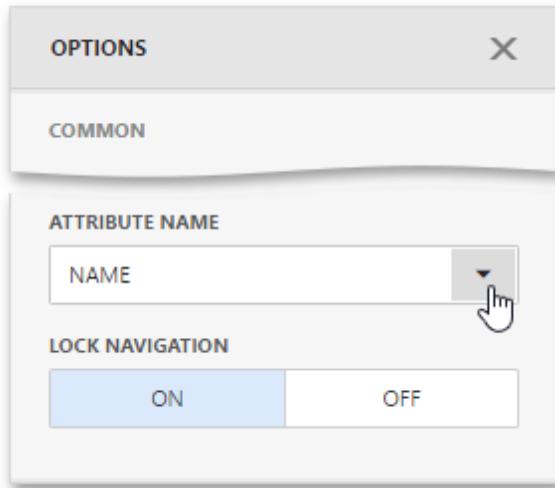
Finally, provide shape data using one of the following ways.

- Specify a path to the **.shp** file using the **Custom Map URL** option. Attributes from the corresponding **.dbf** file located in the same directory will automatically be included in the map.
- Load the existing shapefile using the ellipsis button next to the **Custom Map File** option. In the invoked dialog, locate the required **.shp** file. Use the **Custom Attribute File** option to locate the **.dbf** file containing attributes for each shape.

Note that custom maps created in the Cartesian coordinate system are not supported.

Map Attributes

After you select the default or custom map, you can display supplementary information (such as the name of a country, state, etc.). To do this, go to the [Options](#) menu and open the **Attribute Name** dropdown list.



This list displays available attributes for the current map. Each set of attribute values is related to a specific map shape.

To learn how to bind the map attribute to a data source field, see the [Providing Data](#) topic.

Providing Data

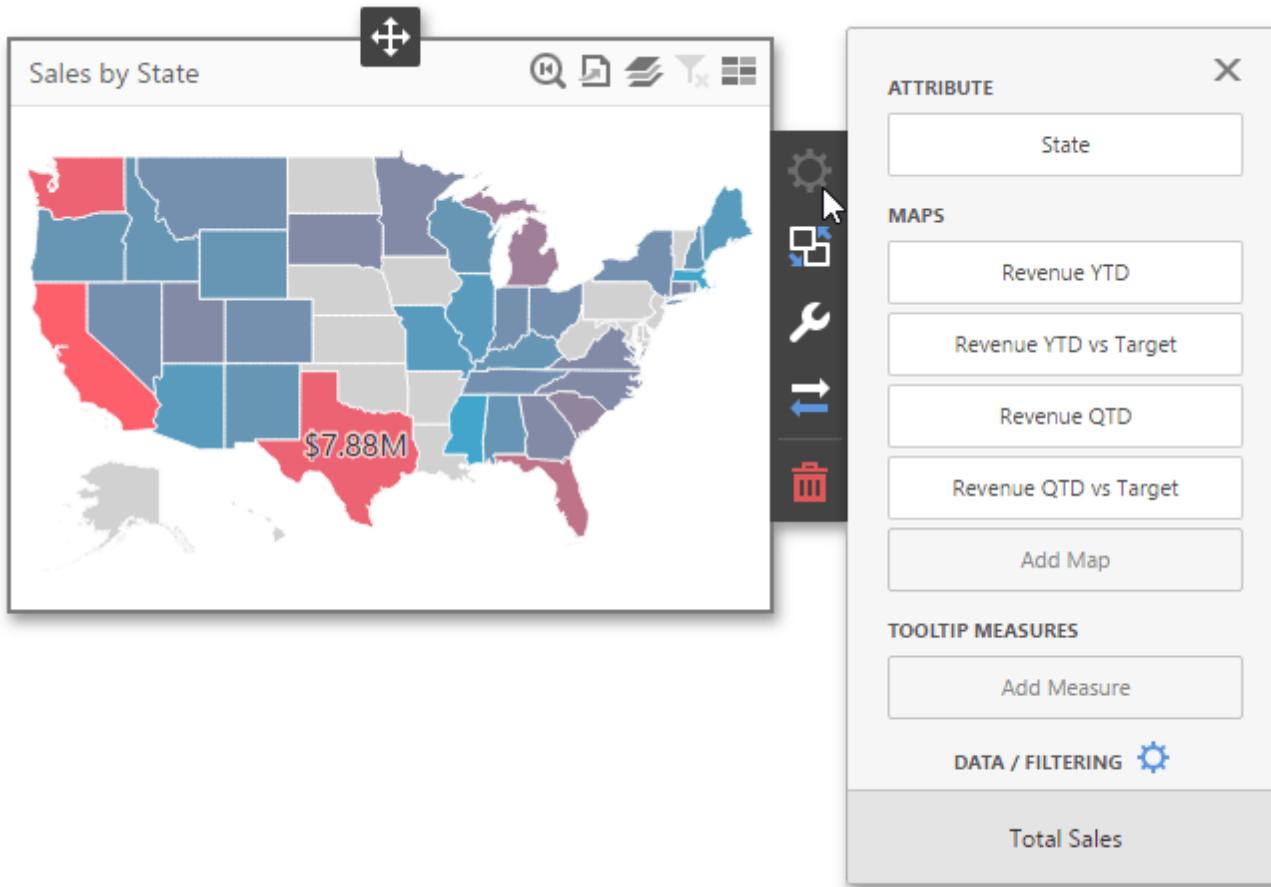
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Choropleth Map](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind a **Choropleth Map** dashboard item to data.

Binding to Data in the Web Dashboard

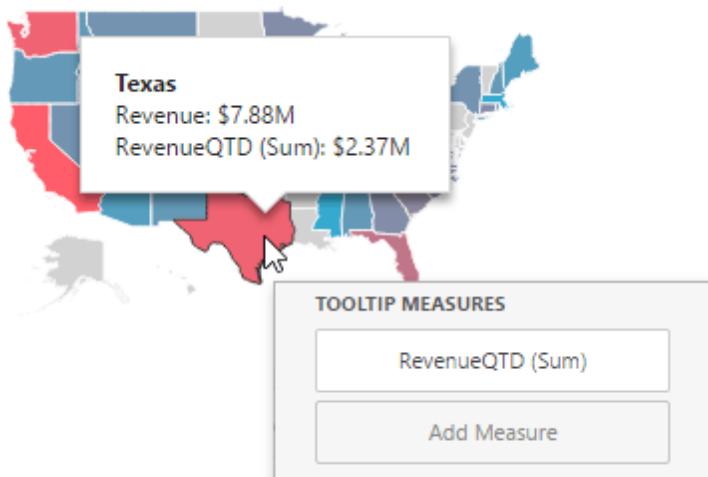
The image below shows a sample Choropleth Map dashboard item that is bound to data.



To bind the Choropleth Map dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The list below illustrates the Choropleth Map's data sections.

- **Attribute** - Processed as *Dimension* - Allows you to associate map shapes with data source field values. To learn more about attributes, see the [Map Attributes](#) section.
- **Maps** - Processed as *Measure* - Contains data items whose values are used to color map shapes. Map shape colors vary based on the map type. By default, map shapes are colored depending on the provided values. If you add an additional target value, the coloring of map shapes depends on the difference between two values called [Delta](#).
- **Tooltip Measures** - Processed as *Measure* - Allows you to add supplementary content to the tooltips. Add the required measures to provide additional data.

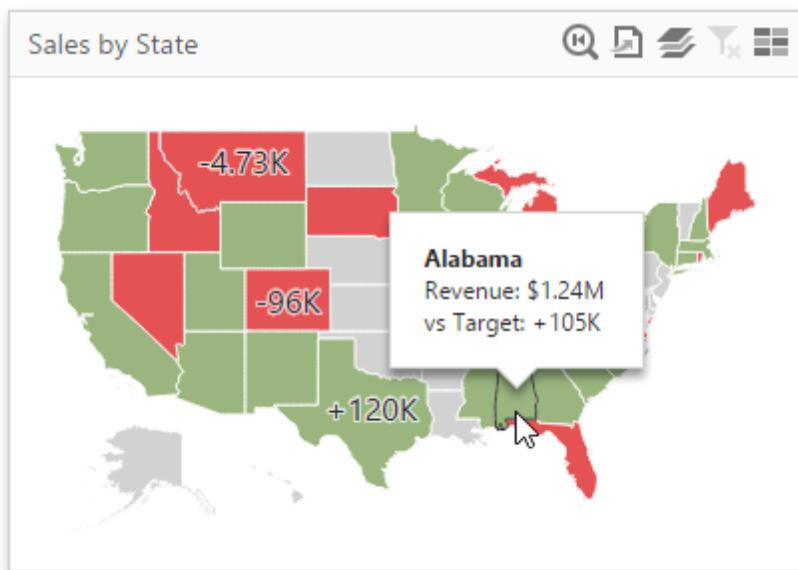


Delta

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Choropleth Map](#) > [Delta](#)

The Choropleth Map allows you to indicate the difference between the actual and target values of a particular parameter. This difference is called **delta**.

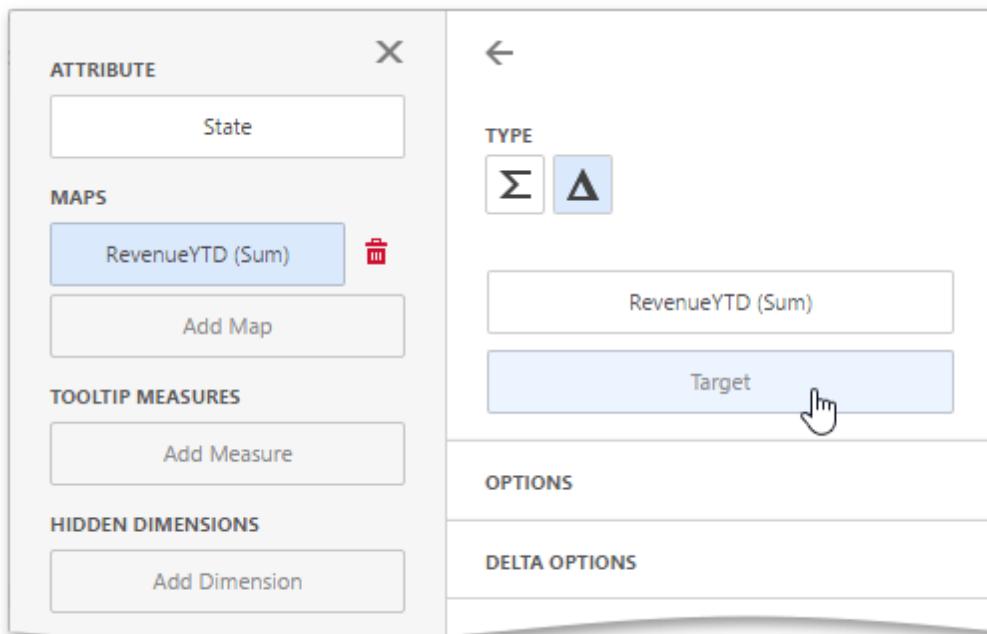
By default, map shapes are colored depending on the values provided. If you add an additional target value to create delta, the coloring of map shapes depends on the difference between two values.



Add Delta

Delta is bound to two measures that provide two values: the *Actual* value and the *Target* value. The difference between these values is displayed on the map.

When you switch the map type to *Delta*, a new **Target** data item container appears.



Click it to open the target [data item menu](#) and provide data for the target value. ©

Delta Options

To specify delta indication settings, go to the **Delta Options** section of the [data item menu](#). Here you can specify the delta display mode (e.g., value or bar), value type, result indication, comparison tolerance, etc.

The following options are available.

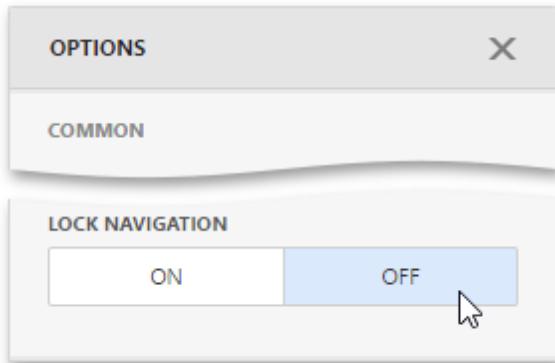
Option	Description
Value Type	Specifies which values to display within map tooltips as the delta value.
Result Indication	Specifies the condition that will be used to select the indicator color.
Threshold Type	Specifies the comparison tolerance in percentage values or in absolute values. You can specify that a required indicator should only be displayed when the difference between the actual and target values exceeds a specified value.
Threshold Value	Specifies the comparison tolerance value.

Map Navigation

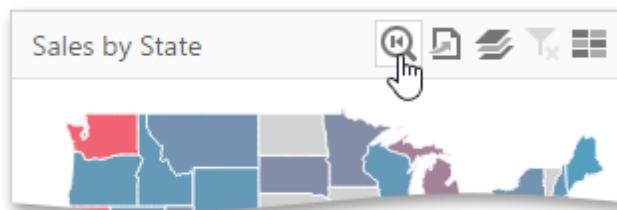
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Choropleth Map](#) > [Map Navigation](#)

The Choropleth Map dashboard item allows you to perform navigation actions such as zooming and scrolling using the mouse.

You can enable or disable the capability to scroll/zoom the map using the **Lock Navigation** setting in the Choropleth Map's [Options](#) menu.



To display the entire map within the dashboard item, use the **Initial Extent** button (the) in the Choropleth Map's [caption](#).



Interactivity

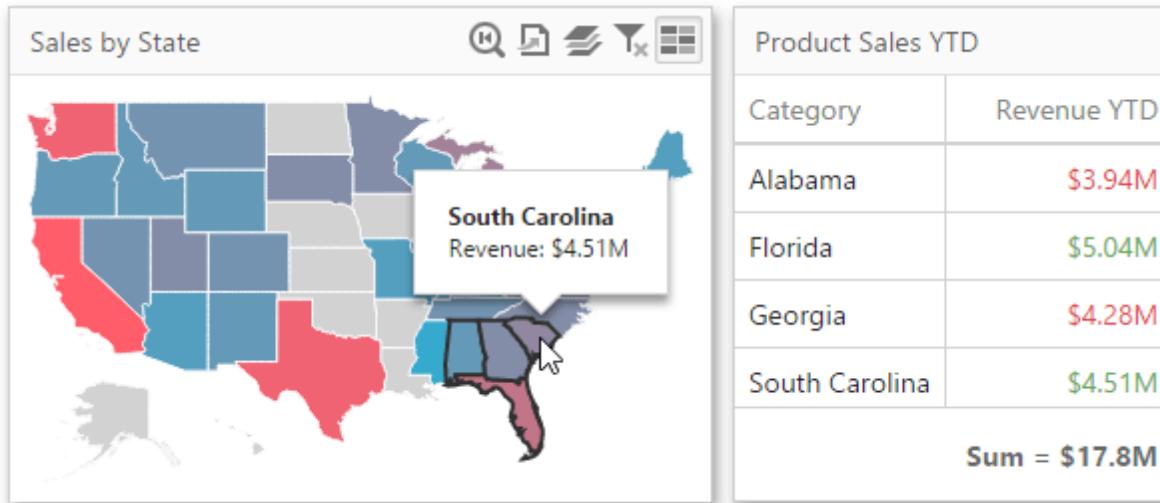
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Choropleth Map](#) > [Interactivity](#)

To enable interaction between the **Choropleth Map** and other dashboard items, you can use the interactivity features. These features include **Master Filtering**.

Master Filtering

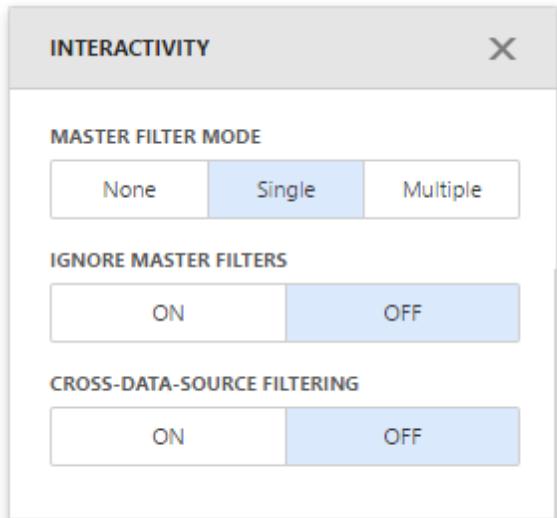
You can use the **Choropleth Map** dashboard item as a filter for other dashboard items.

The Choropleth Map dashboard item supports filtering by shapes. When Master Filtering is enabled, you can click a shape (or multiple shapes) to make other dashboard items only display data related to the selected shape(s).



To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

To enable **Master Filtering**, go to the Choropleth Map's [Interactivity](#) menu and select the required Master Filtering mode.



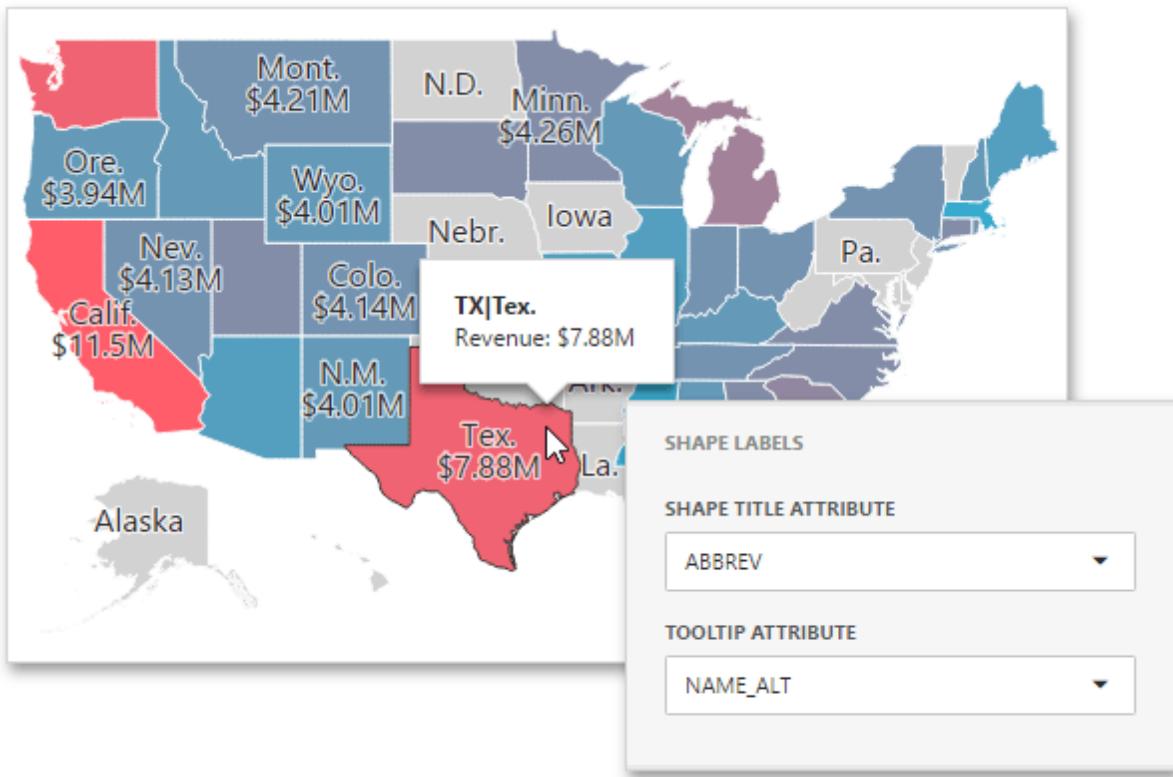
To reset filtering, use the **Clear Master Filter** button (the icon) in the Choropleth Map's [caption](#).

Labels

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Choropleth Map](#) > [Labels](#)

A Choropleth Map provides the capability to display titles within map shapes and allows you to manage what data to show in the shape tooltips.

To manage map titles and tooltips, go to the **Shape Labels** section of the Choropleth Map's [Options](#) menu.



The following settings are available.

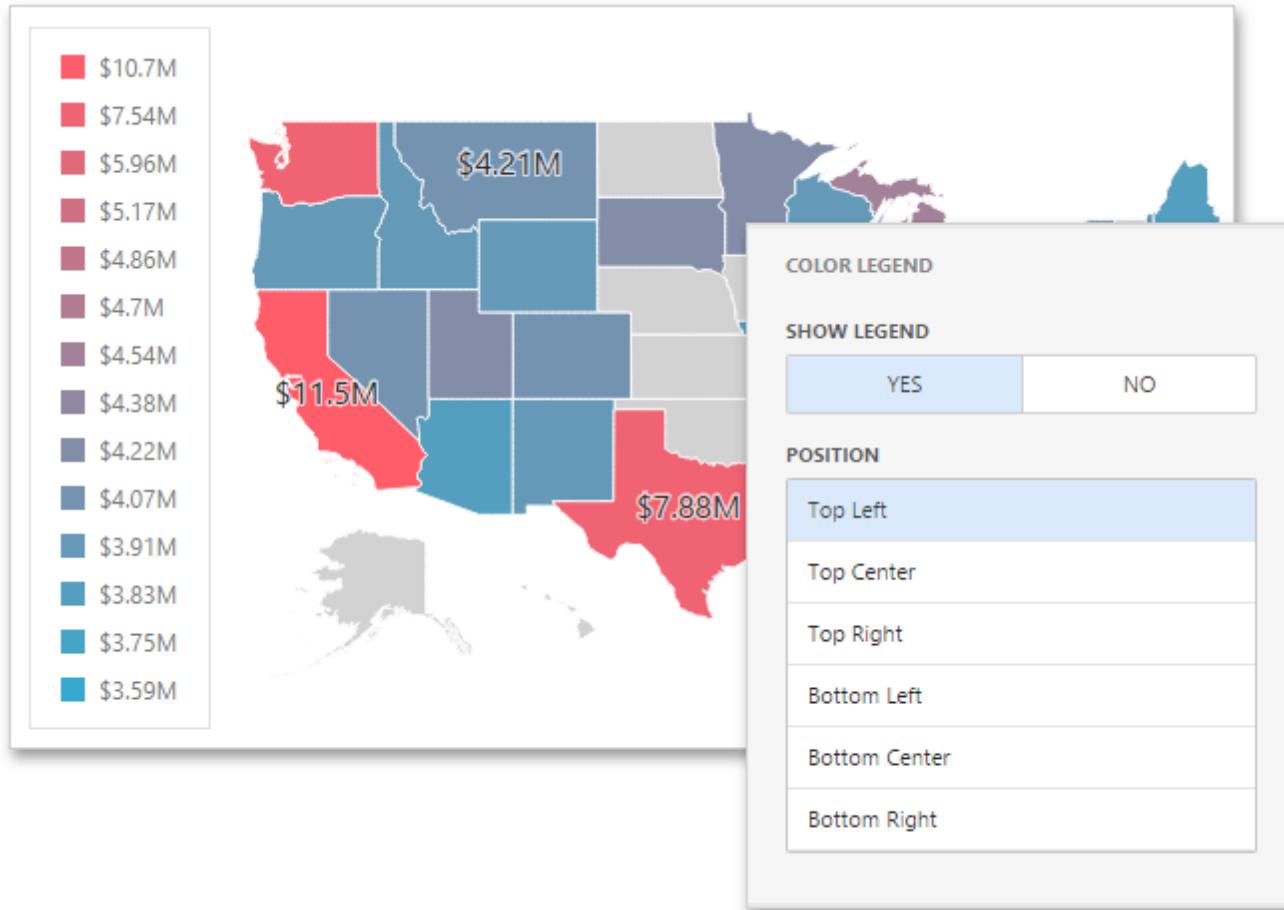
Option	Description
Shape Title Attribute	Allows you to select the attribute whose values are displayed within corresponding map shapes. Summary values are included to shape titles by default.
Tooltip Attribute	Allows you to configure information related to a hovered shape. You can choose whether to use a binding attribute to display as the title of shape tooltips (the Use binding attribute value) or specify a custom attribute from the dropdown list.

Legend

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Choropleth Map](#) > [Legend](#)

A **legend** is an element of a map that shows values corresponding to each color.

To display a legend within a map, open the Choropleth Map's [Options](#) menu and go to the **Color Legend** section.



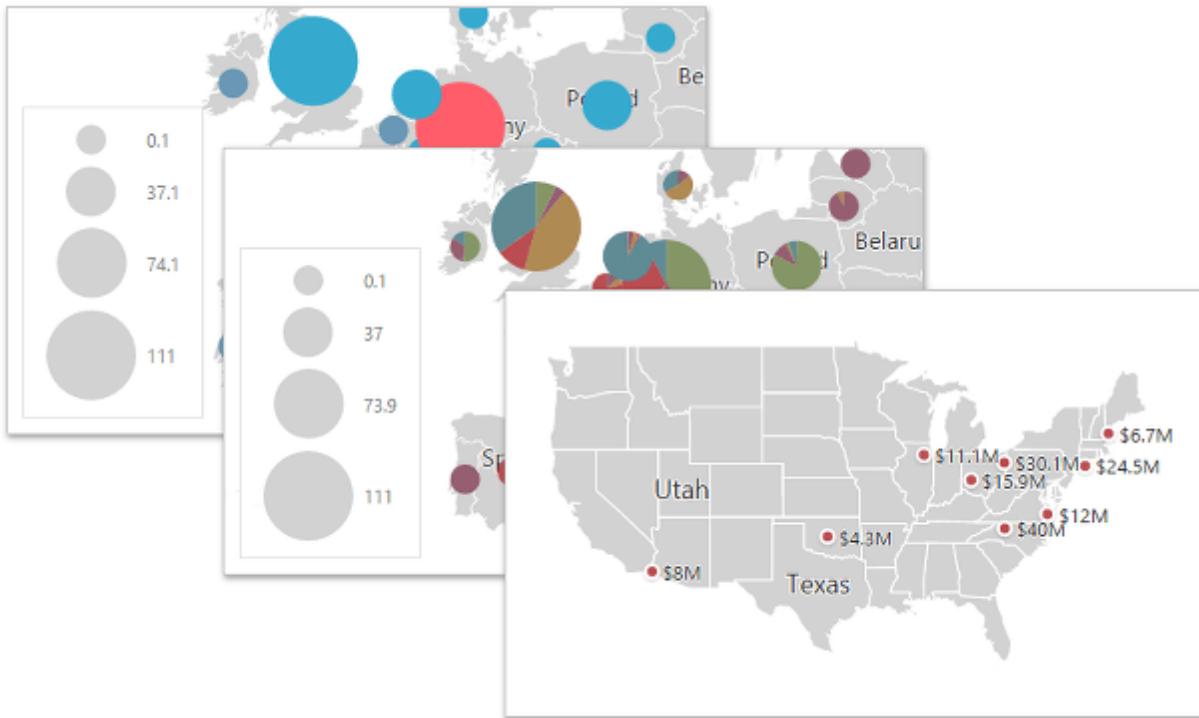
The following options are available.

Option	Description
Show Legend	Allows you to control the visibility of legend.
Position	Specifies the legend's position on a map.

Geo Point Maps

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#)

The topics in this section describe various types of **Geo Point Map** dashboard items that allow you to place callouts, bubbles or pies on the map using geographical coordinates.



This section consists of the following subsections.

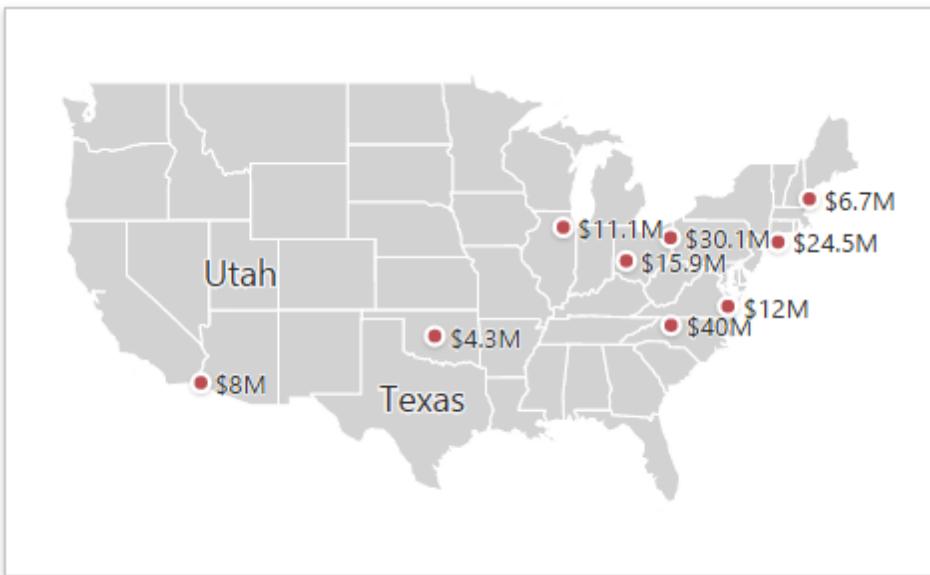
- [Map Types Overview](#)
Lists the available types of Geo Point maps and their features.
- [Providing Maps](#)
Explains how to use default dashboard maps or provide custom maps.
- [Geo Point Map | Bubble Map | Pie Map](#)
Describes specific capabilities of various Geo Point Map types.
- [Clustering](#)
Describes the feature that enables grouping of neighboring map objects.
- [Map Navigation](#)
Explains how to manage map zooming and scrolling.
- [Interactivity](#)
Describes features that enable interaction between the Geo Point maps and other dashboard items.
- [Labels](#)
Describes how to display additional information related to map shapes.

Map Types Overview

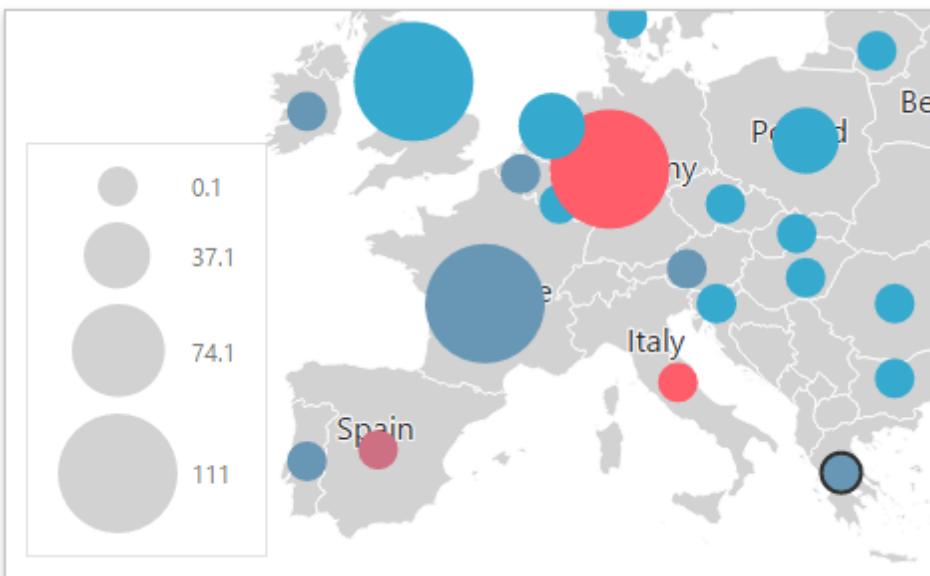
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Map Types Overview](#)

The Web Dashboard allows you to create **three types** of Geo Point maps.

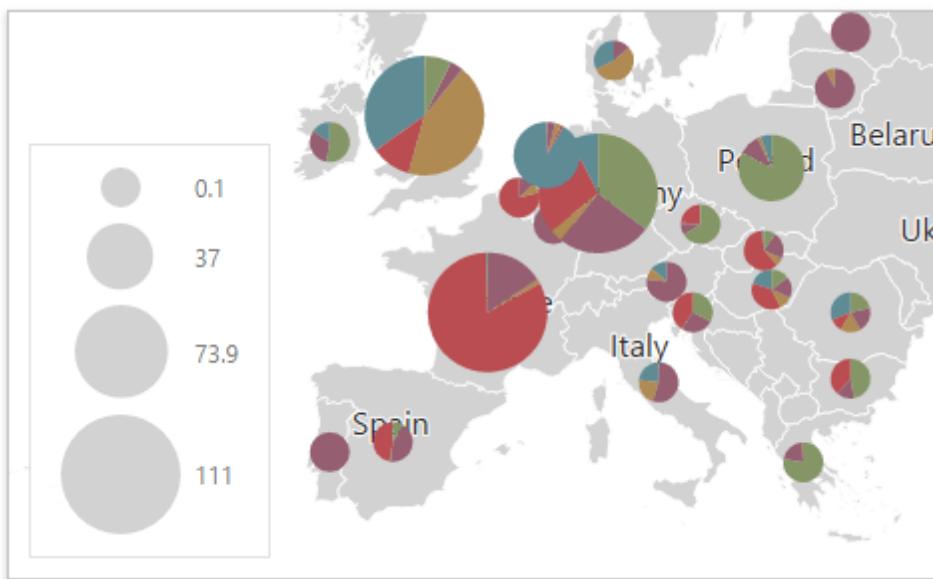
- The [Geo Point Map](#) dashboard item allows you to place callouts on the map using geographical coordinates.



- The [Bubble Map](#) dashboard item allows you to place bubbles on the map. Each bubble can represent data using its weight and color.



- The [Pie Map](#) dashboard item allows you to display pies on the map. Each pie visualizes the contribution of each value to the total.



To create the required **Geo Point Map** dashboard item, use the **Maps** section in the Toolbox.



To learn how to provide maps for Geo Point Map dashboard items, see the [Providing Maps](#) topic.

Providing Maps

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Providing Maps](#)

This topic describes how to use the default **In.SIST Dashboard** maps and configure their attributes.

- [Default Maps](#)
- [Custom Maps](#)

Default Maps

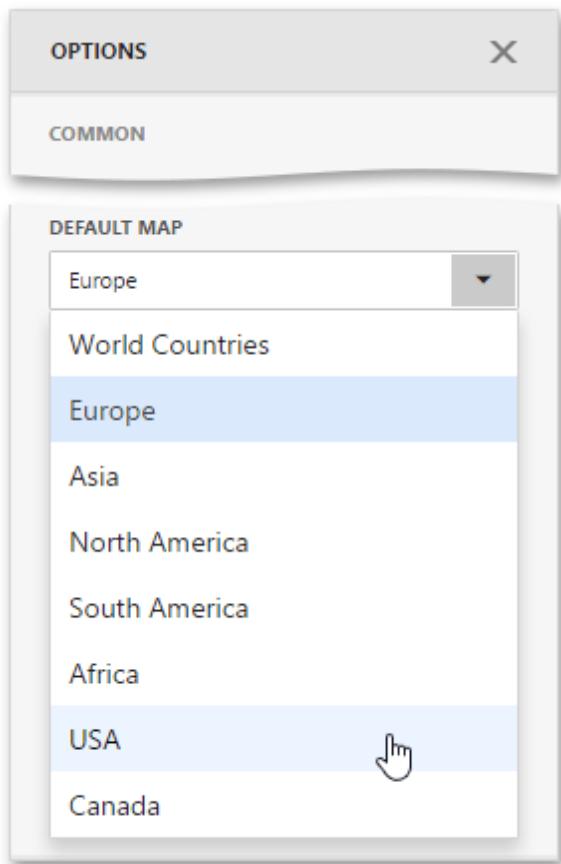
The **In.SIST Dashboard** ships with a set of default maps showing various parts of the world. The following maps are included.

- **World Countries** - a map of the world
- **Europe** - a map of Europe
- **Asia** - a map of Asia
- **North America** - a map of North America
- **South America** - a map of South America
- **Africa** - a map of Africa
- **USA** - a map of the USA
- **Canada** - a map of Canada

Note

The **World Countries** map has a lower level of detail than maps of specific regions and may not contain some of the countries. As an alternative, you can load a custom map with required granularity.

To select a required default map, go to the [Options](#) menu and use the **Default Map** dropdown list located in the **Common** section.

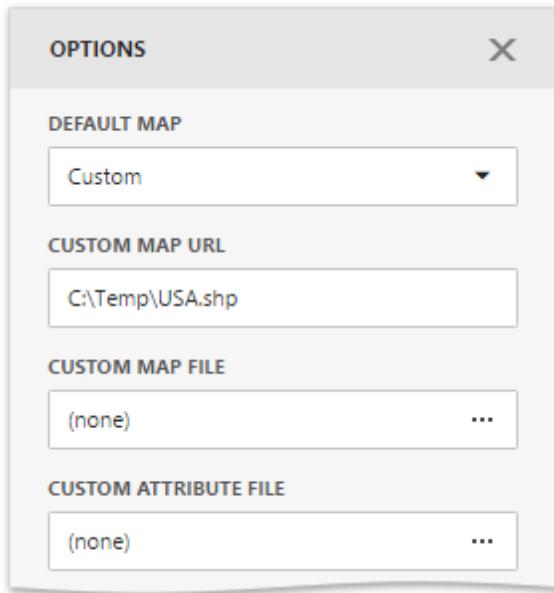


Custom Maps

The Web Dashboard uses a **Shapefile** vector format to provide custom maps. Commonly, this format includes two file types:

- **.shp file** - holds map shapes (points/lines/polygons)
- **.dbf file** - contains attributes for each shape.

To provide a custom map, go to the **Common** section of the [Options](#) menu and change the **Default Map** value to **Custom**.



Finally, provide shape data using one of the following ways.

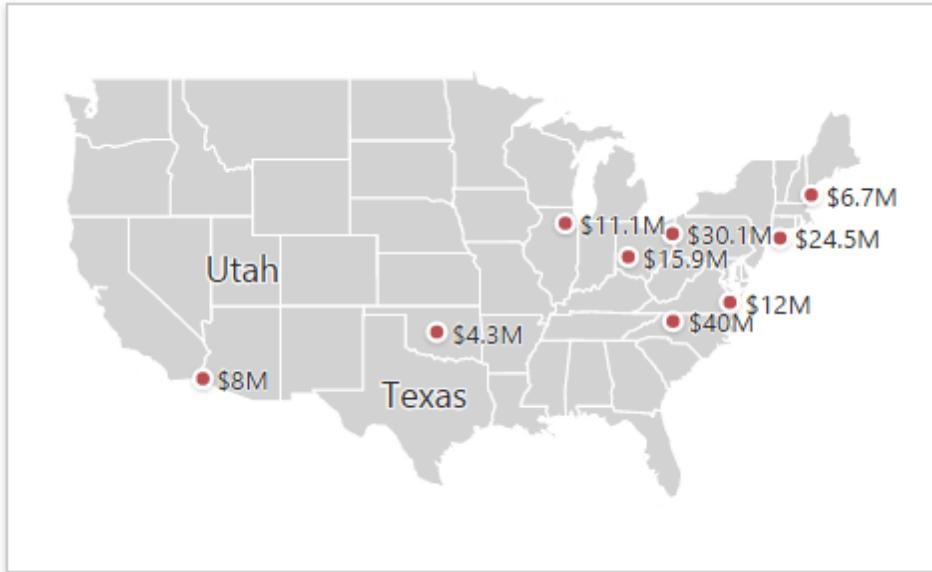
- Specify the path to the **.shp** file using the **Custom Map URL** option. Attributes from the corresponding **.dbf** file located in the same directory will automatically be included in the map.
- Load the existing shapefile using the ellipsis button next to the **Custom Map File** option. In the invoked dialog, locate the required **.shp** file. Use the **Custom Attribute File** option to locate the **.dbf** file containing attributes for each shape.

Note that custom maps created in the Cartesian coordinate system are not supported.

Geo Point Map

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Geo Point Map](#)

The **Geo Point Map** dashboard item allows you to place callouts on the map using geographical coordinates.



Topics in this section describe specific capabilities of the **Geo Point Map** dashboard item.

- [Providing Data](#)
Describes how to supply the Geo Point Map with data.

Providing Data

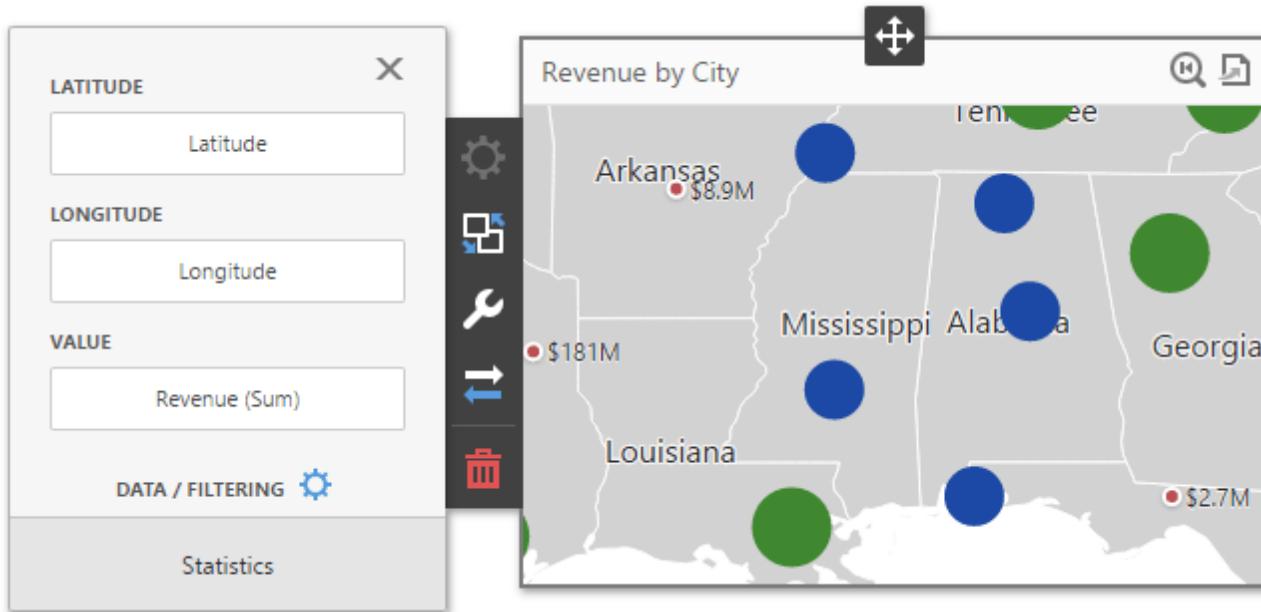
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Geo Point Map](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind the **Geo Point Map** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Geo Point Map dashboard item that is bound to data.



To bind the Geo Point Map dashboard item to data, click the placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The tables below list and describe the Geo Point Map's data sections.

Section	Processed as	Description
Latitude	Dimension	Accepts a dimension used to provide geographic latitude.
Longitude	Dimension	Accepts a dimension used to provide geographic longitude.
Value	Measure	Accepts values related to geographic points. These values are displayed within map callouts.

The Geo Point Map allows you to add supplementary content to the tooltips to provide additional data.

Section	Processed as	Description
Tooltip Dimensions	Dimension	Accepts dimensions allowing you to add supplementary content to the tooltips.

Tooltip Measures

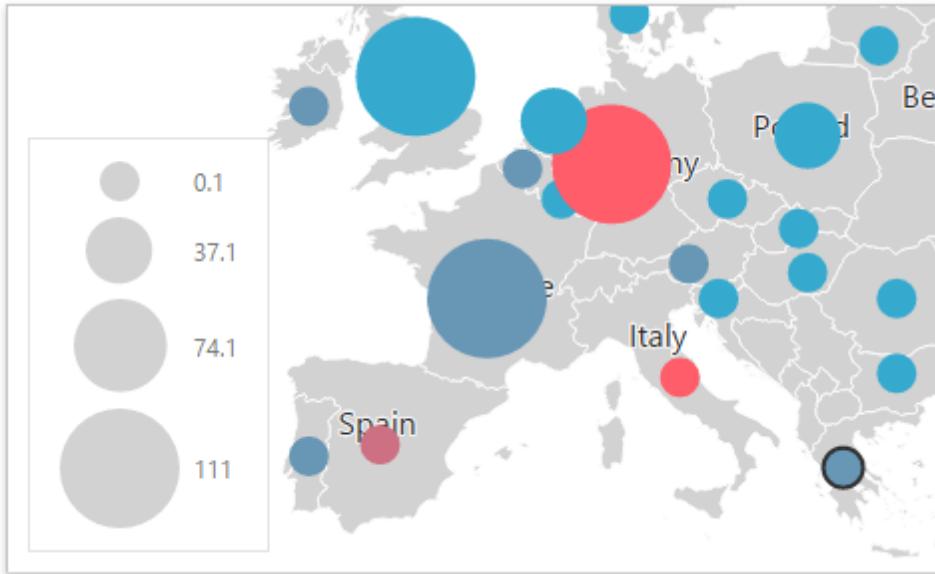
Measure

Accepts measures allowing you to add summaries to the tooltips.

Bubble Map

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Bubble Map](#)

The **Bubble Map** dashboard item allows you to place bubbles on the map. Each bubble can represent data using its weight and color.



Topics in this section describe specific capabilities of the **Bubble Map** dashboard item.

- [Providing Data](#)
Describes how to supply the Bubble Map with data.
- [Legends](#)
Describes the available Bubble Map legends and their options.

Providing Data

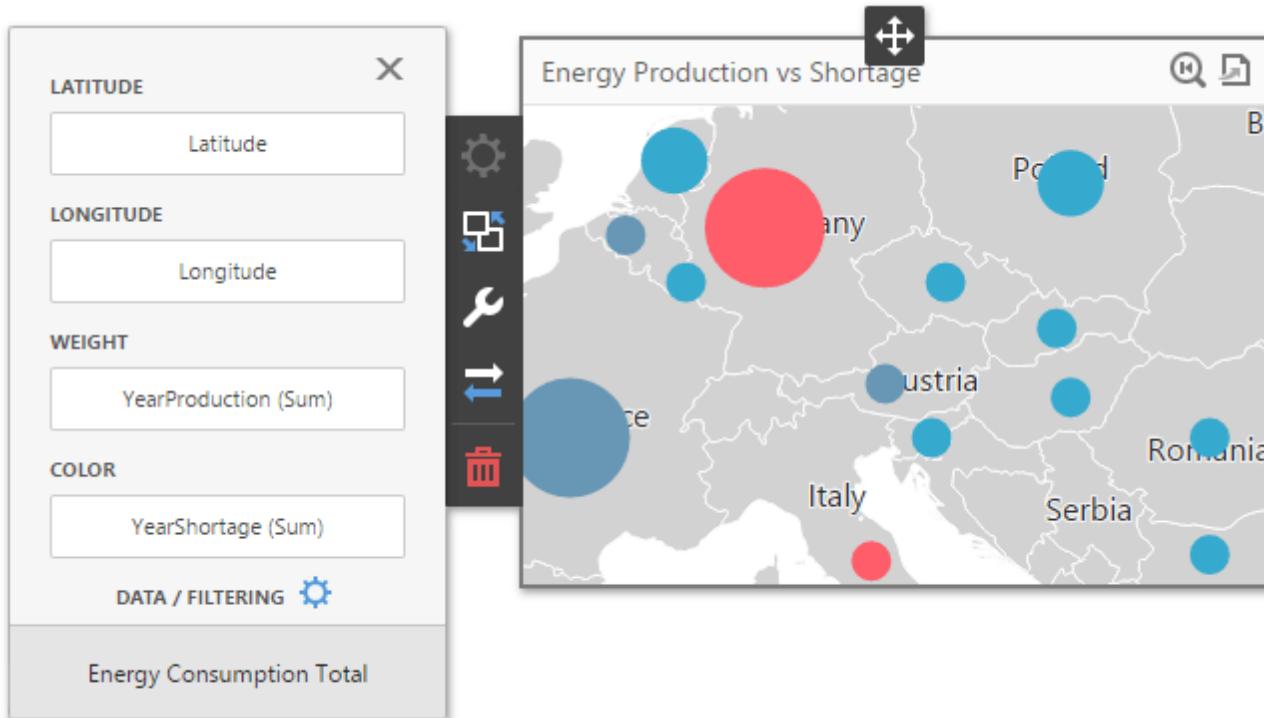
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Bubble Map](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data in the Web Dashboard](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind the **Bubble Map** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Bubble Map dashboard item that is bound to data.



To bind the Bubble Map dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The tables below list and describes Bubble Map data sections.

Section	Processed as	Description
Latitude	Dimension	Accepts a dimension used to provide geographic latitude.
Longitude	Dimension	Accepts a dimension used to provide geographic longitude.
Weight	Measure	Accepts a measure used to evaluate the bubble's weight.
Color	Measure	Accepts a measure used to evaluate the bubble's color.

The Bubble Map allows you to add supplementary content to the tooltips to provide additional data.

Section	Processed as	Description
Tooltip Dimensions	Dimension	Accepts dimensions allowing you to add supplementary content to the tooltips.
Tooltip Measures	Measure	Accepts measures allowing you to add summaries to the tooltips.

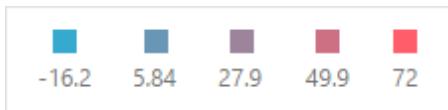
Legends

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Bubble Map](#) > [Legends](#)

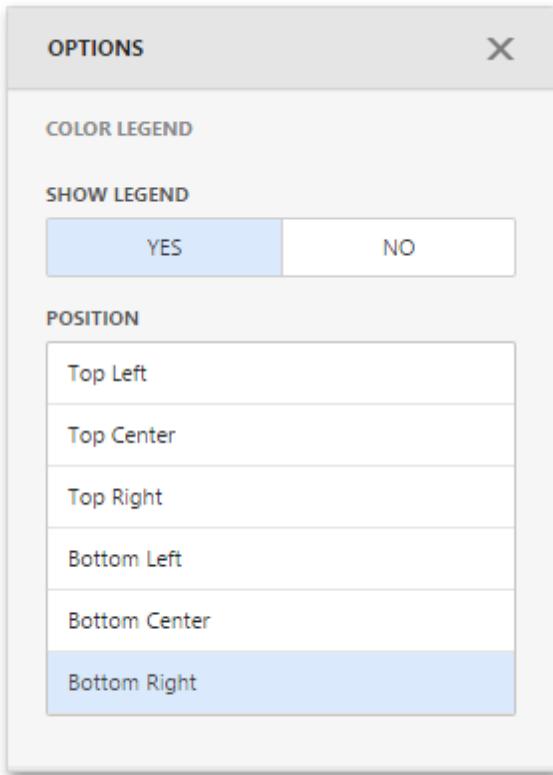
The Bubble Map provides two types of legends used to identify map objects - **color** and **weighted** legends.

Color Legend

The color legend helps you identify which colors correspond to specific values.



To specify color legend settings, go to the **Color Legend** section of the Bubble Map's **Options** menu.



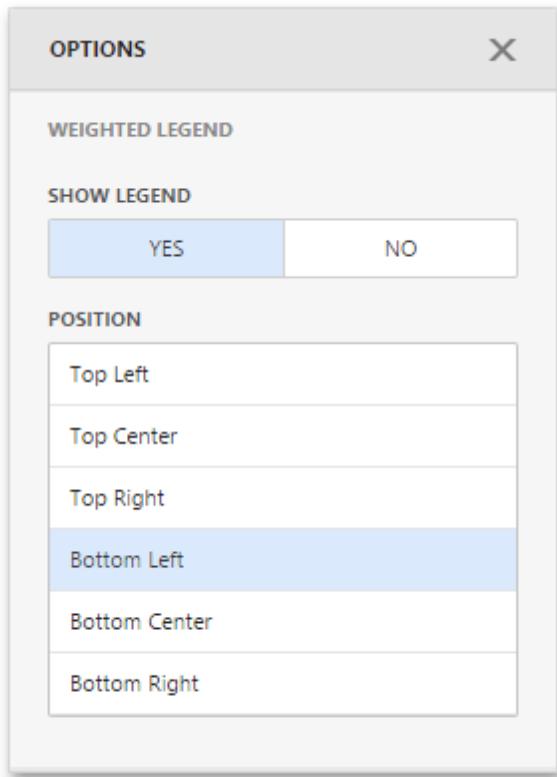
Here you can show or hide the color legend and change its position.

Weighted Legend

The weighted legend allows you to identify values corresponding to specific bubble sizes.



To specify weighted legend's settings, go to the **Weighted Legend** section of the Bubble Map's **Options** menu.

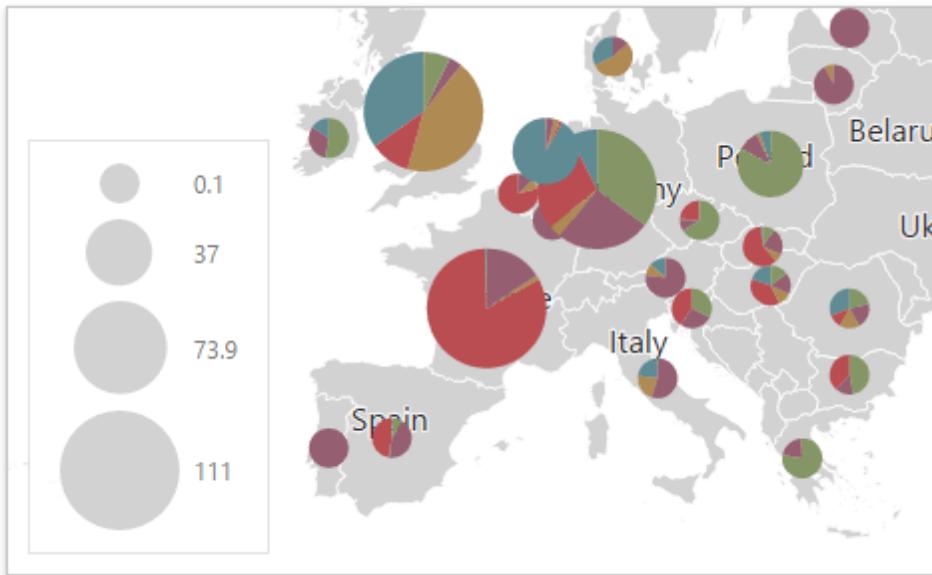


Here you can show or hide the weighted legend and change its position.

Pie Map

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Pie Map](#)

The **Pie Map** dashboard item allows you to display pies on the map. Each pie visualizes the contribution of each value to the total.



Topics in this section describe specific capabilities of the **Pie Map** dashboard item.

- [Providing Data](#)
Describes how to supply the Pie Map with data.
- [Pie Options](#)
Describes the specific options of the Pie Map dashboard item.
- [Coloring](#)
Describes the capability to manage coloring of the Pie Map.
- [Legends](#)
Describes the available Pie Map legends and their options.

Providing Data

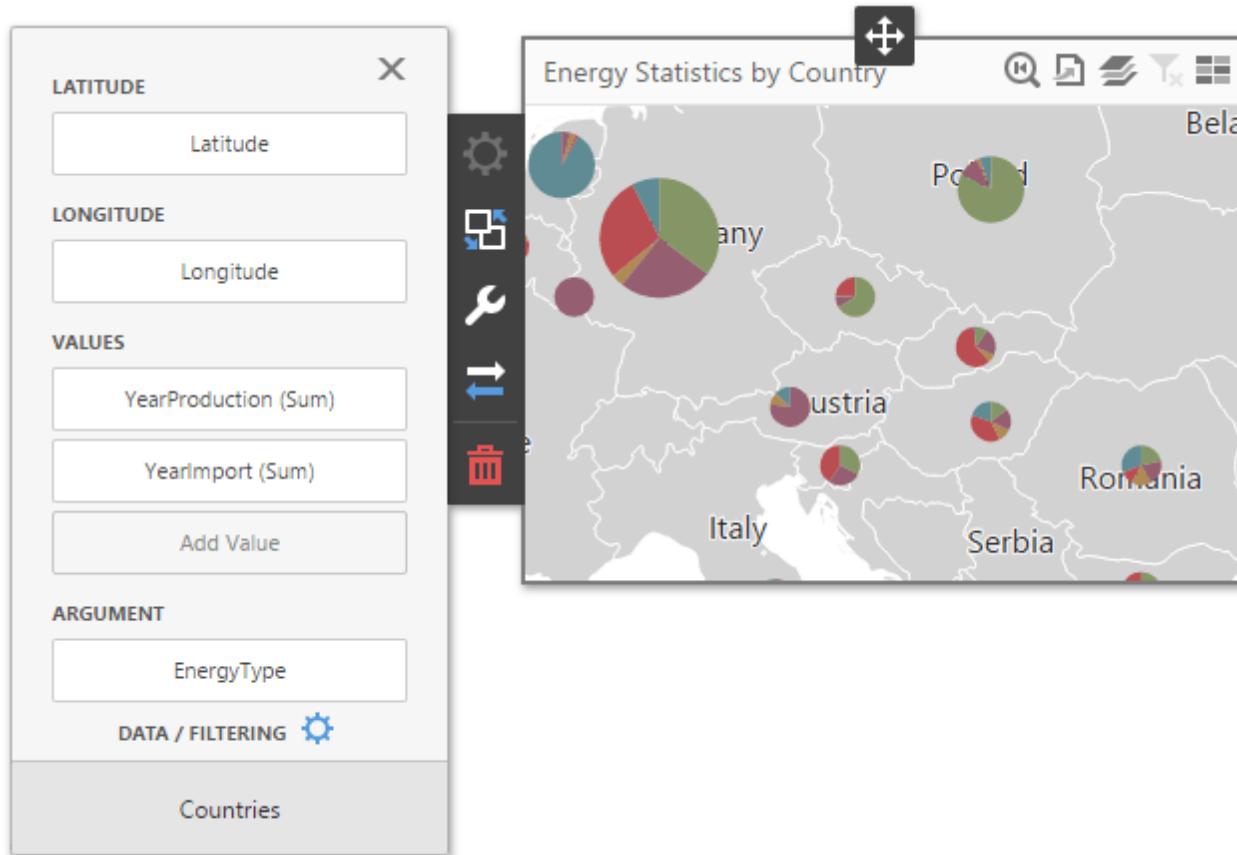
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Pie Map](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind the **Pie Map** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Pie Map dashboard item that is bound to data.



To bind the Pie Map dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The tables below list and describe the Pie Map's data sections.

Section	Processed as	Description
Latitude	Dimension	Accepts a dimension used to provide geographic latitude.
Longitude	Dimension	Accepts a dimension used to provide geographic longitude.
Values	Measure	Accepts measures used to calculate pie values.
Arguments	Measure	Allows you to provide data for pie arguments. If you added a data

		item to the Argument section and several data items to the Values section, you can use the Values drop-down menu to switch between the provided values. To invoke the Values menu, click the  icon in the dashboard item caption .
--	--	--

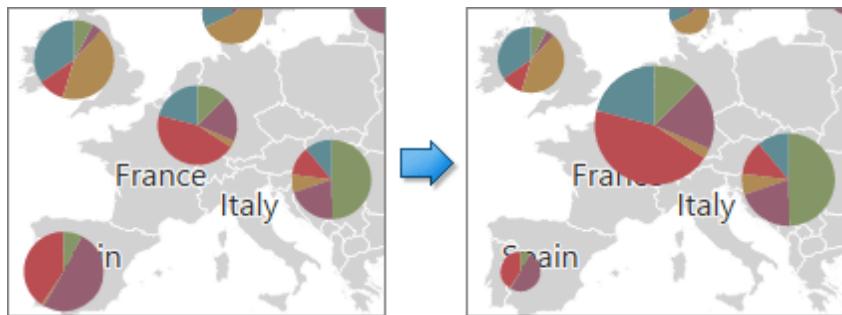
The Pie Map allows you to add supplementary content to tooltips to provide additional data.

Section	Processed as	Description
Tooltip Dimensions	Dimension	Accepts dimensions allowing you to add supplementary content to tooltips.
Tooltip Measures	Measure	Accepts measures allowing you to add summaries to tooltips.

Pie Options

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Pie Map](#) > [Pie Options](#)

The Pie Map dashboard item allows you to take into account the weight of the pies. In this case, the relative sizes of the pies depend on the corresponding summary values.



To enable this capability, go to the **Common** section of the Pie Map's [Options](#) menu and use the **Weighted Pies** option.

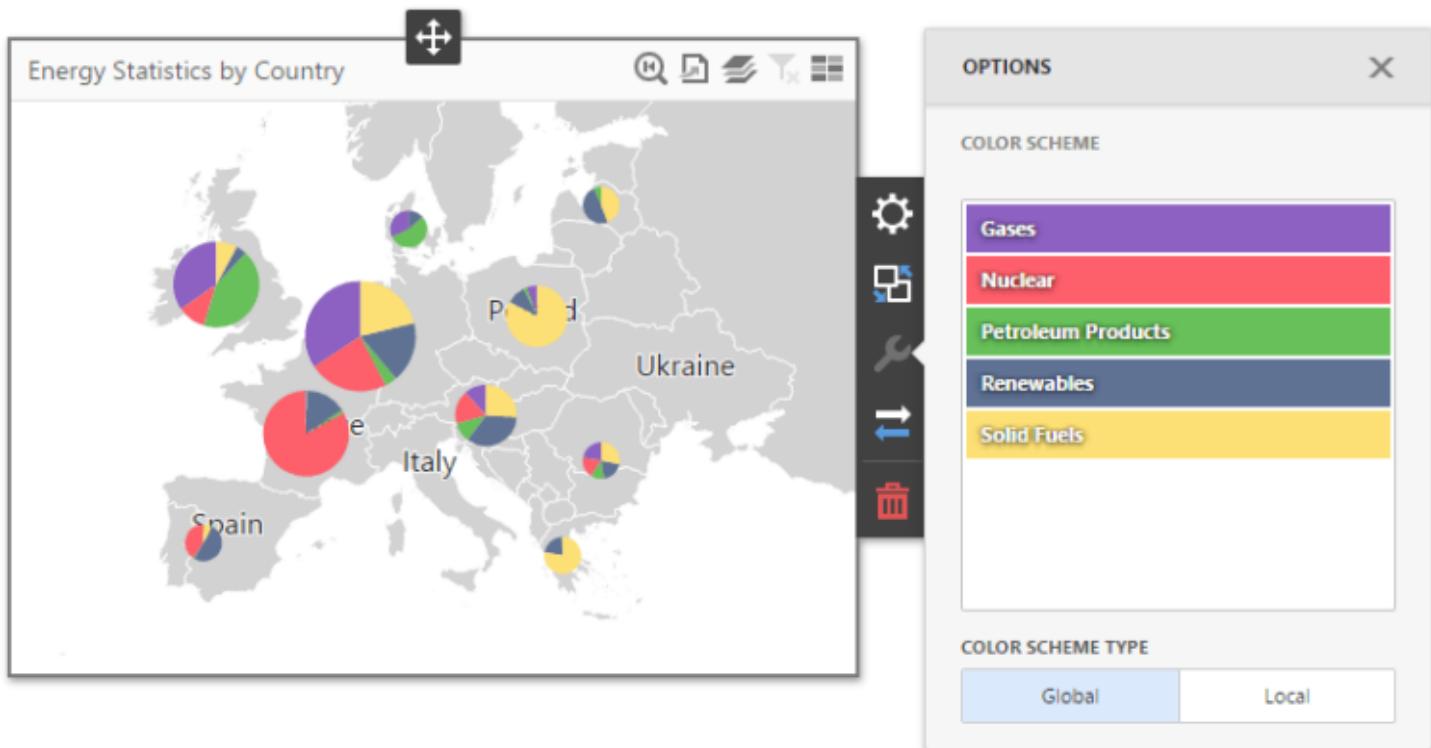


Coloring

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Pie Map](#) > [Coloring](#)

Certain dashboard items provide the capability to color dashboard item elements by associating dimension values/measures and specified colors. You can choose whether to use a global color scheme to provide consistent colors for identical values or specify a local color scheme for each dashboard item. To learn more about coloring concepts common for all dashboard items, see the [Coloring](#) section.

The Pie Map dashboard item allows you to manage the coloring of segments corresponding to various dimension values/measures. For example, the image below illustrates the Pie Map dashboard item with a custom color palette.



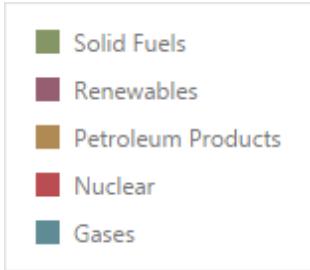
Legends

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Pie Map](#) > [Legends](#)

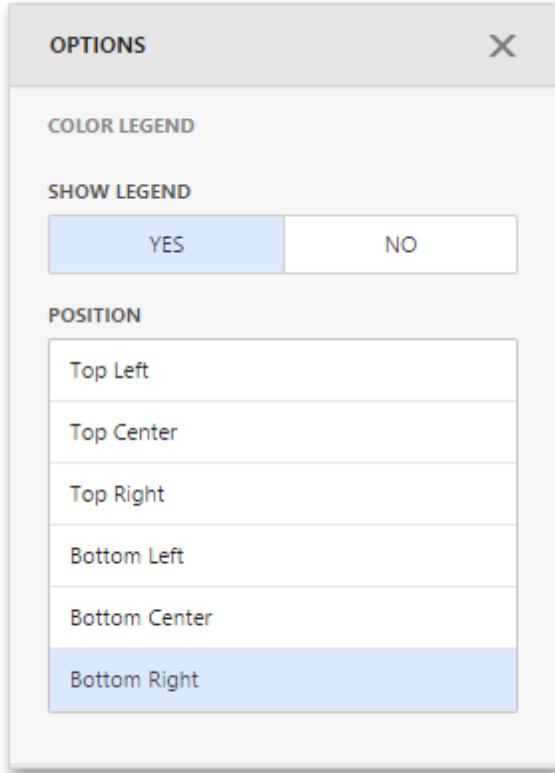
The Pie Map provides two types of legends used to identify map objects - **color** and **weighted** legends.

Color Legend

The color legend helps you identify which colors correspond to specific argument values.



To specify color legend settings, go to the **Color Legend** section of the Pie Map's [Options](#) menu.



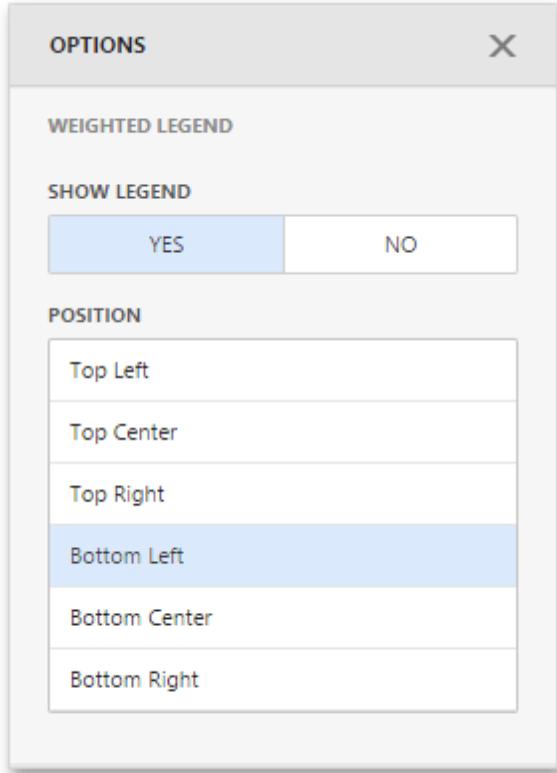
Here you can show or hide the color legend and change its position.

Weighted Legend

The weighted legend allows you to identify values corresponding to specific pie sizes.



To specify weighted legend's settings, go to the **Weighted Legend** section of the Pie Map's [Options](#) menu.



Here you can show or hide the weighted legend and change its position.

Clustering

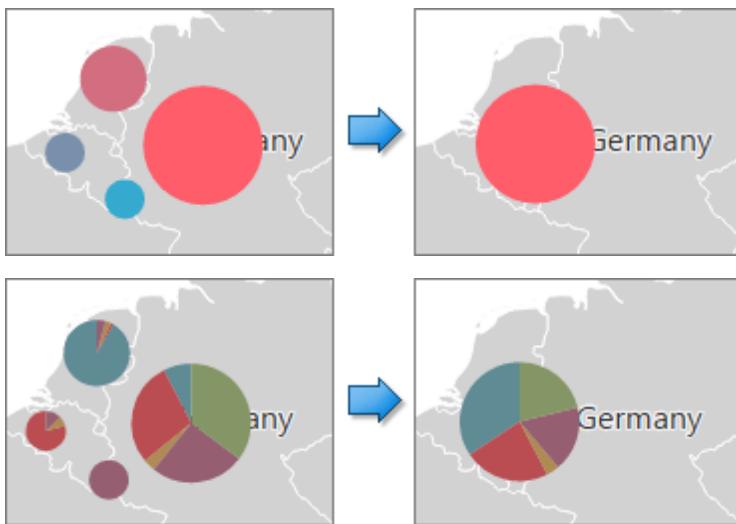
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Clustering](#)

When a Geo Point map contains a large number of objects (callouts, bubbles or pies), showing each object individually on the map is not useful. The Web Dashboard provides the capability to group neighboring map objects. This feature is called Clustering.

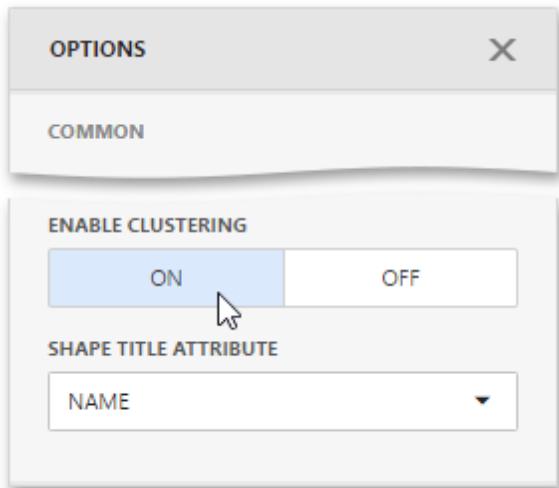
For instance, the [Geo Point Map](#) dashboard item combines callouts to bubbles.



The [Bubble Map](#) and [Pie Map](#) dashboard items cluster bubbles/pies with other bubbles/pies.



To enable clustering in the Web Dashboard, use the **Enable Clustering** option in the Geo Point Map's [Options](#) menu.

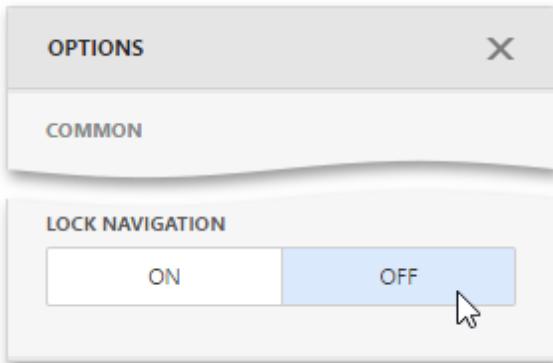


Map Navigation

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Map Navigation](#)

The Geo Point Map dashboard item allows you to perform navigation actions such as zooming and scrolling using the mouse.

You can enable or disable the capability to scroll/zoom the map using the **Lock Navigation** option in the Geo Point Map's [Options](#) menu.



To display the entire map within the dashboard item, use the **Initial Extent** button (the icon) in the Geo Point Map's [caption](#).



Interactivity

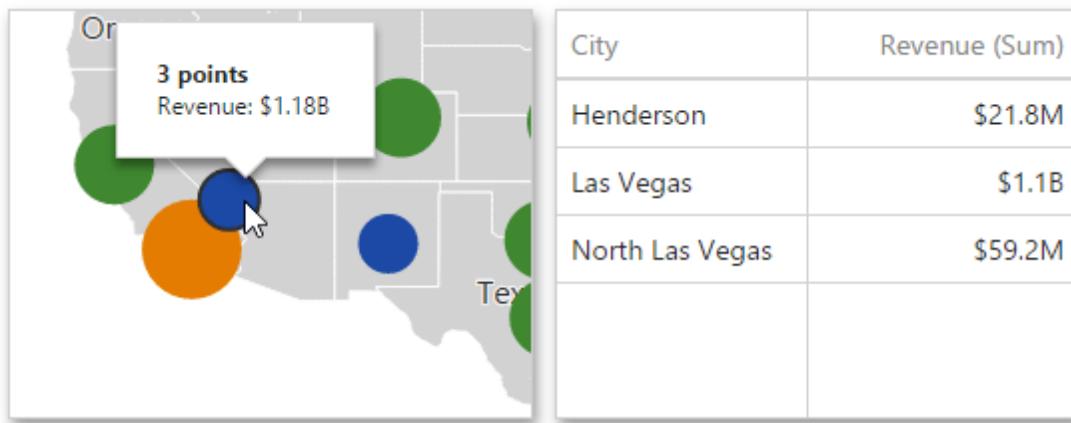
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Interactivity](#)

This document describes the capabilities that enable interaction between **Geo Point** maps and other dashboard items. These capabilities include **Master Filtering**.

Master Filtering

You can use the **Geo Point** dashboard item as a filter for other dashboard items.

The Geo Point Map dashboard item supports filtering by callout/bubble/pie. When Master Filtering is enabled, you can click a callout/bubble/pie (or multiple callouts/bubbles/pies) to make other dashboard items only display data related to the selected callout(s)/bubble(s)/pie(s).

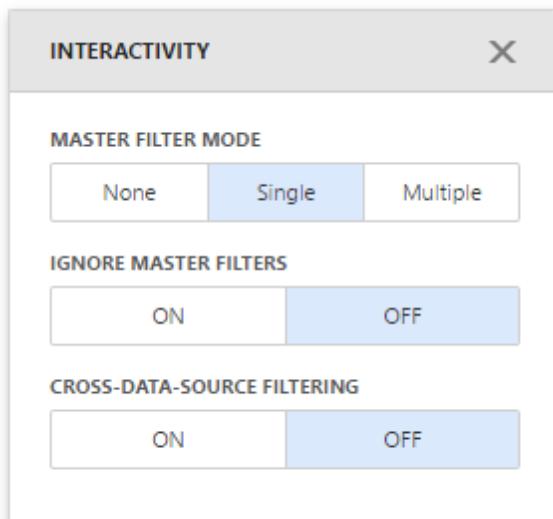


Note

When you select a clustered bubble or pie, master filtering is applied by all points that are clustered into this bubble/pie.

To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

To enable **Master Filtering**, go to the Map's [Interactivity](#) menu and select the required Master Filtering mode.



To reset filtering, use the **Clear Master Filter** button (the icon) in the Map's [caption](#).

Labels

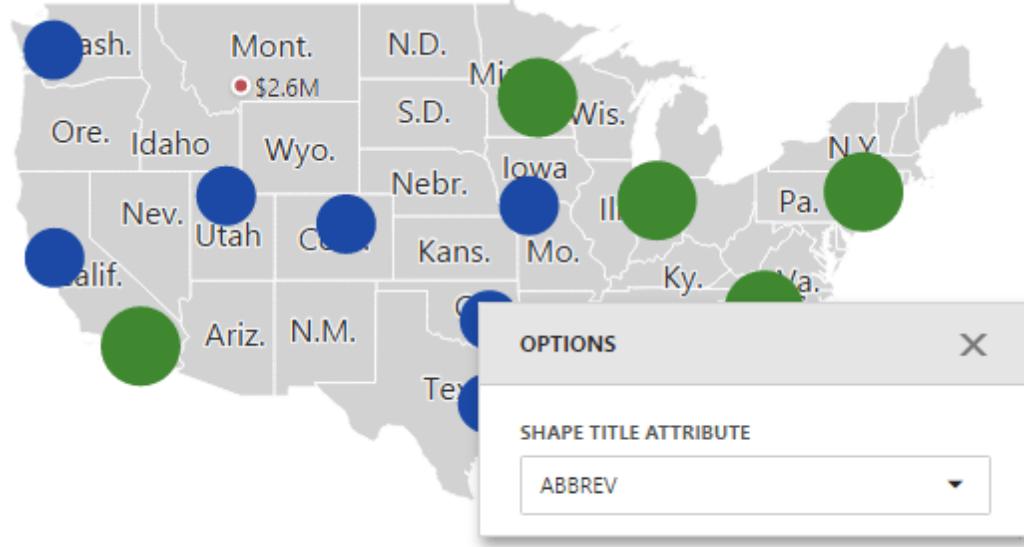
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Geo Point Maps](#) > [Labels](#)

Geo Point maps provide the capability to display titles within map shapes and allow you to add supplementary content to the callout/bubble/pie tooltips.

Shape Titles

To manage map titles, use the **Shape Title Attribute** option of the Map's [Options](#) menu.

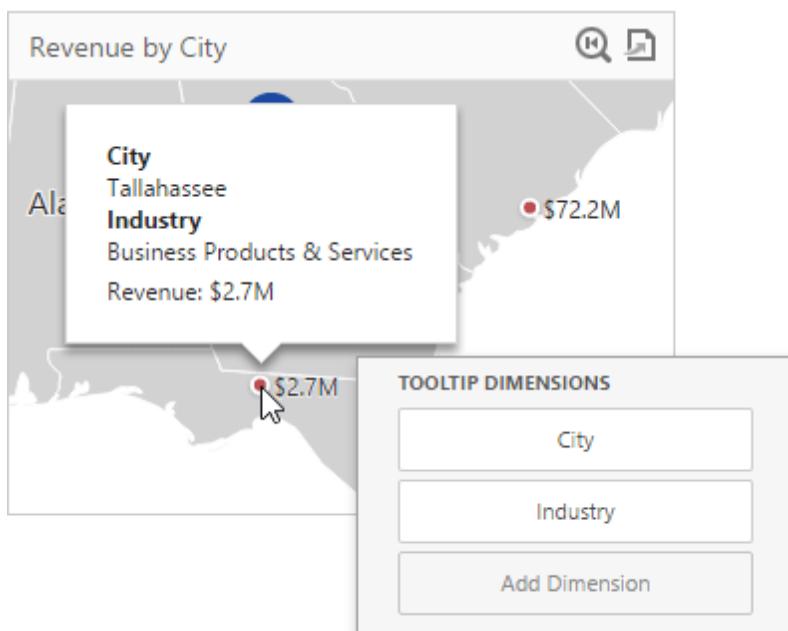
Here you can select the attribute whose values are displayed within corresponding map shapes.



Tooltips

Geo Point maps also allow you to add supplementary content to the callout/bubble/pie tooltips using the **Tooltip Measures** and **Tooltip Dimensions** data sections.

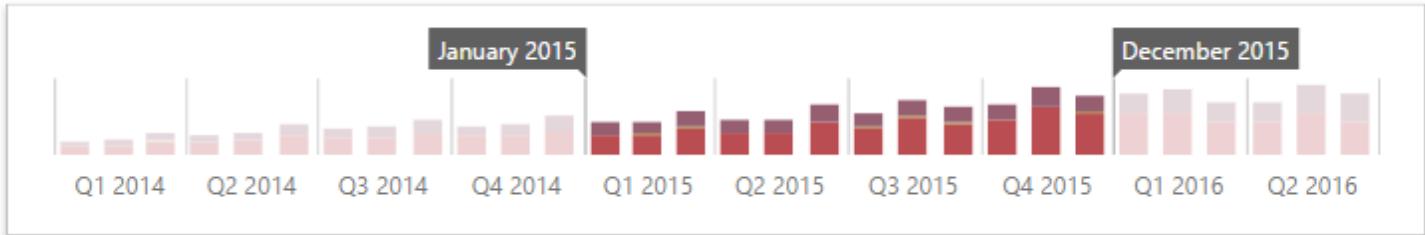
To add an additional information, click a placeholder contained in one of the available data sections and select the required measure/dimension in the **Binding** section of the [data item menu](#).



Range Filter

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Range Filter](#)

The **Range Filter** dashboard item allows you to apply filtering to other dashboard items. This item displays a chart with selection thumbs that allow you to filter out values displayed along the argument axis.



This section consists of the following subsections.

- [Providing Data](#)
Explains how to supply the Range Filter dashboard item with data.
- [Series](#)
Enumerates and describes different types of series that can be displayed within the Range Filter dashboard item.
- [Interactivity](#)
Describes features that enable interaction between the Range Filter and other dashboard items.
- [Predefined Periods](#)
Describes how to set predefined date-time periods that can be used to perform a selection.

Providing Data

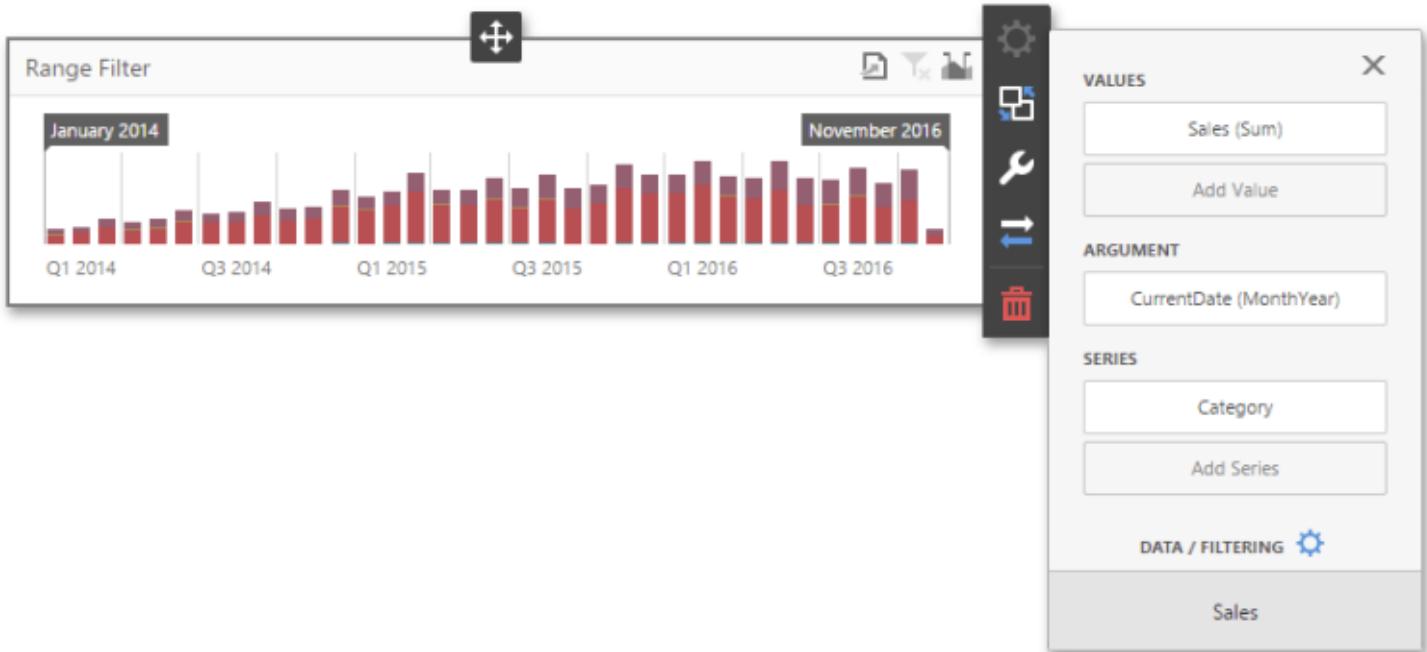
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Range Filter](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind a **Range Filter** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Range Filter dashboard item that is bound to data.



To bind the Range Filter dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The table below lists and describes the Range Filter's data sections.

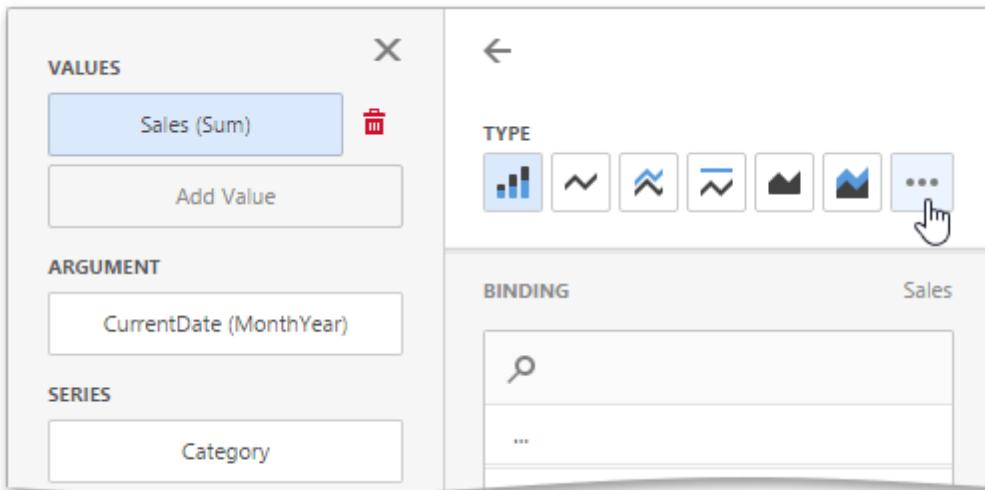
Section	Processed as	Description
Values	Measure	Contains data items against which the Y-coordinates of data points are calculated.
Arguments	Dimension	Contains data items that provide values displayed along the horizontal axis of the Range Filter. Data filtering is performed based on these values. Note that the Custom Periods section in the Options menu allows you to create predefined ranges used to select the required date-time interval.
Series	Dimension	Contains data items whose values are used to create chart series.

Series

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Range Filter](#) > [Series](#)

The Range Filter dashboard item supports various **Line**, **Area** and **Bar** series types.

To switch between series types, click the data item located in the **Values** section and select the required type from the **Type** section of the [data item menu](#). To show all available types, click the ellipsis button.



The Range Filter supports the following series types.

- Line
- Stacked Line
- Full-Stacked Line
- Area
- Stacked Area
- Full-Stacked Area
- Bar
- Stacked Bar
- Full-Stacked Bar

Interactivity

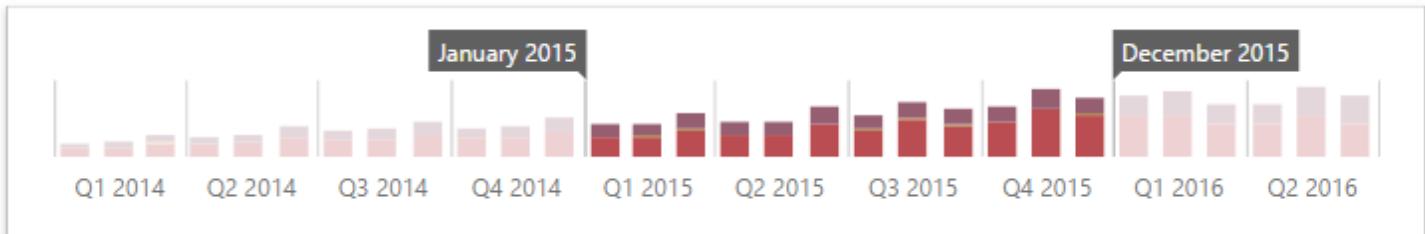
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Range Filter](#) > [Interactivity](#)

This document describes the features that enable interaction between the Range Filter and other dashboard items. These features include Master Filtering.

Master Filtering

The Dashboard allows you to use any data-aware dashboard item as a filter for other dashboard items.

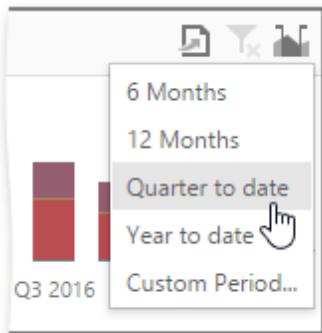
Master filtering is always enabled for the Range Filter dashboard item. The Range Filter displays a chart with selection thumbs that allow you to filter out values displayed along the argument axis.



The Range Filter supports the **Ignore Master Filters** and **Cross Data Source Filtering** options. To learn more, see the [Master Filtering](#) topic.

Predefined Periods

The Range Filter dashboard item allows you to add a number of *predefined date-time periods* that can be used to perform a selection.



To learn more about predefined periods, see [Predefined Periods](#).

Predefined Periods

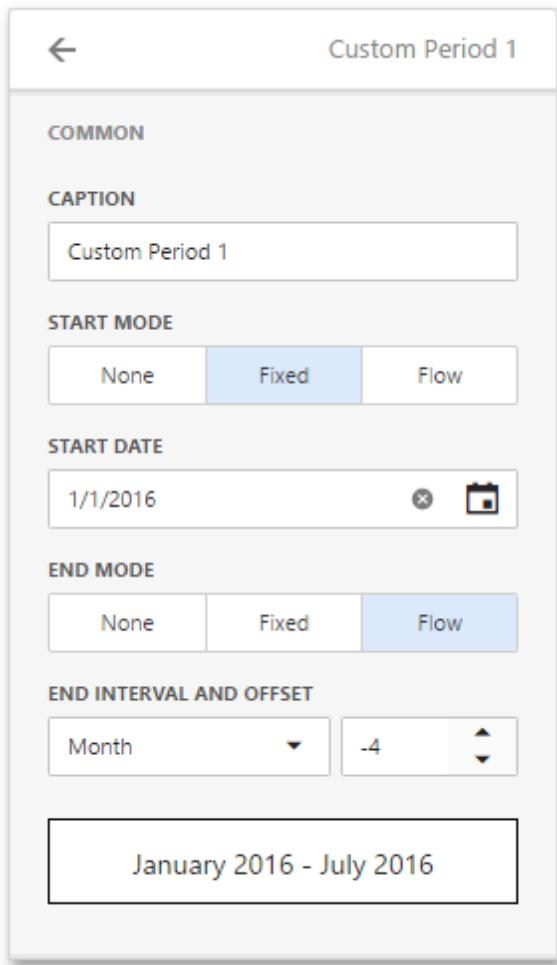
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Range Filter](#) > [Predefined Periods](#)

The Range Filter dashboard item allows you to add a number of predefined date-time periods that can be used to perform a selection (for instance, year-to-date or quarter-to-date).

- [Add Predefined Periods](#)
- [Select Predefined Periods](#)

Add Predefined Periods

To add predefined ranges, open the Range Filter's [Options](#) menu and go to the **Custom Periods** section. Click "+" to add a new period.



You can specify the following settings for the start/end boundaries.

- **Caption** - Specifies a predefined period caption.
- **Start Mode** - Specifies a mode of the start boundary.
- **End Mode** - Specifies a mode of the end boundary.

The following modes used to set predefined ranges are available.

- **None** - The selection will begin from the start/end of the visible range.
- **Fixed** - Allows you to select a specific date value using the calendar. Use the **Start/End Date** option to set a value.
- **Flow** - Allows you to select a relative date value. The **Interval** option specifies the interval between the

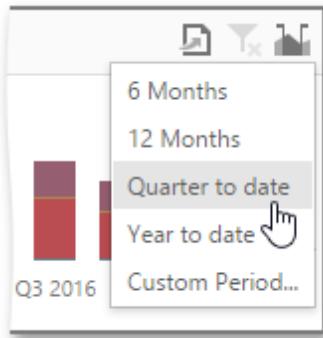
current date and the required date. The **Offset** option allows you to set the number of such intervals.



Note that the **Offset** option can accept **negative** and **positive** values. Negative values correspond to dates before the current date, while positive values correspond to future dates.

Select Predefined Periods

To select a predefined period, click the **Select Date Time Period** button (the icon) in the Range Filter's [caption](#) and select the required period from the list.



Images

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Images](#)

The Image dashboard item is used to display static images within a dashboard.



You can either add a static image or you can use the Bound Image as a detail item along with the [Master Filtering](#) feature.

- [Image Overview](#)
- [Providing Images](#)
- [Interactivity](#)
- [Image Settings](#)

Image Overview

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Images](#) > [Image Overview](#)

The Web Dashboard allows you to create two types of **Image** dashboard items.

- The **Image** dashboard item allows you to add a static image to the dashboard.



- The **Bound Image** dashboard item can be bound to a set of images (for instance, stored in the database). You can use the Bound Image as a detail item along with the [Master Filtering](#) feature.

- Beverages
- Condiments
- Confections
- Dairy Products
- Grains/Cereals
- Meat/Poultry
- Produce



To create a required Image dashboard item, use the **Image** and **Bound Image** buttons in the [Toolbox](#).

The following topics describe various Image capabilities.

- [Providing Images](#) - describes how to load images to Image dashboard items.
- [Interactivity](#) - describes interactivity settings of the Bound Image dashboard item.

- [Image Settings](#) - describes various settings related to image representation.

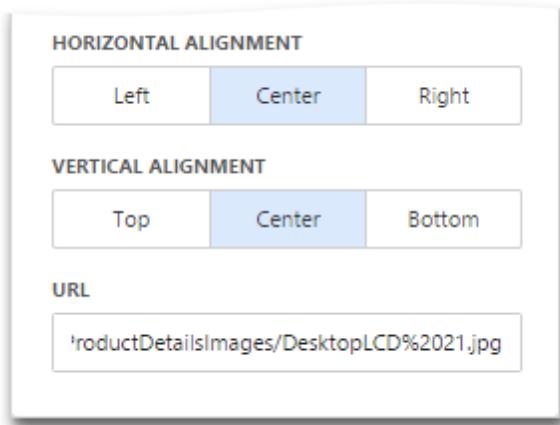
Providing Images

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Images](#) > [Providing Images](#)

This topic describes how to provide images for the **Image** and **Bound Image** dashboard items.

Provide a Static Image

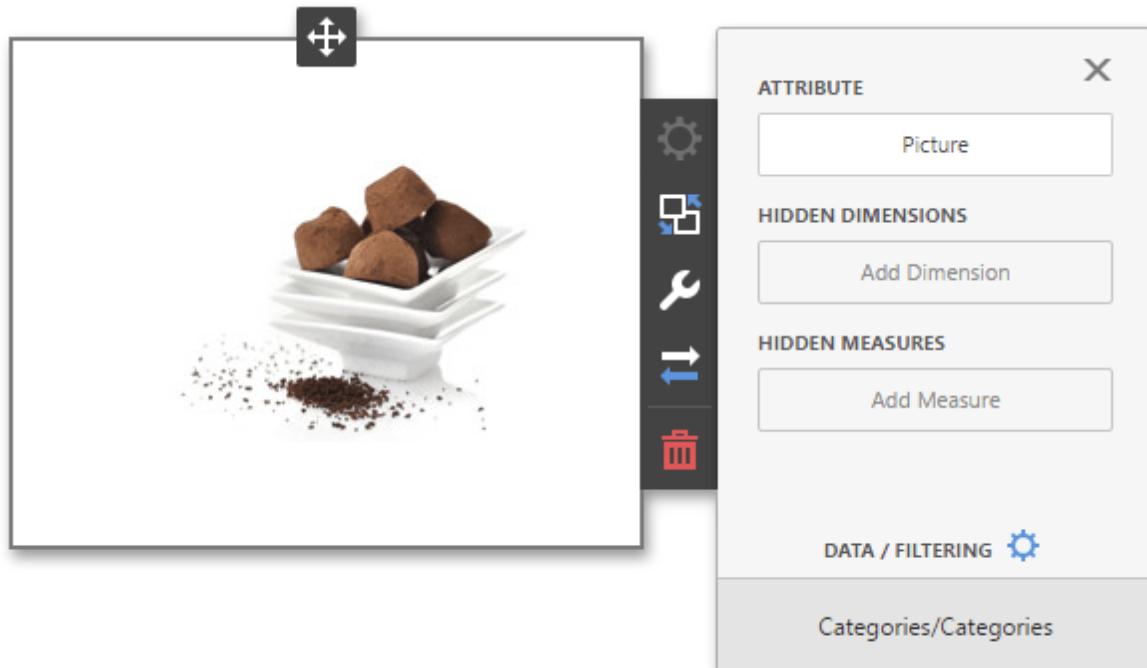
To provide an image to the Image dashboard item, open the Image's [Options](#) menu and specify the image path using **URL** option.



The URL option saves the path to the image in the [dashboard definition](#).

Provide a Set of Images

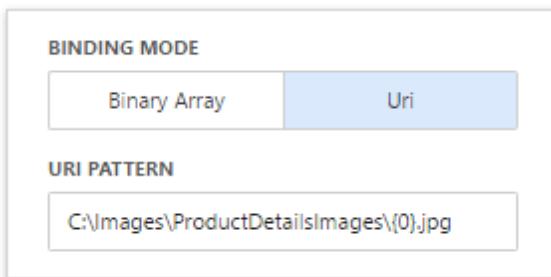
The **Bound Image** dashboard item provides the **Attribute** data section containing the corresponding placeholder.



You can specify the binding mode for the Bound Image. Go to the Bound Image's [Options](#) menu and specify the **Binding Mode**. The following options are available.

- **Binary Array** - Use this mode if images are stored in the data source as byte arrays.

- **URI** - Use this mode to locate images accessible by a predefined URI. In this case, the data source field should return strings that are parts of URIs to these images. For instance, the URI pattern in the form below specifies the path to the folder containing the required images.



C:\Images\ProductDetails\Images\{0}.jpg

Data source field values will be inserted to the position of the *{0}* placeholder. Thus, the Bound Image maps the current dimension value with the image placed at the specified URI.

Note

Note that the **Bound Image** can display only a single image simultaneously. If Master Filtering is not applied to the Bound Image, it selects the displayed image in the following ways.

- In the **Binary Array** mode, the displayed image cannot be predicted precisely as a result of sorting limitations for the image/binary data types. Use the [Master Filtering](#) feature to display the specified image.
- In the **URI** mode, the Bound Image displays an image corresponding a first attribute value taking into account the attribute's sort order.

Interactivity

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Images](#) > [Interactivity](#)

This document describes the features that enable interaction between the Bound Image and other dashboard items. These features include **Master Filtering**.

Master Filtering

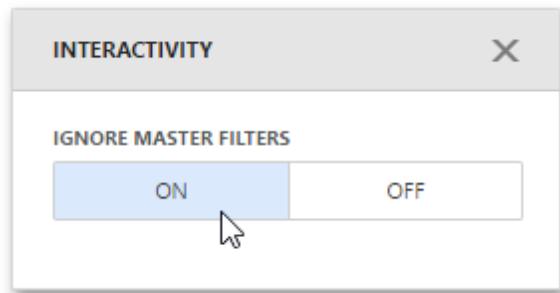
Data displayed in the Bound Image dashboard item can be filtered by other master filter items. The image below displays the Bound Image dashboard item filtered by [List Box](#).

The screenshot shows a user interface for filtering data. On the left, there is a vertical list of categories represented by radio buttons:

- Beverages
- Condiments
- Confections
- Dairy Products
- Grains/Cereals
- Meat/Poultry
- Produce

On the right, there is a large image of a mortar and pestle containing various herbs and spices, with some fresh produce like a garlic bulb and an onion nearby.

You can prevent the Bound Image from being affected by other master filter items using the **Ignore Master Filters** button in the Bound Image's [Interactivity](#) menu.



To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

Image Settings

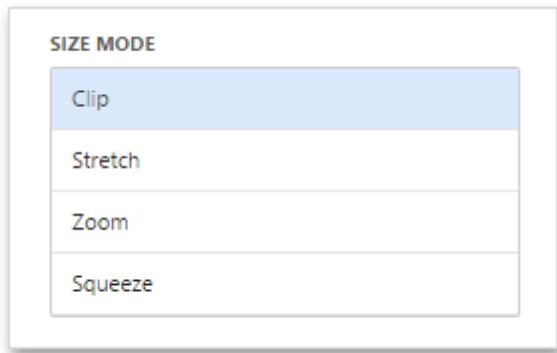
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Images](#) > [Image Settings](#)

This topic describes settings related to the representation of **Image** dashboard items.

Image Size Mode

You can specify the image size mode that defines how the image fits within the dashboard item.

To do this, go to the [Options](#) menu and select the required size mode from the list.

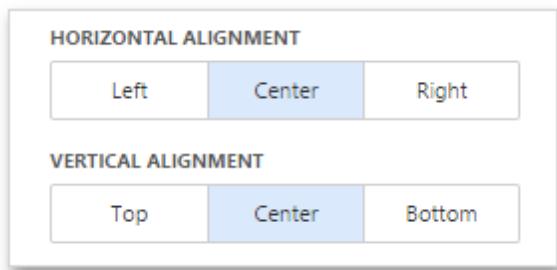


The following modes are available.

Size Mode	Description
Clip	The image is clipped if it is larger than the Image dashboard item.
Stretch	The image within the Image dashboard item is stretched or shrunk to fit the size of the Image dashboard item.
Squeeze	If the dimensions of the Image dashboard item exceed those of the image it contains, the image is shown full-size. Otherwise, the image is resized to fit the dimensions of the Image dashboard item.
Zoom	The image is sized proportionally without clipping, so that it best fits the Image dashboard item. The closest fitting side of the image (either the height or the width) will be sized to fit the dashboard item, and the remaining side (height or width) will be sized proportionally, leaving empty space.

Image Alignment

To specify how the image is aligned within the dashboard item, use the **Horizontal Alignment** and **Vertical Alignment** options in the Image's [Options](#) menu.



Text Box

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Text Box](#)

The Text Box dashboard item is used to display rich text within a dashboard.

SuperLCD 70

Production Start: 6/1/2012

Consumer Rating: 4 of 5

Retail Price: \$4K

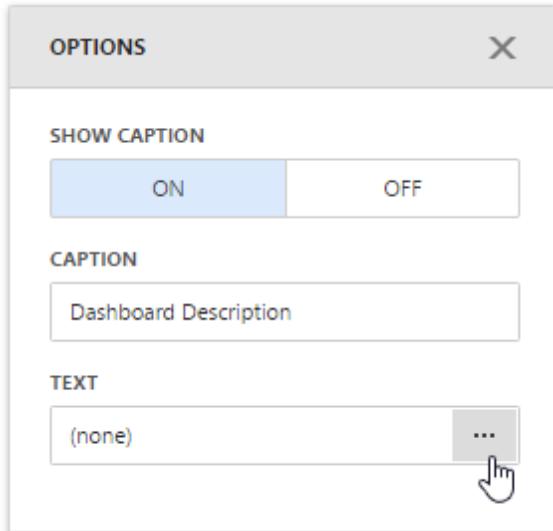
Best Sales Year: 2014

Best Sales Company: ACME

The 70" DevAV SuperLCD TV is changing the way people watch TV. It's amazing build quality and high precision design means you get the best possible picture for the best possible price. It delivers crystal-clear images with mind-blowing video. The bottom-line is simple, this TV offers 1080p Full HD output with 120Hz refresh rate. A thin frame design with super thin profile makes mounting this TV a breeze. This super-smart remote includes a built-in keypad for straightforward channel surfing. The remote is also backlit so you can easily change channels in the dark. The 70" DevAV SuperLCD TV also includes six video input options so you can display any video signal with ease.

You can provide text by uploading file in the RTF format.

To do this, go to the Text Box's [Options](#) menu and click the ellipsis button in the **Text** field.



This invokes the Open dialog, which allows you to locate the RTF file.

Treemap

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Treemap](#)

The **Treemap** dashboard item allows you to visualize data in nested rectangles that are called *tiles*.



This section consists of the following topics.

- [Providing Data](#)

Provides information on how to supply the Treemap dashboard item with data.

- [Interactivity](#)

Describes features that enable interaction between the Treemap and other dashboard items.

- [Layout](#)

Describes layout options of the Card dashboard item.

- [Grouping](#)

Describes how to group Treemap tiles into groups.

- [Coloring](#)

Provides information about coloring.

- [Labels](#)

Provides information about labels and tooltips that contain descriptions of tiles.

Providing Data

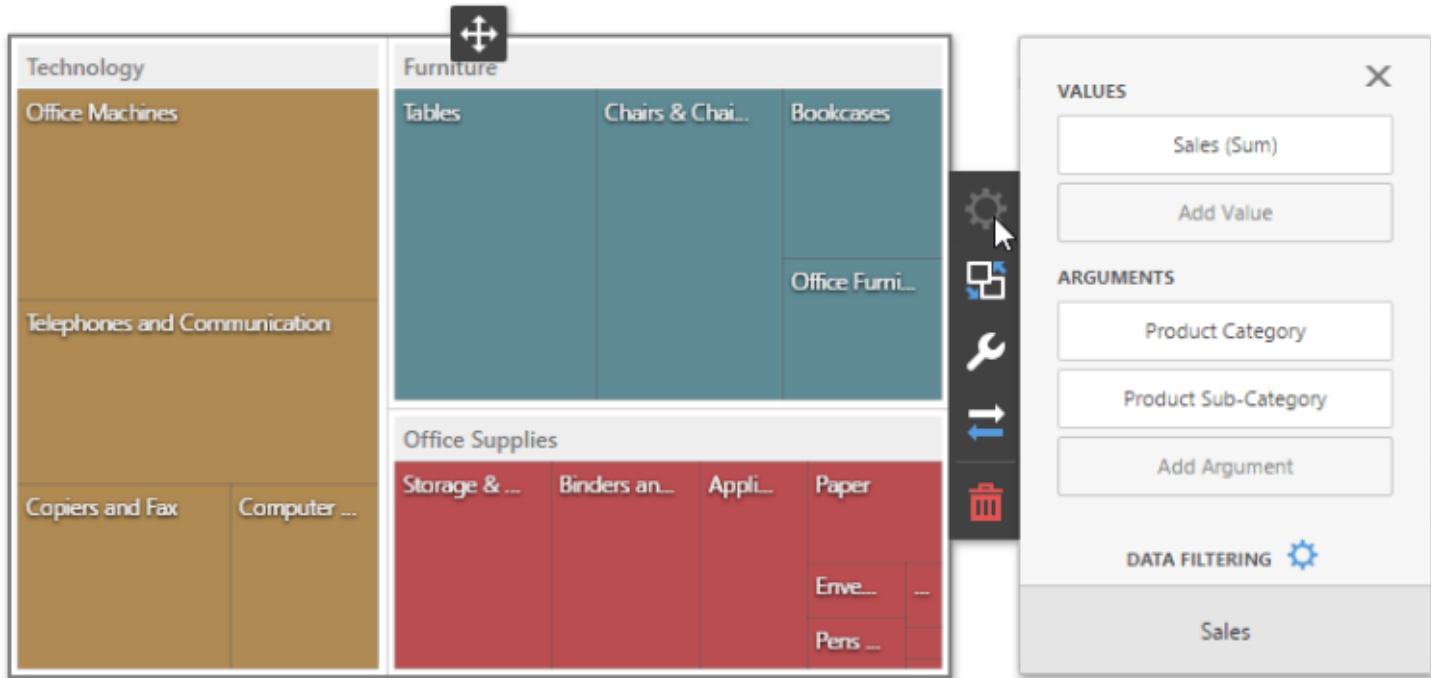
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Treemap](#) > [Providing Data](#)

The **Web Dashboard** allows you to bind various dashboard items to data in a virtually uniform manner. To learn more, see the [Binding Dashboard Items to Data](#) topic.

The only difference is in the data sections that the required dashboard item has. This topic describes how to bind a **Treemap** dashboard item to data.

Binding to Data in the Web Dashboard

The image below shows a sample Treemap dashboard item that is bound to data.



To bind the Treemap dashboard item to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

The table below lists and describes the Treemap's data sections.

Section	Processed as	Description
Values	Measure	Contains data items that provide numeric data. You can fill several data item containers in the Values section and use the Values drop-down menu to switch between the provided values. To invoke the Values menu, click the icon in the dashboard item caption .
Arguments	Dimension	Contains data items that provide discrete categorical data. If the Arguments section contains several dimensions, you can group child tiles by values of the parent dimension.

Interactivity

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Treemap](#) > [Interactivity](#)

To enable interaction between the Treemap and other dashboard items, you can use the interactivity features, as **Master Filtering** and **Drill-Down**.

- [Master Filtering](#)
- [Drill-Down](#)

Master-Filtering

The Web Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items (Master Filter). To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

The Treemap dashboard item supports filtering by tiles/[groups](#).

When **Master Filtering** is enabled, you can click a tile or group caption (or multiple tiles/groups) to make other dashboard items only display data related to the selected tile/group(s).

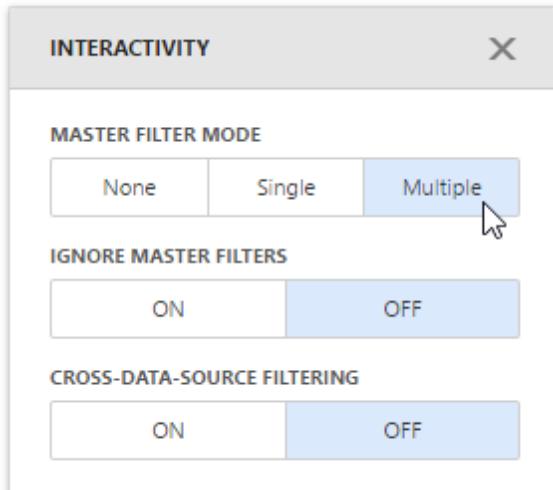
The screenshot shows a Treemap visualization on the left and a table on the right. The Treemap is divided into several colored tiles representing different categories. A cursor is hovering over a blue 'Tables' tile under the Furniture category. The table lists products and their sales figures:

Category	Product Sub-Category	Sales (Sum)
Furniture	Chairs & Chairmats	1.76M
Furniture	Tables	1.9M
Technology	Computer Peripherals	796K
Technology	Copiers and Fax	1.13M
Technology	Office Machines	2.17M
Technology	Telephones and Communication	1.89M

Note

If the Single Master Filter is used, you can select only tiles corresponding to the bottommost level.

To enable **Master Filtering**, go to the Treemap's [Interactivity](#) menu and select the required Master Filtering mode.

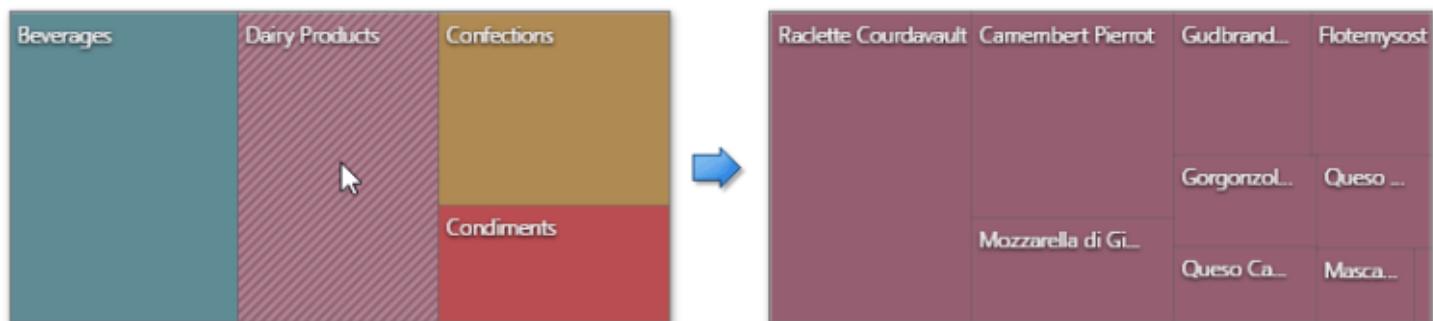


To reset multiple filtering, use the **Clear Master Filter** button (the icon) in the Treemap's [caption](#).

Drill-Down

The built-in drill-down capability allows end-users to change the detail level of data displayed in dashboard items on the fly. To learn more about drill-down concepts common to all dashboard items, see the [Drill-Down](#) topic.

When drill-down is enabled, an end-user can click a tile to view the details.



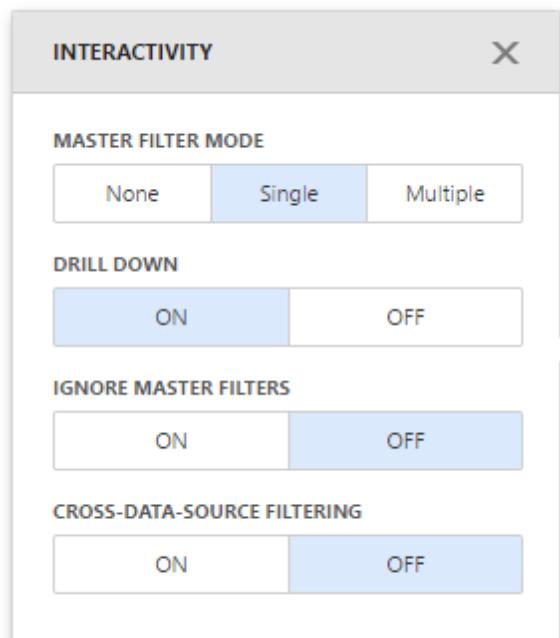
Drill-down requires that the **Arguments** section contains several dimensions at the top, from the least detailed to the most detailed dimension.



Note

In OLAP mode, you can perform drill-down for either a hierarchy data item or several dimension attributes.

To enable **Drill-Down**, go to the Treemap's [Interactivity](#) menu and turn the **Drill-Down** option on.



To return to the previous detail level, click the **Drill Up** button (the ↕ icon) in the Treemap's [caption](#).

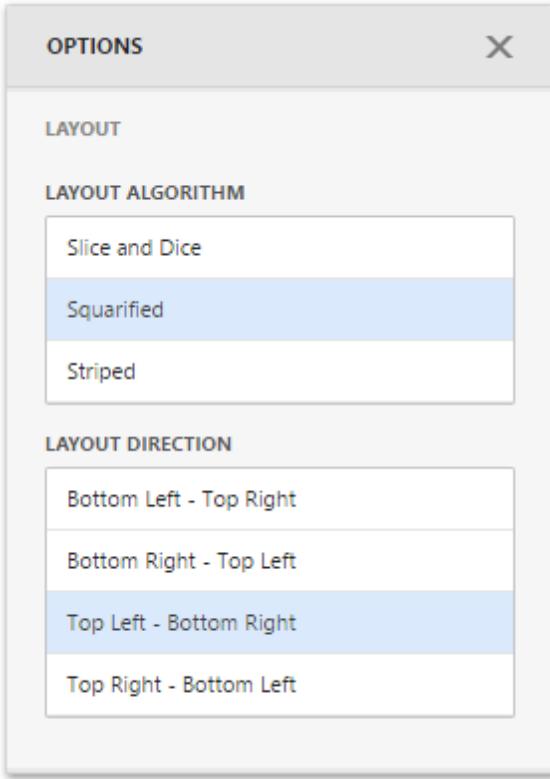
Note

[Grouping](#) is not in effect when drill-down is enabled.

Layout

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Treemap](#) > [Layout](#)

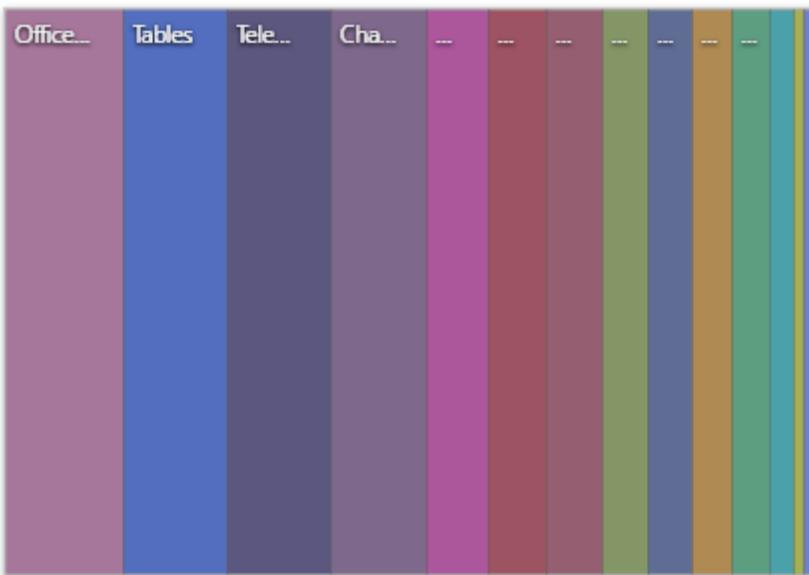
This topic describes how to change a layout algorithm used to arrange Treemap tiles. To do this in the Web Dashboard, go to the Treemap's [Options](#) menu and open the **Layout** section.



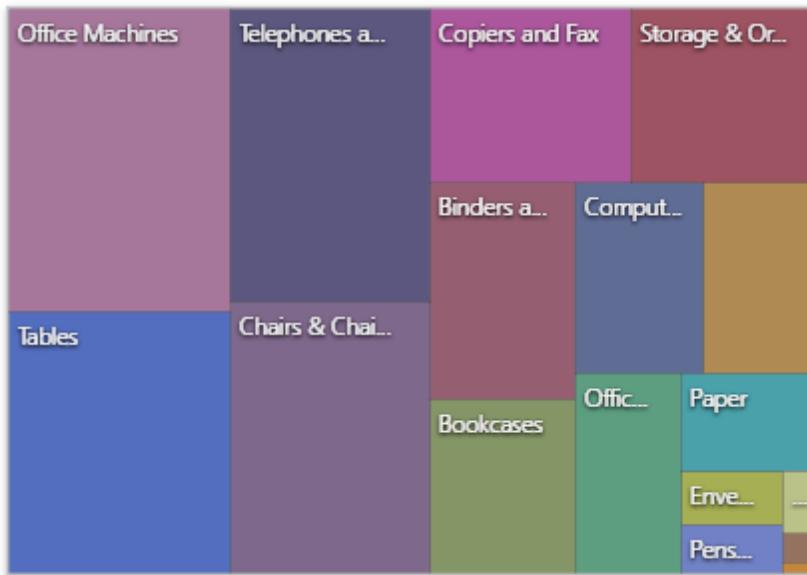
Layout Algorithm

To change a layout algorithm, select the required direction in the Layout Algorithm list. The following algorithms are available.

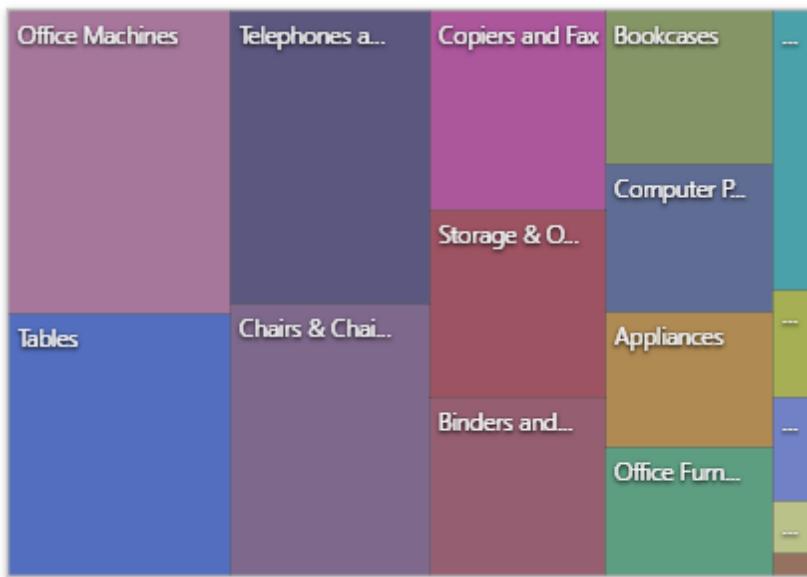
- The **Slice and Dice** algorithm divides the space between items, slicing it in the specified direction depending on item value.



- The **Squareified** algorithm arranges tiles so that their width/height ratio will be closer to 1.



- The **Striped** algorithm is a modified version of the Squareified algorithm. The difference here is that tiles are drawn side by side as columns or rows.



Layout Direction

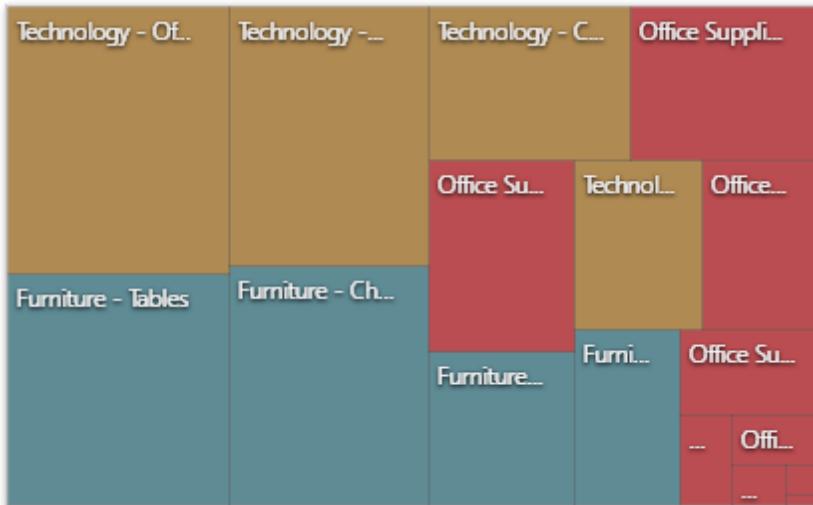
You can also set a layout direction to specify an arrangement of tiles depending on their sizes. The Treemap arranges tiles in descending order from maximum to minimum values. To do this, select the required direction in the **Layout Direction** list.

- Bottom Left - Top Right** arranges tiles from the bottom-left to the top-right corner.
- Bottom Right - Top Left** arranges tiles from the bottom-right to the top-left corner.
- Top Left - Bottom Right** arranges tiles from the top-left to the bottom-right corner.
- Top Right - Bottom Left** arranges tiles from the top-right to the bottom-left corner.

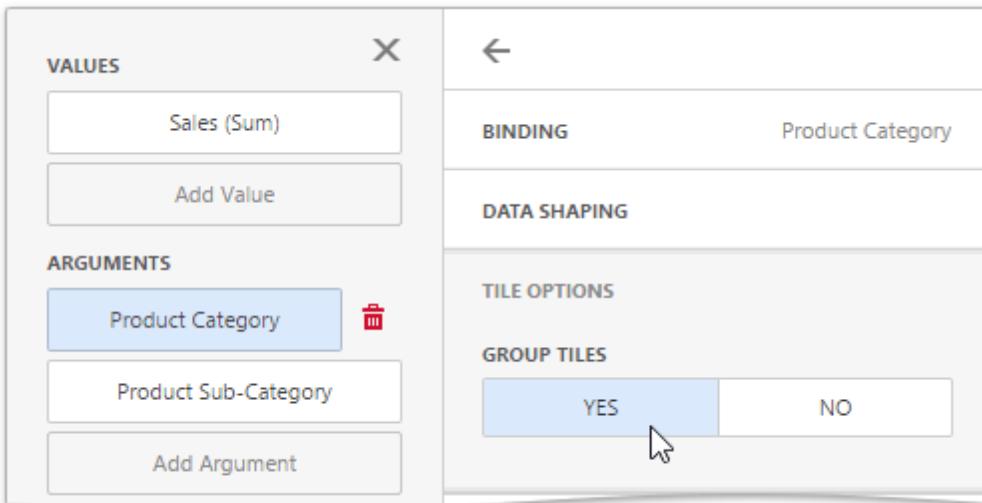
Grouping

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Treemap](#) > [Grouping](#)

If you use several arguments in the Treemap, you can group tiles corresponding to child values by parent values. For example, the following Treemap dashboard item displays combinations of categories and sub-categories.



To group sub-categories inside corresponding categories, click the *Product Category* data item and go to the **Tile Options** section of the [data item menu](#). There, toggle the **Group Tiles** option on.



Product tiles will be grouped into category groups.

**Note**

Note that grouping is unavailable for the bottommost level.

Coloring

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Treemap](#) > [Coloring](#)

Treemap provides the capability to color its tiles by associating dimension values/measures and specified colors. You can choose whether to use a global color scheme to provide consistent colors for identical values or specify a local color scheme for each dashboard item. To learn more about coloring concepts common for all dashboard items, see [Coloring](#).

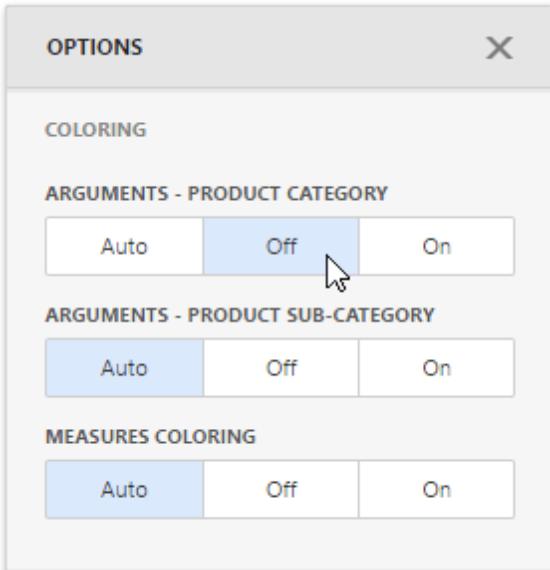
By default, the Treemap dashboard item colors its tiles in the following way.

- If the Treemap contains only measures (the *Values* section), values corresponding to different measures are colored by different hues.
- If the Treemap contains arguments (the *Arguments* section), values corresponding to the first argument are colored by different hues.

If necessary, you can change the default behavior. For example, the image below shows the Treemap dashboard item whose measures and argument values are painted with the same color.



To change the default coloring behavior, go to the **Coloring** section of the Treemap's [Options](#) menu.



Note

You can change the default palette used to color Treemap tiles. For this, go to the **Color Scheme** section of the

Treemap's **Options** menu.

Labels

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Treemap](#) > [Labels](#)

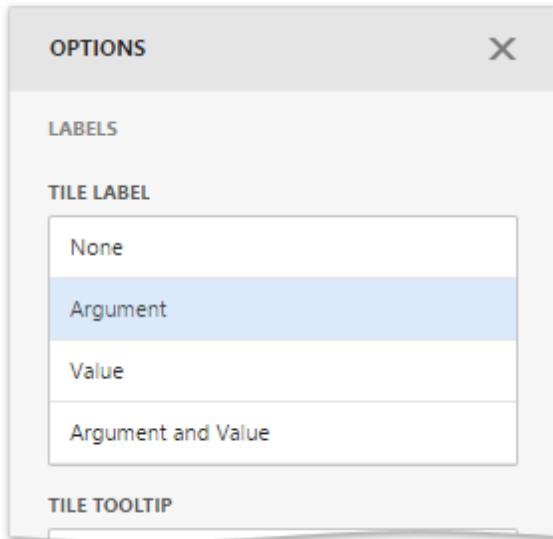
The Treemap displays labels that contain descriptions for tiles and groups, and provide tooltips with additional information.



You can specify which information should be displayed within tile and group labels separately. To do this, go to the **Labels** section of the Treemap's [Options](#) menu. Here you can specify a type of the following elements.

- Tile labels
- Tile tooltips
- Group labels
- Group tooltips

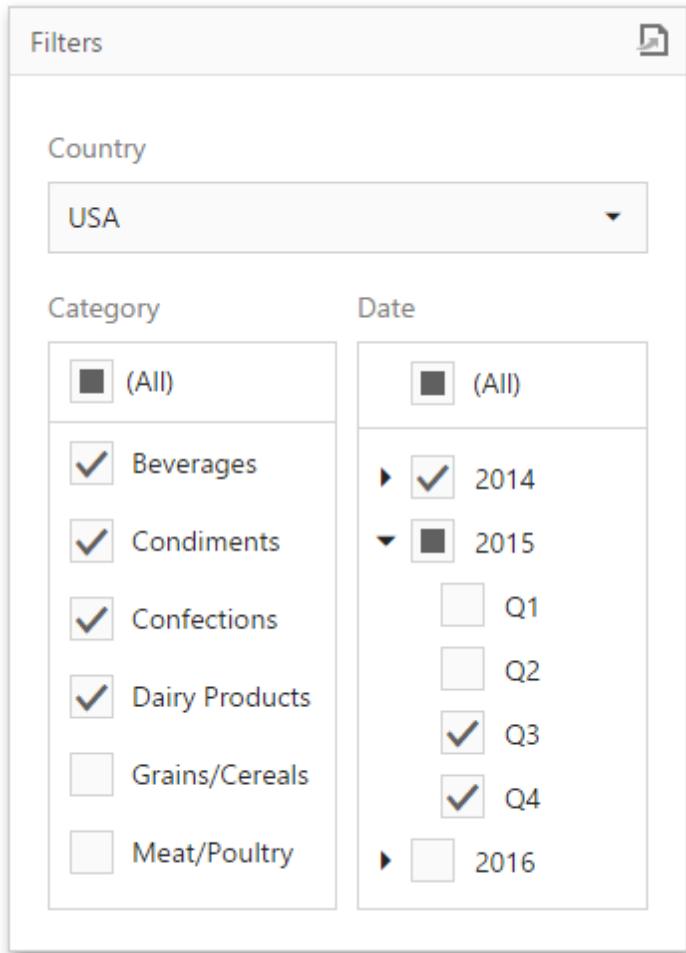
The available types are similar for all elements. You can set one of these types.



Filter Elements

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Filter Elements](#)

Filter elements represent a special type of dashboard item that allows you to apply filtering to other dashboard items.



This section consists of the following topics.

- [Filter Elements Overview](#)
- [Providing Data](#)
- [Interactivity](#)

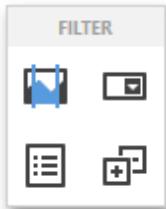
Filter Elements Overview

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Filter Elements](#) > [Filter Elements Overview](#)

The Web Dashboard allows you to create three types of filter elements that provide the capability to filter other dashboard items.

- [Combo Box](#)
- [List Box](#)
- [Tree View](#)

To add the required filter element to the dashboard, use corresponding buttons into the **Filter** section of the **Toolbox**.



Combo Box

The **Combo Box** dashboard item allows you to select a value(s) from the drop-down list.

You can switch the combo box type in the Combo Box's [Options](#) menu. The table below demonstrates available Combo Box's types.

Standard	Checked
The Standard type allows you to select only a single value.	The Checked type allows you to select multiple values in the invoked drop-down list.

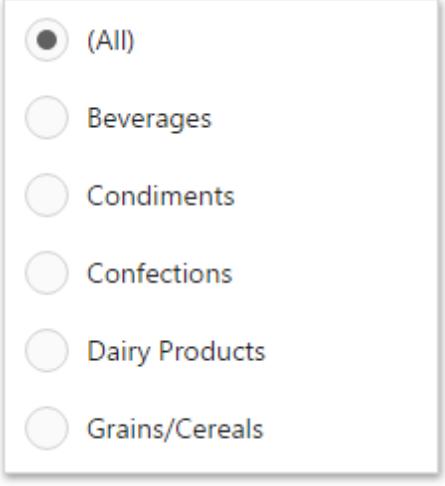
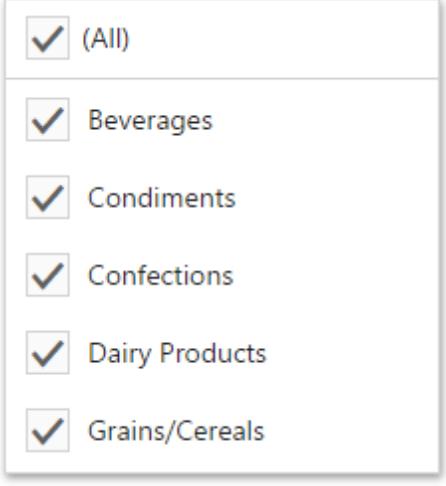
By default, the Combo Box's dropdown contains an 'All' item that allows you to select/deselect all items in the Combo Box. To hide this item, turn off the **Show 'All' Value** option in the Combo Box's [Options](#) menu.

List Box

The **List Box** dashboard item allows you to select a value(s) from the list.

You can switch the list box type in the List Box's [Options](#) menu. The table below demonstrates available List Box's

types.

Checked	Radio
<p>The Checked type allows you to select multiple values in the list box.</p> 	<p>The Radio type allows you to select only a single value in the radio group.</p> 
<ul style="list-style-type: none"><input checked="" type="radio"/> (All)<input type="radio"/> Beverages<input type="radio"/> Condiments<input type="radio"/> Confections<input type="radio"/> Dairy Products<input type="radio"/> Grains/Cereals	<ul style="list-style-type: none"><input checked="" type="radio"/> (All)<input checked="" type="radio"/> Beverages<input checked="" type="radio"/> Condiments<input checked="" type="radio"/> Confections<input checked="" type="radio"/> Dairy Products<input checked="" type="radio"/> Grains/Cereals

Tree View

The Tree View dashboard item displays values in a hierarchical way and allows you to expand/collapse nodes.

 (All)
▶  2014
▶  2015
▼  2016
<input checked="" type="checkbox"/> January
<input checked="" type="checkbox"/> February
<input type="checkbox"/> March
<input checked="" type="checkbox"/> April
<input type="checkbox"/> May

You can manage the initial expanded state of filter values using the **Auto Expand** option in the Tree View's [Options](#) menu.

Providing Data

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Filter Elements](#) > [Providing Data](#)

The Web Dashboard allows you to bind various dashboard items to data in a consistent manner, the only difference being the data sections that these dashboard items comprise. To learn more about common binding concepts, see the [Binding Dashboard Items to Data](#) topic.

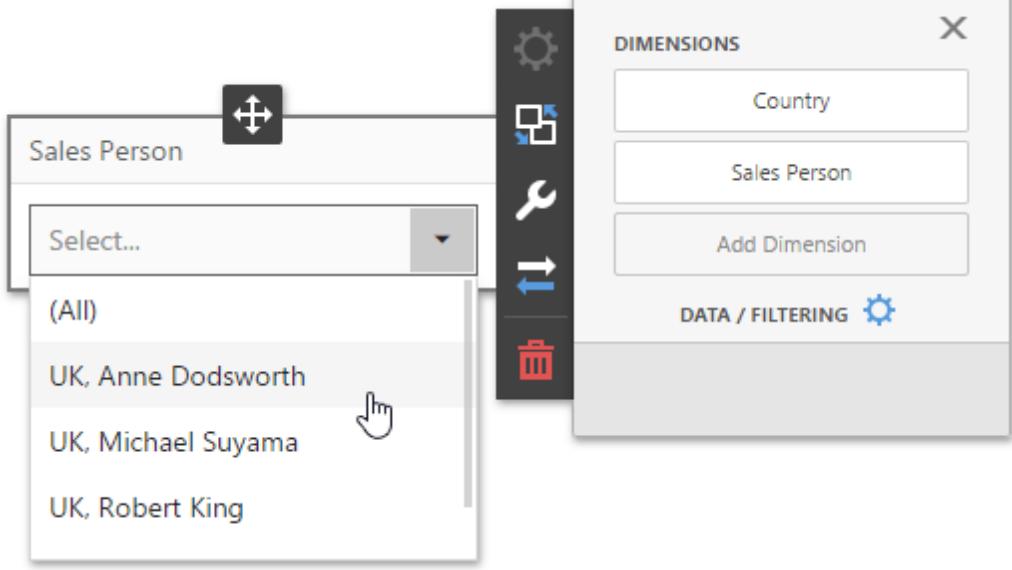
This topic describes how to bind **filter elements** to data using the Web Dashboard control.

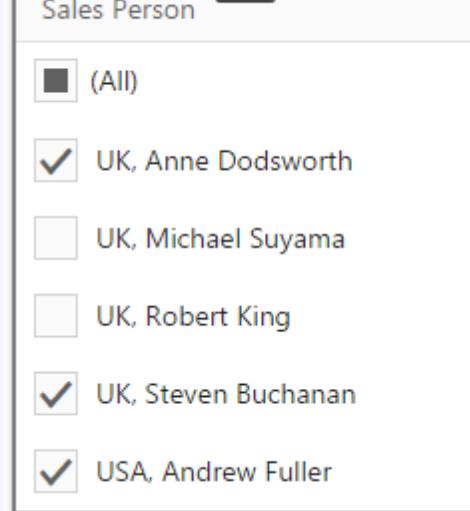
Binding Overview

All filter elements provide the **Dimensions** data section, which accepts dimensions used to provide filter values.

To bind the filter elements to data, click a placeholder contained in one of the available data sections and select the required data source field in the **Binding** section of the invoked [data item menu](#).

To learn about the specifics of binding various filter elements to data, see the table below.

Dashboard Item	Data Sections	Description
Combo Box		<p>The Combo Box filter element can contain several dimensions at the Dimensions data section. In this case, the dropdown list will contain combinations of dimension values.</p>

List Box

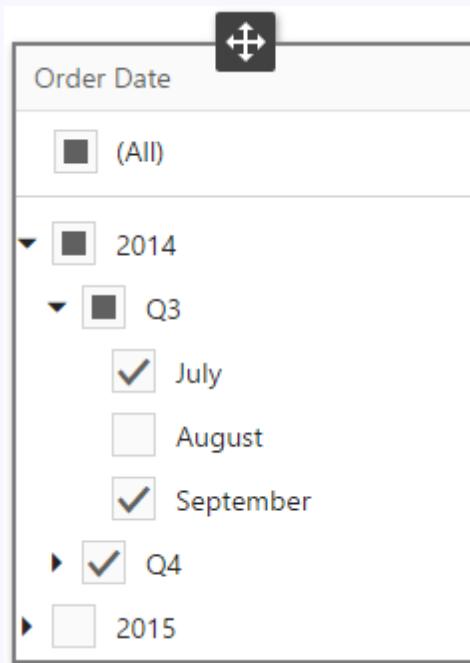
DIMENSIONS

- Country
- Sales Person
- Add Dimension

DATA / FILTERING

NWind DataSource/SalesPerson

The List Box filter element can contain several dimensions at the **Dimensions** data section. In this case, the list will contain combinations of dimension values.

Tree View

DIMENSIONS

- OrderDate
- OrderDate (Quarter)
- OrderDate (Month)
- Add Dimension

DATA / FILTERING

NWind DataSource/SalesPerson

The Tree View filter element can contain several dimensions at the **Dimensions** data section. In this case, dimension values are displayed in a hierarchical way. This can be the set of dimensions with different group intervals (e.g., Year/Quarter/Month) or the set of related dimensions (e.g., geographical data).

		such as continents/ countries /cities).
--	--	--

Interactivity

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Filter Elements](#) > [Interactivity](#)

This document describes filtering capabilities supported by filter elements. You can use filter elements to apply master filtering to other dashboard items or introduce hierarchical filtering by adding several connected filters.

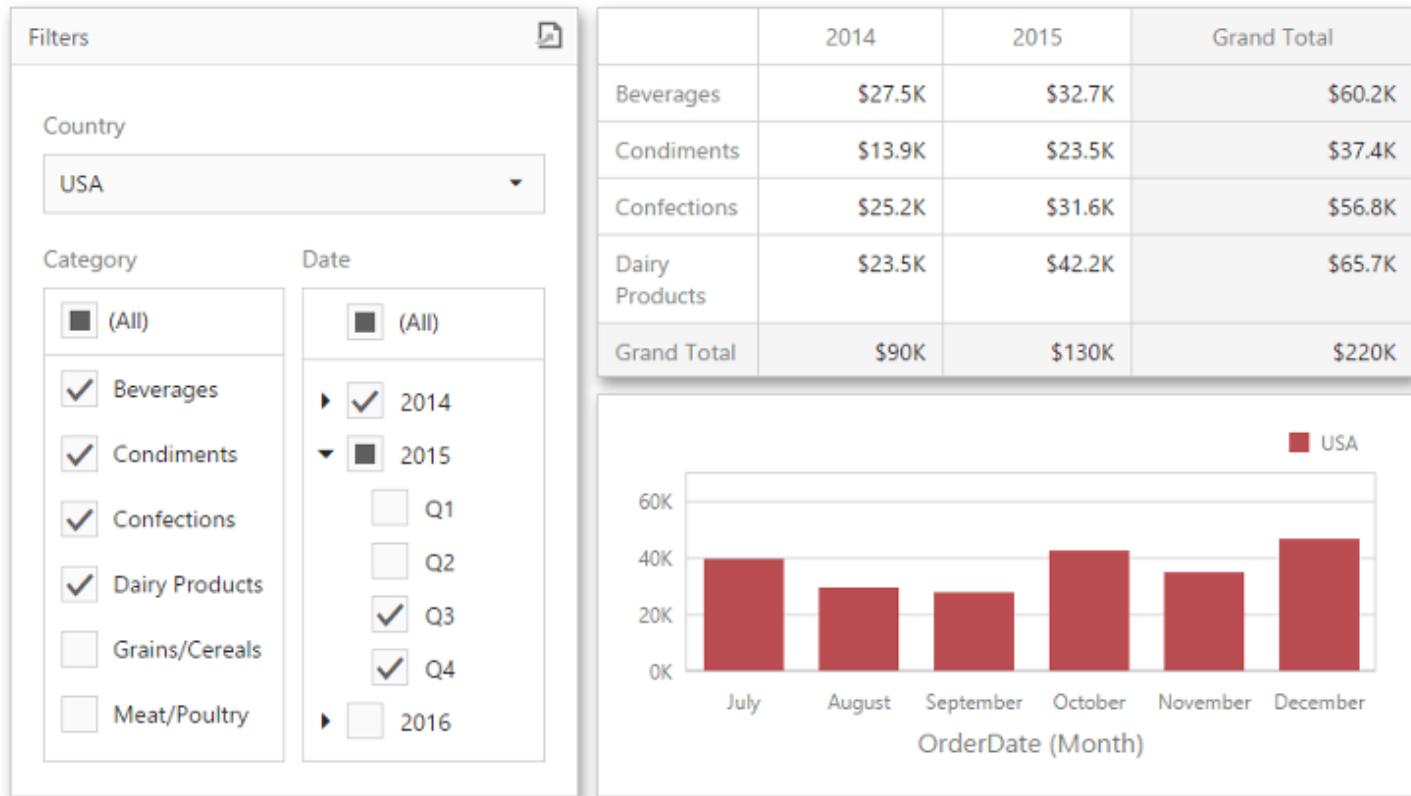
Master Filtering

The Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items ([Master Filter](#)).

Important

Note that filter elements do not support Master Filter selection modes. You can switch the selection mode by [changing the type](#) of the required filter element.

Depending on the filter element type, you can select a value(s) to make other dashboard items display only data related to the selected value(s).



You can also create a set of related filter elements containing relevant filter values. For instance, in the image below, the *State* filter element contains states related to the 'United States' value, while the *City* filter element contains cities related to the 'New York' value.

Country	State	City
<input type="checkbox"/> (All) <input type="checkbox"/> Australia <input type="checkbox"/> Canada <input type="checkbox"/> France <input type="checkbox"/> Germany <input type="checkbox"/> United Kingdom <input checked="" type="checkbox"/> United States	<input type="checkbox"/> Montana <input type="checkbox"/> Nevada <input type="checkbox"/> New Hampshire <input type="checkbox"/> New Mexico <input checked="" type="checkbox"/> New York <input type="checkbox"/> North Carolina <input type="checkbox"/> Ohio <input type="checkbox"/> Oregon	<input checked="" type="checkbox"/> (All) <input checked="" type="checkbox"/> Cheektowaga <input checked="" type="checkbox"/> Endicott <input checked="" type="checkbox"/> Lake George <input checked="" type="checkbox"/> Melville <input checked="" type="checkbox"/> New Hartford <input checked="" type="checkbox"/> New York <input checked="" type="checkbox"/> Valley Stream

Disable the **Ignore Master Filters** option in the [Interactivity](#) menu for the required filter element to allow the applying of filtering to this element.

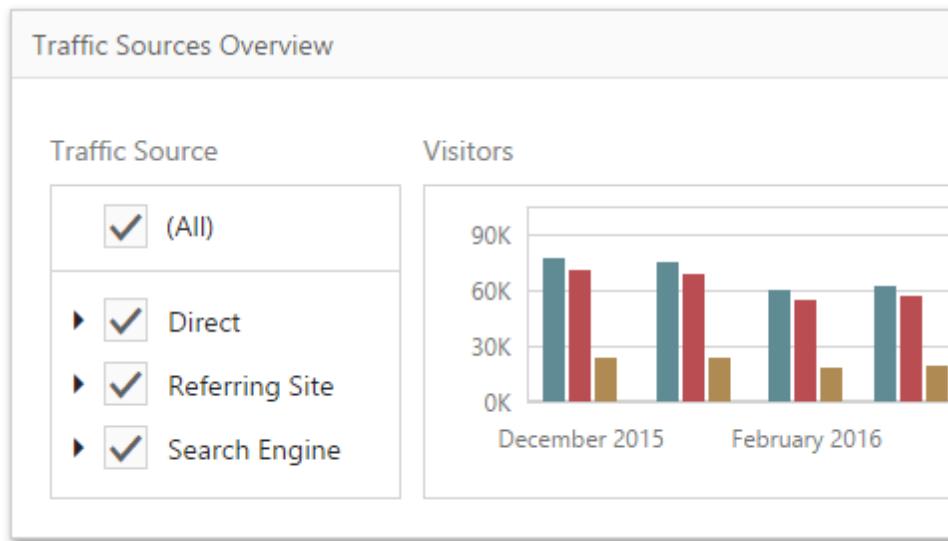
Dashboard Item Group

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Designing Dashboard Items](#) > [Dashboard Item Group](#)

The Web Dashboard allows you to combine dashboard items into a group. The dashboard item group serves two main purposes.

- Combine dashboard items within the dashboard into a separate [layout](#) group.
- Manage [interaction](#) between dashboard items within and outside the group.

For example, you can combine related [filter elements](#) and data visualization [dashboard items](#) into a group.



Create a Group

To create a new group, use the **Group** button (the icon) in the [Toolbox](#).

You can combine dashboard items into a group using several ways.

- Create a new dashboard item using the buttons inside a group or drag a new item from the [Toolbox](#).
- Move the existing items into a group using drag-and-drop.

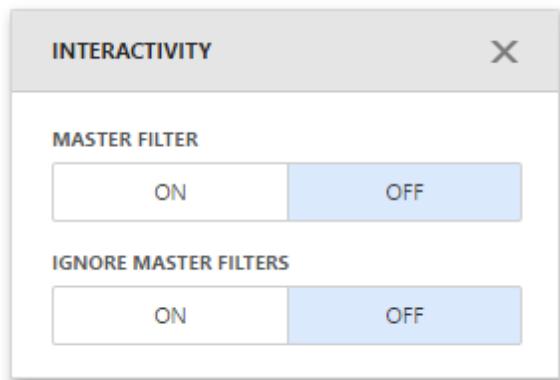
Note

A dashboard item group cannot be added to another group.

Interactivity

The dashboard item group provides the capability to manage [interaction](#) between dashboard items within and outside the group. To specify interactivity settings, open the Group's [Interactivity](#) menu.

The **Master Filter** option allows you to specify whether the current group allows you to filter external dashboard items using master filter items contained within the group. If this option is disabled, master filter items contained within the group can filter only dashboard items from this group.



The **Ignore Master Filters** option allows you to isolate dashboard items contained within the group from being filtered using external master filter items.

Data Shaping

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Shaping](#)

Topics in this section describe various data shaping operations such as grouping, sorting and filtering that can be performed in the Web Dashboard.

This section contains the following topics.

- [Summarization](#)
- [Grouping](#)
- [Sorting](#)
- [Filtering](#)
- [Top N](#)
- [Formatting Data](#)

Summarization

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Shaping](#) > [Summarization](#)

To obtain numeric values that should be displayed within a dashboard item, Dashboard calculates a summary function against the specified measure.

Summary Function Types

The following summary functions are available.

- **Count** - The number of values (excluding **Null** and **DBNull** values).
This is the only summary type that can be calculated against non-numeric data.
- **Count Distinct** - The number of distinct values.
- **Sum** - The sum of the values.

$$\text{Sum} = \sum_i v_i$$

- **Min** - The smallest value.
- **Max** - The largest value.
- **Average** - The average of the values.

$$\bar{v} = \frac{1}{n} \cdot \sum_i v_i$$

- **StdDev** - An estimate of the standard deviation of a population, where the sample is a subset of the entire population.

$$\text{StdDev} = \sqrt{\frac{1}{n-1} \cdot \sum_i (v_i - \bar{v})^2}$$

- **StdDevP** - The standard deviation of a population, where the population is the entire data to be summarized.

$$\text{StdDevP} = \sqrt{\frac{1}{n} \cdot \sum_i (v_i - \bar{v})^2}$$

- **Var** - An estimate of the variance of a population, where the sample is a subset of the entire population.

$$\text{Var} = \frac{1}{n-1} \cdot \sum_i (v_i - \bar{v})^2$$

- **VarP** - The variance of a population, where the population is the entire data to be summarized.

$$\text{VarP} = \frac{1}{n} \cdot \sum_i (v_i - \bar{v})^2$$

Changing Summary Type

By default, Dashboard calculates **Sum** for numeric measures and **Count** for measures that contain another type of data.

You can change the summary function type for numeric measures. To do this, invoke the dashboard item [Bindings](#) menu and select the required data item. In the drop-down **Summary Type** list, select the desired summary type.

The screenshot shows a context menu for the measure 'Extended Price'. The menu is divided into several sections:

- VALUES**: Contains 'Extended Price (Sum)' and an 'Add Values' button.
- ARGUMENTS**: Contains 'CategoryName' and an 'Add Argument' button.
- SERIES**: Contains 'OrderDate' and an 'Add Series' button.
- HIDDEN DIMENSIONS**: Contains an 'Add Dimension' button.
- HIDDEN MEASURES**: Contains an 'Add Measure' button.

TYPE: A section with icons for different chart types: bar, line, stacked bar, stacked line, bubble, area, and trend.

BINDING: A section labeled 'Extended Price' containing the following options:

- Count
- Count Distinct
- Sum** (highlighted)
- Min
- Max
- Average
- StdDev
- StdDevP
- Var
- VarP
- Median
- Sum

A small hand cursor icon is positioned over the 'Sum' option at the bottom of the binding list.

Grouping

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Shaping](#) > [Grouping](#)

The Web Dashboard allows you to group dimension values and display summaries for entire groups rather than individual values. You can arrange dimension values in groups of different sizes by specifying the appropriate group interval. For instance, date-time values can be grouped by year, month, quarter, etc.

Changing a Date-Time Group Interval

Date-time values support the following group intervals.

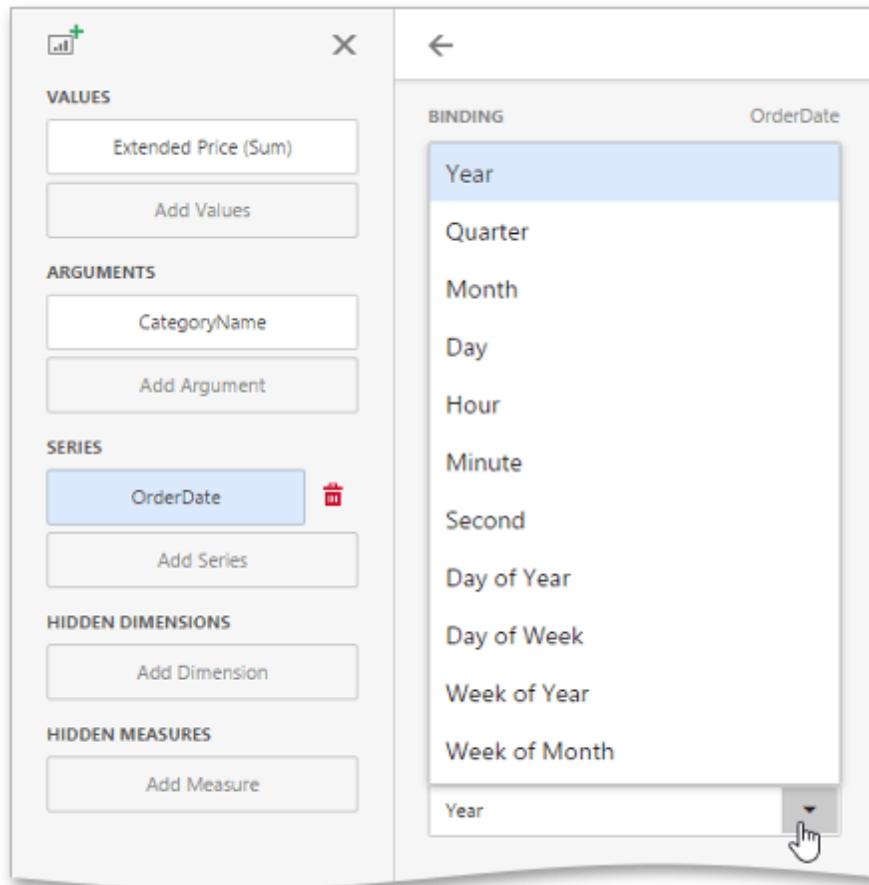


Examples in the table below are formatted using the default settings. To learn how to customize format settings, see [Formatting Data](#).

Group interval	Description	Examples
Year	Values are grouped by the year.	2010, 2011, 2012
Quarter	Values are grouped by the quarter.	Q1, Q2, Q3, Q4
Month	Values are grouped by the month.	January, February, March, ... December
Day	Values are grouped by the day of the month.	1, 2, 3, ... 31
Hour	Values are grouped by the hour.	0, 1, 2, ... 23
Minute	Values are grouped by the minute.	0, 1, 2, ... 59
Second	Values are grouped by the second.	0, 1, 2, ... 59
Day of the Year	Values are grouped by the day of the year.	1, 2, 3, ... 365
Day of the Week	Values are grouped by the day of the week.	Sunday, Monday, Tuesday, ... Saturday
Week of the Year	Values are grouped by the week of the year.	1, 2, 3, ... 52
Week of the Month	Values are grouped by the week of the month.	1, 2, 3, 4, 5
Month-Year	Values are grouped by the year and month.	January 2012, February 2012, ... December 2012, January 2013, ...
Quarter-Year	Values are grouped by the year and quarter.	Q3 2012, Q4 2012, Q1 2013, Q2 2013, ...
Day-Month-Year	Values are grouped by date.	3/4/2012, 3/5/2012, 3/6/2012, ...
Date-Hour	Values are grouped by date with the hour value.	3/4/2012 0:00 AM, 3/4/2012 1:00 AM, 3/4/2012 2:00 AM, ...
Date-Hour-Minute	Values are grouped by date with the hour and minute values.	3/4/2012 0:00 AM, 3/4/2012 0:01 AM, 3/4/2012 0:02 AM, ...
Date-Hour-Minute-Second	Values are grouped by date with the hour, minute and second values.	3/4/2012 0:00:00 AM, 3/4/2012 0:00:01 AM, 3/4/2012 0:00:02 AM, ...

Exact Date	Each value is displayed "as is".	2009, Q2 2009, 6/15/2009 1:45:30 PM, ...
-------------------	----------------------------------	--

To specify a date-time group interval in the Web Dashboard, invoke the dashboard item **Bindings** menu and select the required data item. In the *Bindings* section, select the desired interval from the drop-down **Group Interval** list.



Changing a Text Group Interval

String values support the following grouping intervals.

No Grouping	Each value is displayed "as is".
Alphabetical	Values are grouped alphabetically (e.g., A, B, C, ... Z).

For string values, go to the *Data Shaping* section of the data item menu. Here, you can change the group interval to alphabetical.

←

BINDING CategoryName

DATA SHAPING

SORT ORDER

Ascending Descending

SORT MEASURE

(Value)

GROUP INTERVAL

None Alphabetical

TOP N OFF

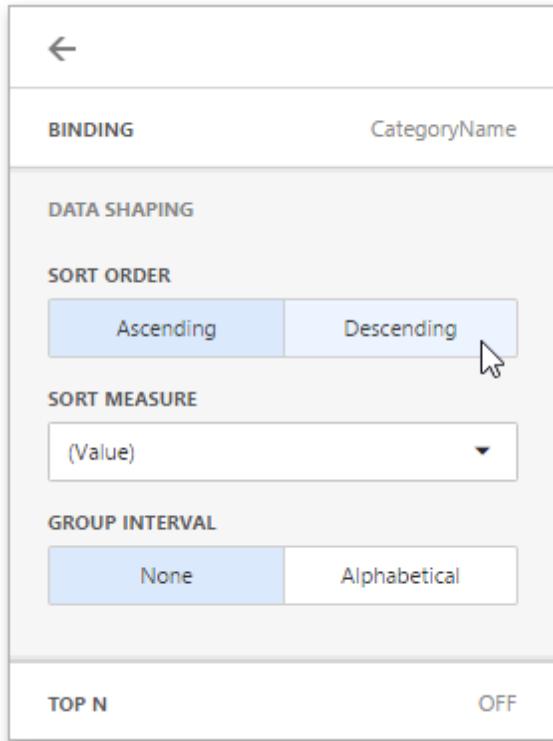
Sorting

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Shaping](#) > [Sorting](#)

The Web Dashboard allows you to easily change the sort order of values within a dashboard item. You can also enable sorting by measure values.

Changing Sort Order

To change the sort order of dimension values displayed within a dashboard item, open the dashboard item **Bindings** menu, select a data item and go to the **Data Shaping** section. Here you can select the *Ascending* or *Descending* sort order.



Sorting by Measure Values

The Web Dashboard also allows you to sort dimension values by summary values calculated for a specific measure. To do this, in the drop-down **Sort Measure** list, select a measure by which you want to sort this data item.

←

BINDING CategoryName

DATA SHAPING

SORT ORDER

Ascending Descending

SORT MEASURE

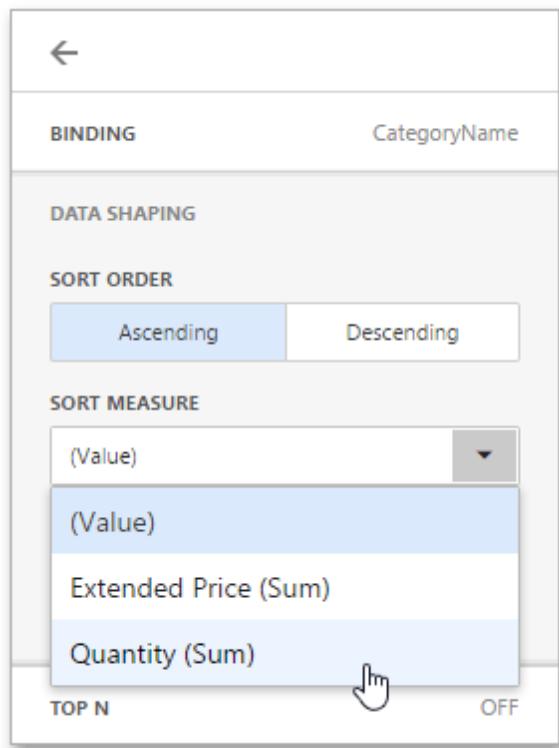
(Value) ▾

(Value)

Extended Price (Sum)

Quantity (Sum)

TOP N OFF



The screenshot shows the 'Sort Measure' section of the configuration interface. A dropdown menu is open, listing '(Value)', 'Extended Price (Sum)', and 'Quantity (Sum)'. The 'Quantity (Sum)' option is highlighted with a blue selection bar and has a small hand cursor icon indicating it can be clicked. Below the dropdown, there are two buttons: 'TOP N' on the left and 'OFF' on the right.

Filtering

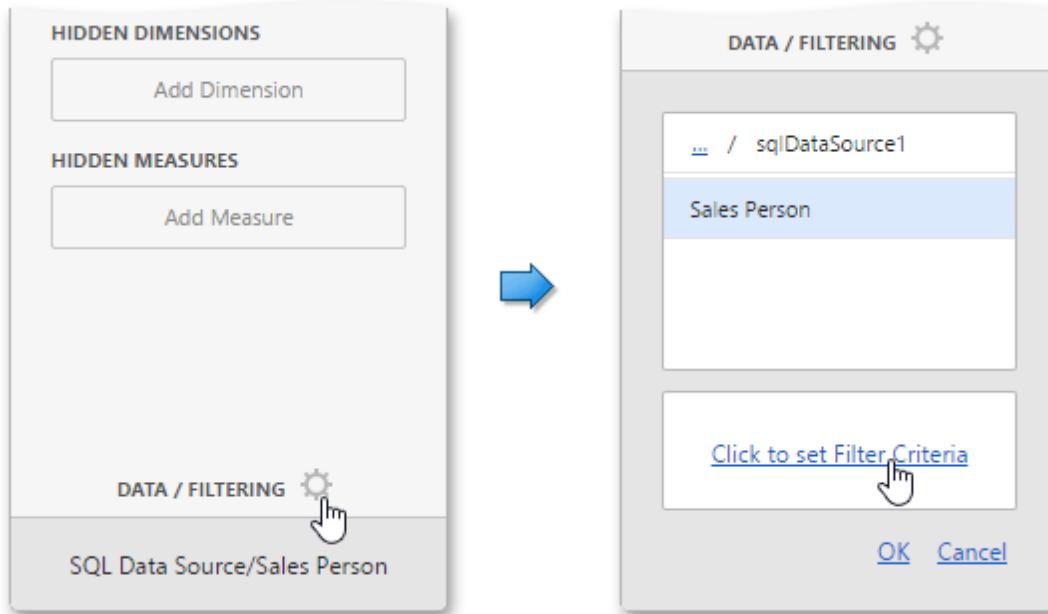
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Shaping](#) > [Filtering](#)

The Web Dashboard allows you to apply filtering for individual dashboard items, filter a [query](#) of the SQL Data Source or the entire Data Source.

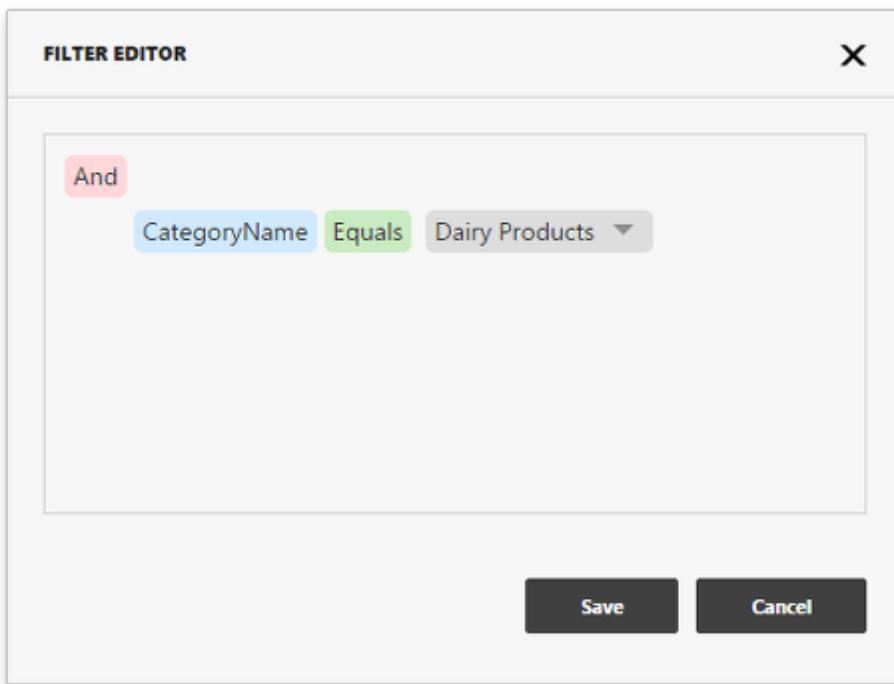
This topic describes how to filter data in the dashboard items.

Apply Filtering

To configure filtering in the Web Dashboard, select the target dashboard item and invoke the dashboard item's [Bindings](#) menu. Then, go to the **Data / Filtering** section and use the **Click to set Filter Criteria** button to invoke the Filter Editor dialog.



Use this dialog to build filter criteria with a convenient tree-like interface.

**Note**

Note that you can use [hidden dimensions](#) within the Filter Editor dialog, allowing you to filter data based on the values.

Pass Parameter Values

You can use the Filter Editor to filter a data source according to the current parameter value. To learn more, see the [Using Dashboard Parameters](#) topic.

OLAP Filtering Specifics

In OLAP mode, you cannot apply filtering by building complex filter criteria. Instead, you can filter dimension attributes and hierarchies by manually selecting the values you wish to include or exclude from the dashboard.

Dimension Attribute	Dimension Hierachy
For dimension attributes, the Filter Editor contains a list of all values.	For hierarchies, a tree is displayed instead, allowing you to filter individual values at any hierarchy level.

FILTER	X
<input style="width: 100%; height: 30px; border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 10px;" type="text" value=" [City] "/>	
<input checked="" type="checkbox"/> (All)	
<input checked="" type="checkbox"/> Abingdon	
<input type="checkbox"/> Albany	
<input type="checkbox"/> Alexandria	
<input checked="" type="checkbox"/> Alhambra	
<input checked="" type="checkbox"/> Alpine	
Save Cancel	

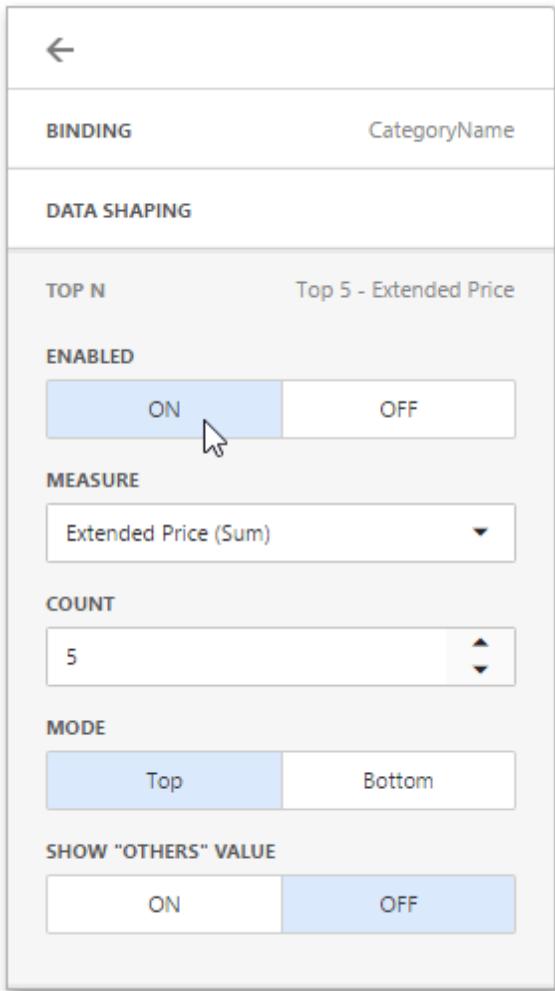
FILTER	X
<input style="width: 100%; height: 30px; border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 10px;" type="text" value=" [Country] - [State-Province] - [City] - [Postal Code] "/>	
<input checked="" type="checkbox"/> (All)	
▶ <input checked="" type="checkbox"/> Australia	
▼ <input checked="" type="checkbox"/> Canada	
▶ <input checked="" type="checkbox"/> Alberta	
▶ <input type="checkbox"/> Calgary	
▶ <input checked="" type="checkbox"/> Edmonton	
Save Cancel	

Top N

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Shaping](#) > [Top N](#)

The **Top N** feature allows you to display only a limited number of values that correspond to the highest or lowest values of a particular measure.

To enable the Top N feature, open the dashboard item [Bindings](#) menu, select a required data item and go to the *Top N* section.



Click **ON** and specify the following settings.

Measure	The parameter according to which the top or bottom values will be determined.
Count	The number of values to be displayed.
Mode	Specifies whether top or bottom values should be displayed.
Show "Others" value	If enabled, all values that are not the top/bottom ones are consolidated in the "Others" value. Note that this capability is not supported in OLAP mode.

You can use the [hidden measure](#) as a parameter according to which the top or bottom values will be determined.

Formatting Data

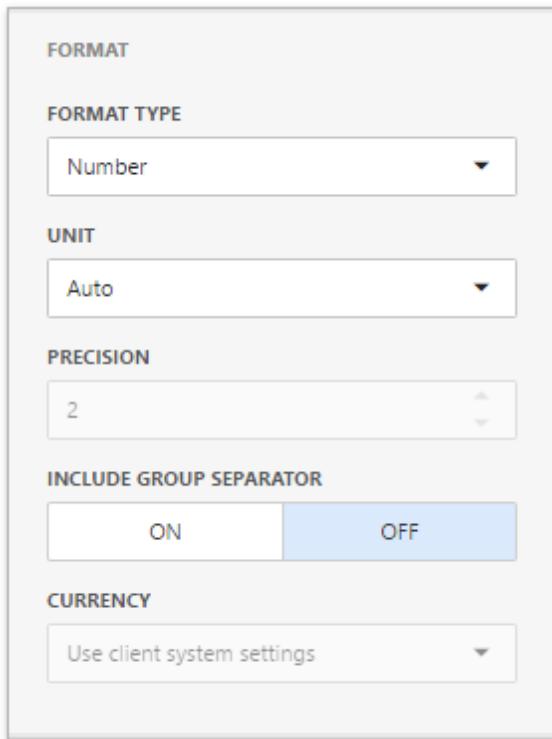
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Shaping](#) > [Formatting Data](#)

The Web Dashboard allows you to customize various format settings for numeric and date-time values.

- [Formatting Numeric Values](#)
- [Formatting Date-Time Values](#)
- [Currency Formatting Specifics](#)

Formatting Numeric Values

To specify a format for numeric values, open the dashboard item [Bindings](#) menu, select a required data item and go to the **Format** section.



In the **Format type** field, select the required format type.

Auto	Format settings are automatically determined based on the data type.
General	Converts a number to the most compact of either fixed-point or scientific notation, depending on the type of the number.
Number	Converts a number to a string of the "-d,ddd,ddd. ddd" form where "-" indicates a negative number symbol (if required), "d" indicates a digit (0-9), "," indicates a group separator, and "." indicates a decimal point symbol.
Currency	Converts a number to a string that represents a currency amount. To learn about currency formatting specifics, see the Currency Formatting Specifics section of this document.
Scientific	Converts a number to a string of the "-d.dddE+ddd"

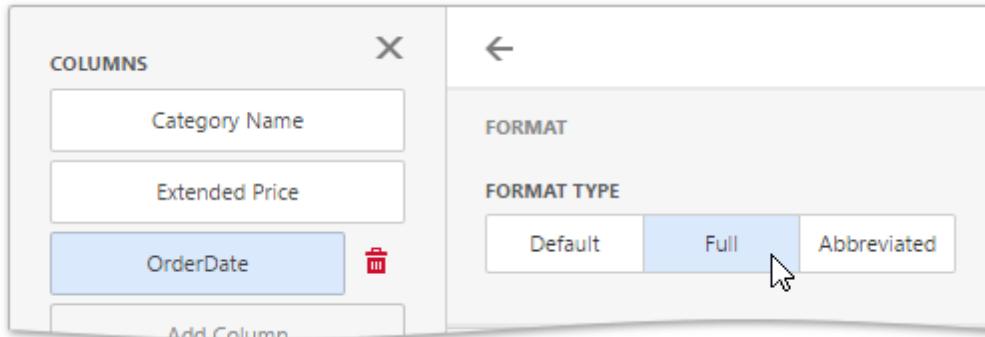
	or "-d.ddde+ddd" form where each "d" indicates a digit (0-9).
Percent	Multiples a number by 100 and converts it to a percentage string.

Other format settings are in effect for only specific format types.

Setting	Description	Format Types
Unit	The unit to which values should be converted.	Number, Currency
Precision	The number of fractional digits that should be displayed.	Scientific, Percent
Include group separator	Specifies whether or not separators should be inserted between digit groups.	Number, Currency, Percent
Currency	Defines the currency sign and format settings that should be used to display currency values. To learn about currency formatting specifics, see the Currency Formatting Specifics section of this document.	Currency

Formatting Date-Time Values

To specify a format for date-time values, use the **Format Type** option in the data item's **Format** section.



Note

Specific group intervals do not have format options. This means that corresponding values can only be presented in a single manner. The **Format** section is not displayed for such group intervals.

The following list shows format types by group interval.

- Year
 - Full - The full year pattern (Example - 6/15/2017 1:45:30 PM -> 2017 (en-US)).
 - Abbreviated - The year from 00 to 99 (Example - 6/15/2017 1:45:30 PM -> 17 (en-US)).
- Quarter
 - Full - The full quarter pattern (Example: 6/15/2017 1:45:30 PM -> Q2 (en-US)).
 - Numeric - The quarter from 1 through 4 (Example: 6/15/2017 1:45:30 PM -> 2 (en-US)).
- Month
 - Full - The full name of the month (Example: 6/15/2017 1:45:30 PM -> June (en-US)).

- *Abbreviated* - The abbreviated name of the month (Example: 6/15/2017 1:45:30 PM -> Jun (en-US)).
- *Numeric* - The month from 1 through 12 (Example: 6/15/2017 1:45:30 PM -> 6 (en-US)).
- Hour
 - *Long* - Long hour pattern, 12-hour format (Example: 6/15/2017 1:45:30 PM -> 1:00 PM).
 - *Short* - Short hour pattern, 24-hour format (Example: 6/15/2017 1:45:30 PM -> 13).
- Day of Week
 - *Full* - The full name of the day of the week (Example: 6/15/2017 1:45:30 PM -> Monday (en-US)).
 - *Abbreviated* - The abbreviated name of the day of the week (Example: 6/15/2017 1:45:30 PM -> Mon (en-US)).
 - *Numeric* - The day of the week from 1 through 7 (Example: 6/15/2017 1:45:30 PM -> 2 (en-US)).
- Day-Month-Year
 - *Long* - Long date pattern (Example: 6/15/2017 1:45:30 PM -> Monday, June 15, 2017 (en-US)).
 - *Short* - Short date pattern (Example: 6/15/2017 1:45:30 PM -> 6/15/2017 (en-US)).
- Date-Hour
 - *Long* - Long date pattern, long hour pattern (Example: 6/15/2017 1:45:30 PM -> Monday, June 15, 2017 1:00 PM (en-US)).
 - *Short* - Short date pattern, long hour pattern (Example: 6/15/2017 1:45:30 PM -> 6/15/2017 1:00 PM (en-US)).
 - *Time only* - Long hour pattern (Example: 6/15/2017 1:45:30 PM -> 1:00 PM (en-US)).
- Date-Hour-Minute
 - *Long* - Long date pattern, long time pattern (Example: 6/15/2017 1:45:30 PM -> Monday, June 15, 2017 1:45 PM (en-US)).
 - *Short* - Short date pattern, long time pattern (Example: 6/15/2017 1:45:30 PM -> 6/15/2017 1:45 PM (en-US)).
 - *Time only* - Long time pattern (Example: 6/15/2017 1:45:30 PM -> 1:45 PM (en-US)).
- Date-Hour-Minute-Second
 - *Long* - Long date pattern, long time pattern (Example: 6/15/2017 1:45:30 PM -> Monday, June 15, 2017 1:45:30 PM (en-US)).
 - *Short* - Short date pattern, long time pattern (Example: 6/15/2017 1:45:30 PM -> 6/15/2017 1:45:30 PM (en-US)).
 - *Time only* - Long time pattern (Example: 6/15/2017 1:45:30 PM -> 1:45:30 PM (en-US)).

The list below illustrates format types related to the **Exact Date** group interval.

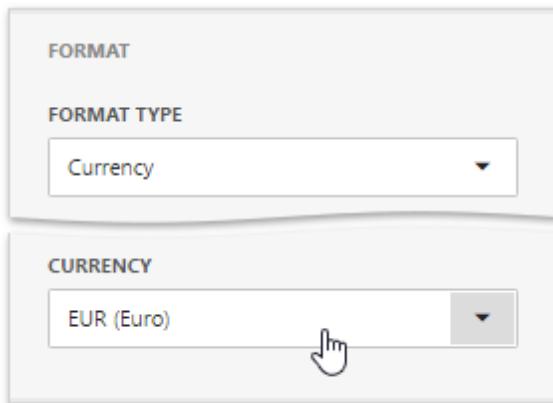
- Year
 - *Full* - The full year pattern (Example: 6/15/2017 1:45:30 PM -> 2017 (en-US)).
 - *Abbreviated* - The year from 00 to 99 (Example: 6/15/2017 1:45:30 PM -> 17 (en-US)).
- Quarter
 - *n/a* - The default year and full quarter pattern (Example: 6/15/2017 1:45:30 PM -> Q2 2017 (en-US)).
- Month
 - *n/a* - The default year pattern and the full name of the month (Example: 6/15/2017 1:45:30 PM -> June, 2017 (en-US)).
- Day
 - *Long* - Long date pattern (Example: 6/15/2017 1:45:30 PM -> Monday, June 15, 2017 (en-US)).
 - *Short* - Short date pattern (Example: 6/15/2017 1:45:30 PM -> 6/15/2017 (en-US)).
- Hour
 - *Long* - Long date pattern, long time pattern (Example: 6/15/2017 1:45:30 PM -> Monday, June 15, 2017 1:00 PM (en-US)).

- *Short* - Short date pattern, long time pattern (Example: 6/15/2017 1:45:30 PM -> 6/15/2017 1:00 PM (en-US)).
- *Time only* - Long time pattern (Example: 6/15/2017 1:45:30 PM -> 1:00 PM (en-US)).
- Minute
 - *Long* - Long date pattern, long time pattern (Example: 6/15/2017 1:45:30 PM -> Monday, June 15, 2017 1:45 PM (en-US)).
 - *Short* - Short date pattern, long time pattern (Example: 6/15/2017 1:45:30 PM -> 6/15/2017 1:45 PM (en-US)).
 - *Time only* - Long time pattern (Example: 6/15/2017 1:45:30 PM -> 1:45 PM (en-US)).
- Second
 - *Long* - Long date pattern, long time pattern (Example: 6/15/2017 1:45:30 PM -> Monday, June 15, 2017 1:45:30 PM (en-US)).
 - *Short* - Short date pattern, long time pattern (Example: 6/15/2017 1:45:30 PM -> 6/15/2017 1:45:30 PM (en-US)).
 - *Time only* - Long time pattern (Example: 6/15/2017 1:45:30 PM -> 1:45:30 PM (en-US)).

Currency Formatting Specifics

The Web Dashboard allows you to specify currency formats for the current data item or for entire dashboard.

- To set a data item currency format, open the dashboard item [Bindings](#) menu, select a required data item and go to the **Format** section. Select **Currency** as a format type and specify the required culture using the **Currency** combo box.



You can also specify the data item to use the client culture. For this, select the *Use client system settings* in the combo box.

- To set the dashboard currency, open the [dashboard menu](#) and go to the **Currency** page. Here you can select the required currency from the list.

The screenshot shows the 'CURRENCY' configuration panel in the Web Dashboard Designer Mode. On the left, a sidebar menu lists options like 'New...', 'Open...', 'Save', 'Data Sources', 'Title', 'Currency' (which is selected and highlighted in dark grey), 'Parameters', and 'Color Scheme'. The main area is titled 'CURRENCY' and contains a table with nine rows, each representing a currency code and its name. The rows are: EGP (Egyptian Pound) EE 123, ETB (Ethiopian Birr) ETB 123, EUR (Euro) €123, GBP (UK Pound Sterling) £123, GEL (Lari) ₾ 123, GTQ (Guatemalan Quetzal) Q 123, HKD (Hong Kong Dollar) \$123, and HNL (Honduran Lempira) L 123. To the right of the table is a 'PREVIEW' section containing two large text elements: '€123' and '-€123', demonstrating how the currency symbols and formats are displayed.

CURRENCY	
EGP (Egyptian Pound)	EE 123
ETB (Ethiopian Birr)	ETB 123
EUR (Euro)	€123
GBP (UK Pound Sterling)	£123
GEL (Lari)	₾ 123
GTQ (Guatemalan Quetzal)	Q 123
HKD (Hong Kong Dollar)	\$123
HNL (Honduran Lempira)	L 123

You can also specify the dashboard to use the client culture. For this, select the *Use client system settings* item.

Interactivity

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Interactivity](#)

This section describes features that enable interaction between various dashboard items, like Master Filtering and Drill-Down features.

The section consists of the following topics.

- [Master Filtering](#)
- [Drill-Down](#)

Master Filtering

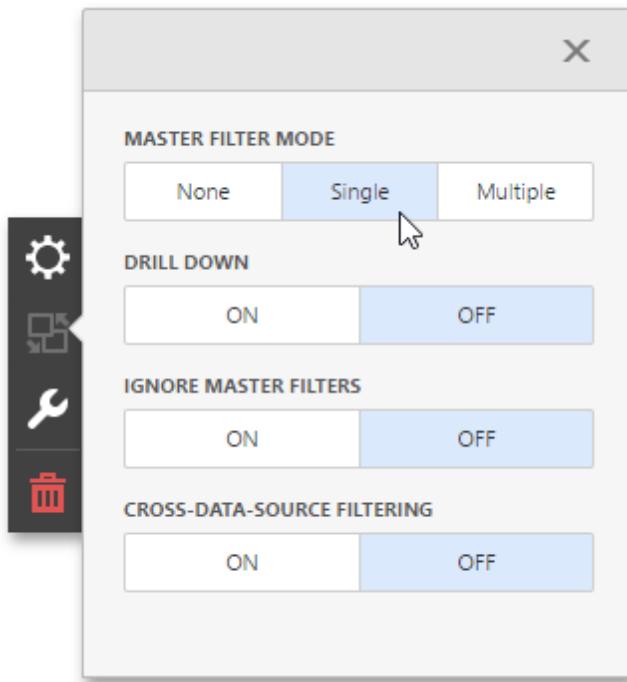
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Interactivity](#) > [Master Filtering](#)

The Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items. This feature is called **Master Filtering**. You can select elements in a Master Filter item (grid records, chart bars, pie segments, etc.) to filter data in other dashboard items by the selected values.

- [Master Filter Modes](#)
- [Filtering Across Data Sources](#)
- [Preventing Items from Being Filtered](#)

Master Filter Modes

To enable master filtering, go to the dashboard item's **Interactivity** menu and use the **Master Filtering Mode** option.



The Master Filter item supports the following modes.

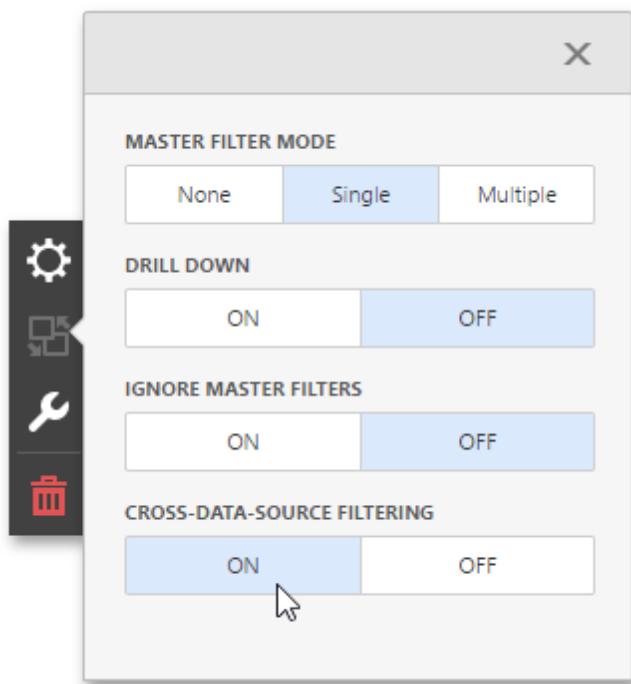
- **None** - Disables master filtering.
- **Multiple** - Allows you to select multiple elements in the Master Filter item. To reset filtering, use the **Clear Master Filter** button (the icon) in the dashboard item's caption.
- **Single** - Allows you to select only one element in the Master Filter item. When this mode is enabled, the default selection will be set to a Master Filter element. You can change this selection, but cannot clear it.

To disable the Master Filter, select **None** as a Master Filter mode.

Filtering Across Data Sources

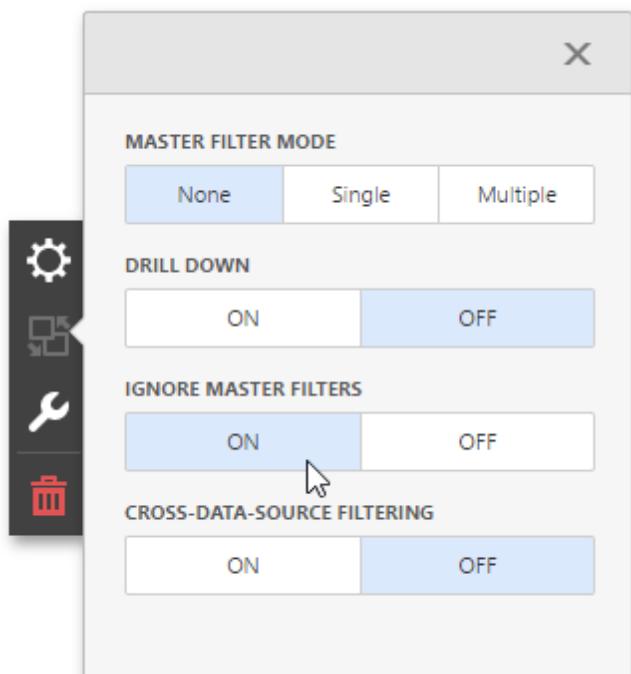
When different items in a dashboard are bound to different data sources, you can specify that a particular Master Filter should be applied across data sources. This means that it will apply filtering to fields with matching names in all data sources.

To filter data across data sources, enable the **Cross-Data-Source Filtering** in the dashboard item's **Interactivity** menu.



Preventing Items from Being Filtered

You can prevent specific dashboard items from being affected by Master Filters. To do this, enable the **Ignore Master Filters** option in the dashboard item's **Interactivity** menu.



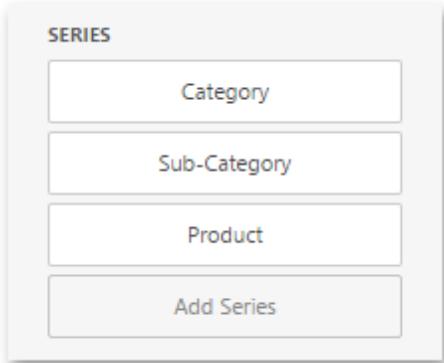
Drill-Down

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Interactivity](#) > [Drill-Down](#)

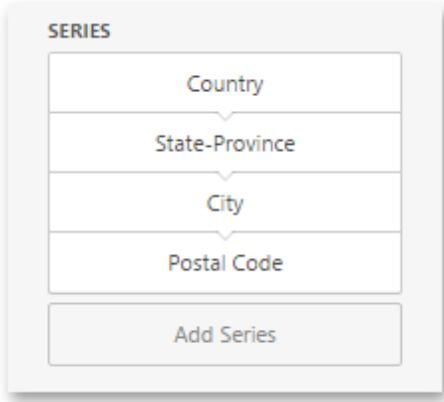
Dashboard provides the **Drill-Down** feature, which allows you to change the detail level of data displayed in a dashboard item. Drill-Down enables users to drill down to display detail data, or drill up to view more general information.

Enable Drill-Down

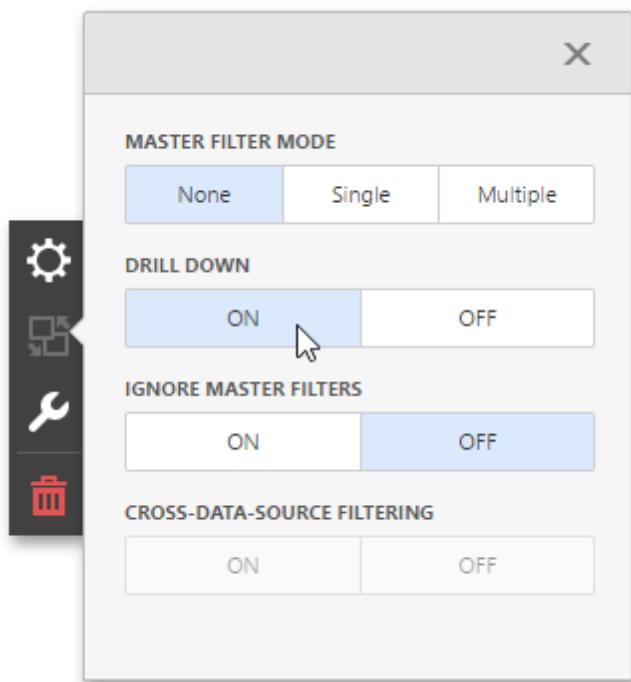
Drill-down requires that the data section contains several dimensions...



... or a hierarchy data item (in OLAP mode).



To be able to change the detail level of data, go to the dashboard item's **Interactivity** menu and enable the **Drill Down** option.



Appearance Customization

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Appearance Customization](#)

The topics in this section describe how to customize the appearance of a dashboard or any of its elements using conditional formatting and coloring.

This section contains the following topics.

- [Conditional Formatting](#)

Describes how to format dashboard item elements whose values meet a specified condition.

- [Coloring](#)

Describes how to manage coloring of dashboard item elements.

Conditional Formatting

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Appearance Customization](#) > [Conditional Formatting](#)

The Web Dashboard allows you to format dashboard item elements whose values meet a specified condition. This feature allows you to highlight specific elements using a predefined set of rules.

To learn more about the specifics of using a conditional formatting feature for different dashboard items, see the following topics.

- [Conditional Formatting - Grid](#)
- [Conditional Formatting - Pivot](#)

Product Sales							
Product		Revenue (Sum)	UnitsSold (Sum)				
Mountain-100	●	\$51.4M	15.2K				
Mountain-200	●	\$35.7M	15.5K				
Mountain-300	Sales by State						
Mountain-400-W		▶ Clothing	▶ Components	Grand Total			
Mountain-500		Revenue	Units Sold	Revenue	Units Sold		
Patch kit							
Racing Socks	Alabama	\$111K	2.41K	\$3.1M	13.7K	\$9.69M	25.1K
	Arizona	\$112K	2.41K	\$3.02M	13.4K	\$9.43M	24.9K
	California ★	\$763K	15.9K	\$15.6M	77.8K	\$36.4M	142K
	Colorado	\$107K	2.32K	\$3.26M	13.9K	\$9.7M	25.5K
	Connecticut	\$119K	2.56K	\$2.97M	13.2K	\$9.35M	24.7K
	Florida ★	\$206K	4.78K	\$5M	25.8K	\$12.4M	47.1K

Format rules used in conditional formatting can be divided into groups depending on their purpose and can be applied to measure or dimension values.

Comparison rules used in conditional formatting can be divided into the following groups.

- **Value** - Allows you to compare static values (such as Greater Than, Less Than, Between, etc.).
- **Top-Bottom** - Highlights a specific number of topmost/bottommost values.
- **Average** - Highlights values above the average value or below the average value.
- **A Date Occuring** - Allows you to highlight date-time values that fall into a specified interval.
- **Expression** - Allows you to use complex conditions to apply formatting. You can also pass dashboard parameters to expressions.
- **Icon and Color Ranges** - Allows you to apply formatting by displaying specific icons for different ranges of values. You can select a predefined set of icons or use a specific icon for each range.
- **Color Ranges** - Allows you to apply formatting using specific colors for different ranges of values. You can select a predefined set of colors or use custom appearance settings to highlight values within specified

ranges.

- **Gradient Ranges** - Allows you to apply formatting using gradient color scales.
- **Bar** - Allows you to visualize numeric values using bars. You can also color bars corresponding to positive and negative values using different colors.
- **Bar Color Ranges** - Allows you to visualize numeric values using bars whose colors are contained in the specified color set.
- **Bar Gradient Ranges** - Allows you to visualize numeric values using bars whose colors are contained in the specified color gradient.

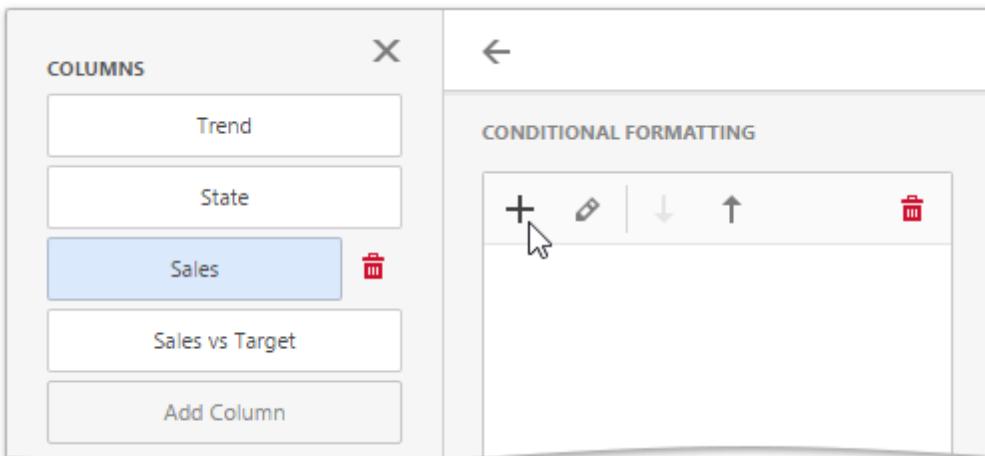
You can create comparison rules for measures or dimensions. The table below lists format conditions that can be applied to different types of data items.

- Measure/numeric Dimension
 - **Value**
 - **Top-Bottom**
 - **Average**
 - **Expression**
 - **Icon Ranges**
 - **Color Ranges**
 - **Gradient Ranges**
 - **Bar**
 - **Bar Color Ranges**
 - **Bar Gradient Ranges**
- string Dimension
 - **Value** with the condition type set to *Equal To*, *Not Equal To* or *Text that Contains*
 - **Expression**
- date-time Dimension
 - **Value**
 - A **Date Occuring** for dimensions with the continuous date-time group interval
 - **Expression**
 - **Icon and Color Ranges**
 - **Color Ranges**
 - **Gradient Ranges**
 - **Bar**
 - **Bar Color Ranges**
 - **Bar Gradient Ranges**

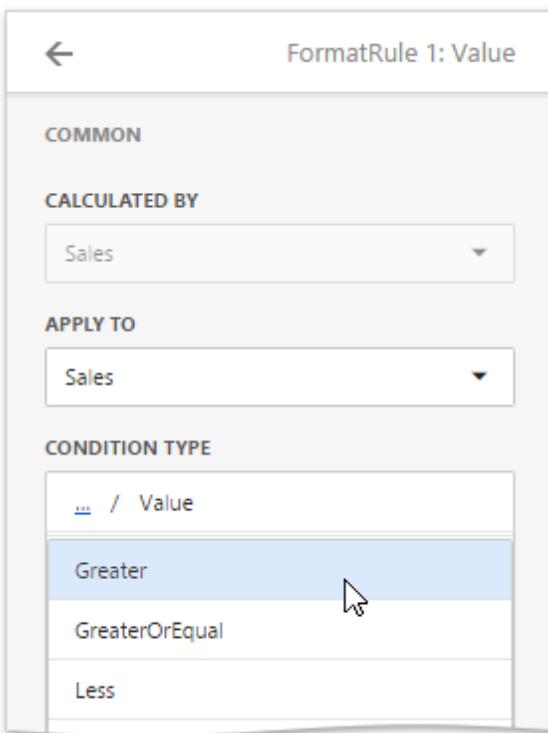
Create and Edit a Format Rule

To create a format rule, perform the following steps.

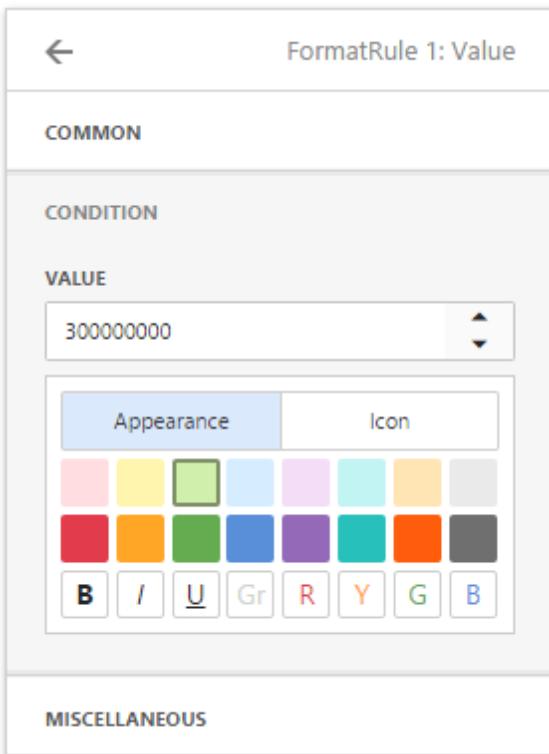
1. Select the required measure/dimension by whose values a format condition will be calculated, open the **Conditional Formatting** section of the data item menu and click "+" to add a new format rule.



2.Specify the data item to which conditional formatting is applied using the **Apply to** combo box and select a condition type from the list.



3.The format rule's menu is opened. This menu depends on the selected format condition and the type of the dashboard item. Here you can specify settings specific for the selected condition. For example, the **Value** format rule allows you to set a value that will be compared with dimension/measure values and specify a format rule style. The image below displays settings where values greater than 300M will be colored in pale green.

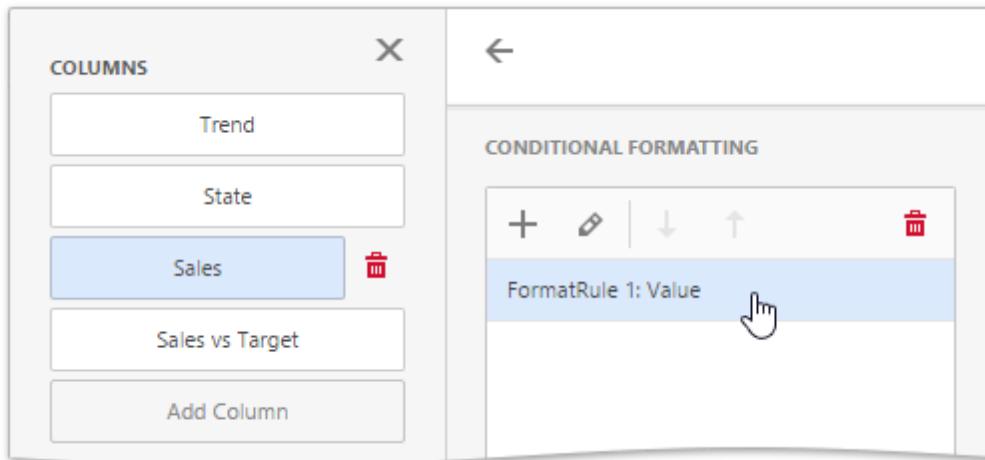


You can specify additional settings in the **Miscellaneous** section of the format rule's menu. This section contains settings depending on the type of the dashboard item. For example, you can manually specify an intersection level for the Pivot or apply the current rule to a row in the Grid.

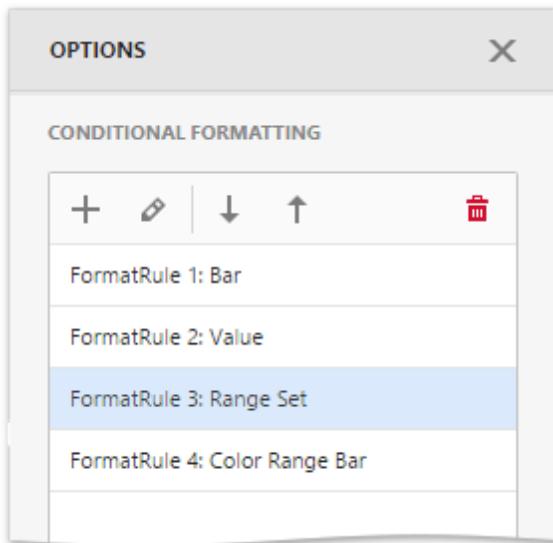
- 4.The format rule is now ready and will be applied to the dashboard item.

State	Sales	SalesTarget (Sum)
Wyoming	\$546M	\$544M
Kentucky	\$378M	\$374M
Maine	\$346M	\$366M
Georgia	\$231M	\$232M
Texas	\$229M	\$229M

To edit a format rule, open the **Conditional Formatting** section of the [data item menu](#), select the required format rule and click the **Edit** button (the icon). To delete the selected format rule, click the **Delete** button (the icon).



You can see existing format rules for the entire dashboard item. To do this, open the dashboard item's [Options](#) menu and go to the **Conditional Formatting** section.

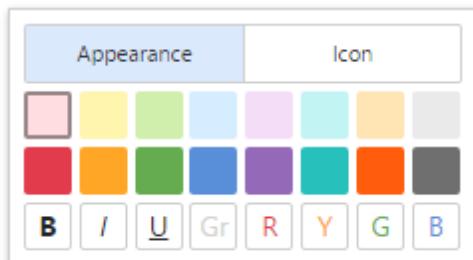


Appearance Settings

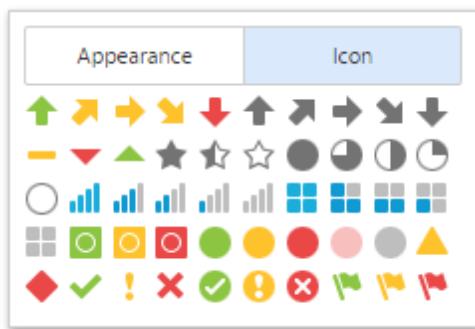
When creating a new format rule, you can select the required appearance settings in the **Condition** section of the format rule's menu. This settings applied according to the current format condition. All format conditions allow you to customize appearance settings in a similar manner.

For example, the *Value* format condition allows you to specify appearance settings in the following way...

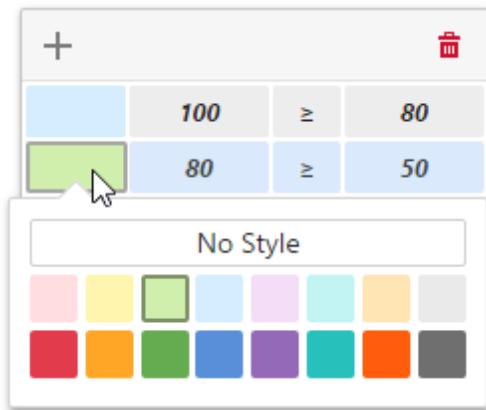
- The **Appearance** tab allows you to choose the predefined background color or font.



- The **Icons** tab allows you to add the predefined icon.



... while the different types of Range format rules allow you to customize predefined range colors and values.



Coloring

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Appearance Customization](#) > [Coloring](#)

The Web Dashboard provides the capability to manage the coloring of dashboard item elements, such as chart series points or pie segments.

- [Supported Dashboard Items](#)
- [Color Schemes Overview](#)
- [Coloring Measures and Dimensions](#)
- [Customizing Color Palettes Using the Dashboard Item Menu](#)
- [Customizing Color Palettes Using the Color Scheme Page](#)

Supported Dashboard Items

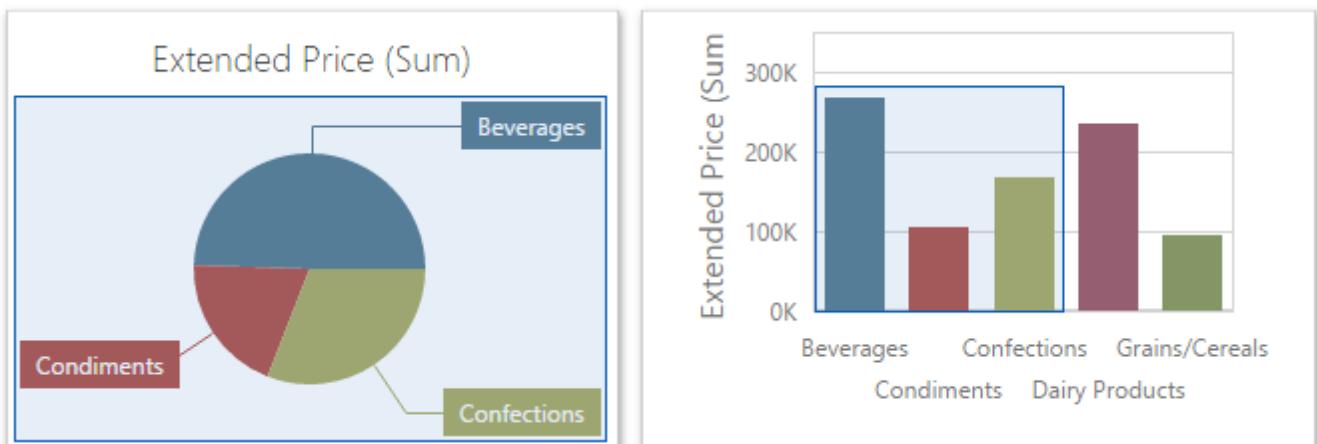
You can manage coloring for the following dashboard items.

- [Chart](#)
- [Scatter Chart](#)
- [Pie](#)
- [Pie Map](#)
- [Range Filter](#)
- [Treemap](#)

Color Schemes Overview

The dashboard provides two ways of coloring dashboard item elements.

- **Global color scheme.** This color scheme provides consistent colors for identical values across the dashboard. The image below shows the dashboard containing Pie and Chart dashboard items. Pie segments and chart series points corresponding to *Beverages*, *Condiments* and *Confections* dimension values are colored using identical colors from the default palette.



Important

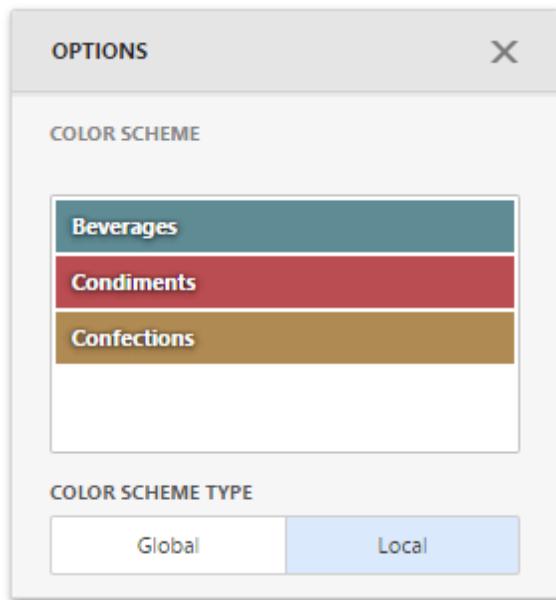
When a global color scheme is used, the dashboard reserves automatically generated colors for certain values regardless of the filter state.

- **Local color scheme.** This color scheme provides an *independent* set of colors for each dashboard item.

Important

When a local color scheme is used, the dashboard reassigned palette colors when the filter state is changed.

To select a type of coloring dashboard item elements, open the [dashboard item menu](#), go to the **Color Scheme** section and use the **Color Scheme Type** option.



Coloring Measures and Dimensions

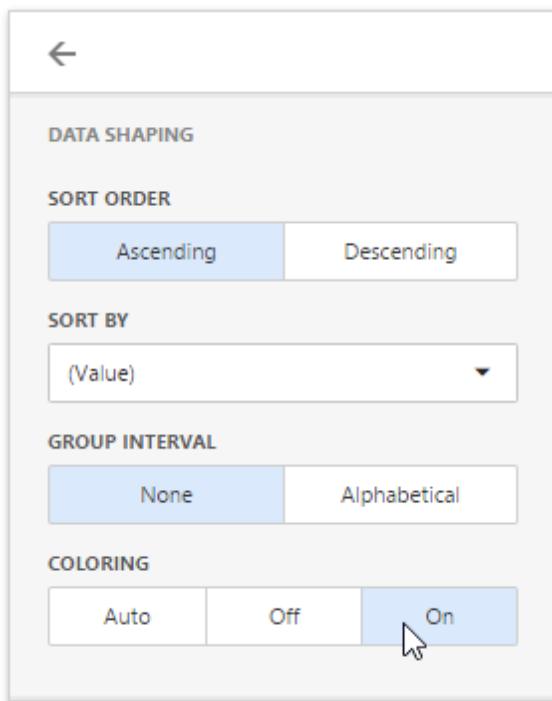
Dashboard items allow you to manage the coloring of individual dimensions or all dashboard item measures using predefined coloring modes.

The following coloring settings are available.

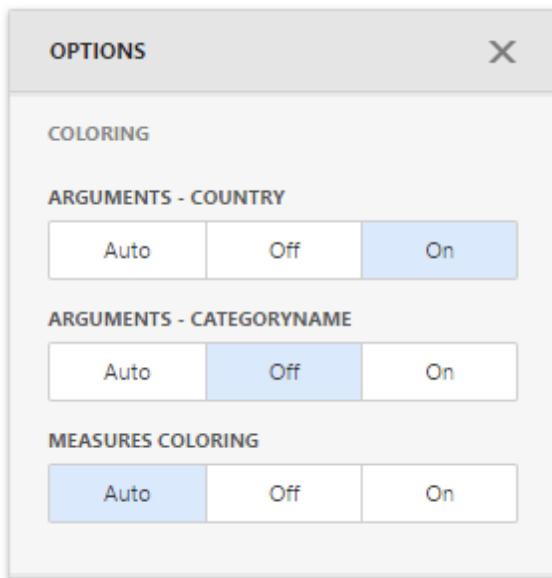
Setting	Description
Auto	Dimension values/measures are colored by default. To learn how specific dashboard items color their elements by default, see the Coloring topic for the corresponding dashboard item .
On	Dimension values/measures are colored by different hues.
Off	Dimension values/measures are colored with the same color.

You can configure coloring in two ways.

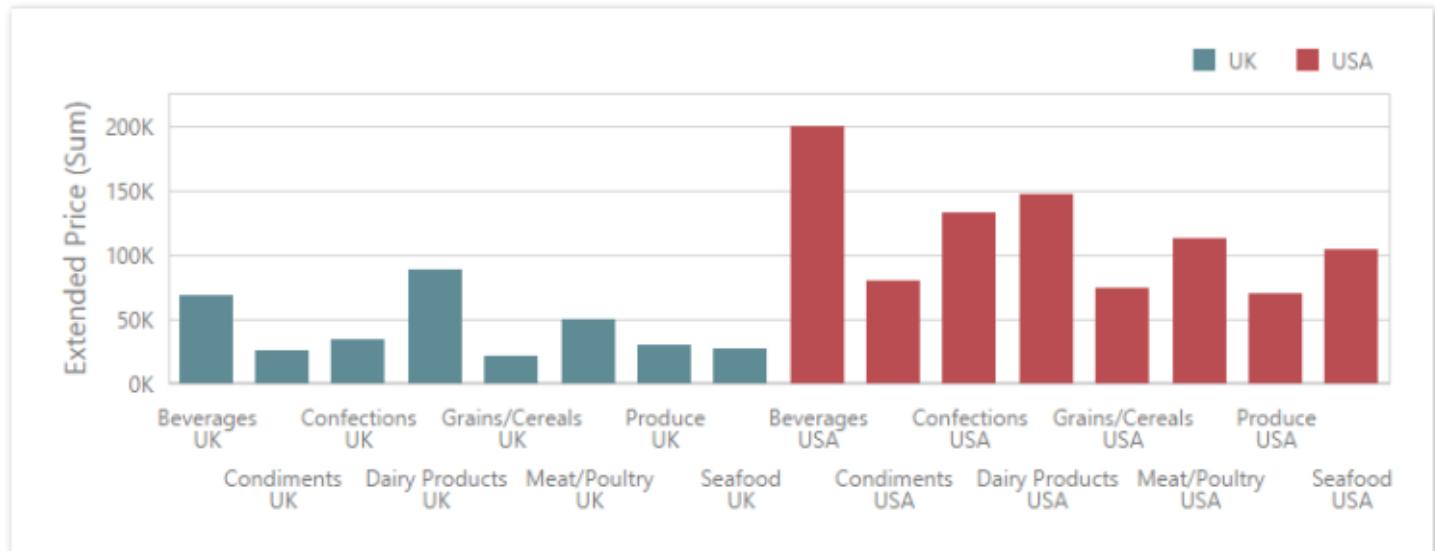
- To specify the coloring mode for the specific measure/dimension, open the data item menu and go to **Data Shaping** section. Use the **Coloring** option to specify coloring mode of this data item.



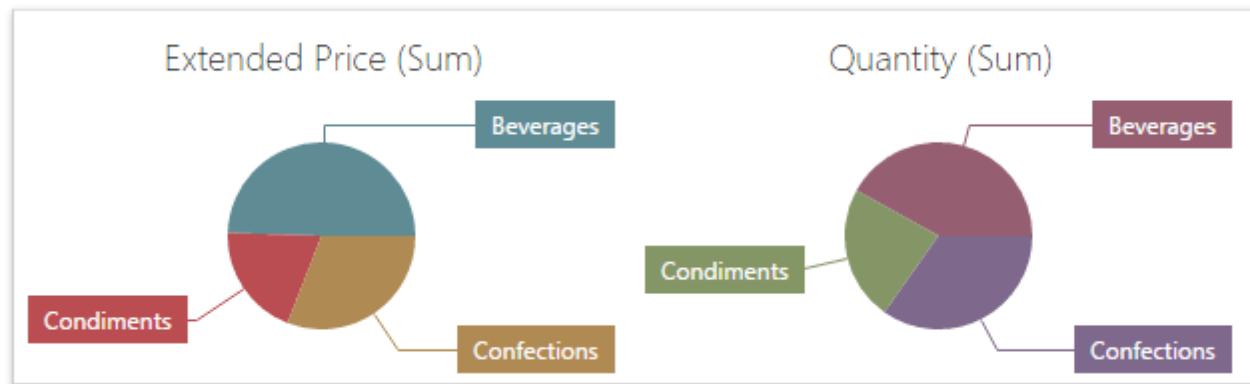
- To see a list of all measures/dimensions for which you can specify coloring mode, open the dashboard item's [Options](#) menu and go to the **Coloring** section.



For example, the image below shows the Chart dashboard item whose **Country dimension** is colored by different hues...



...and this image shows the Pie dashboard item whose **measures** are colored by different hues.

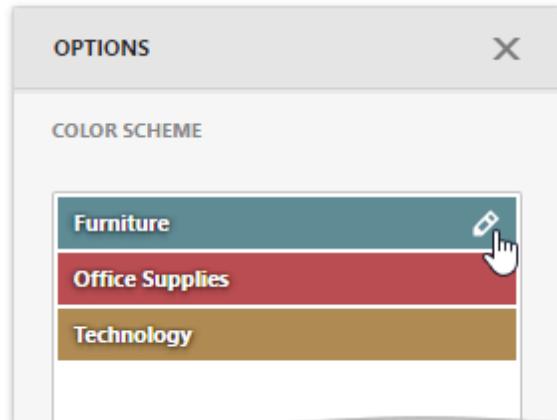


Note

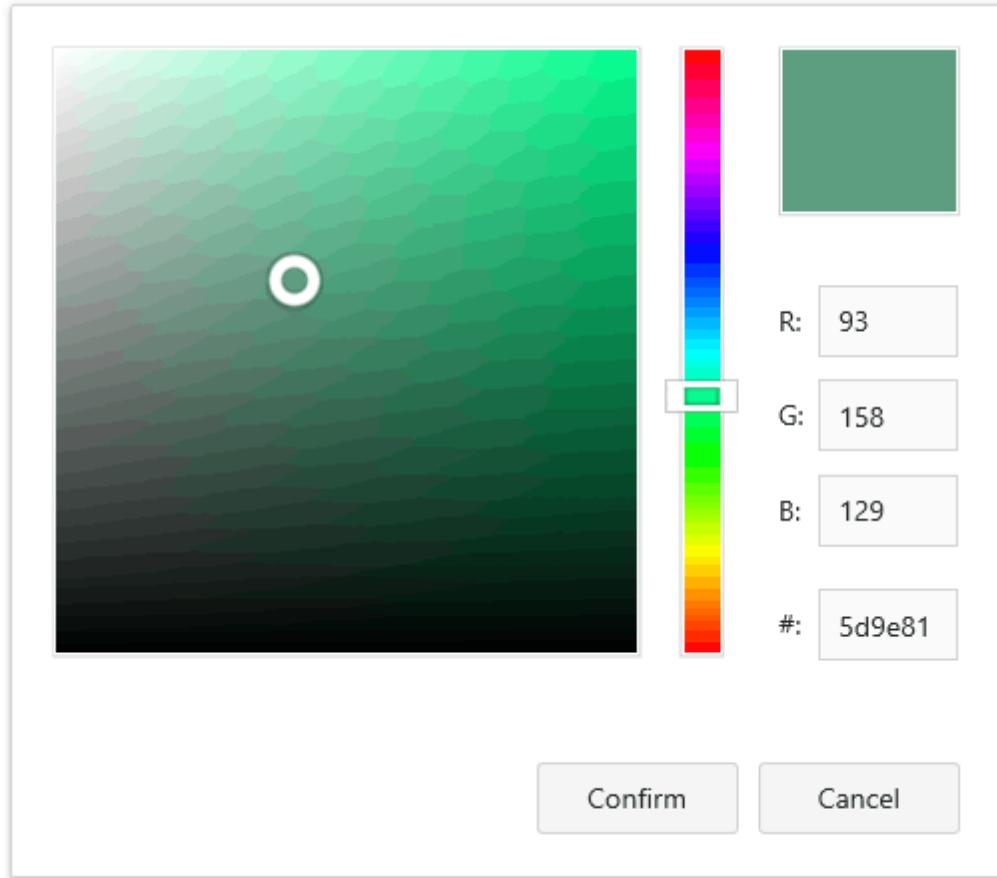
If you enabled coloring by different hues for several dimensions/measures, all combinations of dimension values/measures will be automatically colored using different colors from the default palette.

Customizing Color Palettes Using the Dashboard Item Menu

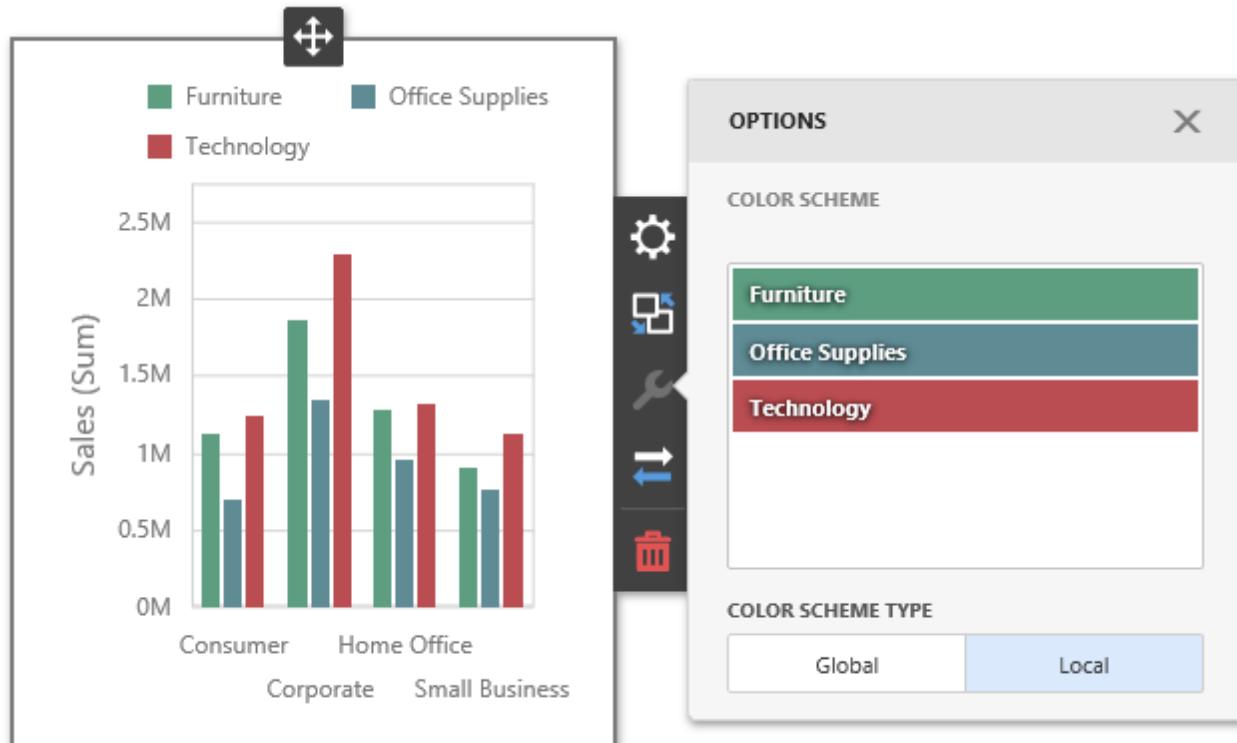
The Web Dashboard allows you to customize colors of the specific palette using the **Color Scheme** section of the dashboard item [Options](#) menu. To edit the color scheme, click the **Edit** button (the icon) of the corresponding color.



Then, pick any color using the RGB color model in the invoked color picker and click **Confirm** to change the color.

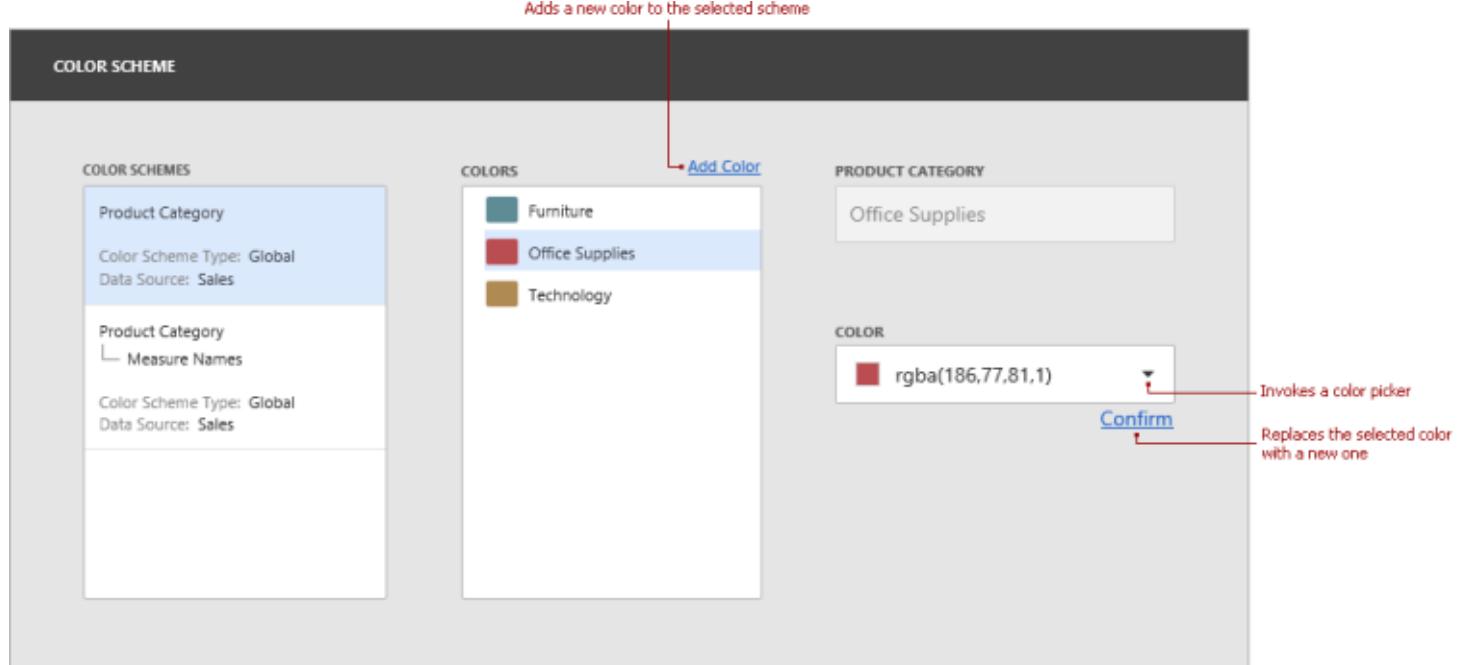


A new color scheme will be applied to the dashboard item(s).



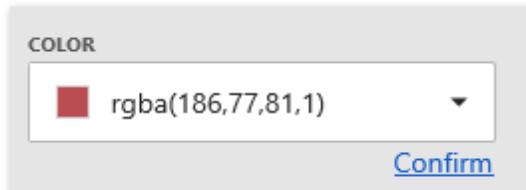
Customizing Color Palettes Using the Color Schemes Page

The Color Scheme page of the [dashboard menu](#) allows you to customize color tables by editing and adding colors.



- **Edit colors.** You can reassign a color in the selected color table. For this, select one of the available schemes in the **Color Schemes** pane and click the required color in the **Colors** pane to provide access to the **Color** combo box.

Clicking the **Color** dropdown button invokes a color picker where you can specify a new color.



Click **Confirm** to change the automatically assigned color for the selected value and update the current color scheme.

The screenshot shows the 'COLOR SCHEME' page. On the left, there are two color scheme cards:

- Product Category**: Color Scheme Type: Global, Data Source: excelDataSource. Contains a tree view under 'Measure Names'.
- Product Category**: Color Scheme Type: Global, Data Source: excelDataSource. Contains a tree view under 'Measure Names'.

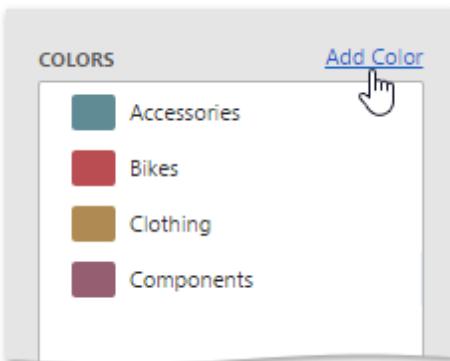
On the right, there is a 'COLORS' section with three items and an 'Add Color' button:

- Furniture (teal square)
- Office Supplies (purple square)
- Technology (brown square)

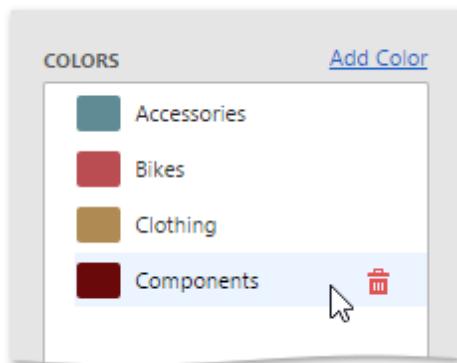
The image below demonstrates the dashboard items that are colored using the updated color table.



- Add colors.** The Color Scheme page allows you to add a new value with the specified color to the selected color scheme. To do this, use the **Add color** button.



Specify the dimension value of the added color or select the required measures. This creates a new value whose color can be specified as described in the **Edit colors** section.



You can remove manually added values using the **Remove** button (the icon).

Data Analysis

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Analysis](#)

This section describes how to perform advanced data analysis using the aggregate and window functions, dashboard parameters, etc.

The section consists of the following topics.

- [Aggregations](#)
- [Calculations](#)
- [Dashboard Parameters](#)

Aggregations

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Analysis](#) > [Aggregations](#)

The Web Dashboard allows you to prepare underlying data using additional aggregation levels when creating [calculated fields](#). This topic shows how to evaluate calculated fields on a visualization (summary) and intermediate levels.

Summary Level Aggregations

To compute values of the calculated field on a visualization (or summary) level, you can use a set of predefined aggregate functions. In the [Expression Editor](#), these functions are available within the **Functions | Aggregate**.

Function	Description
Aggr(SummaryExpression, Dimensions)	Aggregates underlying data using the detail level specified by a predefined set of dimensions and a specified summary function.
Avg(Value)	Returns the average of all the values in the expression.
Count()	Returns the number of values.
CountDistinct(Value)	Returns the number of distinct values.
Max(Value)	Returns the maximum value across all records.
Min(Value)	Returns the minimum value across all records.
Median(Value)	Returns the median of the values.
Sum(Value)	Returns the sum of all values.
Var(Value)	Returns an estimate of the variance of a population where the sample is a subset of the entire population.
Varp(Value)	Returns the variance of a population where the population is the entire data to be summarized.
StdDev(Value)	Returns an estimate of the standard deviation of a population, where the sample is a subset of the entire population.
StdDevp(Value)	Returns the standard deviation of a population where the population is the entire data to be summarized.

These functions can be used for all types of numeric fields. After creating such calculated fields, you can use them as measures contained in an OLAP cube.

Intermediate Level Aggregations

The Web Dashboard can aggregate and summarize data on different levels.

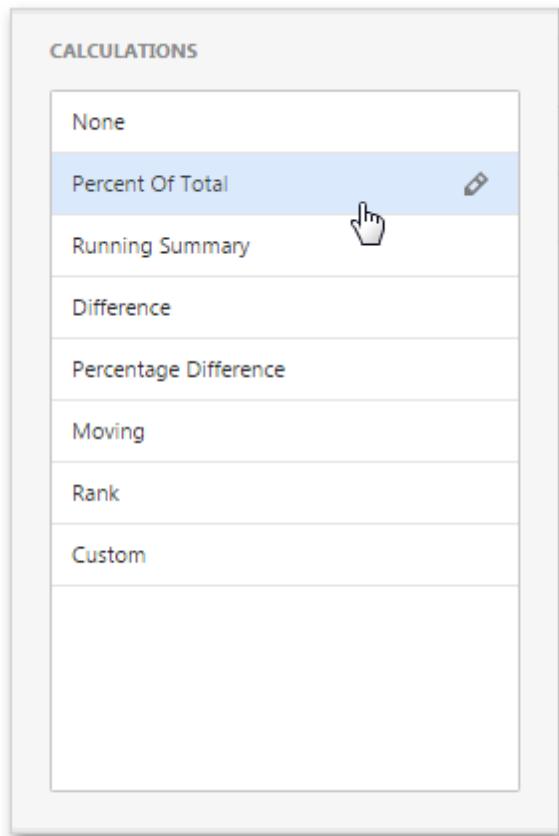
- The [Query Builder](#) allows you to prepare an underlying data source before analyzing data. You can apply grouping, sorting, summarization and other data shaping operations during data selection.
- [Dashboard items](#) aggregate and summarize data at a visualization level using dimensions and measures, respectively. To learn more, see [Binding Dashboard Items to Data](#).
- The **Aggr** function introduces an intermediate detail level that is not related to the visualization level. This allows you to create custom aggregations at different levels and combine these aggregations with existing visualizations.

Calculations

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Analysis](#) > [Calculations](#)

Window calculations provide the capability to apply specific computations to measure values and allow you to perform different analytical tasks such as computing running totals, percentages of totals, differences, etc.

To create a window calculation, invoke the [Bindings](#) menu and click the required measure. In the invoked [Data Item Menu](#), go to **Calculations** and select one of the available calculations.



- [Percent of Total](#)
- [Running Summary](#)
- [Difference](#)
- [Percentage Difference](#)
- [Moving](#)
- [Rank](#)
- [Custom](#)

After you have selected the required calculation, you can change its default settings by clicking the **Edit** button (the icon). This invokes the special window containing common and specific calculation settings:

Percent of Total

A calculation is used to compute a percentage of the total for the specified measure across a window.

The screenshot shows the configuration dialog for a 'Percent Of Total' calculation. At the top right is a back arrow and the title 'Percent Of Total'. Below this are sections for 'COMMON', 'WINDOW DEFINITION', 'DEFINITION MODE', and 'EXPRESSION'.

- COMMON:** Contains the title 'Percent Of Total'.
- WINDOW DEFINITION:** Contains two tabs: 'Predefined' (selected) and 'Specific'.
- DEFINITION MODE:** A dropdown menu set to 'Rows'.
- EXPRESSION:** Displays the expression `ToDouble(Sum([Sales])) / Total(Sum([Sales]))`. An 'Edit...' button is located below the expression text area.

- **Window Definition** specifies a window that limits measure values participating in a calculation. You can choose between the *Predefined* and *Specific* window definitions.
 - For the *Predefined* window definition, you can specify the **Definition mode** that depends on the dashboard item type.
 - For the *Specific* window definition, you can manually specify the set of dimensions that fall into the window.
- **Expression** displays an expression generated for the current calculation. To change the expression, click **Edit**.

In the Grid below, **Percent of Total** is applied to a fourth column to show a contribution of individual quarterly sales to total sales.

Order Year	Order Quarter	Sales	Percent of Total
2015	Q1	\$138K	13.07%
2015	Q2	\$143K	13.54%
2015	Q3	\$154K	14.55%
2015	Q4	\$182K	17.18%
2016	Q1	\$298K	28.22%
2016	Q2	\$142K	13.44%

Running Summary

Can be used to compute a cumulative total for the specified measure across a window.

The screenshot shows the 'Running Summary' configuration dialog. It has sections for 'COMMON', 'WINDOW DEFINITION', 'DEFINITION MODE', 'SUMMARY TYPE', and 'EXPRESSION'. Under 'WINDOW DEFINITION', the 'Predefined' tab is selected. Under 'DEFINITION MODE', 'Rows' is chosen. Under 'SUMMARY TYPE', 'Sum' is selected. In the 'EXPRESSION' section, the expression 'RunningSum(Sum([Sales]))' is displayed, with an 'Edit...' button below it.

- **Window Definition** specifies a window that limits measure values participating in a calculation. You can choose between the *Predefined* and *Specific* window definitions.
 - For the *Predefined* window definition, you can specify the **Definition mode** that depends on the dashboard item type.
 - For the *Specific* window definition, you can manually specify the set of dimensions that fall into the window.
- **Summary Type** - Specifies a summary function used to apply a calculation.
- The **Expression** displays an expression generated for the current calculation. To change the expression, click **Edit**.

In the Grid below, the **Running Total** is applied to a fourth column to display cumulative sales across all quarters.

Order Year	Order Quarter	Sales	Running Total
2015	Q1	\$138K	\$138K
2015	Q2	\$143K	\$281K
2015	Q3	\$154K	\$435K
2015	Q4	\$182K	\$617K
2016	Q1	\$298K	\$916K
2016	Q2	\$142K	\$1.06M

Difference

Can be used to compute the difference between measure values across a window.

The screenshot shows the 'Difference' configuration dialog. At the top right is a back arrow and the title 'Difference'. Below the title are two tabs: 'COMMON' (selected) and 'ADVANCED'. Under 'COMMON', there's a section for 'WINDOW DEFINITION' with 'Predefined' selected. Under 'DEFINITION MODE', a dropdown menu is set to 'Rows'. In the 'TARGET' section, the dropdown is set to 'Previous'. Under 'DIFFERENCE TYPE', 'Absolute' is selected. In the 'EXPRESSION' section, the formula `Sum([Sales]) - Lookup(Sum([Sales]), -1)` is displayed in a text input field, with an 'Edit...' button below it.

- **Window Definition** specifies a window that limits measure values participating in a calculation. You can choose between the *Predefined* and *Specific* window definitions.

- For the *Predefined* window definition, you can specify the **Definition mode** that depends on the dashboard item type.
- For the *Specific* window definition, you can manually specify the set of dimensions that fall into the window.
- **Target** - Specifies the value used to calculate the difference. The following values are available: *Previous*, *Next*, *First* and *Last*.
- **Difference Type** - Specifies whether the absolute or percentage difference is calculated.
- **Expression** displays an expression generated for the current calculation. To change the expression, click **Edit**.

In the Grid below, the **Difference** is applied to a fourth column to show absolute differences between quarterly sales.

Order Year	Order Quarter	Sales	Difference
2015	Q1	\$138K	
2015	Q2	\$143K	\$4.89K
2015	Q3	\$154K	\$10.8K
2015	Q4	\$182K	\$27.7K
2016	Q1	\$298K	\$117K
2016	Q2	\$142K	-\$156K

Percentage Difference

A calculation is used to compute the difference in percentages between measure values across a window.

The screenshot shows the 'Percentage Difference' configuration dialog. At the top left is a back arrow icon. The title 'Percentage Difference' is centered at the top. Below the title are two tabs: 'COMMON' (selected) and 'WINDOW DEFINITION'. Under 'COMMON', there are sections for 'WINDOW DEFINITION' (with 'Predefined' selected), 'DEFINITION MODE' (set to 'Rows'), 'TARGET' (set to 'Previous'), 'DIFFERENCE TYPE' (with 'Percent' selected), and 'EXPRESSION' (containing the formula `ToDouble(Sum([Sales])) - Lookup(Sum([Sales]), -1)) / Lookup(Sum([Sales]), -1)` and an 'Edit...' button). The background of the dialog is light gray.

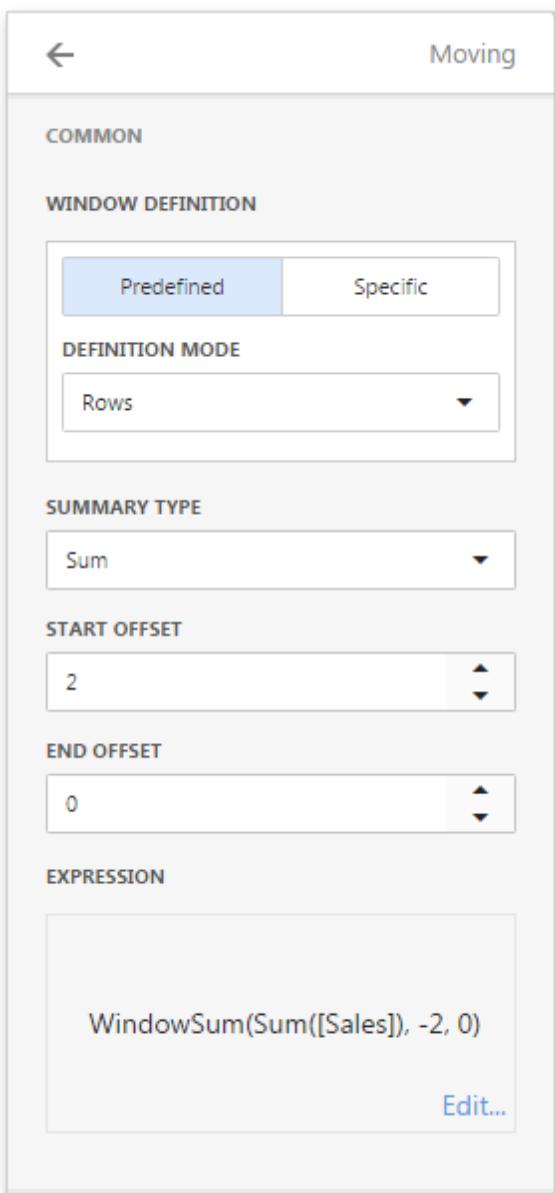
- **Window Definition** specifies a window that limits measure values participating in a calculation. You can choose between the *Predefined* and *Specific* window definitions.
 - For the *Predefined* window definition, you can specify the **Definition mode** that depends on the dashboard item type.
 - For the *Specific* window definition, you can manually specify the set of dimensions that fall into the window.
- **Target** - Specifies the value used to calculate the difference. The following values are available: *Previous*, *Next*, *First* and *Last*.
- **Difference Type** - Specifies whether the absolute or percentage difference is calculated.
- **Expression** displays an expression generated for the current calculation. To change the expression, click **Edit**.

In the Grid below, **Percentage Difference** is applied to a fourth column to show percentage differences between quarterly sales.

Order Year	Order Quarter	Sales	Percent Difference
2015	Q1	\$138K	
2015	Q2	\$143K	3.53%
2015	Q3	\$154K	7.52%
2015	Q4	\$182K	18.02%
2016	Q1	\$298K	64.29%
2016	Q2	\$142K	-52.38%

Moving

The Moving calculation uses neighboring values to calculate a total.



- **Window Definition** specifies a window that limits measure values participating in a calculation. You can choose between the *Predefined* and *Specific* window definitions.
 - For the *Predefined* window definition, you can specify the **Definition mode** that depends on the dashboard item type.
 - For the *Specific* window definition, you can manually specify the set of dimensions that fall into the window.
- **Summary Type** - Specifies a summary function used to apply a calculation.
- **Start Offset/End Offset** - Specify start/end offsets from the currently processed value. For instance, if you specified offsets as 1/1, the previous and next values will be used along with the current value to apply the Moving calculation.
- The **Expression** displays an expression generated for the current calculation. To change the expression, click **Edit**.

In the Grid below, a **Moving** calculation is applied to a fourth column to show a moving average across all quarters.

Order Year	Order Quarter	Sales	Moving Average
2015	Q1	\$138K	\$138K
2015	Q2	\$143K	\$141K
2015	Q3	\$154K	\$145K
2015	Q4	\$182K	\$160K
2016	Q1	\$298K	\$211K
2016	Q2	\$142K	\$207K

Rank

Use the Rank calculation to compute rankings for the specified measure across a window.

The screenshot shows the 'Rank' configuration dialog box. It includes sections for 'COMMON', 'WINDOW DEFINITION' (with tabs for 'Predefined' and 'Specific'), 'DEFINITION MODE' (set to 'Rows'), 'RANK TYPE' (set to 'Competition'), 'RANK ORDER' (set to 'Ascending'), and 'EXPRESSION' (containing the formula 'RankCompetition(Sum([Sales]), 'asc')'). An 'Edit...' button is located at the bottom right of the expression input field.

- **Window Definition** specifies a window that limits measure values participating in a calculation. You can choose between the *Predefined* and *Specific* window definitions.

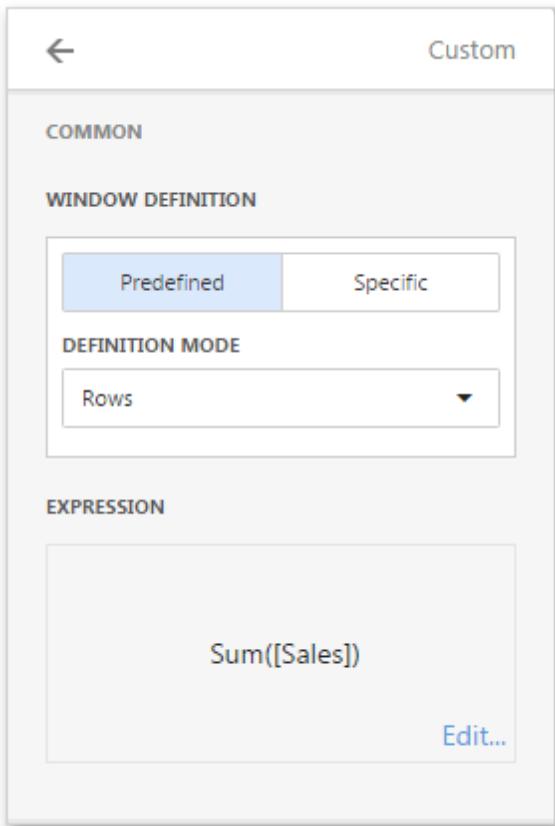
- For the *Predefined* window definition, you can specify the **Definition mode** that depends on the dashboard item type.
- For the *Specific* window definition, you can manually specify the set of dimensions that fall into the window.
- **Rank Type** - Specifies the type of ranking. The following ranking types are available: *Unique*, *Competition*, *Dense*, *Modified* and *Percentile*.
- **Rank Order** - Specifies the order of ranking. You can select *Ascending* or *Descending*.
- The **Expression** displays an expression generated for the current calculation. To change the expression, click **Edit**.

In the Grid below, a **Rank** calculation is applied to a fourth column to show a ranking of sales for individual quarters.

Order Year	Order Quarter	Sales	Rank
2015	Q1	\$138K	6
2015	Q2	\$143K	4
2015	Q3	\$154K	3
2015	Q4	\$182K	2
2016	Q1	\$298K	1
2016	Q2	\$142K	5

Custom

Use Custom to specify a custom calculation by adding the required calculation functions inside the measure expression.



- **Window Definition** specifies a window that limits measure values participating in a calculation. You can choose between the *Predefined* and *Specific* window definitions.
 - For the *Predefined* window definition, you can specify the **Definition mode** that depends on the dashboard item type.
 - For the *Specific* window definition, you can manually specify the set of dimensions that fall into the window.
- The **Expression** allows you to change the expression for the current measure. To change the expression, click **Edit**.

Dashboard Parameters

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Analysis](#) > [Dashboard Parameters](#)

You can use **dashboard parameters** when it is necessary to pass data of a certain type to a dashboard (e.g., to pass a specific value to the data source filter string or a calculated field).

These topics describe how to use dashboard parameters.

- [Creating Parameters](#)
- [Passing Parameter Values](#)
- [Requesting Parameter Values](#)

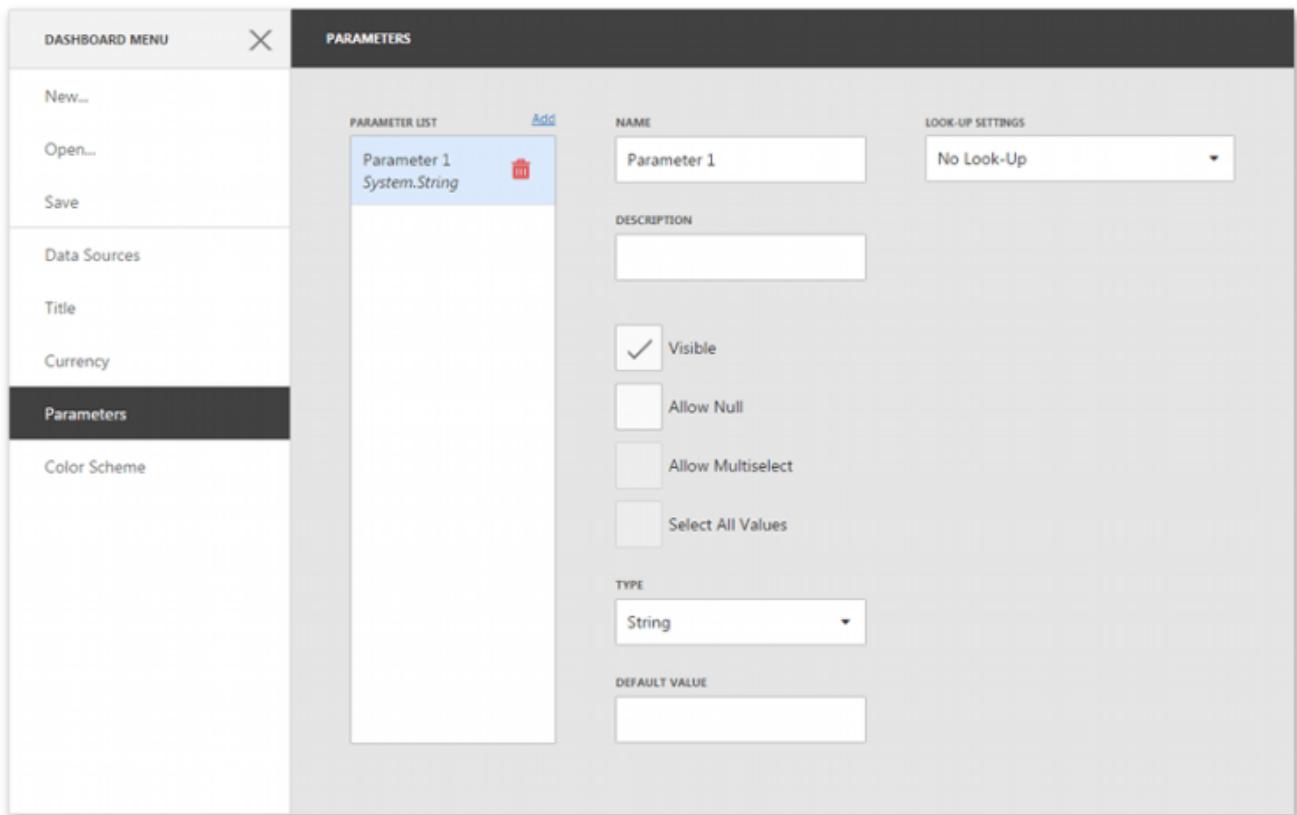
Creating Parameters

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Analysis](#) > [Dashboard Parameters](#) > [Creating Parameters](#)

To create a dashboard parameter in the Web Dashboard, perform the following steps.

1. Invoke the [Dashboard Menu](#) and select **Parameters**.

2. In the **Parameter List**, click the **Add New Parameter** button. The following settings will be displayed for the created parameter.



3. Specify the following parameter's settings.

- **Name** - Specifies the parameter name.

- **Description** - Specifies the parameter's description.

The parameter's description is the value displayed in the **Parameter Name** column of the [Dashboard Parameters](#) dialog.

- **Visible** - Specifies whether or not the parameter is visible in the [Dashboard Parameters](#) dialog.

- **Allow Null** - Specifies whether or a not null value can be passed as a parameter value.

- **Allow Multiselect** - Specifies whether or not multi-selection is enabled for the current parameter.

- **Select All Values** - Specifies whether or not all parameter values should be selected in the initial state. Note that this option is in effect when **Allow Multiselect** is set to **true**.

- **Type** - Specifies the parameter type.

- **Default Value** - Specifies the default parameters value.

- **Look-Up Settings** - Specifies the parameter's look-up editor settings. To learn more, see the next step.

4. Depending on the selected **Look-up Settings** option, you need to specify the following settings.

- **No Look-Up** - Allows you to specify the required parameter value manually in the [Dashboard Parameters](#) dialog.

- **Static List** - Allows you to select a parameter value defined in a static list. To add predefined

parameter values, use the **+** button.

- **Dynamic List** - Allows you to select a parameter value defined in a data source. To provide access to data source values, specify the following options.
 - 4..a.First, select the required **Data Source** from the list of available data sources. For the SQL data source, select the required **Data Member** that specifies the query/data member from the selected **Data Source**.
 - 4..b.Then, specify data members for the dashboard parameter's value and display name using **Value Member** and **Display Member**, respectively.
 - 4..c.If necessary, specify the data member used to sort parameter values using the **Sort By** option. The **Sort Order** specifies the required sort order.

Passing Parameter Values

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Analysis](#) > [Dashboard Parameters](#) > [Passing Parameter Values](#)

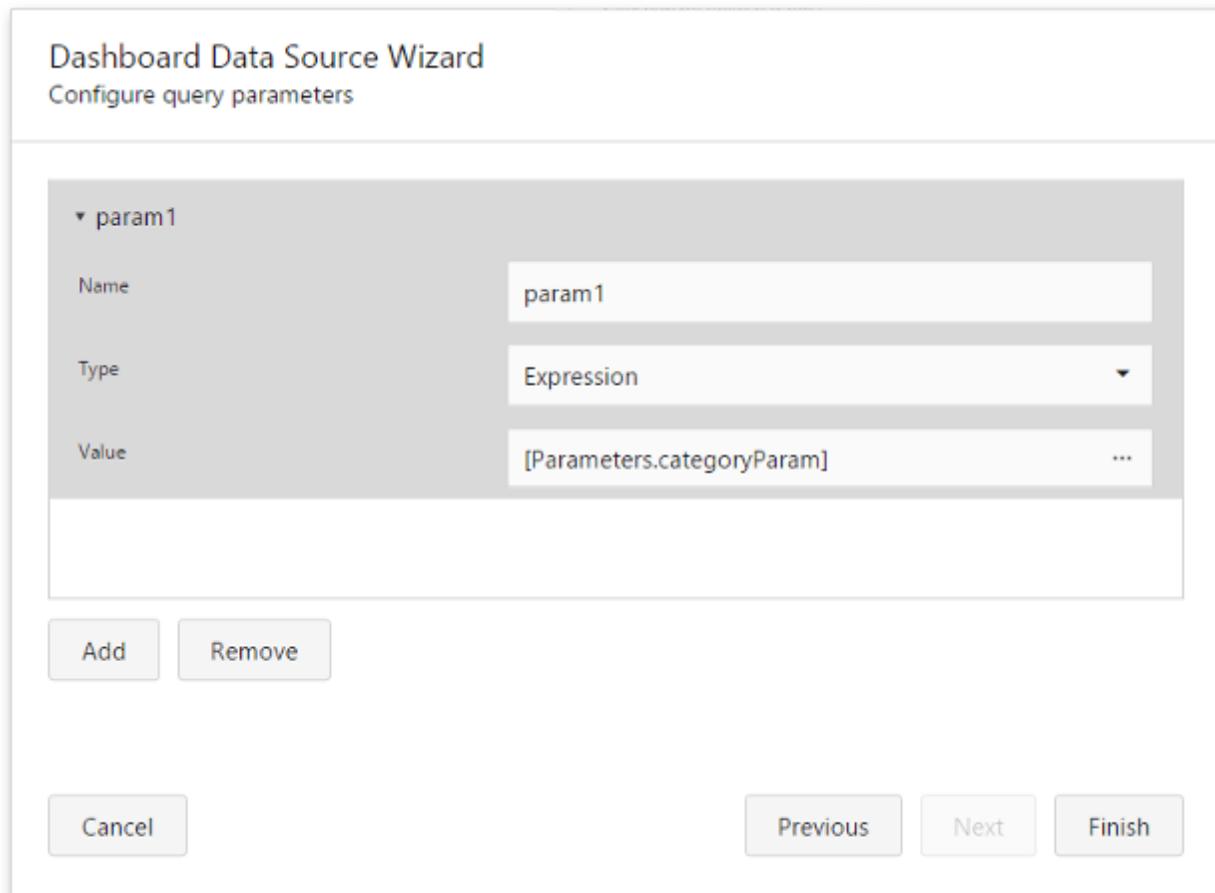
In this topic, it describes how to pass the created dashboard parameter to the dashboard. For instance, you can include a dashboard parameter to a *WHERE* clause of the SQL query or you can filter a dashboard dynamically according to the required parameter value(s).

The created dashboard parameter can be used in the following scenarios:

- [SQL Queries](#)
- [Filtering](#)
- [Conditional Formatting](#)
- [Calculated Fields](#)
- [Window Calculations](#)

SQL Queries

The Web Dashboard provides the capability to bind a dashboard parameter and the existing [SQL query/stored procedure](#) parameter. This can be useful when you need to [filter the SQL query](#) dynamically by including the parameter value in the *WHERE* clause.



To bind a dashboard parameter to an SQL query/stored procedure parameter in the [Dashboard Data Source Wizard](#), do the following:

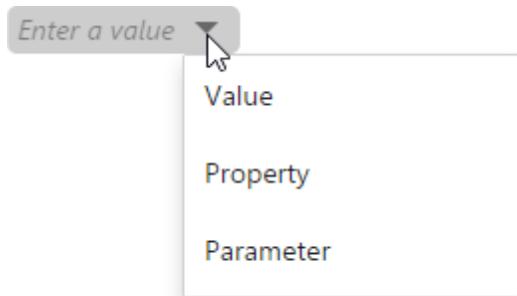
- Select the existing query/stored procedure parameter or create a new query parameter using the **Add** button.
- Set the **Expression** as a parameter value and click the ellipsis button to invoke the Expression Editor for this parameter.

- In the Expression Editor add the required dashboard parameter from the Parameters column.

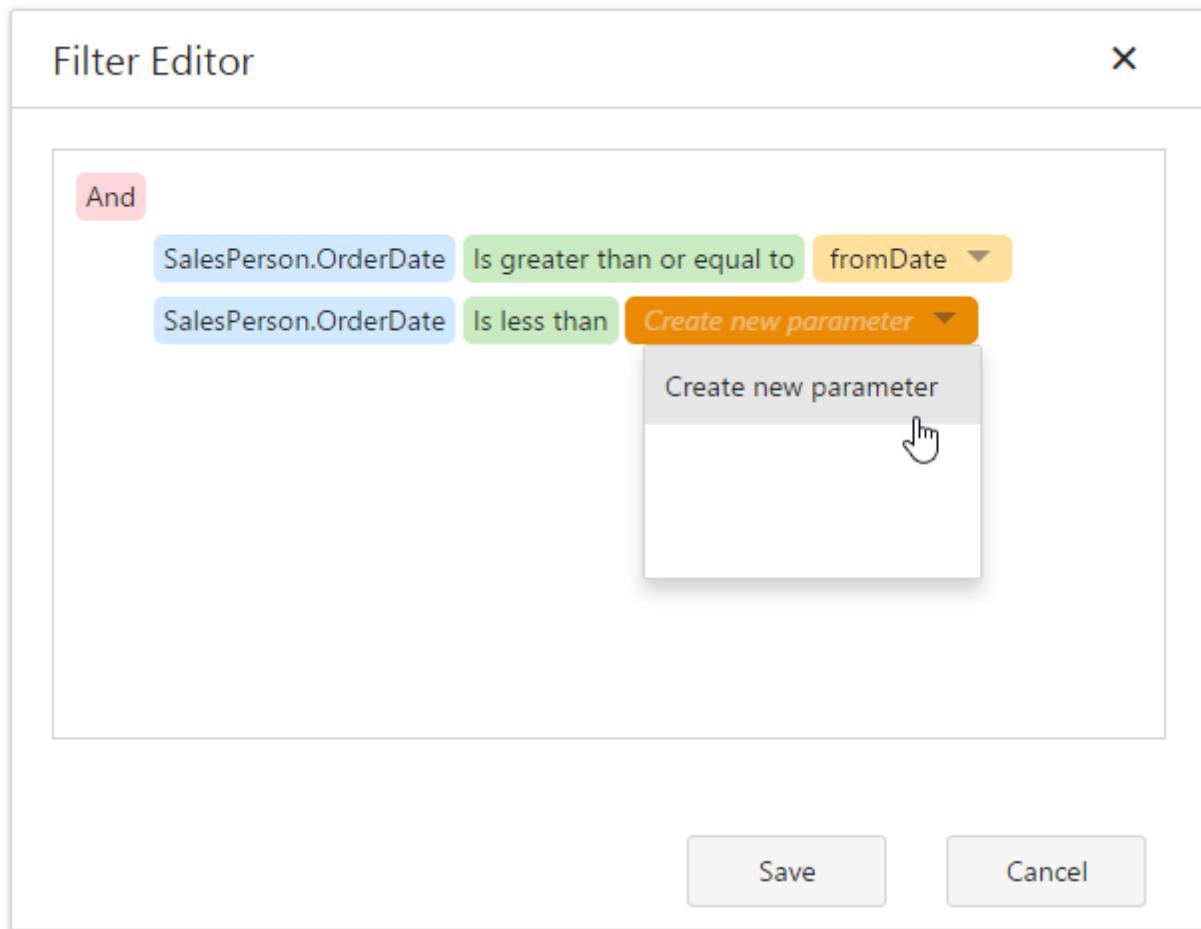
Filtering

You can filter the specified [query](#) of the SQL Data Source, the entire [Excel Data Source/Object Data Source](#) or [apply filtering](#) to a specific dashboard item according to the current parameter value(s) using the Filter Editor.

In the Filter Editor, you can compare a field value with different objects such as static values, values of another field or parameter values. To switch between values, click a down arrow glyph in the operand value placeholder to expand the list of available objects. Select the **Parameter** object to compare a field value with a parameter value.

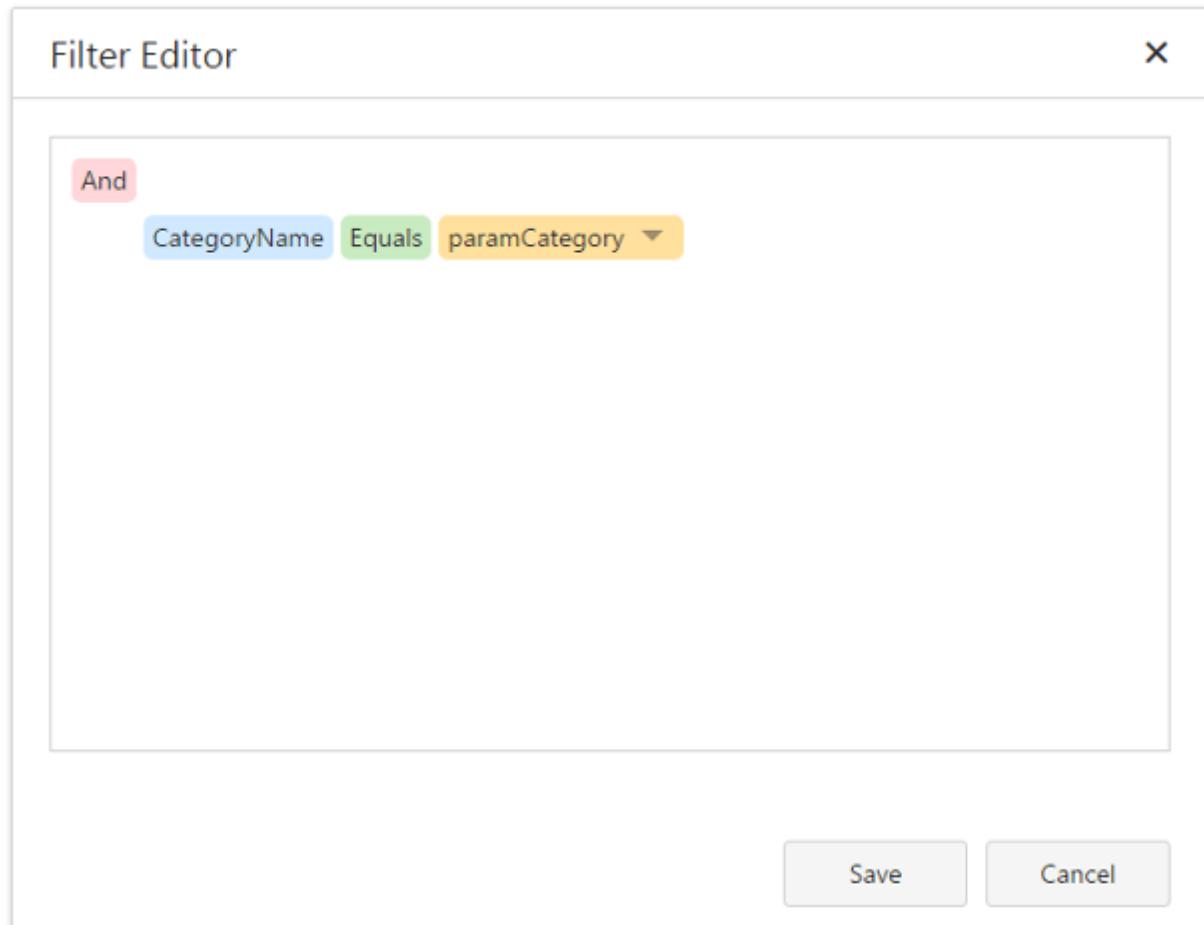


Then, click the operand value to invoke the list of available parameters and select the existing parameter or create a new one.



Conditional Formatting

You can apply conditional formatting to a specific dashboard item according to the current parameter value when creating the [Expression format condition](#). Use this capability to format dashboard item elements dynamically, depending on the current parameter value.



To switch between values, click the down arrow glyph in the operand value placeholder to expand the list of available objects and select the **Parameter** object to create a format rule with a parameter.

Calculated Fields

You can use parameters when constructing [expressions](#) for [calculated fields](#). This allows you to evaluate values of the calculated field dynamically depending on the current parameter value.

CREATE CALCULATED FIELD

Name: Price

Field Type: Decimal

[UnitPrice] * (1 - [Parameters.SeasonDiscount])

OPERATORS: + - × ÷ % () = ≠ < ≤ ≥ >

FUNCTIONS: Aggregate, Date-Time, Logical, Math, String

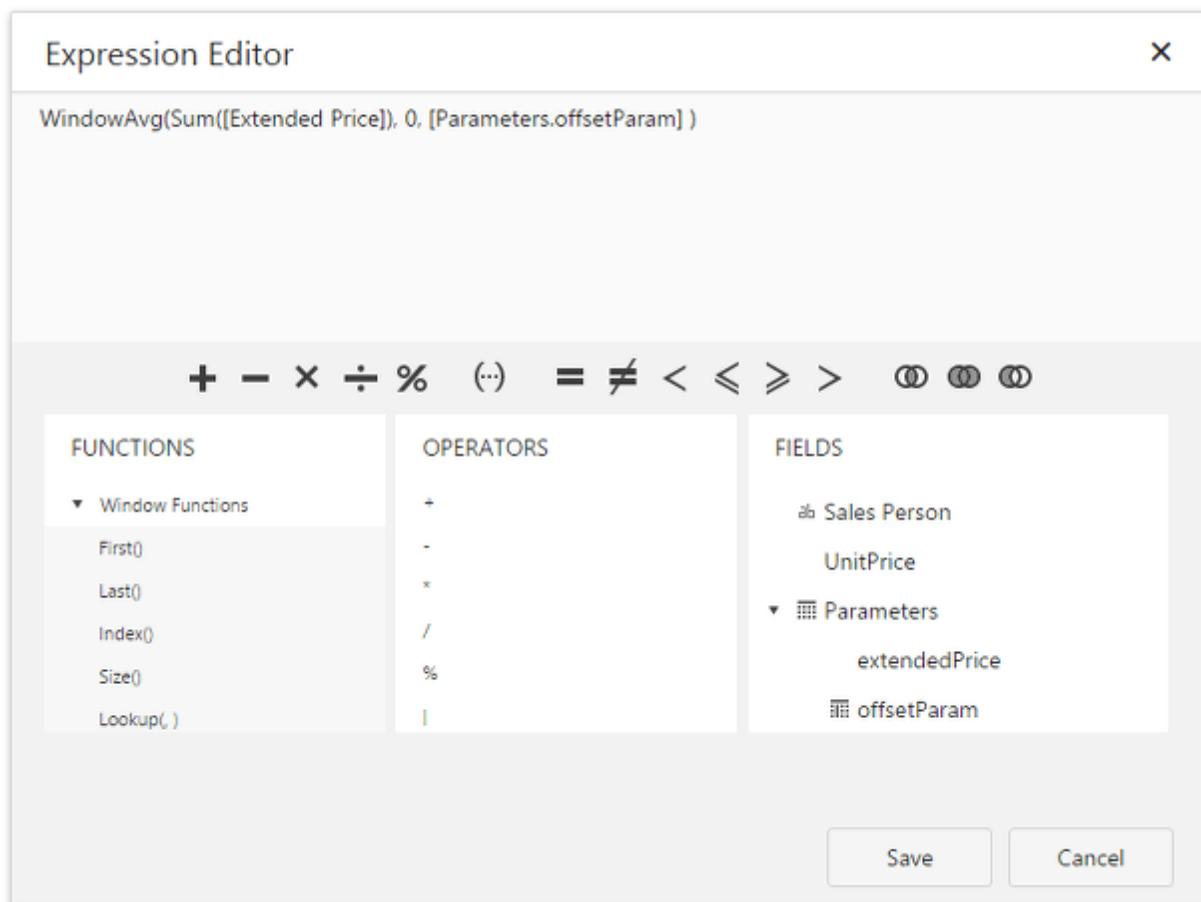
FIELDS: UnitPrice, Parameters, Date, SeasonDiscount

Save **Cancel**

To include a parameter in the expression, double-click the required parameter in the Fields pane.

Window Calculations

You can use parameters when customizing expressions for [window calculations](#). This allows you to apply a calculation dynamically, depending on the current parameter value.



To create the calculation with a parameter, select the **Custom** calculation and click **Edit**. In the invoked Expression Editor double-click the required parameter.

Requesting Parameter Values

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Data Analysis](#) > [Dashboard Parameters](#) > [Requesting Parameter Values](#)

The Web Dashboard provides a built-in **Dashboard Parameters** dialog, which provides the capability to change dashboard parameter values. This dialog is created automatically, depending on the parameter type and visibility settings.

The screenshot shows a modal dialog titled "Dashboard Parameters". It contains a table with two columns: "Parameter" and "Value". A single row is visible, showing "Year" in the Parameter column and "2009" in the Value column. There is a dropdown arrow next to the value field. At the bottom of the dialog are three buttons: "Reset", "Submit", and "Cancel".

To invoke the Dashboard Parameters dialog in the Web Dashboard, click the **Parameters** button (the icon) in the [dashboard title](#).

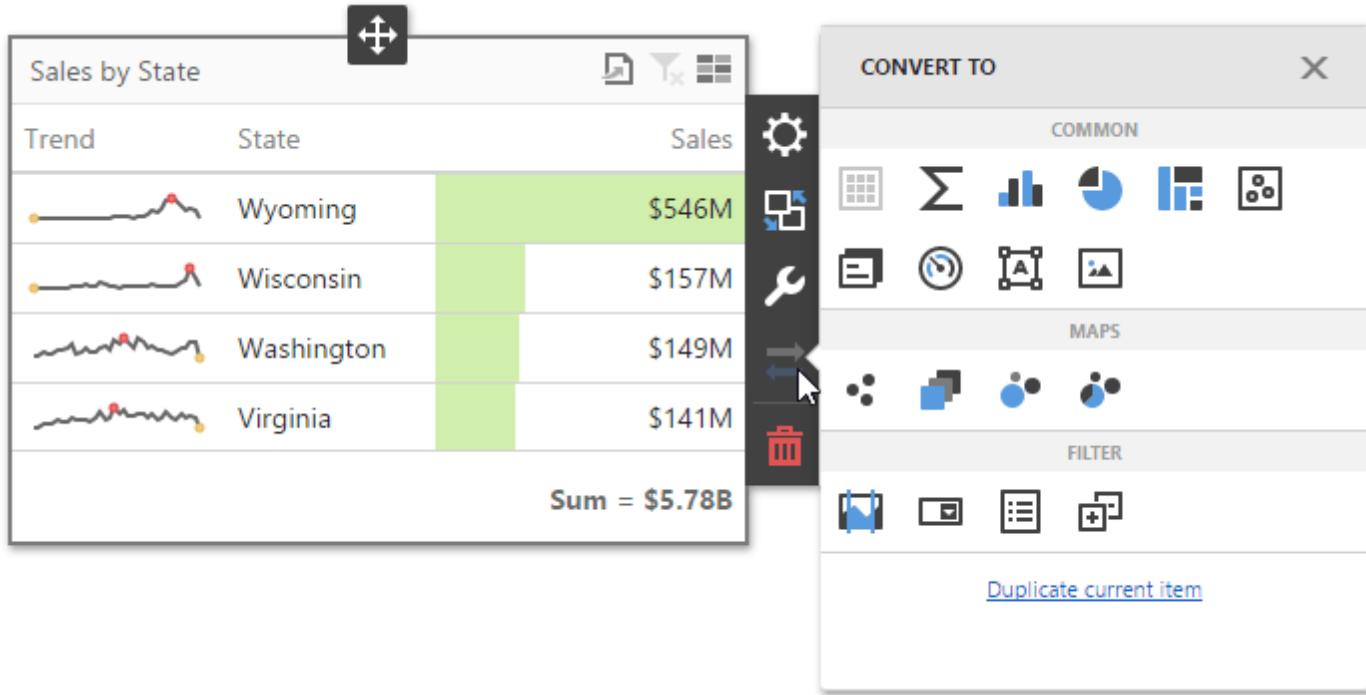
Select the required parameter values in the Dashboard Parameters dialog and click the **Submit** button to apply the changes. To restore the default values, click the **Reset** button.

Converting Dashboard Items

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Converting Dashboard Items](#)

The Web Dashboard provides the capability to convert data-bound dashboard items to another type.

To convert the selected dashboard item to another type, use the dashboard item's [Convert To](#) menu.



Note

You can also created a copy of the selected dashboard item using the **Duplicate current item** command.

The Web Dashboard always preserves the following settings for data-bound dashboard items.

- The set of data items used to bind the dashboard item to data.
- Data shaping settings of data items and their names.
- A custom name displayed within the dashboard item caption.

The following settings are kept if the dashboard item is being converted to an item that also supports this feature.

- [Master Filtering](#) settings (e.g., the specified master filter mode).
- [Drill-Down](#) settings (e.g., the target dimension).
- [Conditional Formatting](#) settings.
- [Coloring](#) settings.
- [Calculation](#) settings.

For different types of dashboard items, some specific settings can be preserved. For example, the following settings are preserved.

- Legend settings for the [Chart/Scatter Chart](#) dashboard items.
- Series types for the [Chart/Range Filter](#) dashboard items.
- Element arrangement settings for the [Pie/Card/Gauge](#) dashboard items.
- Caption settings for the [Pie/Gauge](#) dashboard items.
- Navigation settings for [Choropleth Map/Geo Point Maps](#).
- The attribute whose values are displayed within shape titles for [Choropleth Map/Geo Point Maps](#).
- Legend settings for the [Choropleth Map/Geo Point Maps](#).

- Clustering settings for [Geo Point Maps](#).

Dashboard Layout

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Dashboard Layout](#)

This section describes the features related to the dashboard layout.

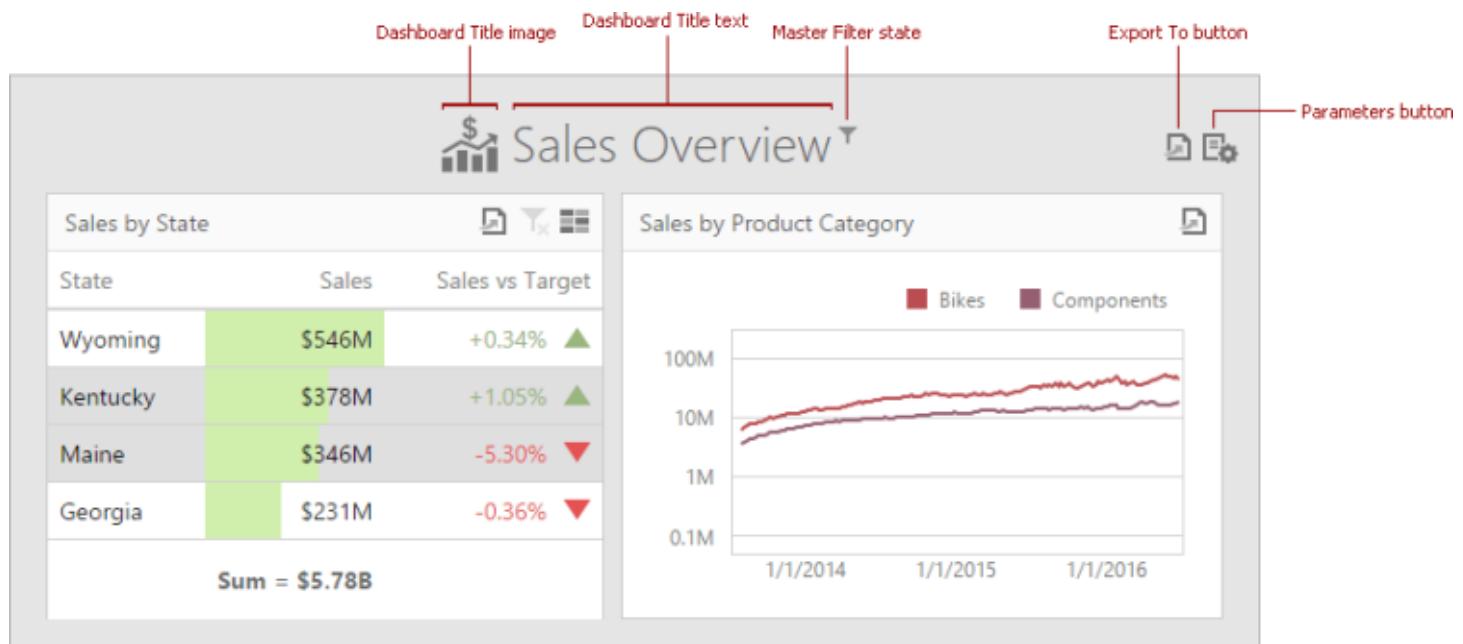
The section consists of the following topics.

- [Dashboard Title](#)
- [Dashboard Item Caption](#)
- [Dashboard Items Layout](#)

Dashboard Title

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Dashboard Layout](#) > [Dashboard Title](#)

The **Dashboard Title** is located at the top of the [dashboard surface](#) and can contain text and image content.



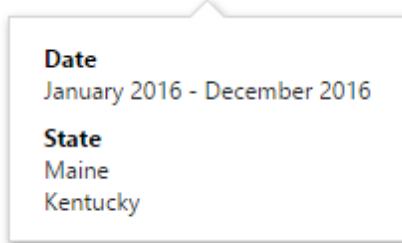
To change title settings, invoke the [dashboard menu](#) and open the **Title** page.

A screenshot of the Title configuration page. It has sections for TEXT, ALIGNMENT, IMAGE, and PREVIEW. The TEXT section contains a text input field with "Sales Overview" and a checked "Visible" checkbox. The ALIGNMENT section has "Left" selected. The IMAGE section has an "Image" input field and a "...". The PREVIEW section shows a preview of the dashboard title with the "Sales Overview" text and a small chart icon.

Here you can specify the following options.

- **Text** - Specifies the dashboard title text.
- **Visible** - Specifies whether or not the dashboard title is visible.
- **Alignment** - Specifies the alignment of the dashboard title.
- **Include Master Filter** - Specifies whether or not to show the state of master filter items in the dashboard title.

When you hover over the filter icon (▼), all master filters applied to the dashboard are displayed in the invoked popup.



- **Image** - Allows you to specify the image displayed within the dashboard title. The dashboard definition will contain an image as a byte array.

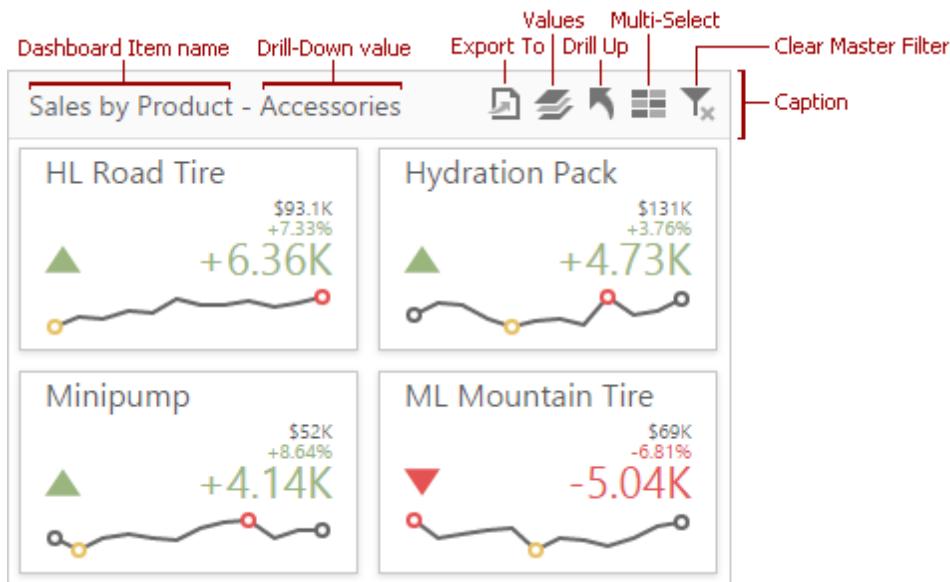
The dashboard title can contain the following command buttons.

- **Export To** - Allows you to export the entire dashboard. To learn more about exporting, see [Exporting](#).
- **Parameters** - Allows you to modify dashboard parameter values. To learn more about parameters, see [Parameters](#).

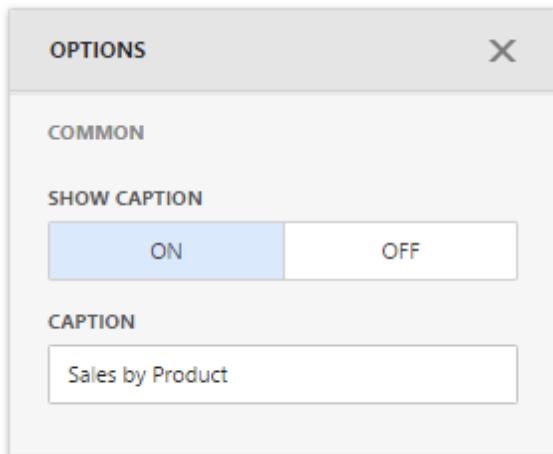
Dashboard Item Caption

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Dashboard Layout](#) > [Dashboard Item Caption](#)

Each dashboard item has a caption that is displayed at the top of this item. The caption contains static text along with other information, as well as command buttons.



To show or hide the caption of a dashboard item, go to the dashboard item **Options** menu and use the **Show Caption** option.



Note

The caption of the [Range Filter](#) dashboard item is not visible by default.

The caption of the dashboard item contains the following information and buttons, depending on the dashboard item type.

Icon	Description
Dashboard Item Name	Represents the static text within a dashboard item's caption.
Drill-Down	Shows a value or values from the current drill-down hierarchy. To learn more, see Drill-Down .

Export to	Allows you to print or export a dashboard item. To learn how to print individual dashboard items, see Exporting .
Values	Invokes a drop-down menu that allows you to switch between provided values (in the pie, card, gauge and maps dashboard items). To learn more, see the Providing Data topic for the corresponding dashboard item .
Clear Master Filter	Allows you to reset filtering when a dashboard item acts as the Master Filter. To learn more, see Master Filtering .
Drill Up	Allows you to return to the previous detail level when the drill-down capability is enabled for this item.

Dashboard Items Layout

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Dashboard Layout](#) > [Dashboard Items Layout](#)

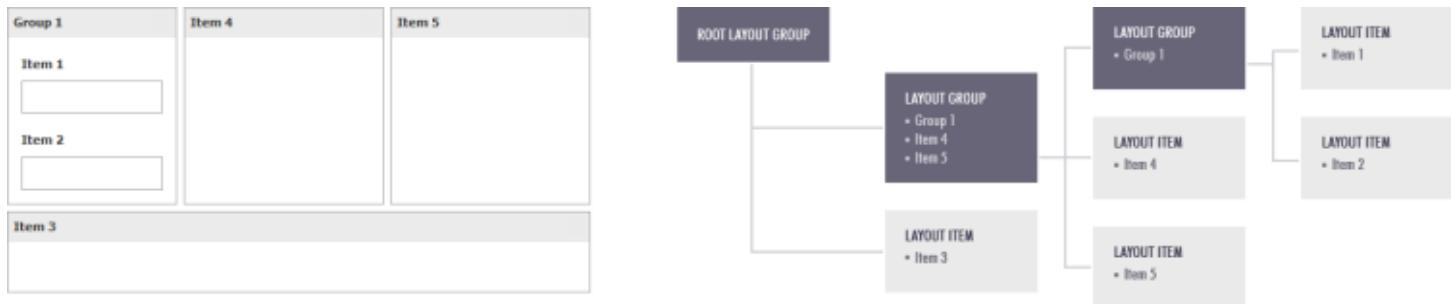
The **Web Dashboard** provides the capability to arrange and resize dashboard items and groups in various ways, using simple drag-and-drop operations.

Layout Concepts

The dashboard arranges dashboard items and groups using *layout items* and *layout groups*. They are special containers that are used to present a dashboard layout as a hierarchical structure.

- A **layout item** is used as a container that displays an individual dashboard item.
- A **layout group** is used as a container that is used to arrange layout items (or other layout groups) either horizontally or vertically. At the same time, layout groups are used as containers that display dashboard item groups.

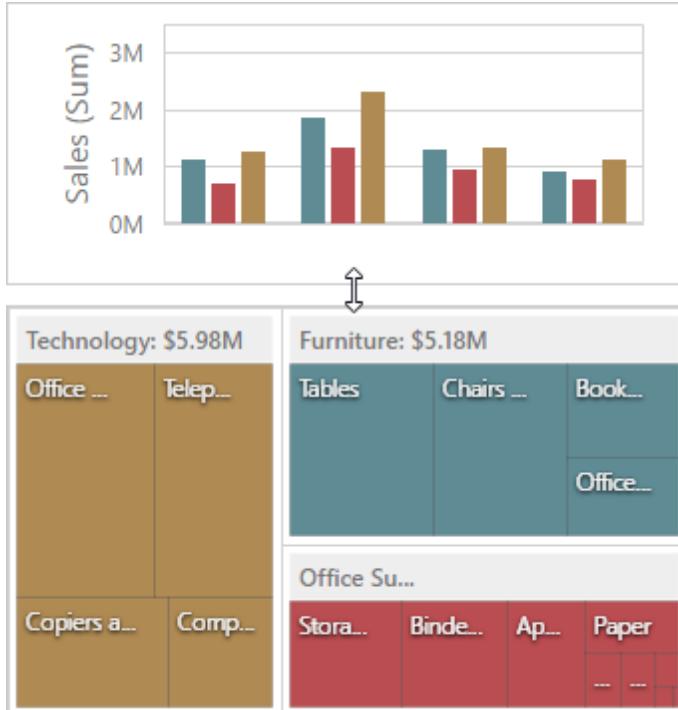
Thus, a dashboard layout is hierarchically arranged from the root layout group to bottommost layout items, which display individual dashboard items.



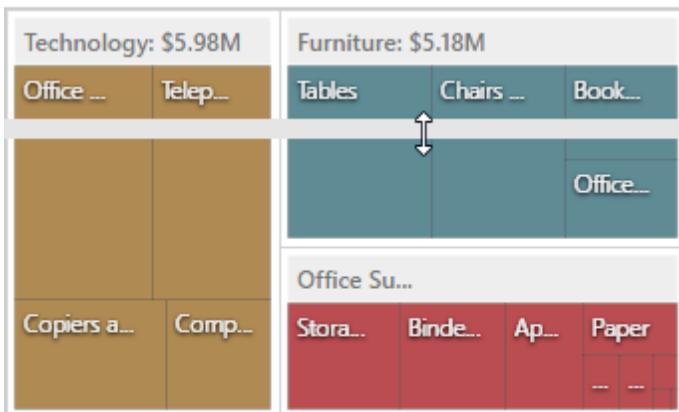
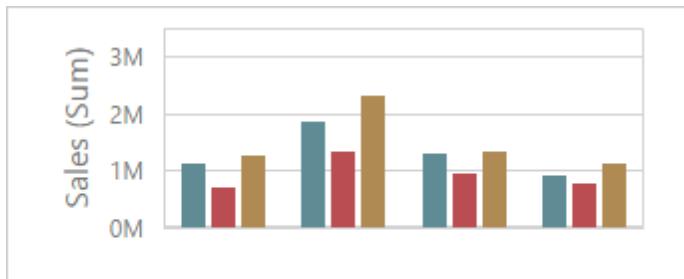
Item Resizing

You can resize individual items/groups of items by dragging their edges. For this, follow the steps below.

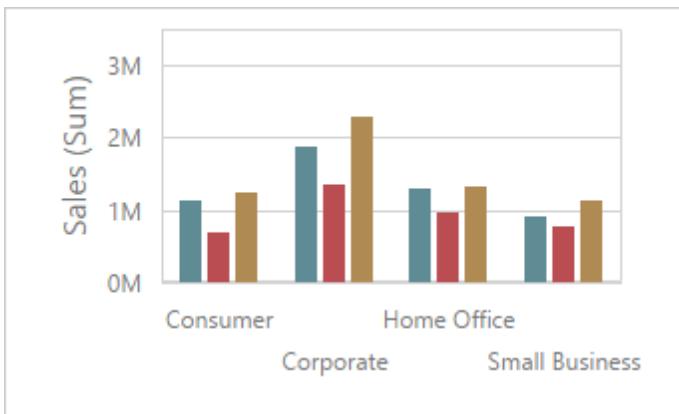
1. In the area allowing you to resize items, cursor types will be changed to **column resize / row resize**.



2. Left-click and drag the cursor until you get the expected sizes and release the left mouse button.



3. The dashboard items change their sizes.



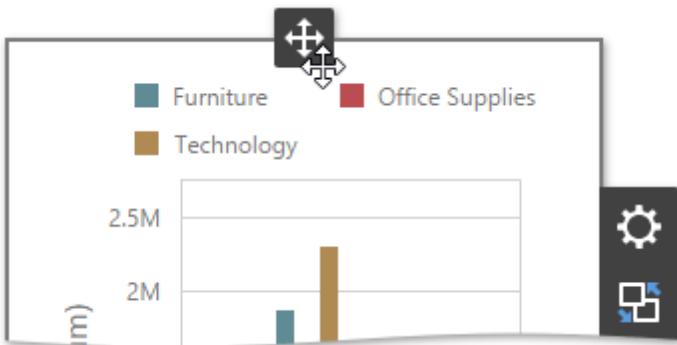
Item Positioning

You can change the position of a dashboard item by using drag-and-drop and the dashboard item's [Move](#) button.

Depending on the required dashboard item position, a new layout group is created (if required) to maintain the arrangement of items. Thus, the dashboard item can be inserted to the desired area of a new or existing dashboard layout group.

The following steps illustrates how a dashboard item is dragged.

1. Select a dashboard item and hover the [Move](#) button.

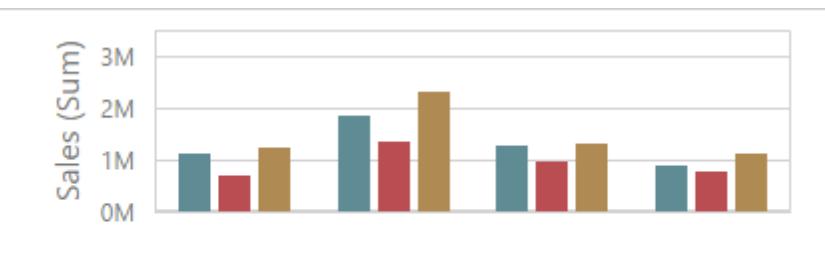


2. Drag the dashboard item to the expected area and release the left mouse button when the drop indicator displays the required area.

Technology: \$5.98M

Category	Sales (Sum)
Office Machines	~1.2M
Telephones ...	~0.8M
Copiers and Fax	~1.8M

3. The dashboard item is moved to a new position.



Undo and Redo Operations

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Undo and Redo Operations](#)

The Web Dashboard keeps track of all user actions, and allows you to undo or repeat them using the **Undo/Redo** buttons.

To undo/redo the last action, use the following buttons located in the [Toolbox](#).

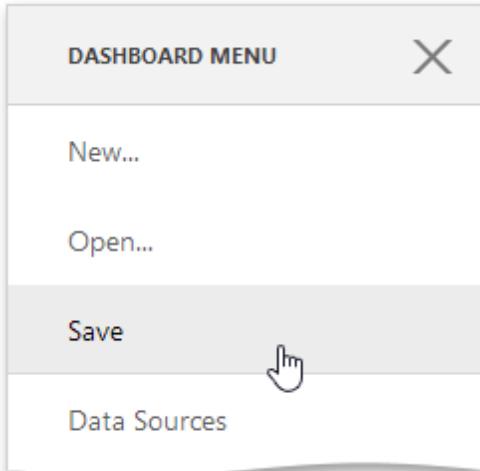


Saving a Dashboard

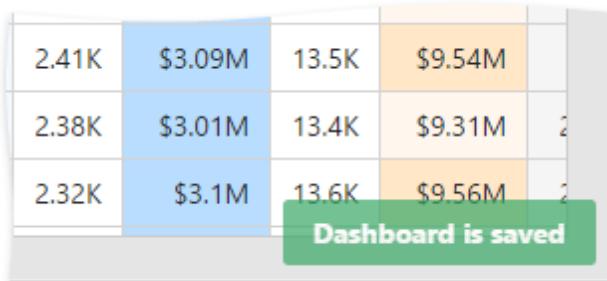
[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Saving a Dashboard](#)

The Web Dashboard provides the capability to save a dashboard definition (dashboard items, data source, data binding and layout settings, etc.) to an XML definition. This can be accomplished in the following ways.

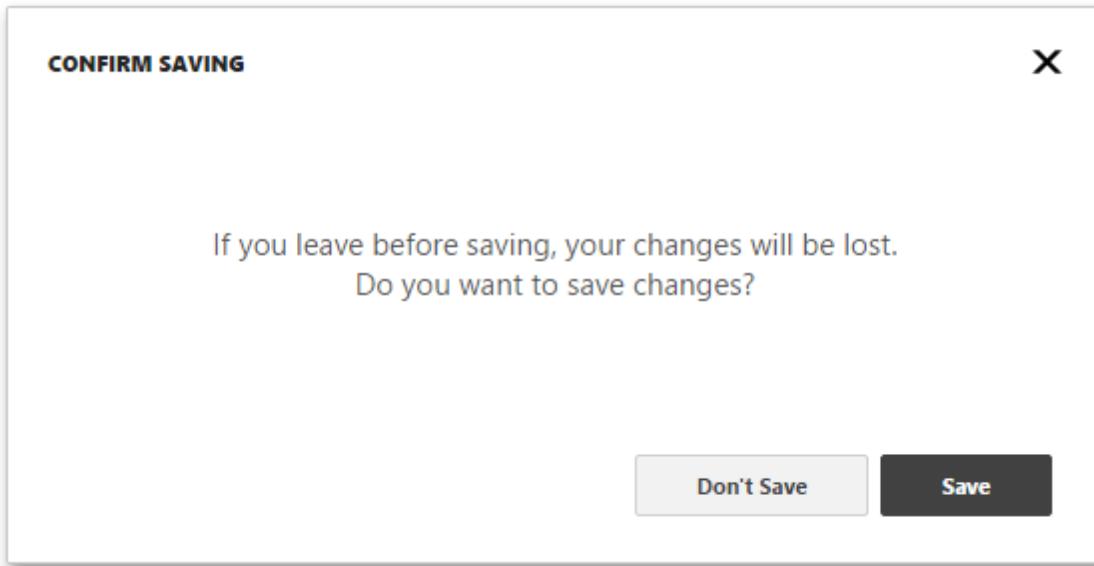
- You can save the dashboard definition manually. For this, open the [dashboard menu](#) and click **Save**.



The following message indicates that you have successfully saved the dashboard.



- The dashboard definition can be saved when the currently opened dashboard is closed (for instance, the page containing the Web Dashboard is closed, a new dashboard is created or a different dashboard is [opened](#)). By default, a save confirmation dialog will be invoked.

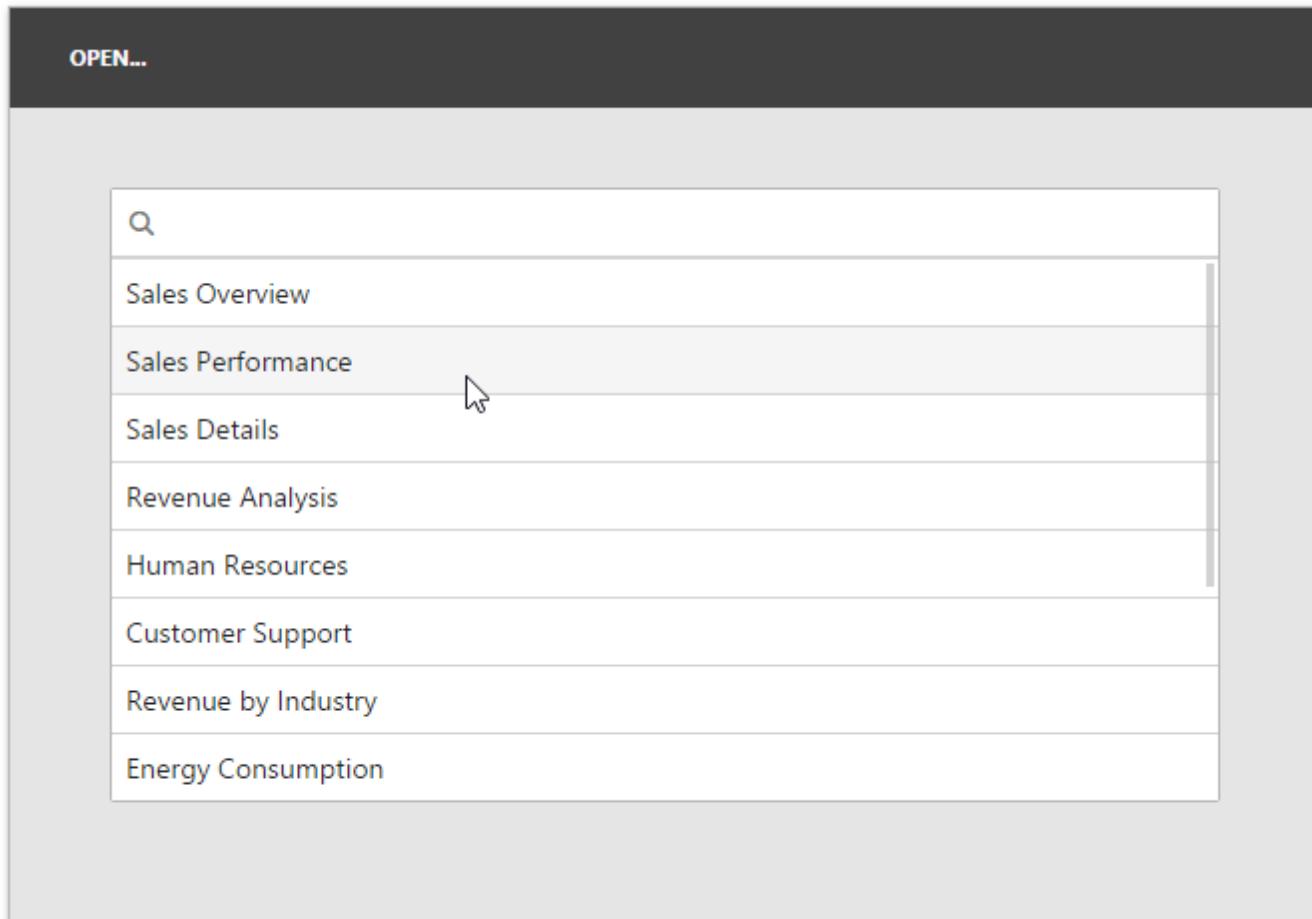


To learn how to open the saved dashboard, see [Opening a Dashboard](#).

Opening a Dashboard

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Opening a Dashboard](#)

To open a saved dashboard, go to the [dashboard menu](#) and click the **Open...** item. You will see a list of available dashboards.



Click the required dashboard to open it.

If the current dashboard has unsaved changes, you will see a save confirmation dialog.

CONFIRM SAVING

X

If you leave before saving, your changes will be lost.
Do you want to save changes?

Don't Save**Save**

Exporting

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [Exporting](#)

The Web Dashboard allows you to export an entire dashboard or individual [dashboard items](#). You can export the dashboard/dashboard items to PDF and Image formats; additionally, you can export dashboard item's data to Excel/CSV.

- [Exporting Dashboards](#)
- [Exporting Dashboard Items](#)

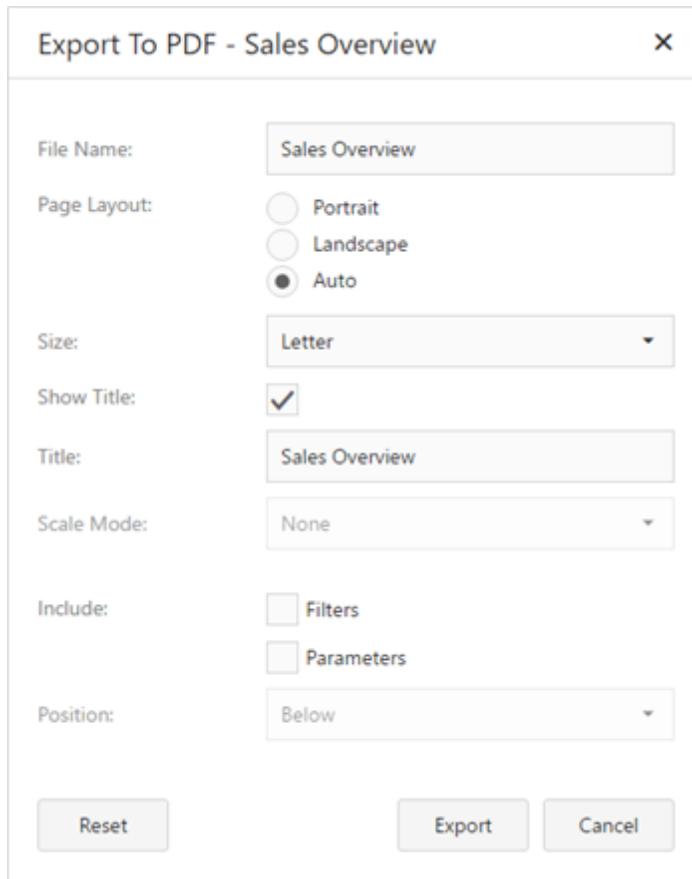
Exporting Dashboards

To export the entire dashboard, click the  button in the dashboard title area and choose the required action.



Export to PDF

Invokes a corresponding dialog that allows you to export a dashboard to a PDF file with specific options. The following options are available:



The dialog box has the following settings:

- File Name:** Sales Overview
- Page Layout:** Auto (selected)
- Size:** Letter
- Show Title:** checked
- Title:** Sales Overview
- Scale Mode:** None
- Include:** Filters (unchecked), Parameters (unchecked)
- Position:** Below

At the bottom are three buttons: Reset, Export (highlighted in blue), and Cancel.

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard. You can select between *Portrait*, *Landscape* and *Auto*. Note that in the *Auto* mode the page orientation is selected automatically depending on the horizontal and vertical sizes of a dashboard.
- **Size** - Specifies the standard paper size (for instance, *Letter* or *A4*).

- **Show Title** - Specifies whether or not to apply the dashboard title to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Scale Mode** - Specifies the mode for scaling when exporting a dashboard.



Note that this option is in effect when **Page Layout** is set to value different from Auto.

Export to Image

Invokes a corresponding dialog that allows you to export a dashboard to image of the specified format. The following options are available:

The dialog box has a title bar 'Export To Image - Sales Overview' with a close button 'X'. It contains the following fields:

- File Name:
- Show Title:
- Title:
- Image Format:
- Resolution (dpi):
- Include:
 - Filters
 - Parameters

- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard title to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard is exported. The following formats are available: *PNG*, *JPEG* and *GIF*.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard.

Export to Excel

Invokes a corresponding dialog that allows you to export dashboard's data to the Excel file. The following options are available:

Export To Excel - Sales Overview X

File Name:

Excel Format: ▼

Include:

Filters
 Parameters

Position: ▼

Reset Export Cancel

- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel workbook format in which the dashboard's data is exported. You can select between XLSX and XLS.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

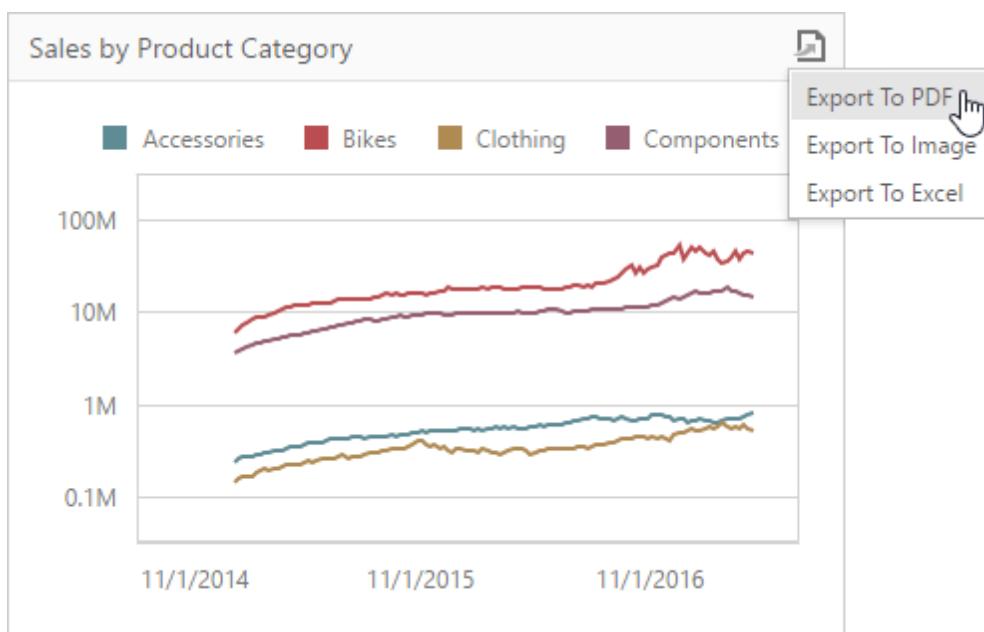
Specify the required options in the dialog and click the **Export** button to export the dashboard. To reset the changes to the default values, click the **Reset** button.

 **Note**

If you export the entire dashboard, its current state is preserved (e.g., the [dashboard layout](#), the scroll position of individual dashboard items and selections within [master filter](#) items).

Exporting Dashboard Items

To export a dashboard item, click the  button in the dashboard item caption area and choose the required action.



- **Export to PDF** - Invokes a corresponding dialog that allows you to export a dashboard to a PDF file with specific options.
- **Export to Image** - Invokes a corresponding dialog that allows you to export a dashboard to image of the specified format.
- **Export to Excel** - Invokes a corresponding dialog that allows you to export a dashboard item's data to the Excel workbook or CSV file.

To learn more about exporting specifics of different dashboard items, see the [Exporting](#) topic for the required [dashboard item](#).

Note

When an individual dashboard item is printed, the entire item's content is reflected in the printed document regardless of the item's current scroll position.

UI Elements

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [UI Elements](#)

The topics on this page describe control elements that you can see on the screen. Each topic contains a screenshot that outlines the described element and a brief overview of the element's purpose.

The Web Dashboard consists of the following visual elements.

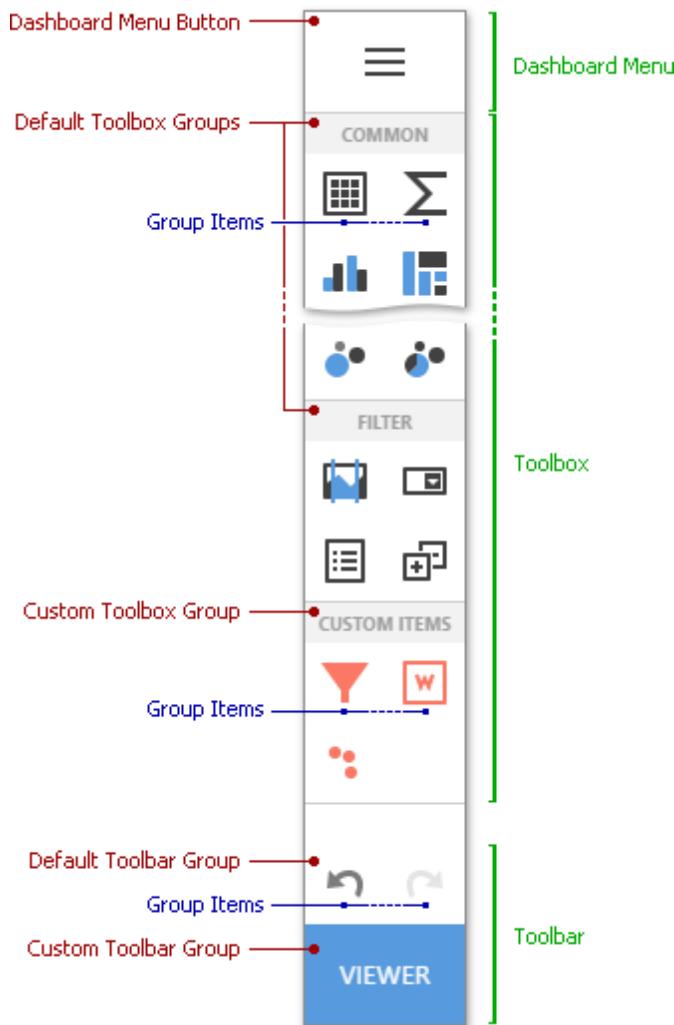
- [Toolbox](#)
- [Dashboard Surface](#)
- [Dashboard Menu](#)
- [Dashboard Item Menu](#)
- [Data Item Menu](#)

Toolbox

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [UI Elements](#) > [Toolbox](#)

The **Toolbox** provides access to the dashboard menu, and allows you to add dashboard items, as well as undo or repeat user actions.

The main parts of the Toolbox are listed below.

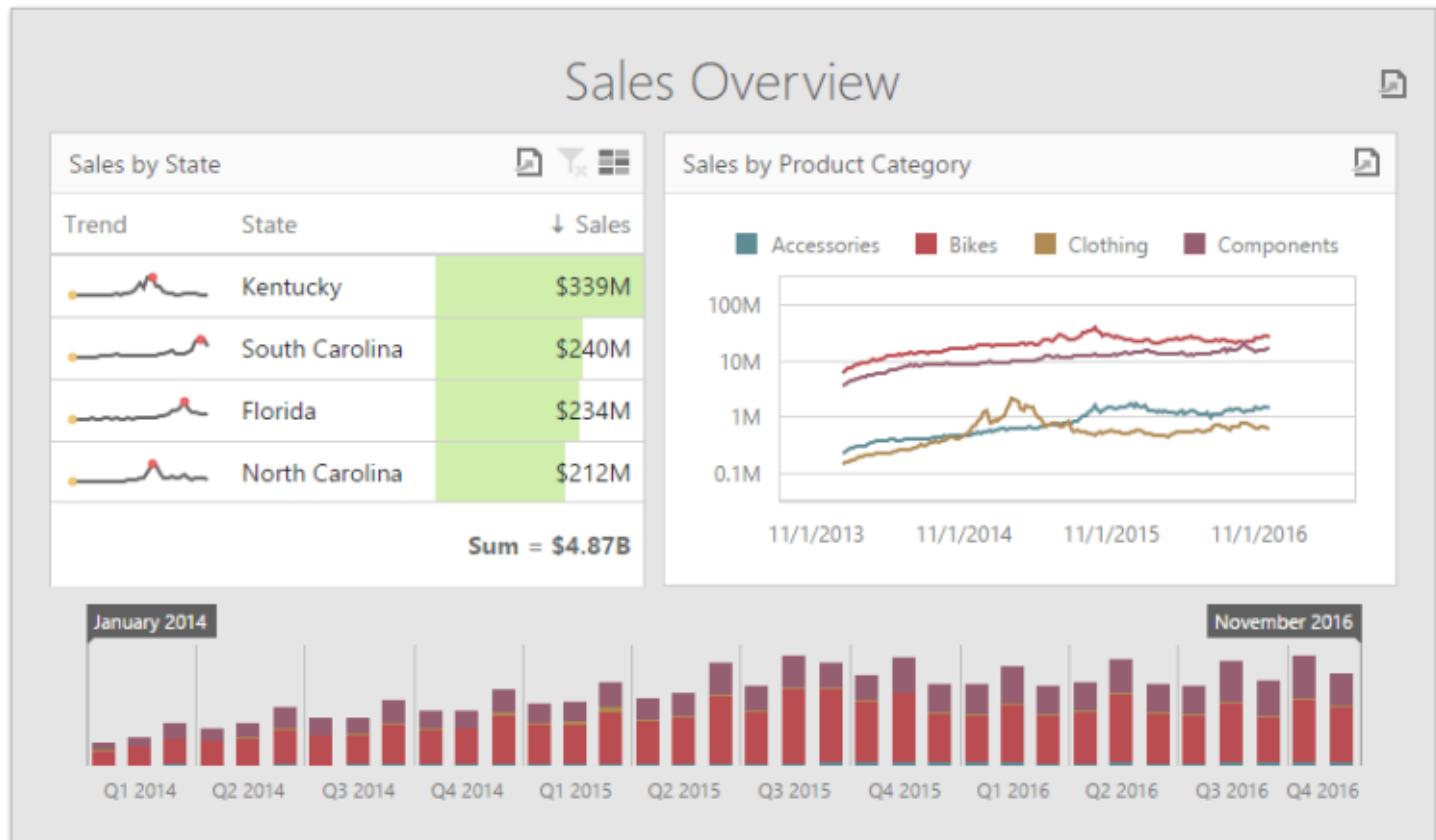


- **Dashboard Menu** - contains the dashboard menu elements. They allow you to save or load dashboards and configure general dashboard settings. To invoke this menu, click on the [Dashboard Menu](#) button.
- **Toolbox** - contains buttons that allow you to add dashboard items like [Grid](#), [Maps](#), [Treemap](#), [Filter Elements Overview](#) or custom items.
- **Toolbar** - the bottom part of the Toolbox that contains undo/redo buttons and buttons with custom functionality.

Dashboard Surface

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [UI Elements](#) > [Dashboard Surface](#)

The **Dashboard Surface** is a rectangular area that displays the dashboard that you are designing. This area includes [dashboard items](#) and the [dashboard title](#).



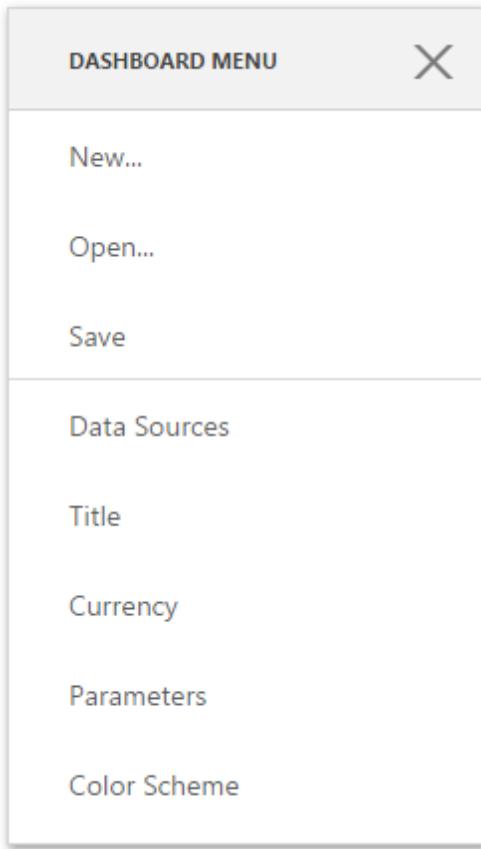
You can customize a [dashboard items layout](#) using drag-and-drop operations, and specify dashboard item settings using its [dashboard item menu](#).

Dashboard Menu

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [UI Elements](#) > [Dashboard Menu](#)

The dashboard menu allows you to create, save or open dashboards and invokes pages containing global dashboard settings. To invoke this menu, use the **Dashboard Menu button** on the [Toolbox](#).

The dashboard menu consists of the following buttons.



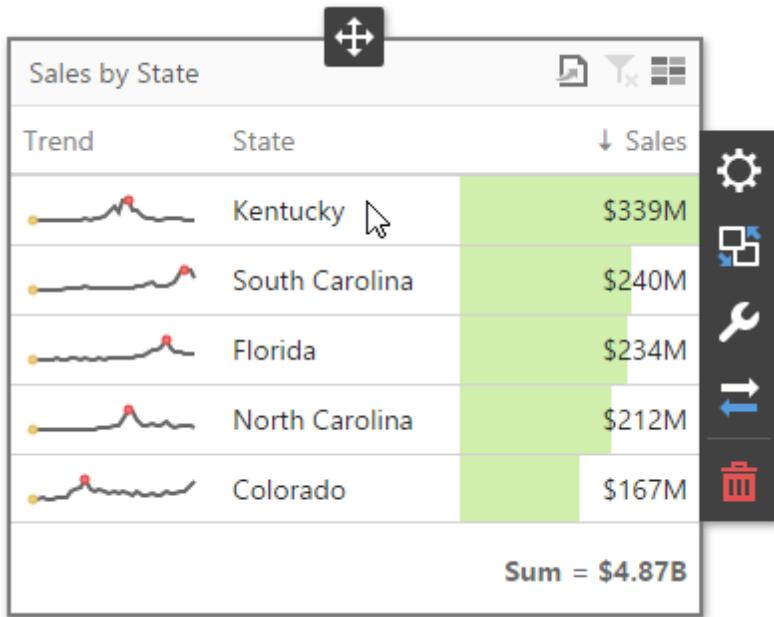
Button	Description
New...	Use this button to create a new dashboard. The invoked New... page allows you to set a dashboard name, choose an existing data source for this dashboard or create a new one. To learn more, see Creating a Dashboard .
Open...	This button allows you to open the existing dashboards.
Save	Use this button to save the current dashboard.
Data Sources	This button opens the Data Sources page where you can configure dashboard <i>data sources</i> . To learn more, see Manage Data Sources .
Title	This button opens the Title page where you can set a dashboard title and specify its settings like title visibility, alignment, etc.
Currency	This button opens the Currency page. Here you can specify the currency format for the entire dashboard. To learn more about formatting, see Formatting Data .

Parameters	This button invokes the Parameters page containing a list of dashboard parameters and their settings. To learn more about parameters, see Dashboard Parameters .
Color Scheme	This button opens the Color Scheme page where you can customize a global color scheme that provides consistent colors for identical values across the dashboard. To learn more about coloring, see Coloring .

Dashboard Item Menu

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [UI Elements](#) > [Dashboard Item Menu](#)

The **dashboard item menu** allows you to configure a dashboard item. This menu provides interface to supply a dashboard item with data, specify interactivity settings, etc. To invoke this menu, click the required dashboard item.



The dashboard item menu consists of the following buttons.

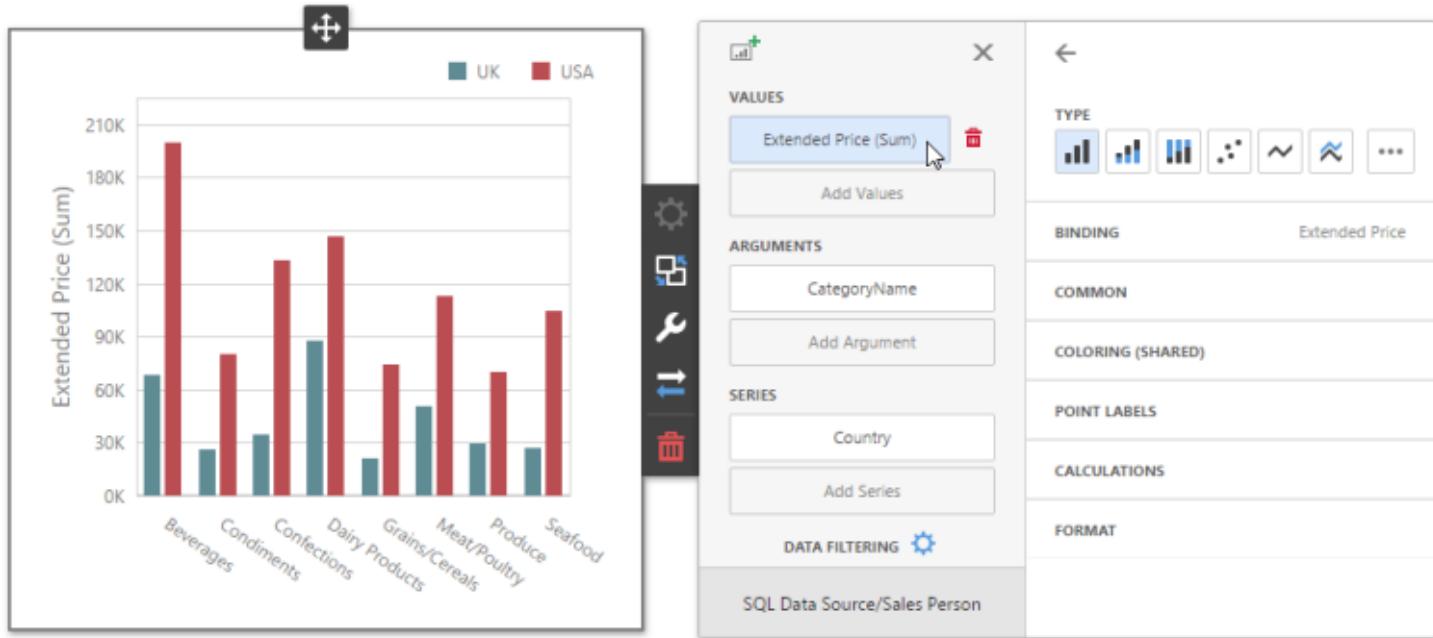
Icon	Button Name	Description
	Move	Allows you to customize a dashboard item layout using drag-and-drop operations. To learn more, see Dashboard Items Layout .
	Bindings	Invokes the <i>Binding</i> menu that allows you to create and modify data binding of the selected dashboard item .
	Interactivity	Invokes the <i>Interactivity</i> menu contains settings affected on interaction between various dashboard items.
	Options	Invokes the <i>Options</i> menu contains specific options and settings related to the current dashboard item . Settings can be combined into sections like <i>Common</i> , <i>Legend</i> , <i>Colors</i> , etc.
	Convert To	Invokes the <i>Convert To</i> dialog that allows you to convert or duplicate the current item.
	Delete	Deletes the current dashboard item from the dashboard surface .

Data Item Menu

[Dashboard for Web](#) > [Web Dashboard - Designer Mode](#) > [UI Elements](#) > [Data Item Menu](#)

The data item menu allows you to add measures and dimensions and configure settings related to the selected data item. For example, you can [specify a data field](#), change a data item type, perform [data shaping operations](#) and [advanced data analysis](#), etc.

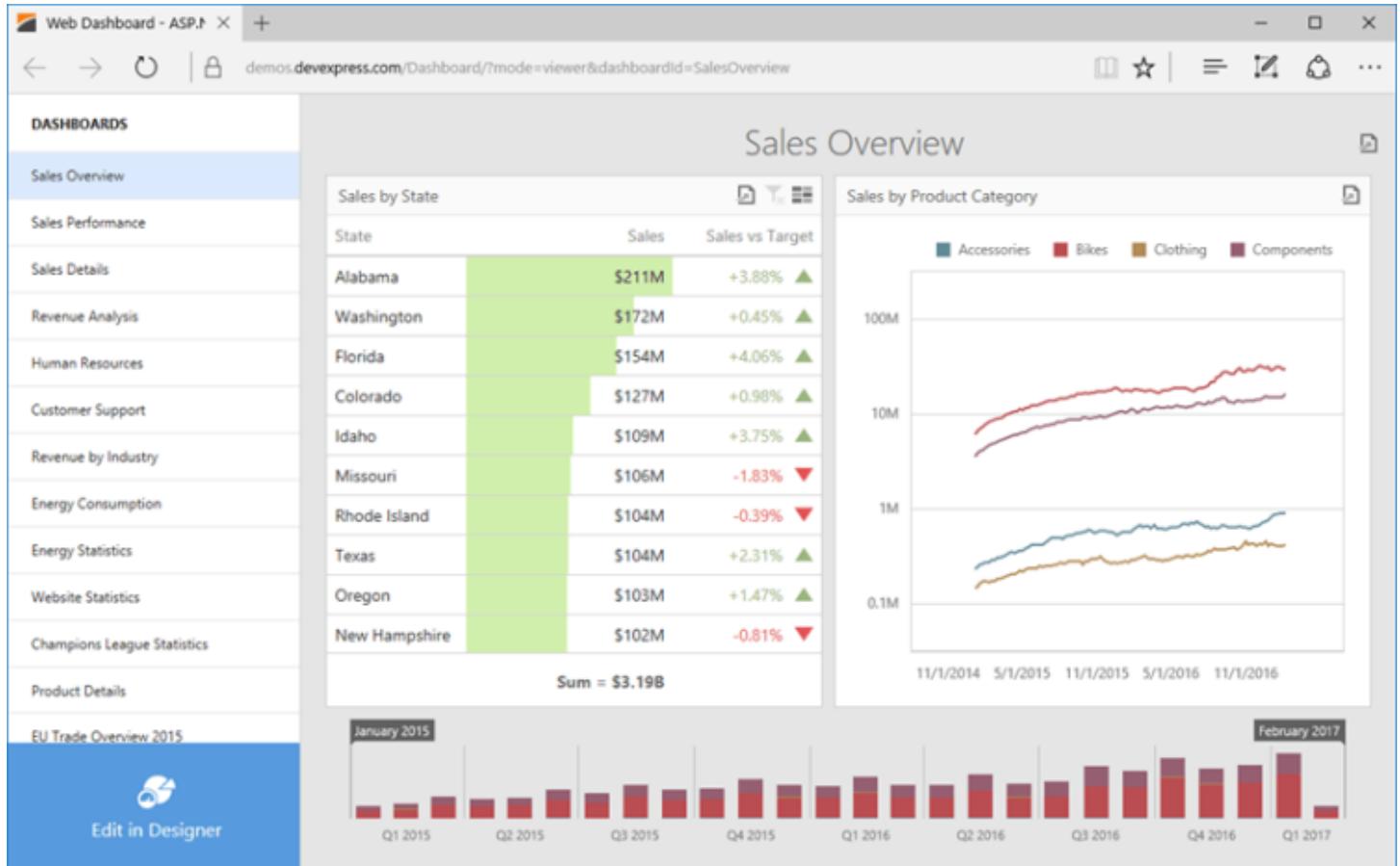
To invoke this menu, click a data item placeholder or the required data item in the dashboard item's [Bindings](#) menu.



Web Dashboard - Viewer Mode

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#)

The **Web Dashboard** provides the capability to display dashboards in web browsers on desktop and mobile devices.



Data Presentation

The topics in this section provide information on how the Web Dashboard presents data.

- [Data Presentation Basics](#)
- [Master Filtering](#)
- [Drill-Down](#)
- [Dashboard Layout](#)

Dashboard Parameters

The following topic describes how to change dashboard parameter values.

- [Requesting Parameter Values](#)

Exporting

The Web Dashboard provides the capability to export individual items of a dashboard, as well as the entire dashboard.

- [Exporting](#)

Dashboard Items

Dashboard items are used to present information in various ways.

- [Chart](#)
- [Scatter Chart](#)
- [Grid](#)
- [Pies](#)
- [Cards](#)
- [Gauges](#)
- [Pivot](#)
- [Choropleth Map](#)
- [Geo Point Maps](#)
- [Range Filter](#)
- [Image](#)
- [Text Box](#)
- [Treemap](#)
- [Filter Elements](#)

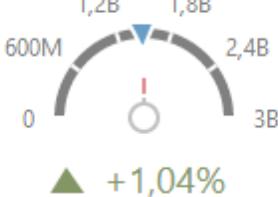
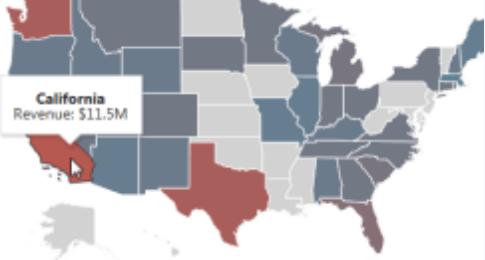
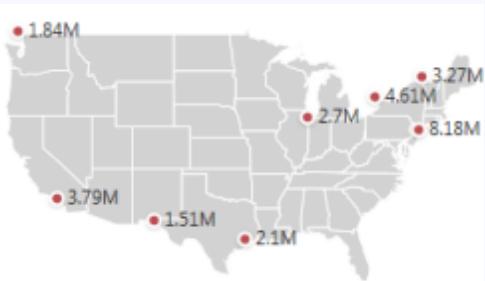
Data Presentation

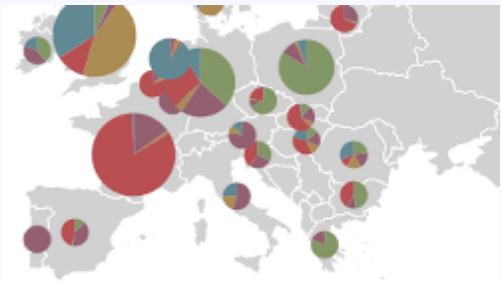
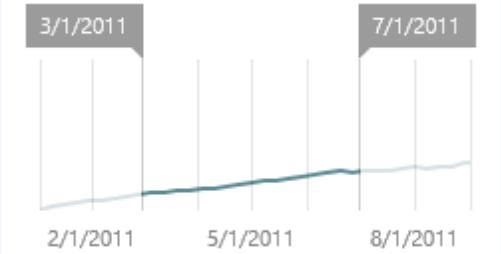
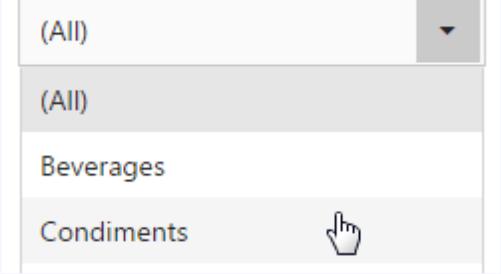
Data Presentation Basics

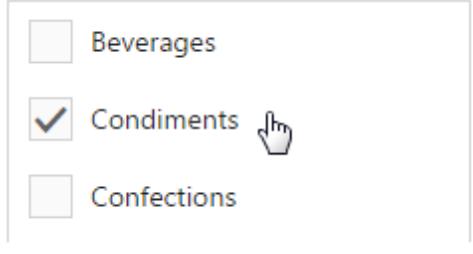
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Data Presentation Basics](#)

The Web Dashboard can be used to present dashboards on the web. A wide range of dashboard items are used to display visual or textual information.

Dashboard Item	Image	Description
Chart	A line chart comparing two categories over time. The Y-axis represents value in millions, ranging from 0 to 40M. The X-axis shows dates from 12/1/2010 to 12/1/2011. Two series are plotted: 'Bikes' (red line) and 'Components' (purple line). Both series show an upward trend, with 'Bikes' starting around 15M and ending near 35M, while 'Components' starts lower and ends around 20M.	Displays data graphically using bars, lines, points, etc.
Scatter Chart	A scatter plot with a grid background. It displays several data points represented by colored circles of varying sizes. The points are scattered across the plot area, with some larger circles appearing in the upper right quadrant.	Visualizes relationships between numeric variables.
Grid	A data grid with three rows. The first column is 'Year', the second is 'Turnover' (represented by a bar chart), and the third is 'Turnover %' with a corresponding color-coded circle. The data shows turnover percentages of 2.05% (brown), 1.72% (brown), and 1.10% (brown) for the years 2013, 2006, and 2008 respectively.	Presents data in tabular form.
Pies	A pie chart divided into three segments. The segments are labeled 'Salary' (blue), 'Bonus' (red), and 'Overtime' (orange). Lines connect each segment label to its corresponding slice.	Displays a series of pies or donuts that represent the contribution of each value to the total.

<u>Cards</u>	<h3>Hitch Rack - 4-Bike</h3> <p>Accessories \$365K +4.21 %</p> <p> +14.8K</p>	Displays a series of cards, each illustrating the difference between two values.											
<u>Gauges</u>	<h3>Components</h3>  <p>+1,04%</p>	Visualizes data within a series of gauges.											
<u>Pivot</u>	<table border="1"> <thead> <tr> <th colspan="2">Accessories</th> </tr> <tr> <th></th> <th>Units Sold</th> <th>Revenue</th> </tr> </thead> <tbody> <tr> <td>California</td> <td>36.4K</td> <td>\$1.18</td> </tr> <tr> <td>Washington</td> <td>20.6K</td> <td>\$622</td> </tr> </tbody> </table>	Accessories			Units Sold	Revenue	California	36.4K	\$1.18	Washington	20.6K	\$622	Displays cross-tabular reports and allows you to analyze multi-dimensional data.
Accessories													
	Units Sold	Revenue											
California	36.4K	\$1.18											
Washington	20.6K	\$622											
<u>Choropleth Map</u>		Colorizes areas in proportion to the provided values.											
<u>Geo Point Map</u>		Displays callouts on the map using geographical coordinates.											
<u>Bubble Map</u>		Displays bubbles on the map using geographical coordinates.											

<u>Pie Map</u>		Places pies on the map using geographical coordinates.
<u>Range Filter</u>		Allows you to apply filtering by dragging selection thumbs along the argument axis.
<u>Images</u>		Displays images.
<u>Text Box</u>	<p>Product Description</p> <p>DesktopLCD 21</p> <p><i>Production Start:</i> 31-Mar-10</p> <p><i>Consumer Rating:</i> 3 of 5</p> <p><i>Retail Price:</i> \$170</p> <p><i>Best Sales Year:</i> 2015</p> <p><i>Best Sales Company:</i> ACME</p>	Displays rich text within a dashboard.
<u>Treemap</u>		Visualizes data in nested rectangles.
<u>Combo Box</u>		Allows you to select a value(s) from the drop-down list.

List Box	 <p>A list box interface with three items: Beverages, Condiments, and Confections. The 'Condiments' item is selected, indicated by a checked checkbox icon and a small hand cursor icon pointing at it.</p>	Allows you to select a value(s) from the list.
Tree View	 <p>A tree view interface showing a hierarchical structure. The root node '1996' has a checked checkbox icon and a right-pointing arrow. The node '1997' also has a checked checkbox icon and a right-pointing arrow. The node '1998' has a square icon and a downward-pointing arrow. The leaf node 'January' has a checked checkbox icon. A small hand cursor icon points at the 'January' node.</p>	Displays values in a hierarchical way and allows you to filter other dashboard items by selecting parent/child values.

The Web Dashboard enables interaction between various dashboard items. These features include **Master Filtering** and **Drill-Down**.

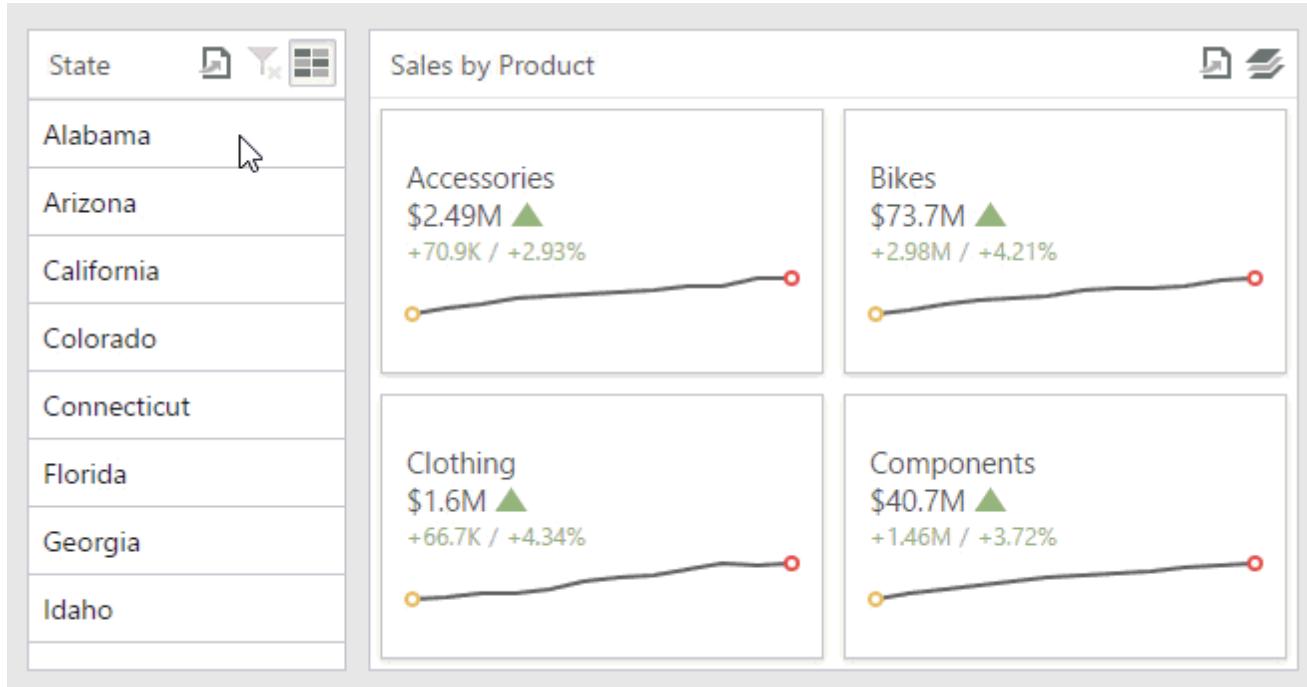
- [Master Filtering](#)
- [Drill-Down](#)

To learn more about the dashboard layout, see the [Dashboard Layout](#) topic.

Master Filtering

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Master Filtering](#)

The Web Dashboard allows you to use any data-aware dashboard item as a filter for the entire dashboard (**Master Filter**). You can select elements in a **Master Filter** item (chart bars, pie segments, grid records, etc.) to filter data in the rest of the dashboard by the selected values.



Master Filtering Modes

The Master Filter item supports two selection modes.

- **Multiple**

Allows you to select multiple elements in the Master Filter item. To enable multiple element selection, use the **Multi-Select** button (the icon) in the dashboard item [caption](#) area.

To clear the selection in the Master Filter item, use the **Clear Master Filter** button (the icon) in the dashboard item [caption](#) area.

- **Single**

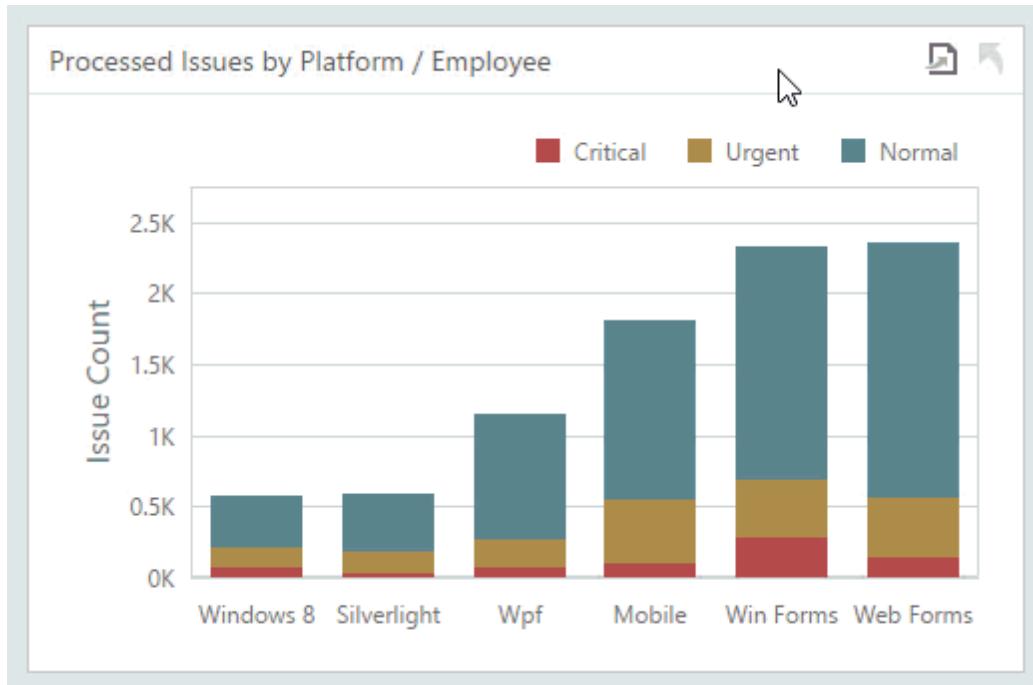
Allows you to select only one element in the Master Filter item. When this mode is enabled, the default selection will be set to a Master Filter element. You can change this selection, but you cannot clear it.

To learn how to filter dashboard data via a specific dashboard item, refer to the documentation for this item in the [Dashboard Items](#) section.

Drill-Down

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Drill-Down](#)

The Web Dashboard provides the **drill-down** feature, which allows you to change the detail level of data displayed in a dashboard item. This feature allows you to drill down to display the details, or drill up to view more general information.



Note

You cannot drill down to view the details if **Multi-Select** is enabled in [Multiple Master Filter](#) mode.

To return to the previous detail level (drill up), use the **Drill Up** button (the ↺ icon) in the dashboard item's [caption](#) area.

To learn how to drill down using a particular dashboard item, refer to the documentation for this item in the [Dashboard Items](#) topic.

Dashboard Layout

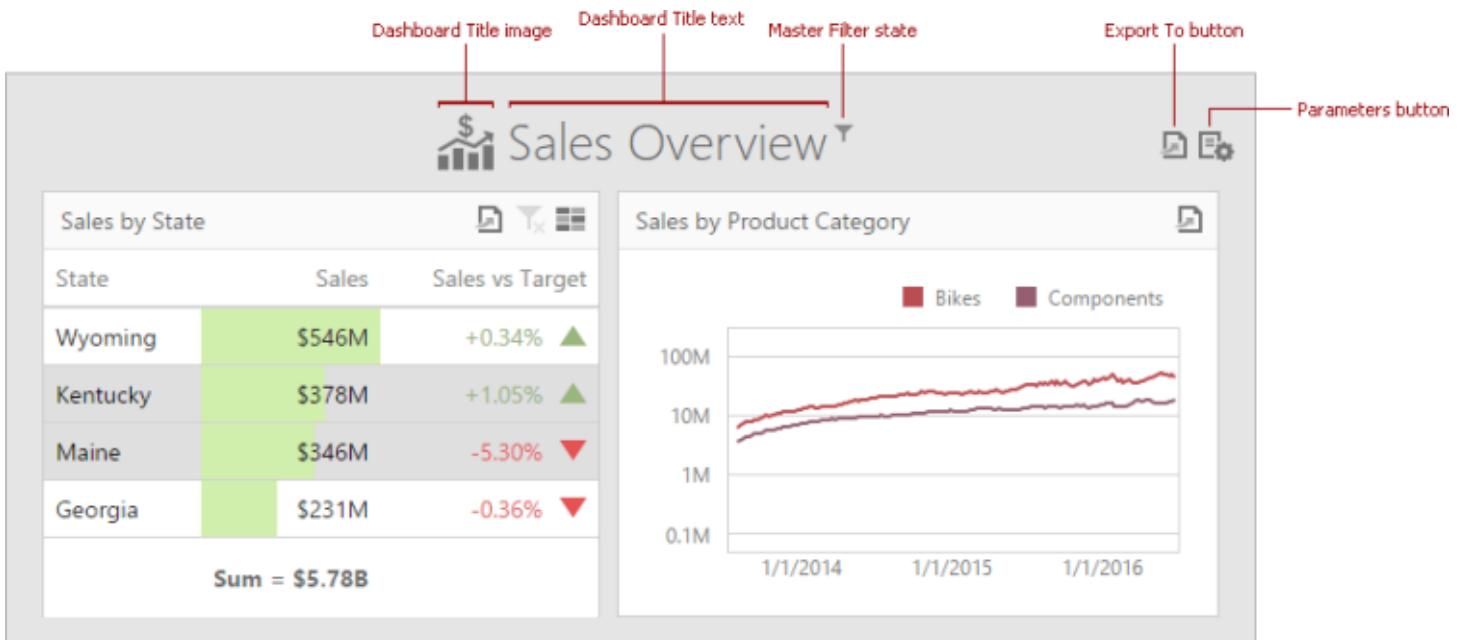
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Layout](#)

This topic describes the features related to the dashboard layout.

- [Dashboard Title](#)
- [Dashboard Item Caption](#)
- [Resizing Dashboard Items](#)

Dashboard Title

The **Dashboard Title** is located at the top of the dashboard. The dashboard title can contain text or image content, elements selected in the master filter item, and command buttons.



When you hover over the filter icon (▼), all master filters applied to the dashboard are displayed in the invoked popover.



The dashboard title can contain the following command buttons.

- **Export To** button - allows you to export the dashboard. To learn more about exporting, see the [Exporting](#) topic.
- **Parameters** button - allows you to modify dashboard parameter values. To learn how to modify dashboard parameter values, see the [Requesting Parameter Values](#) topic.

Dashboard Item Caption

Each [dashboard item](#) can include a caption that is displayed at the top of this item. The caption contains static text along with other information, as well as command buttons.

**Note**

If the dashboard item caption is not visible, command buttons are displayed at the top right corner of the item.

The caption of the dashboard item contains the following information and buttons, depending on the dashboard item type.

- **Names**
 - **Dashboard Item Name** - represents the static text within a dashboard item's caption.
 - **Data Item Container Name** - represents the name of the data item container.
- **Interactivity Information**
 - **Drill-Down** value - shows a value or values from the current drill-down hierarchy. To learn more, see the [Drill-Down](#) topic.
- **Command Buttons**
 - **Export to** button - allows you to export a dashboard item. To learn how to print individual dashboard items, see the [Exporting](#) topic.
 - **Values** button - invokes a drop-down menu that allows you to switch between provided values (in the pie, card, gauge and maps dashboard items). To learn more, see the [Data Presentation Basics](#) topic for the corresponding dashboard item.
 - **Clear Master Filter** button - allows you to reset filtering when a dashboard item acts as the **Master Filter**. To learn more, see the [Master Filtering](#) topic.
 - **Drill Up** button - allows you to return to the previous detail level when the drill-down capability is enabled for this item. To learn more, see the [Drill-Down](#) topic.
 - **Multi-Select** button - allows multiple element selection in the Master Filter item, when [Multiple Master Filter](#) mode is enabled.

Resizing Dashboard Items

You can resize individual items (or a group of items) by dragging their edges.



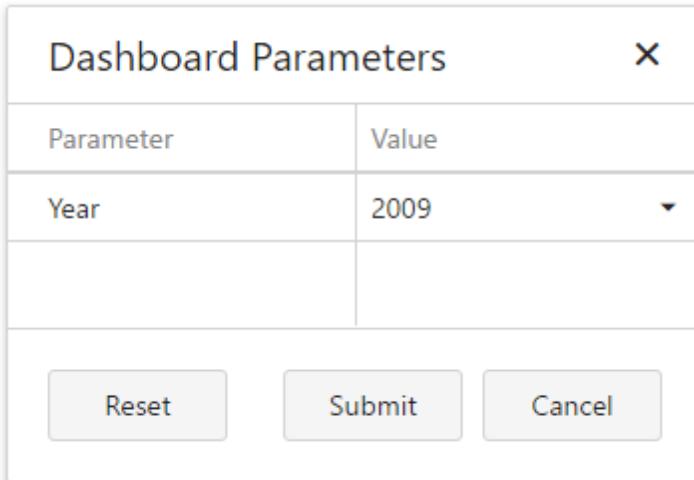
Dashboard Parameters

Requesting Parameter Values

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Requesting Parameter Values](#)

The **Web Dashboard** provides a built-in **Dashboard Parameters** dialog, which allows you to change dashboard parameter values.

To invoke the **Dashboard Parameters** dialog, click the **Parameters** button (the  icon) in the [dashboard title](#).



The screenshot shows a modal dialog titled "Dashboard Parameters". It contains a table with two columns: "Parameter" and "Value". A single row is visible, showing "Year" in the Parameter column and "2009" in the Value column, with a dropdown arrow next to it. At the bottom of the dialog are three buttons: "Reset", "Submit", and "Cancel".

Select the required parameter values and click the **Submit** button to apply the changes. To reset changes to the default values, click the **Reset** button.

Exporting

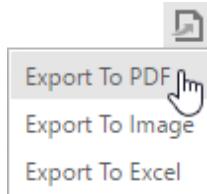
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Exporting](#)

The Web Dashboard provides the capability to export an entire dashboard and individual items.

- [Exporting Dashboards](#)
- [Exporting Dashboard Items](#)

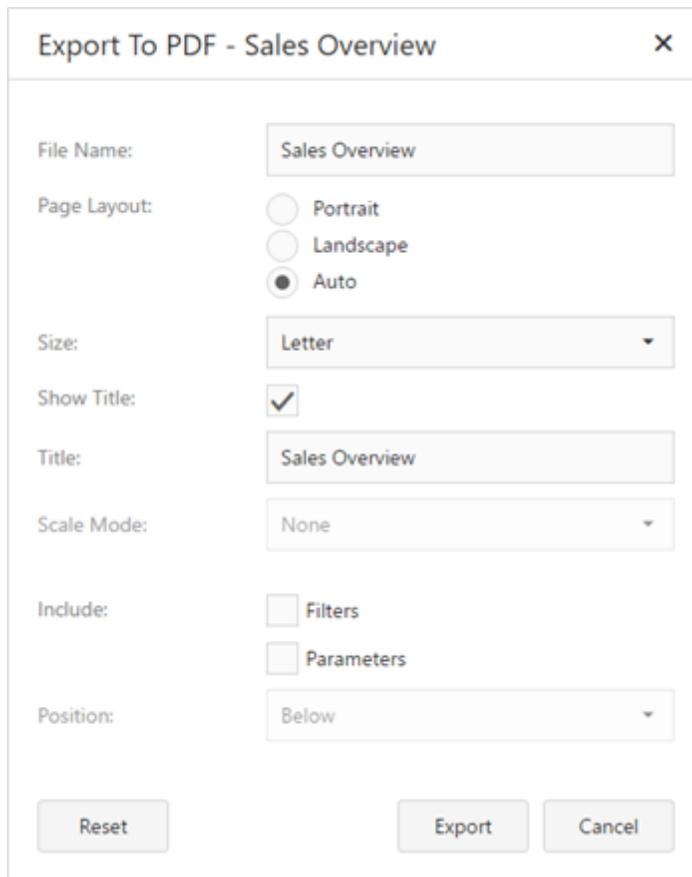
Exporting Dashboards

To export the entire dashboard, click the  button in the [dashboard title](#) area and select the required format.



Export to PDF

Invokes a corresponding dialog that allows you to export a dashboard to a PDF file with specific options. The following options are available:



The dialog box has the following settings:

- File Name:** Sales Overview
- Page Layout:** Auto (selected)
- Size:** Letter
- Show Title:** checked
- Title:** Sales Overview
- Scale Mode:** None
- Include:** Filters (unchecked), Parameters (unchecked)
- Position:** Below

At the bottom are three buttons: Reset, Export (highlighted with a blue border), and Cancel.

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard. You can select between *Portrait*, *Landscape* and *Auto*. Note that in the *Auto* mode, page orientation is selected automatically depending on the horizontal and vertical sizes of a dashboard.
- **Size** - Specifies the standard paper size (for instance, *Letter* or *A4*).
- **Show Title** - Specifies whether or not to apply the dashboard title to the exported document title.

- **Title** - Specifies the title of the exported document.
- **Scale Mode** - Specifies the mode for scaling when exporting a dashboard.



Note that this option is in effect when **Page Layout** is set to a value different from *Auto*.

- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Export to Image

Invokes a corresponding dialog that allows you to export a dashboard to an image in the specified format. The following options are available.

The dialog box has the title "Export To Image - Sales Overview" at the top left. It contains the following fields:

- File Name:** A text input field containing "Sales Overview".
- Show Title:** A checked checkbox.
- Title:** A text input field containing "Sales Overview".
- Image Format:** A dropdown menu showing "PNG".
- Resolution (dpi):** A text input field containing "96".
- Include:** Two checkboxes:
 - Filters
 - Parameters
- Buttons:** "Reset", "Export", and "Cancel".

- **File Name** - Specifies the name of the exported PDF file.
- **Show Title** - Specifies whether or not to apply the dashboard title to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard is exported. The following formats are available: *PNG*, *JPEG* and *GIF*.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Export to Excel

Invokes a corresponding dialog that allows end-users to export dashboard's data to the Excel file. The following options are available:

Export To Excel - Sales Overview

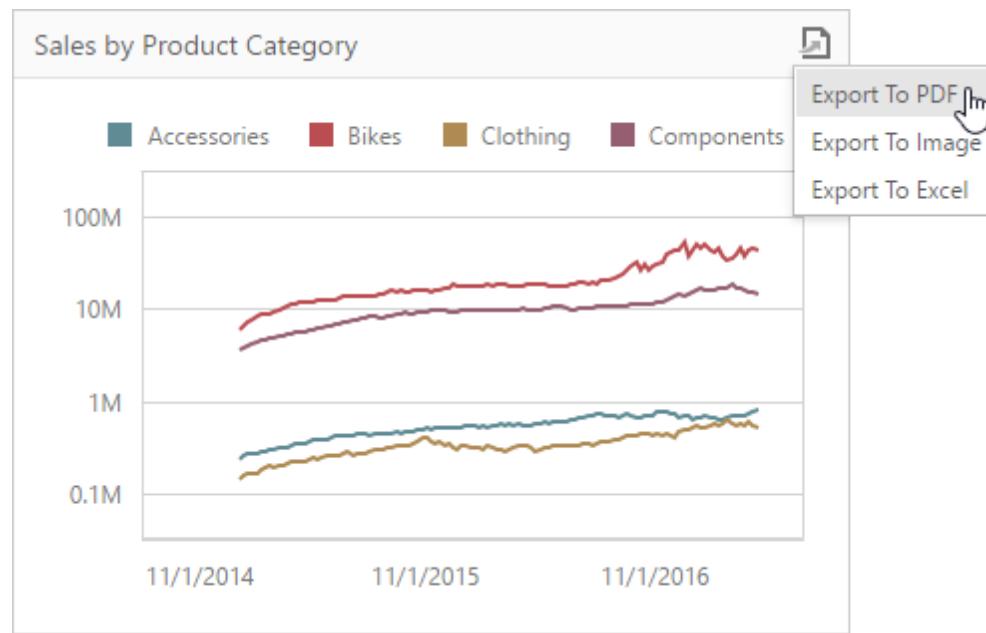
File Name:	Sales Overview	X
Excel Format:	XLSX	▼
Include:	<input type="checkbox"/> Filters <input type="checkbox"/> Parameters	▼
Position:	Below	▼
<input type="button" value="Reset"/> <input type="button" value="Export"/> <input type="button" value="Cancel"/>		

- **File Name** - Specifies the name of the exported Image file.
- **Excel Format** - Specifies the Excel workbook format in which the dashboard's data is exported. You can select between XLSX and XLS.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in the invoked dialog and click the **Export** button to export the dashboard. To reset changes to the default values, click the **Reset** button.

Exporting Dashboard Items

To export a dashboard item, click the  button in its [caption](#) and choose the required action.



- **Export to PDF** - Invokes a corresponding dialog that allows you to export a dashboard to a PDF file with specific options.
- **Export to Image** - Invokes a corresponding dialog that allows you to export a dashboard to image in the

specified format.

- **Export to Excel** - Invokes a corresponding dialog that allows you to export a dashboard item's data to the Excel workbook or CSV file.

To learn more about exporting specifics of different dashboard items, see the **Exporting** topic for the required [dashboard item](#).

Dashboard Items

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#)

In.SIST Dashboard provides a number of visualization elements (**dashboard items**) designed to effectively present visual or textual information in a dashboard.

This section describes the available dashboard items.

- [Chart](#)
- [Scatter Chart](#)
- [Grid](#)
- [Pies](#)
- [Cards](#)
- [Gauges](#)
- [Pivot](#)
- [Choropleth Map](#)
- [Geo Point Maps](#)
- [Range Filter](#)
- [Image](#)
- [Text Box](#)
- [Treemap](#)
- [Filter Elements](#)

Chart

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Chart](#)

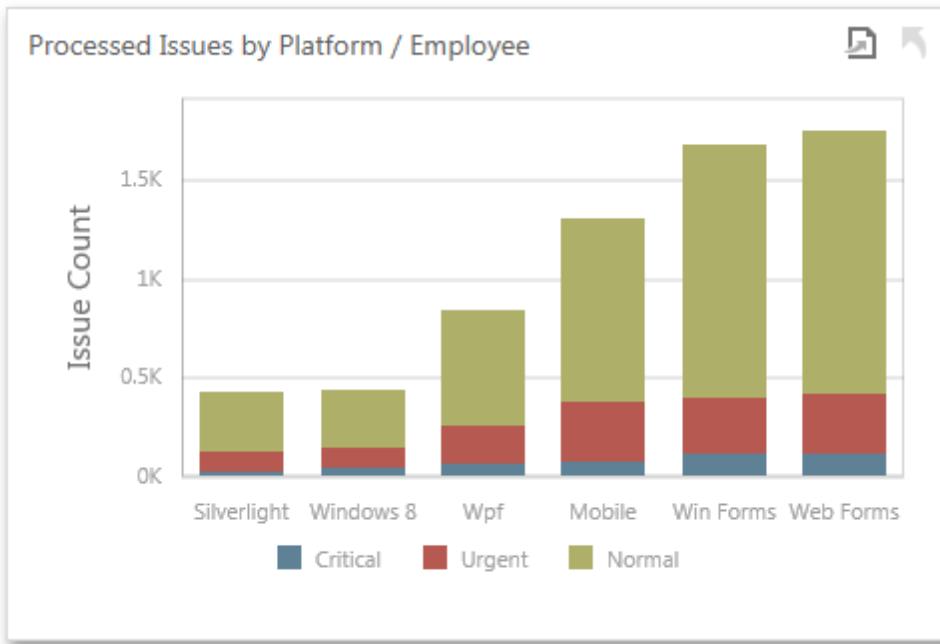
The topics in this section describe the **Chart** dashboard item, which visualizes data in XY-diagrams of different kinds - from line and bar charts to candle stick and bubble charts.

- [Data Presentation Basics](#)
- [Interactivity](#)
- [Exporting](#)

Data Presentation Basics

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Chart](#) > [Data Presentation Basics](#)

The **Chart** dashboard item presents data visually using different types of series.



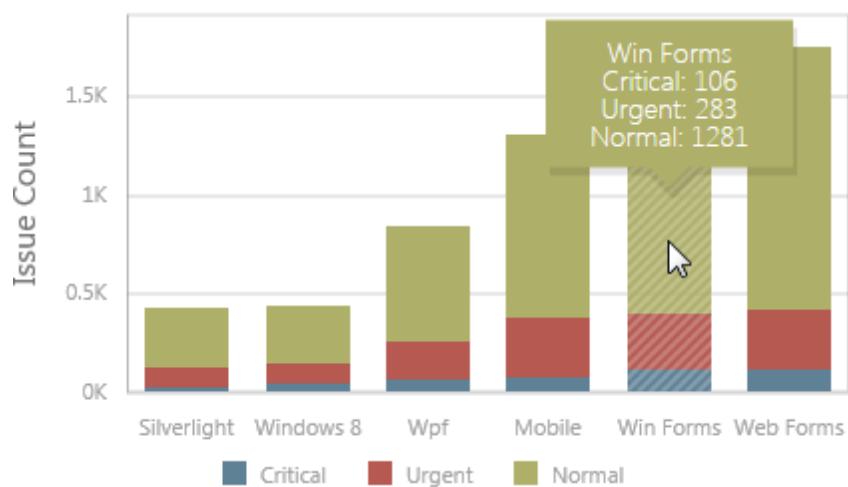
A series represents a grouping of related data points. The most important characteristic of a series is its type, which determines a particular visual representation of data.

The Chart dashboard item includes the following series types.

- A **Bar** series displays data as sets of rectangular bars with lengths proportional to the values that they represent.
- Point** and **Line** series display data as standalone points or points joined by a line.
- An **Area** series displays data by a line that joins points, and the shaded area between the line and the argument axis.
- A **Range** series is the area between two simple series displayed as a shaded area, or bars that stretch from a point in one series to the corresponding point in another series.
- A **Weighted** series displays data using a third dimension, expressed by a bubble's size.
- Financial** series are useful in analyzing stock and bond prices, as well as the behavior of commodities.

Tooltip

The Chart dashboard item can display a tooltip that shows information on a hovered series point.



Interactivity

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Chart](#) > [Interactivity](#)

This topic describes features that enable interaction between the **Chart** and other dashboard items. These features include **Master Filtering** and **Drill-Down**.

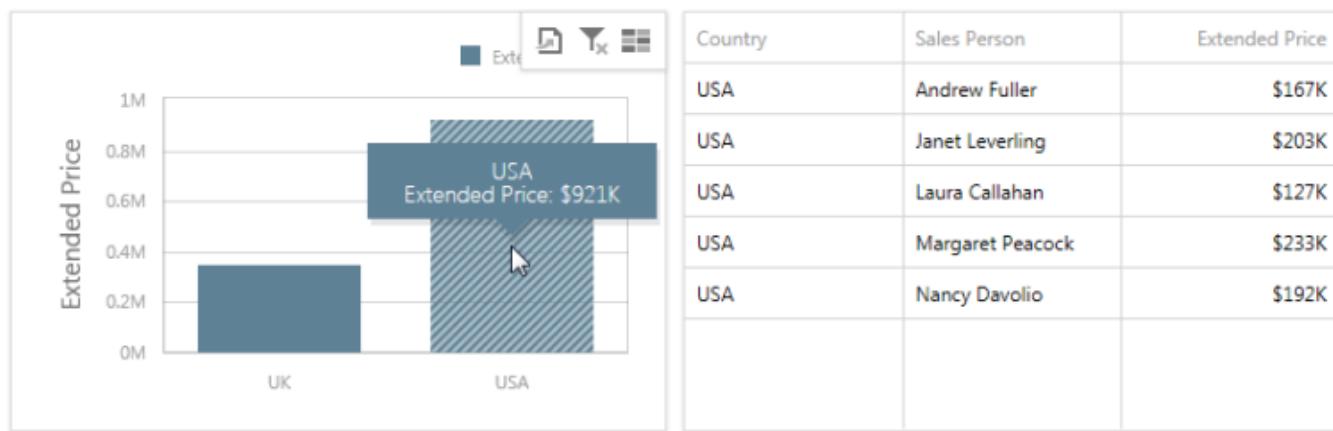
Master Filtering

The Web Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items (Master Filter). To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

The Chart dashboard item supports filtering by **argument** or **series** values.

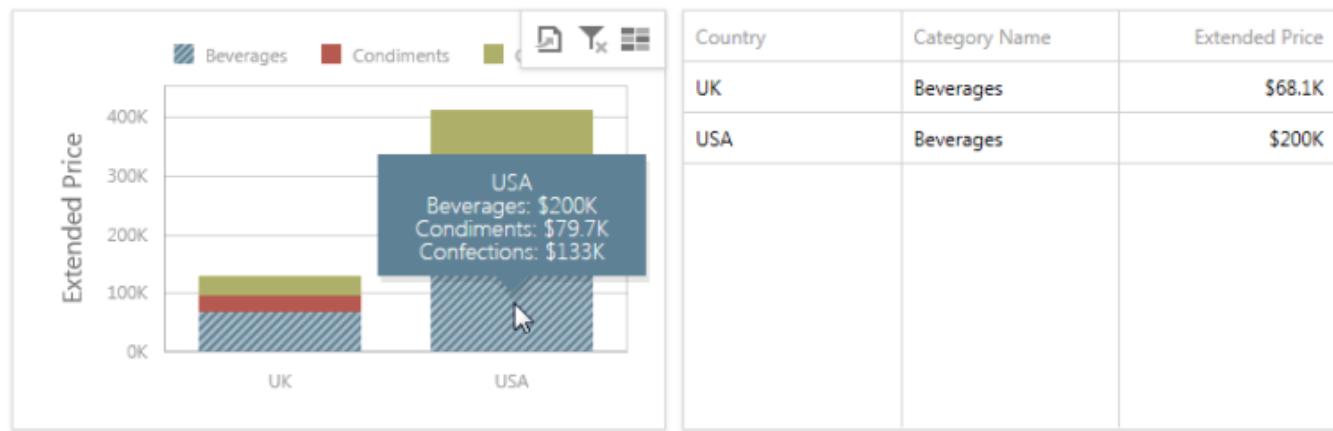
- **Filtering by Arguments**

When filtering by arguments is enabled, you can click series points to make other dashboard items display only data related to selected argument values.



- **Filtering by Series**

When filtering by series is enabled, you can click a series point to make other dashboard items display only data related to the selected series.



To clear the selection in the Master Filter item, use the **Clear Master Filter** button (the icon) in the chart's [caption](#) area.

Drill-Down

The built-in drill-down capability allows you to change the detail level of data displayed in dashboard items on the fly. To learn more, see [Drill-Down](#).

The Chart dashboard item supports drill-down on argument or series values.

- **Drill Down on Arguments**

When drill-down on arguments is enabled, you can click a series point to view a detail chart for the corresponding argument value.

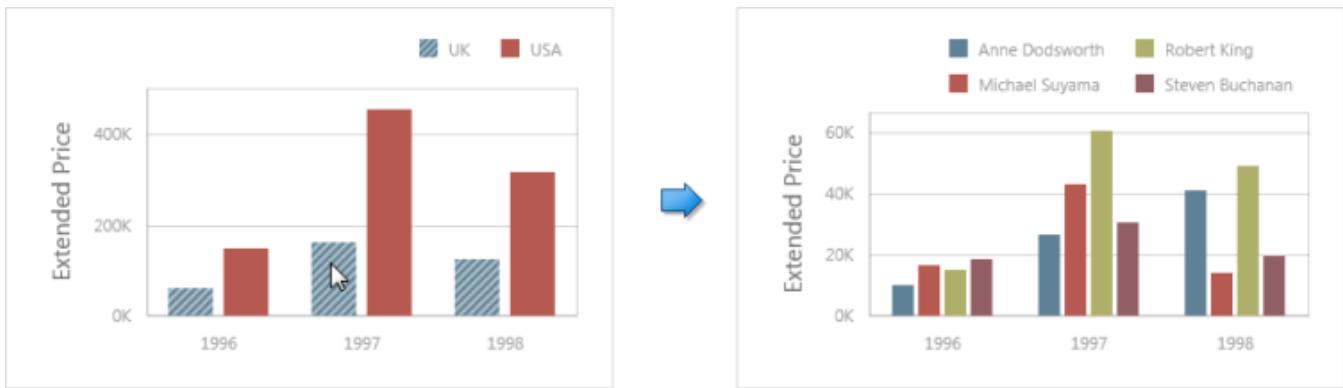


Note

When **Filtering by Arguments** is enabled, you can view the details by clicking a selected series point.

- **Drill-Down on a Series**

When drill-down on a series is enabled, you can click a series point (or corresponding legend item) to view a detail chart for the corresponding series.



Note

When **Filtering by Series** is enabled, you can view the details by clicking a selected series point.

To return to the previous detail level (drill up), use the **Drill Up** button (the ↺ icon) in the chart's [caption](#).

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Chart](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items, or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting a **Chart** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)
- [Export To Excel](#)

Export To PDF

Export To PDF - Sales by Category X

File Name:

Page Layout: Portrait
 Landscape
 Auto

Size: ▼

Show Title:

Title:

Size Mode: None
 Stretch
 Zoom

Include: Filters
 Parameters

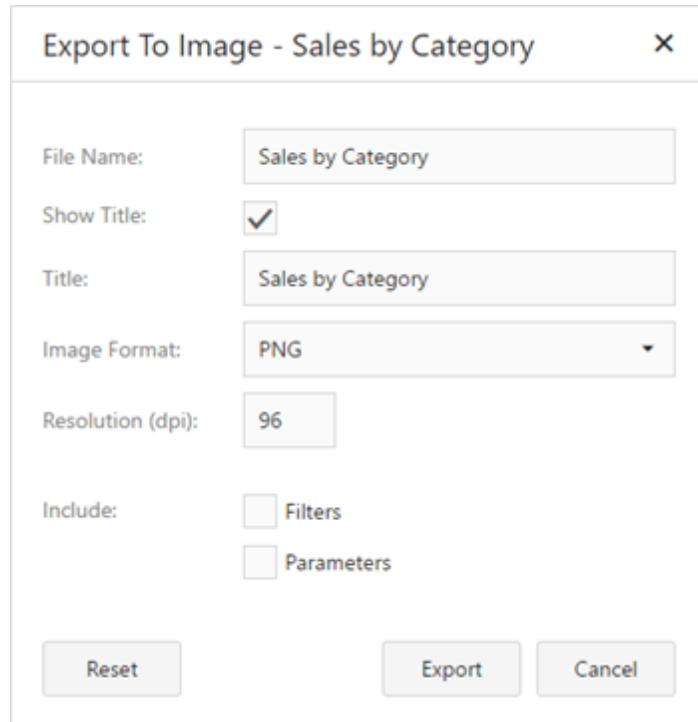
Position: ▼

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Size Mode** - Specifies the export size mode for the Chart dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Chart dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

All data-bound dashboard items provide the same set of options when exporting them to an Image format. The following options are available:



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Excel

Data visualized within all data-bound dashboard items can be exported to the required Excel format. The following options are available:

Export To Excel - Sales by Category X

File Name:

Excel Format: ▼

Separator:

Include: Filters
 Parameters

Position: ▼

Reset Export Cancel

- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel format in which the dashboard item is exported. You can use the XLSX, XLS or CSV formats.
- **Separator** - Specifies the string used to separate values in the exported CSV document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Scatter Chart

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Scatter Chart](#)

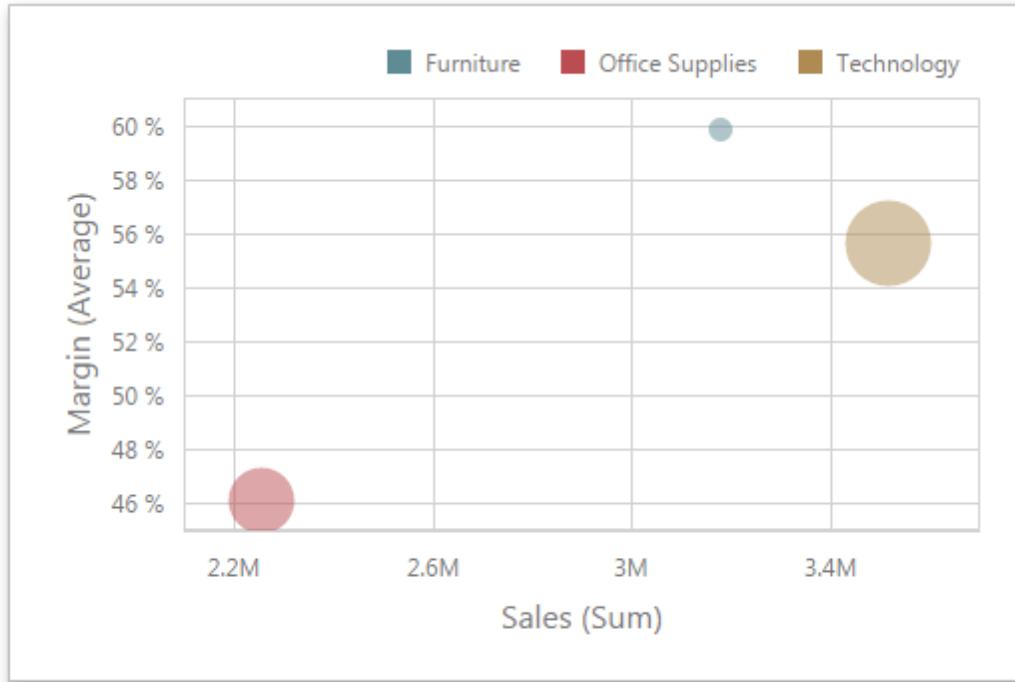
The topics in this section describe the **Scatter Chart** dashboard item, which visualizes summaries using numerical X/Y-axes and the size of data points.

- [Data Presentation Basics](#)
- [Interactivity](#)
- [Exporting](#)

Data Presentation Basics

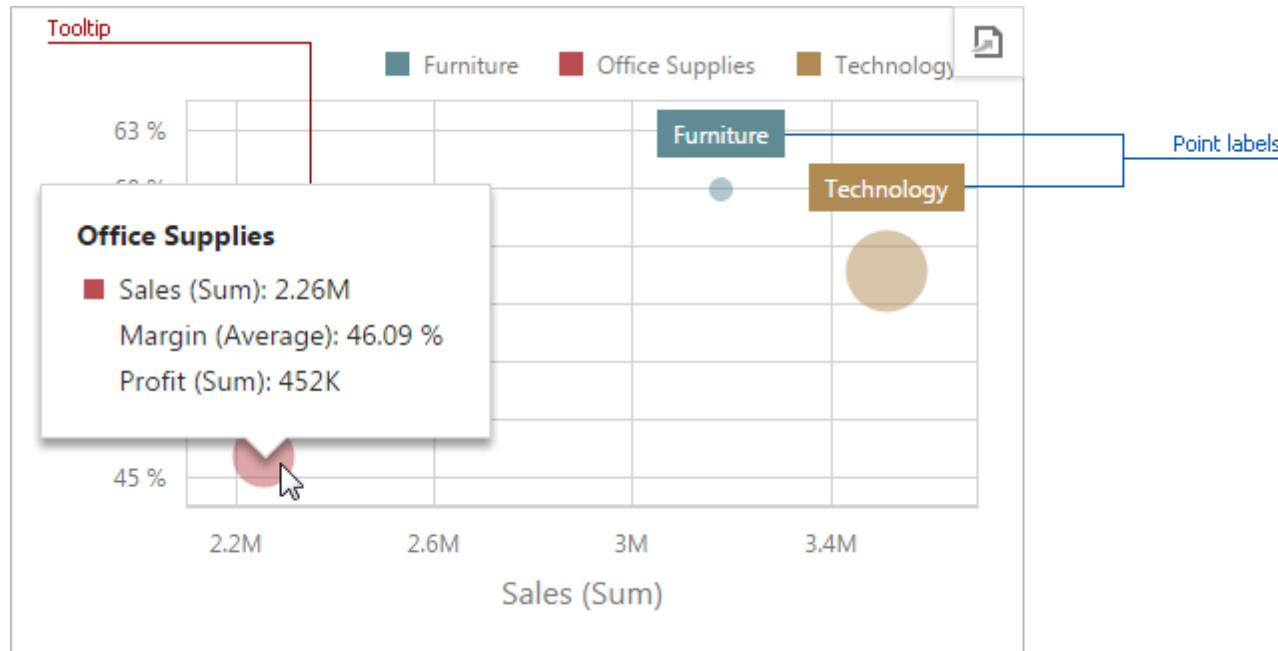
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Scatter Chart](#) > [Data Presentation Basics](#)

The **Scatter Chart** dashboard item visualizes summaries using three dimensions: the X-axis, the Y-axis and the size of data points.



Point Labels and Tooltips

The Scatter Chart dashboard item can display point labels and tooltips that show information on data points. To see a tooltip, hover over the required point.



Interactivity

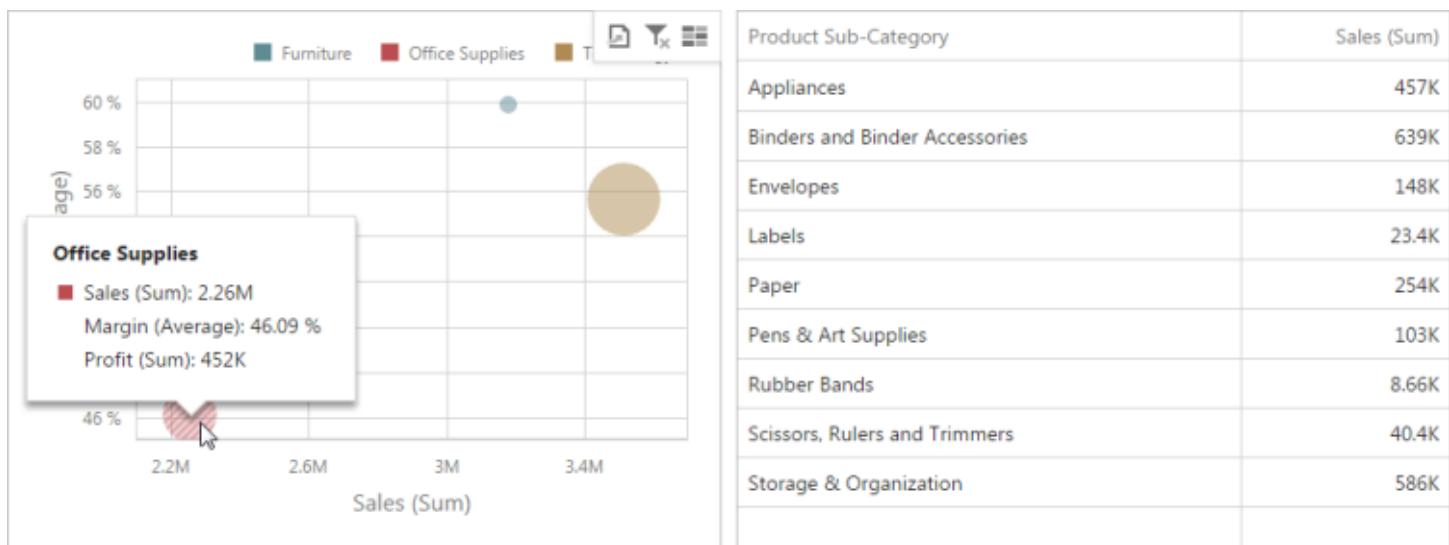
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Scatter Chart](#) > [Interactivity](#)

This topic describes features that enable interaction between the **Scatter Chart** and other dashboard items. These features include **Master Filtering** and **Drill-Down**.

Master Filtering

The Web Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items (**Master Filter**). To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

When Master Filtering is enabled, you can click a point (or multiple points) to make other dashboard items only display data related to the selected point(s).



To reset filtering, use the **Clear Master Filter** button (the icon) in the Chart's [caption](#) area, or the **Clear Master Filter** command in the Chart's context menu.

Drill-Down

The built-in drill-down capability allows you to change the detail level of data displayed in dashboard items on the fly. To learn more, see [Drill-Down](#).

When drill-down is enabled, you can click a point to view the details.



Note

When **Master Filtering** is enabled, you can view the details by clicking a selected point.

To return to the previous detail level (drill up), use the **Drill Up** button (the  icon) within the Chart's [caption](#) area, or the **Drill Up** command in the Chart's context menu.

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Scatter Chart](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting a **Scatter Chart** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)
- [Export To Excel](#)

Export To PDF

The following options are available when exporting the Scatter Chart dashboard item to a PDF.

Export To PDF - Sales by Category X

File Name:

Page Layout: Portrait
 Landscape
 Auto

Size:

Show Title:

Title:

Size Mode: None
 Stretch
 Zoom

Include: Filters
 Parameters

Position:

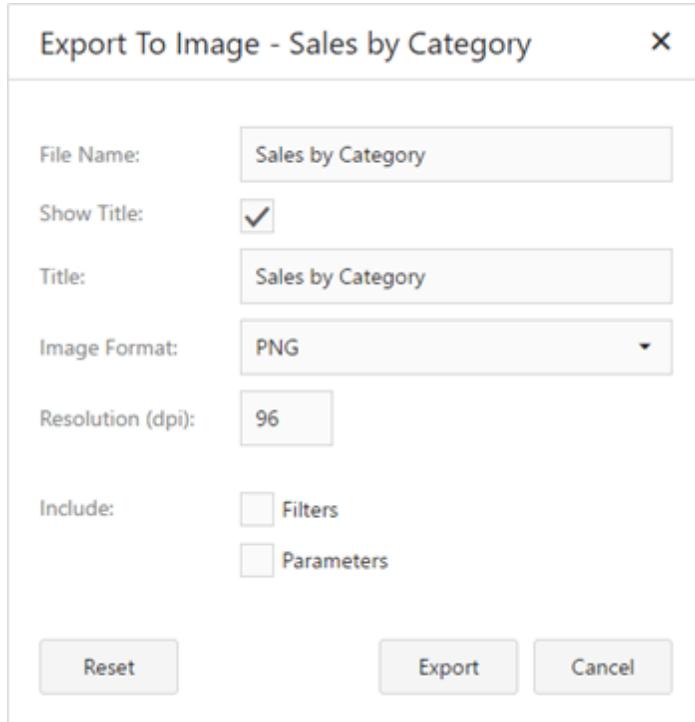
- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** -Specifies the title of the exported document.
- **Size Mode** - Specifies the export size mode for the Scatter Chart dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Scatter Chart dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

All data-bound dashboard items provide the same set of options when exporting them to an Image format. The following options are available:



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Excel

Data visualized within all data-bound dashboard items can be exported to the required Excel format. The following options are available:

Export To Excel - Sales by Category X

File Name:

Excel Format: ▼

Separator:

Include: Filters
 Parameters

Position: ▼

Reset Export Cancel

- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel format in which the dashboard item is exported. You can use the XLSX, XLS or CSV formats.
- **Separator** - Specifies the string used to separate values in the exported CSV document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Grid

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Grid](#)

The topics in this section describe the **Grid** dashboard item, which displays data in a two-dimensional table.

- [Data Presentation Basics](#)
- [Interactivity](#)
- [Exporting](#)

Data Presentation Basics

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Grid](#) > [Data Presentation Basics](#)

The **Grid** displays data in a two-dimensional table that supports four types of columns.

Dimension Column	Measure Column	Delta Column	Sparkline Column
State	Sales	Sales vs Target	Trend
Montana	\$109M	-1.16 % ▼	
Nevada	\$82.8M	+1.30 % ▲	
New Hampshire	\$117M	-0.13 %	

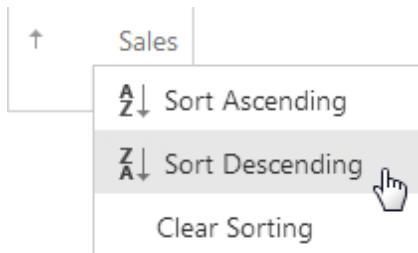
- The **dimension column** displays values from the bound data item "as is".
- The **measure column** displays summaries calculated from data in the bound data item.
- The **delta column**, bound to two measures, calculates summaries for both measures, and displays the difference between these summaries.
- The **sparkline column** visualizes the variation of summary values over time.

Sort Grid Rows

To sort records by a column's values and replace the existing sort conditions applied to the current or other columns, click the target column's header until the *Up* or *Down* arrow icon is displayed within the header. The *Up* and *Down* arrows indicate ascending and descending sort orders, respectively.

Sales by State				
Trend	State	Sales	↓ ↑	Sales
	Missouri	\$634M	↓	-4.40 % ▼
	Arizona	\$543M	↑	+2.85 % ▲
	Maine	\$267M	↓	-4.33 % ▼

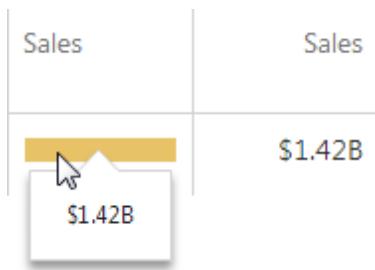
You can also apply the required sort condition by right-clicking a column header and selecting **Sort Ascending** or **Sort Descending** from the invoked context menu.



To remove sorting by a column, select **Clear Sorting** from the context menu or click a column header while holding down the **CTRL** key.

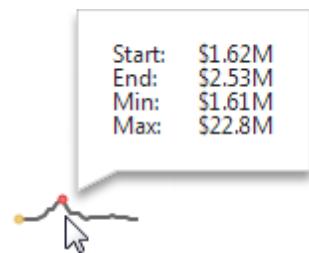
Tooltips

A Grid dashboard item can display a tooltip when the mouse pointer is hovered over the bar in the measure column.



The tooltip shows the value in the measure column as text.

When the mouse pointer is hovered over the cell in the sparkline column, the tooltip can display start/end values and minimum/maximum values.



Interactivity

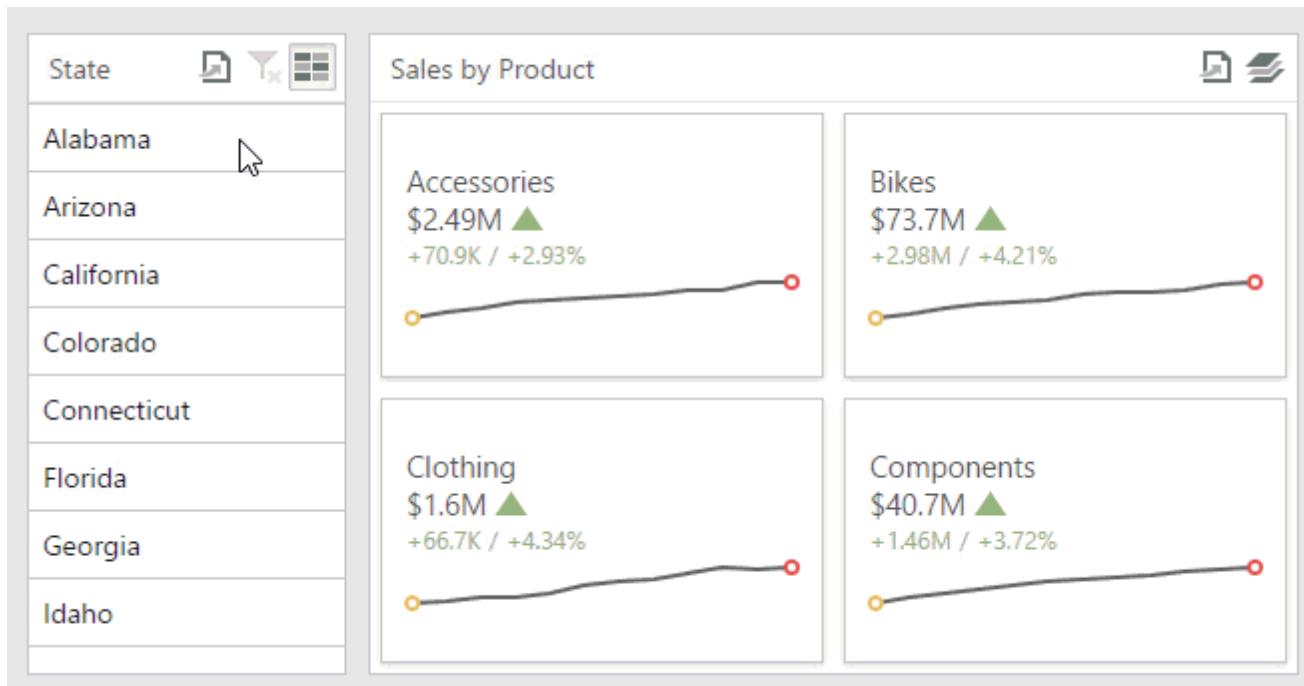
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Grid](#) > [Interactivity](#)

This topic describes features that enable interaction between the **Grid** and other dashboard items. These features include **Master Filtering** and **Drill-Down**.

Master Filtering

The Web Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items (**Master Filter**). To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

When Master Filtering is enabled, you can click a grid row (or multiple rows) to make other dashboard items only display data related to the selected record(s).



To clear the selection in the Master Filter item, use the **Clear Master Filter** button (the  icon) in the grid's [caption](#) area.

Drill-Down

The built-in drill-down capability allows you to change the detail level of data displayed in dashboard items on the fly. To learn more, see [Drill-Down](#).

The Grid dashboard item supports drill-down for rows.

When drill-down is enabled, you can click a grid row to view the details.

Category Name	Extended Price
Beverages	\$268K
Condiments	\$106K
Confections	\$167K
Dairy Products	\$235K
Grains/Cereals	\$95.7K
Meat/Poultry	\$163K
Produce	\$100K
Seafood	\$131K



Product Name	Extended Price
Alice Mutton	\$32.7K
Mishi Kobe Niku	\$7.23K
Pâté chinois	\$17.4K
Perth Pasties	\$20.6K
Thüringer Rostbratwurst	\$80.4K
Tourtière	\$4.73K

Note

When **Master Filtering** is enabled, you can view the details by clicking the selected row.

To return to the previous detail level (drill up), use the **Drill Up** button (the ↺ icon) in the grid's [caption](#) area.

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Grid](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items, or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting a **Grid** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)
- [Export To Excel](#)

Export To PDF

The dialog box is titled "Export To PDF - Sales by State". It contains the following settings:

- File Name:** Sales by State
- Page Layout:** Portrait (selected)
- Size:** Letter
- Show Title:** Checked
- Title:** Sales by State
- Print Headers on Every Page:** Checked
- Fit to Page Width:** Checked
- Scale Mode:** None
- Include:** Filters (checked), Parameters (checked)
- Position:** Below

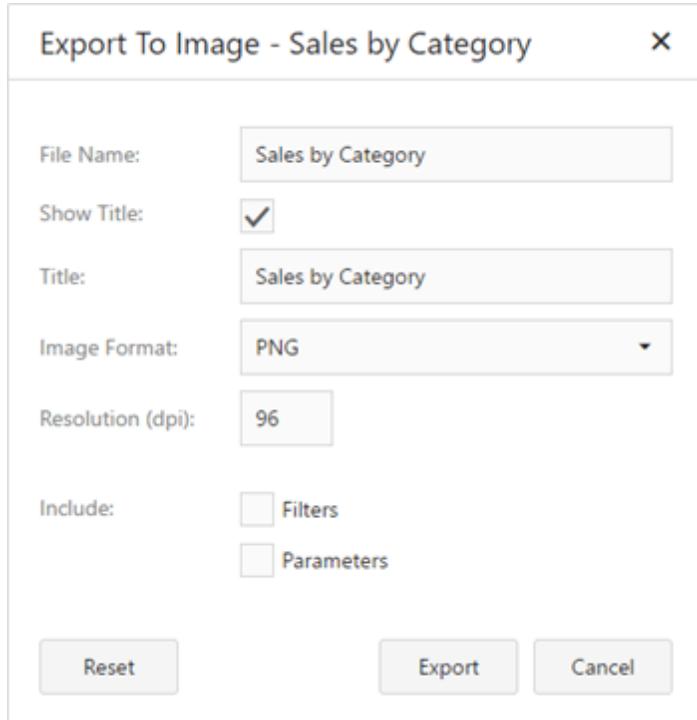
At the bottom are three buttons: Reset, Export (highlighted in blue), and Cancel.

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Print Headers on Every Page** - Specifies whether to print column headers of the Grid dashboard item on every page.
- **Fit to Page Width** - Specifies whether the size of the grid is changed according to the width of the exported page.
- **Scale Mode** - Specifies the mode for scaling when exporting a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Grid dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

All data-bound dashboard items provide the same set of options when exporting them to an Image format. The following options are available:



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Excel

Data visualized within all data-bound dashboard items can be exported to the required Excel format. The following options are available:

Export To Excel - Sales by Category X

File Name:

Excel Format: ▼

Separator:

Include: Filters
 Parameters

Position: ▼

Reset Export Cancel

- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel format in which the dashboard item is exported. You can use the XLSX, XLS or CSV formats.
- **Separator** - Specifies the string used to separate values in the exported CSV document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Pies

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Pies](#)

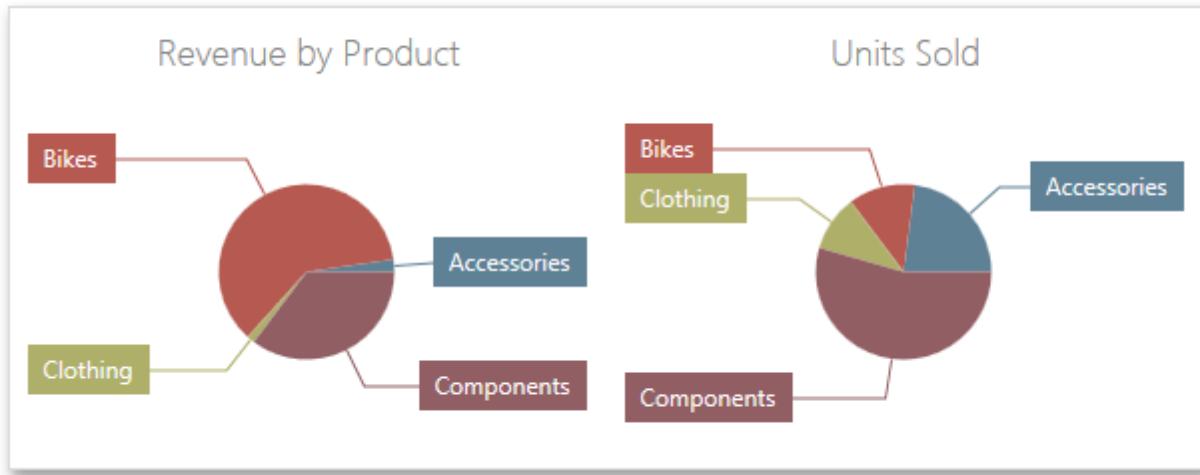
The topics in this section describe the **Pie** dashboard item, which displays a series of pies or donuts that represent the contribution of each value to a total.

- [Data Presentation Basics](#)
- [Interactivity](#)
- [Exporting](#)

Data Presentation Basics

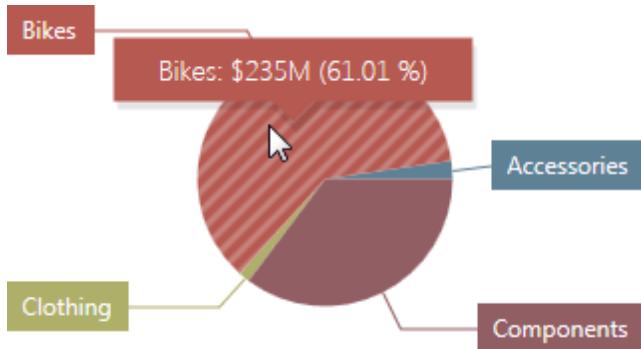
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Pies](#) > [Data Presentation Basics](#)

The **Pie** dashboard item displays a series of pies or donuts that represent the contribution of each value to a total.



Tooltip

A Pie dashboard item can display a tooltip that shows information about the hovered pie segment.



Interactivity

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Pies](#) > [Interactivity](#)

This topic describes features that enable interaction between the **Pie** and other dashboard items. These features include **Master Filtering** and **Drill-Down**.

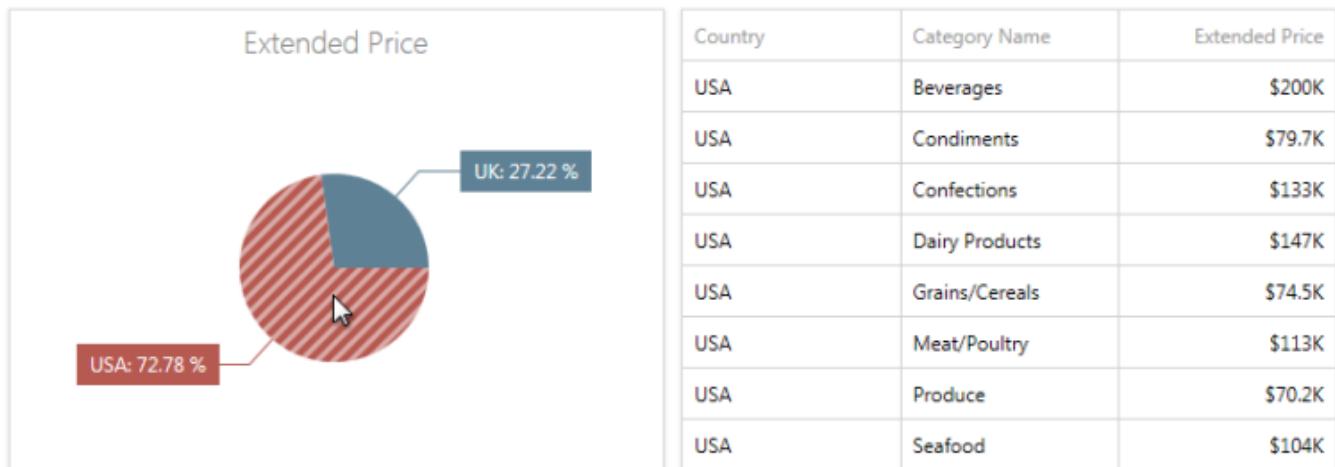
Master Filtering

The Web Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items (**Master Filter**). To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

The Pie dashboard item supports filtering by **argument** or **series** values.

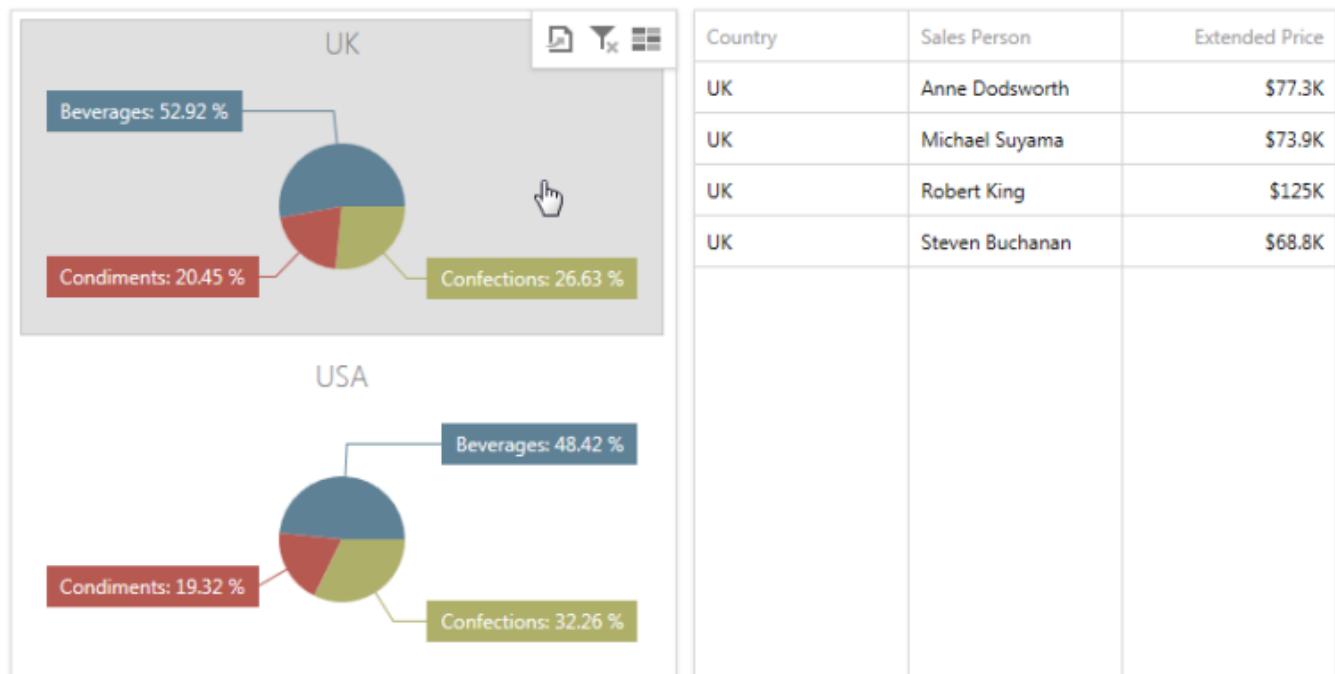
- **Filtering by Arguments**

When filtering by arguments is enabled, you can click a pie segment to make other dashboard items only display data related to the selected argument value.



- **Filtering by Series**

When filtering by series is enabled, you can click a pie to make other dashboard items display only data related to the selected pie.



To clear the selection in the Master Filter item, use the **Clear Master Filter** button (the  icon) in the pie's [caption](#) area.

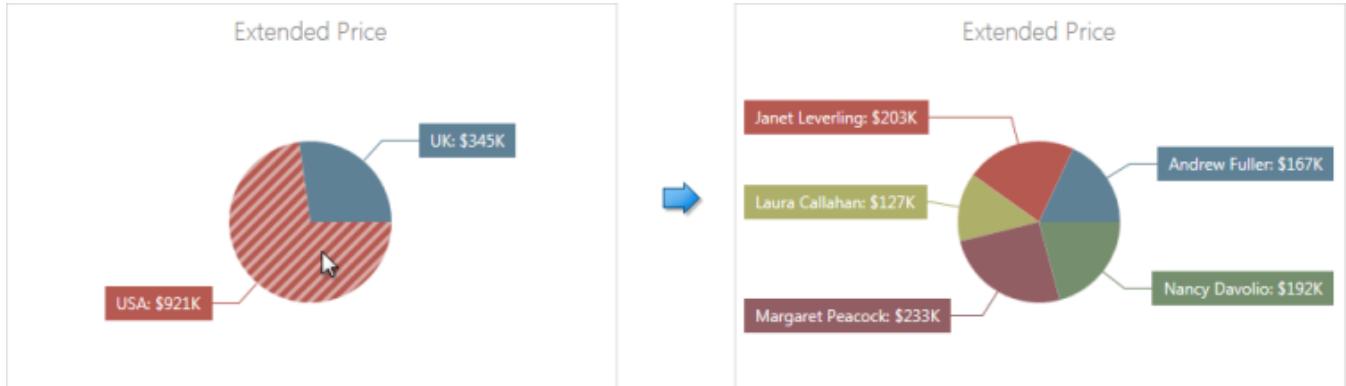
Drill-Down

The built-in drill-down capability allows you to change the detail level of data displayed in dashboard items on the fly. To learn more, see [Drill-Down](#).

The Pie dashboard item supports drill-down on argument or series values.

- **Drill Down on Arguments**

When drill-down on arguments is enabled, you can click a pie segment to view a detail diagram for the corresponding argument value.



 **Note**

When **Filtering by Arguments** is enabled, you can view the details by clicking a selected pie segment.

- **Drill-Down on Series**

When drill-down on a series is enabled, you can click a pie chart to view a detail diagram for the corresponding series value.



 **Note**

When **Filtering by Series** is enabled, you can view the details by clicking a selected pie chart.

To return to the previous detail level (drill up), use the **Drill Up** button (the  icon) in the pie's [caption](#) area.

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Pies](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items, or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting a **Pie** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)
- [Export To Excel](#)

Export To PDF

The dialog box is titled "Export To PDF - Sales by Category". It contains the following settings:

- File Name:** Sales by Category
- Page Layout:** Portrait (selected)
- Size:** Letter
- Show Title:** Checked
- Title:** Sales by Category
- Auto Arrange Content:** Checked
- Scale Mode:** None
- Include:** Filters (checked), Parameters (checked)
- Position:** Below

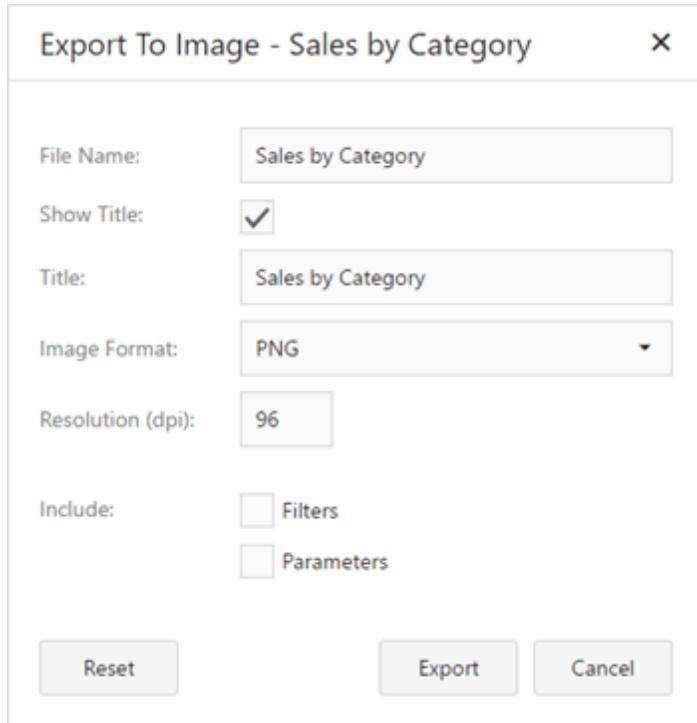
At the bottom are three buttons: Reset, Export, and Cancel.

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Auto Arrange Content** - Specifies whether pies are arranged automatically in the exported document.
- **Scale Mode** - Specifies the mode for scaling when exporting a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Pie dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

All data-bound dashboard items provide the same set of options when exporting them to an Image format. The following options are available:



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Excel

Data visualized within all data-bound dashboard items can be exported to the required Excel format. The following options are available:

Export To Excel - Sales by Category X

File Name:

Excel Format: ▼

Separator:

Include: Filters
 Parameters

Position: ▼

Reset Export Cancel

- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel format in which the dashboard item is exported. You can use the XLSX, XLS or CSV formats.
- **Separator** - Specifies the string used to separate values in the exported CSV document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Cards

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Cards](#)

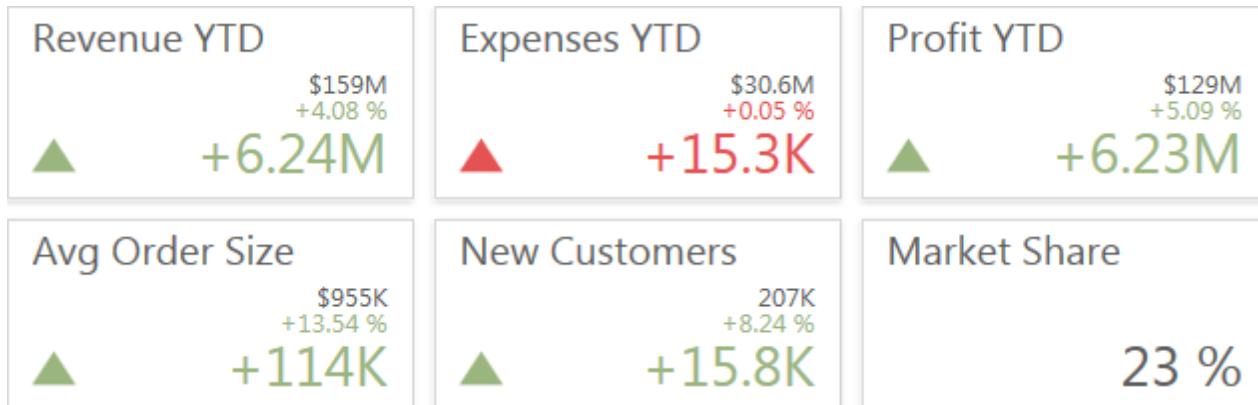
The topics in this section describe the **Card** dashboard item, which displays a series of cards. Each card can display a single value, or show the difference between two values.

- [Data Presentation Basics](#)
- [Interactivity](#)
- [Exporting](#)

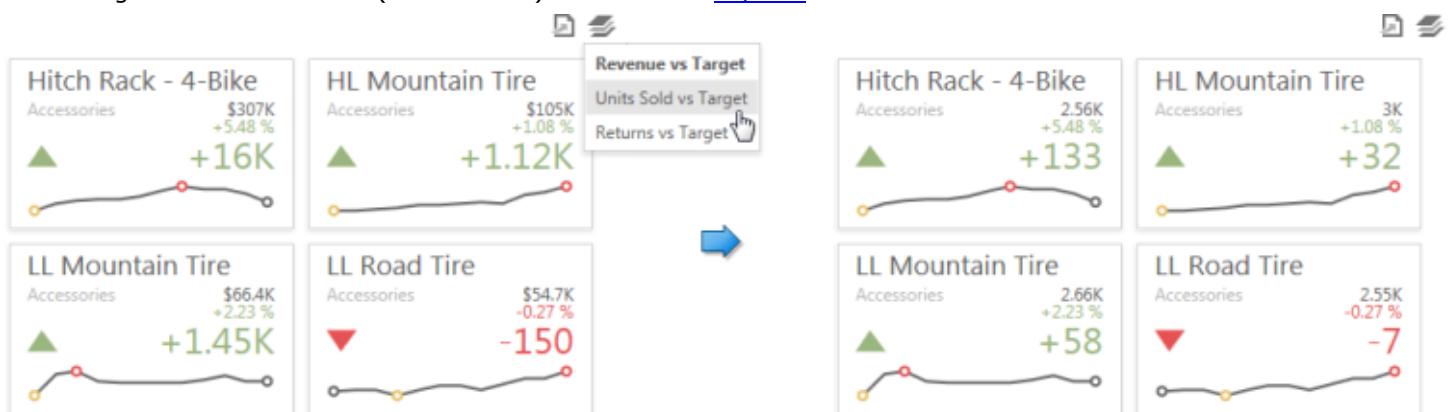
Data Presentation Basics

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Cards](#) > [Data Presentation Basics](#)

The **Card** dashboard item displays a series of cards. Each card illustrates the difference between two values. This difference can be expressed as an absolute value, an absolute variation or a percentage variation.

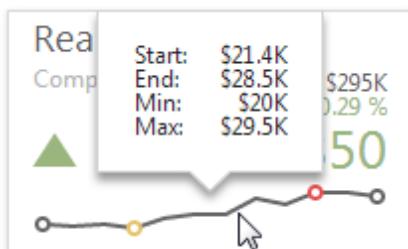


The **Card** dashboard item can illustrate this difference for various sets of values. You can switch between these sets using the **Values** button (the icon) in the card's [caption](#).



Tooltip

A **Card** dashboard item can display a tooltip for cards containing a sparkline. When the mouse pointer is hovered over the sparkline, the tooltip can display start/end values and minimum/maximun values.



Interactivity

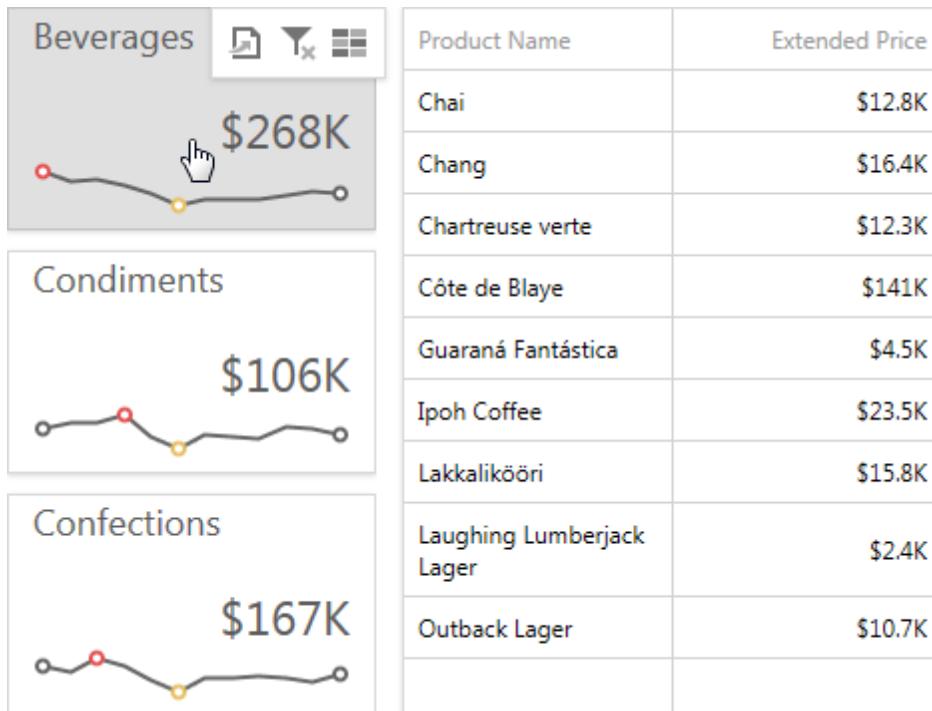
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Cards](#) > [Interactivity](#)

This topic describes features that enable interaction between the **Card** and other dashboard items. These features include **Master Filtering** and **Drill-Down**.

Master Filtering

The Web Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items (the **Master Filter**). To learn more, see the [Master Filtering](#) topic, which describes filtering concepts common to all dashboard items.

When Master Filtering is enabled, you can click a card (or cards) to make other dashboard items only display data related to the selected card (or cards).

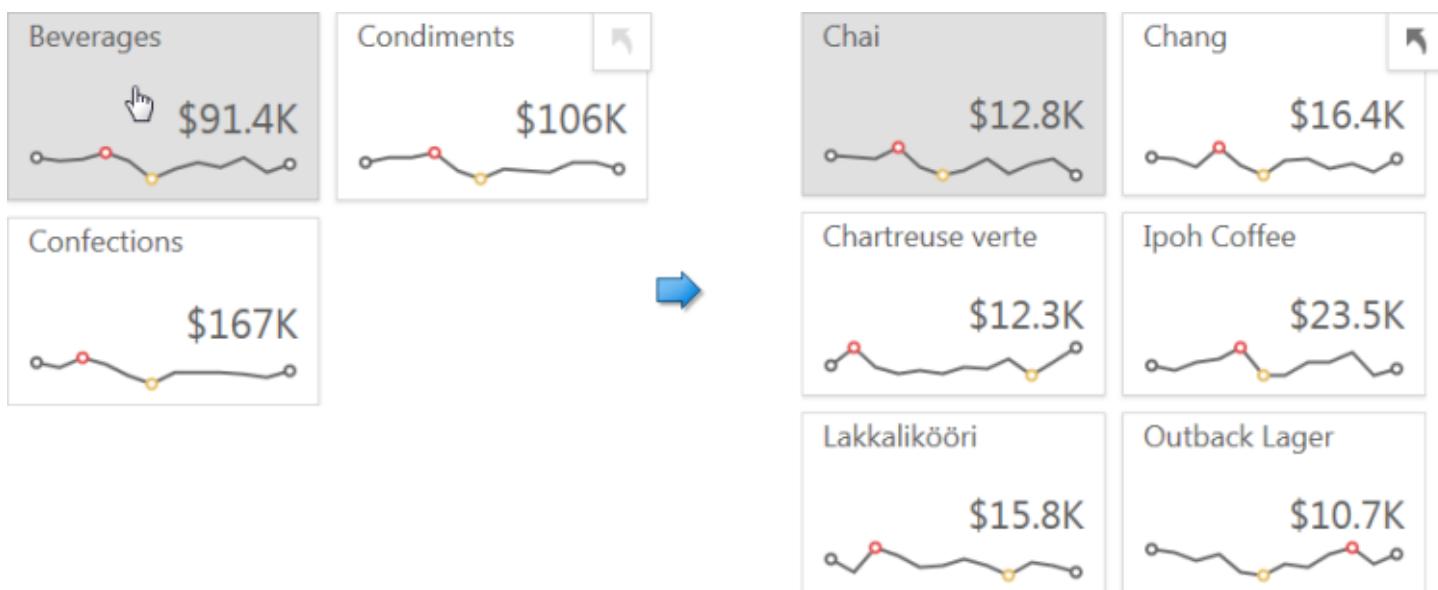


To clear the selection in the Master Filter item, use the **Clear Master Filter** button (the icon) in the card's [caption](#).

Drill-Down

The built-in drill-down capability allows you to change the detail level of data displayed in dashboard items on the fly. To learn more, see [Drill-Down](#).

When drill-down is enabled, you can click a card to view the details.

**Note**

When **Master Filtering** is enabled, you can view the details by clicking a selected card.

To return to the previous detail level (drill up), use the **Drill Up** button (the ↺ icon) in the card's [caption](#).

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Cards](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items, or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting a **Card** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)
- [Export To Excel](#)

Export To PDF

The dialog box is titled "Export To PDF - Sales by Category". It contains the following settings:

- File Name:** Sales by Category
- Page Layout:** Portrait (selected)
- Size:** Letter
- Show Title:** Checked
- Title:** Sales by Category
- Auto Arrange Content:** Checked
- Scale Mode:** None
- Include:** Filters (checked), Parameters (checked)
- Position:** Below

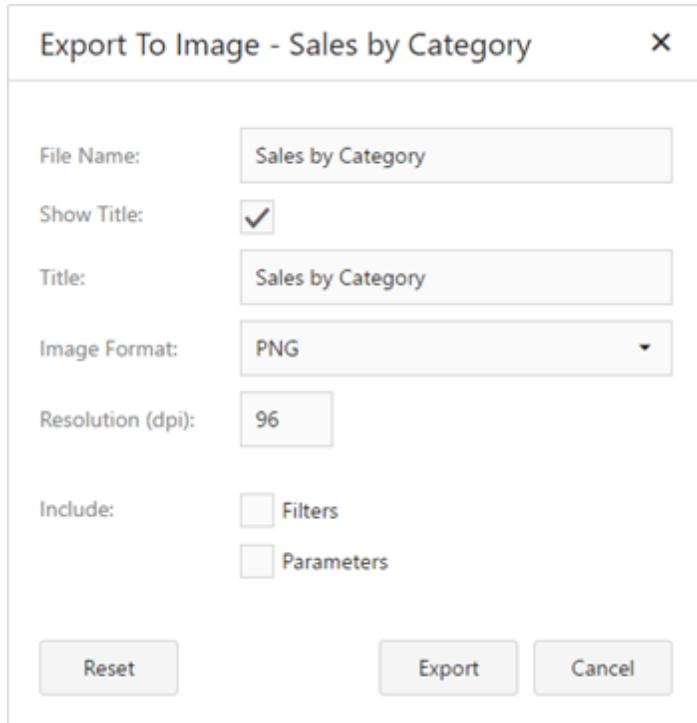
At the bottom are three buttons: Reset, Export, and Cancel.

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Auto Arrange Content** - Specifies whether cards are arranged automatically in the exported document.
- **Scale Mode** - Specifies the mode for scaling when exporting a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Card dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

All data-bound dashboard items provide the same set of options when exporting them to an Image format. The following options are available:



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Excel

Data visualized within all data-bound dashboard items can be exported to the required Excel format. The following options are available:

Export To Excel - Sales by Category X

File Name:

Excel Format: ▼

Separator:

Include: Filters
 Parameters

Position: ▼

Reset Export Cancel

- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel format in which the dashboard item is exported. You can use the XLSX, XLS or CSV formats.
- **Separator** - Specifies the string used to separate values in the exported CSV document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Gauges

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Gauges](#)

The topics in this section describe the **Gauge** dashboard item, which displays a series of gauges.

- [Data Presentation Basics](#)
- [Interactivity](#)
- [Exporting](#)

Data Presentation Basics

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Gauges](#) > [Data Presentation Basics](#)

The **Gauge** dashboard item displays a series of gauges. Each gauge can communicate two values - one with a needle and the other with a marker on the scale.



The **Gauge** dashboard item can illustrate this difference for various sets of values. You can switch between these sets using the **Values** button (the icon) in the gauge's [caption](#).

Interactivity

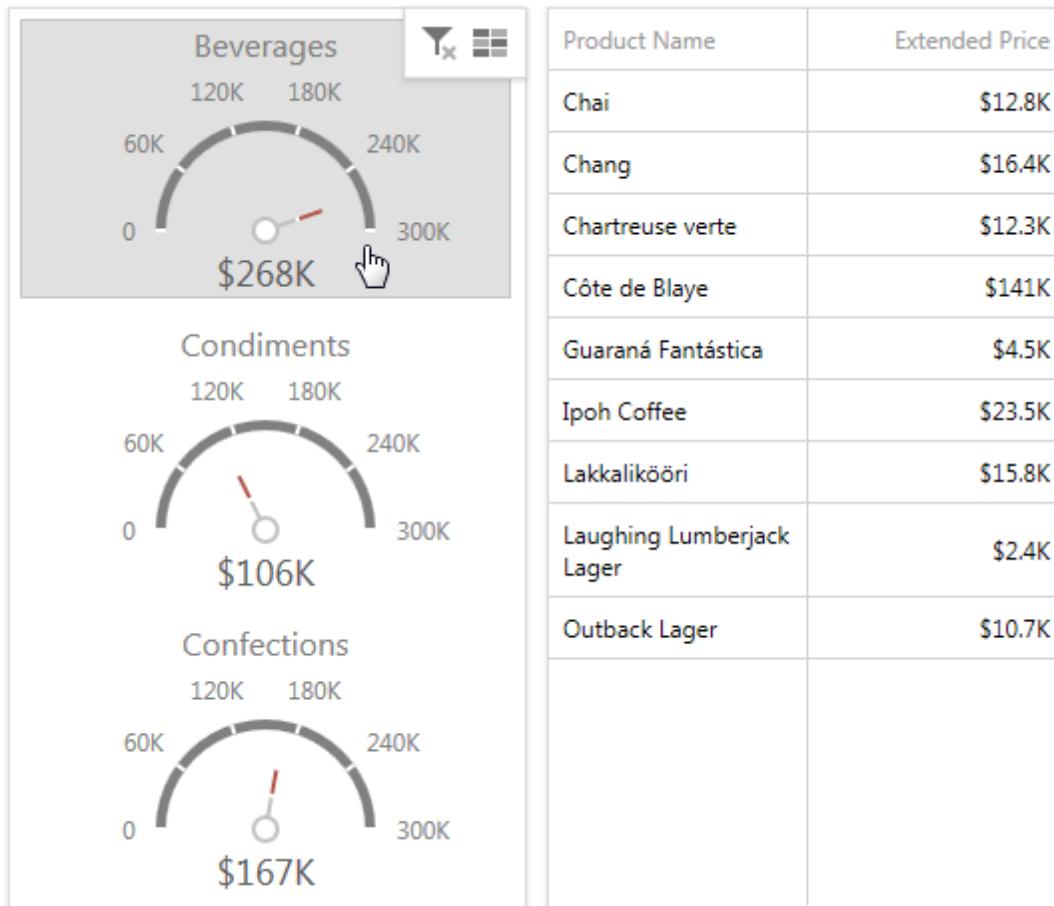
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Gauges](#) > [Interactivity](#)

This topic describes features that enable interaction between the **Gauge** and other dashboard items. These features include **Master Filtering** and **Drill-Down**.

Master Filtering

The Web Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items (**Master Filter**). To learn more, see the [Master Filtering](#) topic, which describes filtering concepts common to all dashboard items.

When Master Filtering is enabled, you can click a gauge (or multiple gauges) to make other dashboard items only display data related to the selected gauge or gauges.

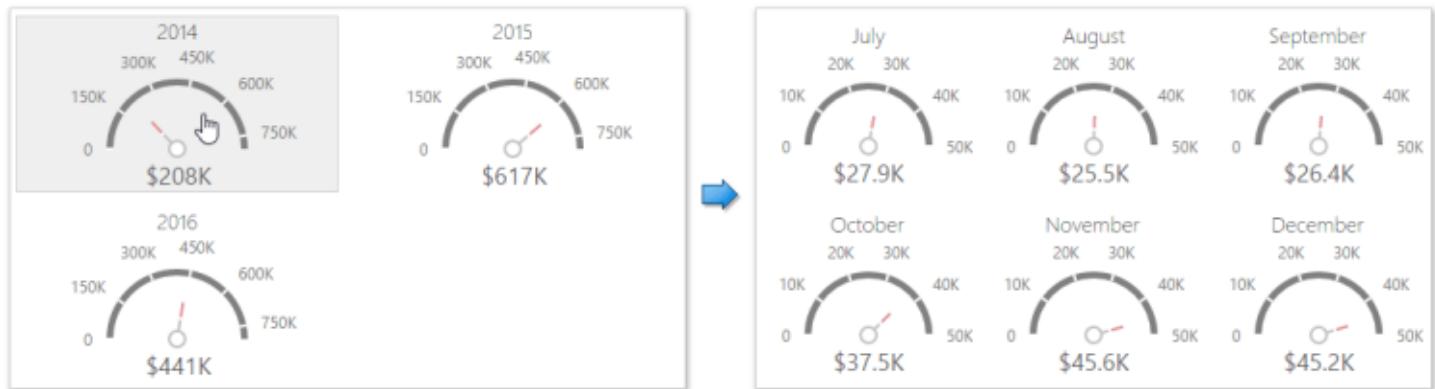


To clear the selection in the Master Filter item, use the **Clear Master Filter** button (the icon) in the dashboard item [caption](#).

Drill-Down

The built-in drill-down capability allows you to change the detail level of data displayed in dashboard items on the fly. To learn more, see [Drill-Down](#).

When drill-down is enabled, you can click a gauge to view the details.

**Note**

When **Master Filtering** is enabled, you can view the details by clicking a selected gauge.

To return to the previous detail level (drill up), use the **Drill Up** button (the ↺ icon) in the dashboard item's [caption](#).

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Gauges](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items, or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting a **Gauge** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)
- [Export To Excel](#)

Export To PDF

The dialog box has a title bar 'Export To PDF - Sales by Category' with a close button 'x'. It contains the following settings:

- File Name:** Sales by Category
- Page Layout:** Portrait (selected)
- Size:** Letter
- Show Title:** checked
- Title:** Sales by Category
- Auto Arrange Content:** checked
- Scale Mode:** None
- Include:** Filters (unchecked), Parameters (unchecked)
- Position:** Below

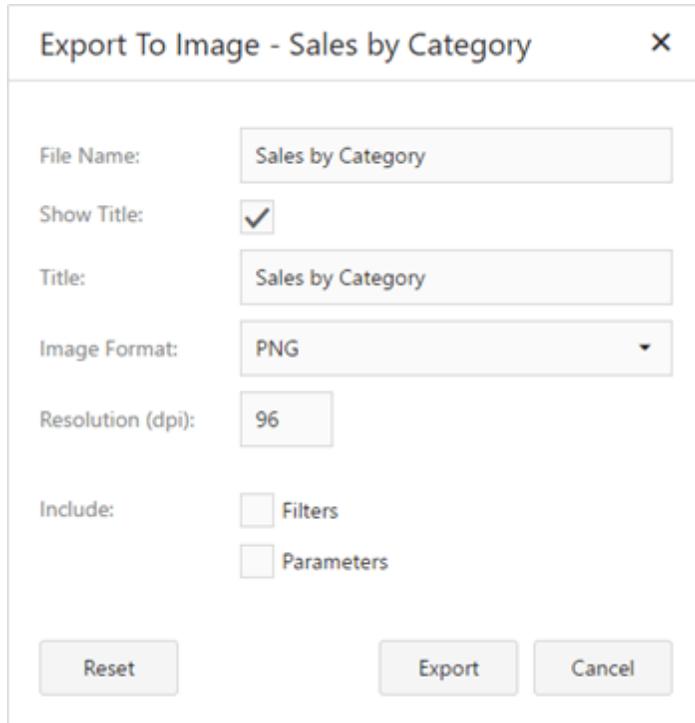
At the bottom are three buttons: Reset, Export (highlighted in blue), and Cancel.

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Auto Arrange Content** - Specifies whether gauges are arranged automatically in the exported document.
- **Scale Mode** - Specifies the mode for scaling when exporting a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Gauge dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

All data-bound dashboard items provide the same set of options when exporting them to an Image format. The following options are available:



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Excel

Data visualized within all data-bound dashboard items can be exported to the required Excel format. The following options are available:

Export To Excel - Sales by Category X

File Name:

Excel Format: ▼

Separator:

Include: Filters
 Parameters

Position: ▼

Reset Export Cancel

- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel format in which the dashboard item is exported. You can use the XLSX, XLS or CSV formats.
- **Separator** - Specifies the string used to separate values in the exported CSV document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Pivot

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Pivot](#)

The **Pivot** dashboard item displays a cross-tabular report that presents multi-dimensional data in an easy-to-read format.

		Accessories		Bikes		Clothing	
		Units Sold	Revenue	Units Sold	Revenue	Units Sold	Revenue
California		36.4K	\$1.18M	12K	\$18.9M	15.9K	\$763K
Washington		20.6K	\$622K	7.6K	\$11.1M	9.04K	\$409K
Texas		19.1K	\$655K	6.29K	\$9.53M	10K	\$487K
Florida		12.1K	\$383K	4.4K	\$6.86M	4.78K	\$206K

Expanding and Collapsing Groups

To expand or collapse row and column groups, use the  and  buttons, respectively.

		UK	USA	Grand Total
 1996		\$60.2K	\$148K	\$208K
 1997	Q1	\$27.8K	\$110K	\$138K
	Q2	\$38.1K	\$105K	\$143K
	Q3	\$53.3K	\$101K	\$154K
	Q4	\$41.3K	\$140K	\$182K
1997 Total		\$161K	\$456K	\$617K
 1998		\$124K	\$317K	\$441K
Grand Total		\$345K	\$921K	\$1.27M

See Also

[Exporting](#)

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Pivot](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items, or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting a **Pivot** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)
- [Export To Excel](#)

Export To PDF

The dialog box is titled "Export To PDF - Sales by State". It contains the following settings:

- File Name:** Sales by State
- Page Layout:** Portrait (selected)
- Size:** Letter
- Show Title:** Checked
- Title:** Sales by State
- Print Headers on Every Page:** Checked
- Scale Mode:** None
- Include:** Filters (unchecked), Parameters (unchecked)
- Position:** Below

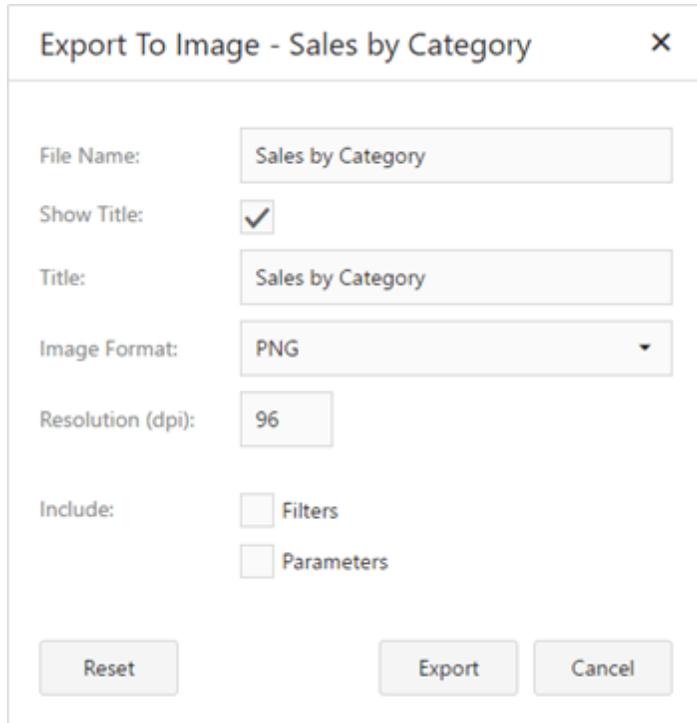
At the bottom are three buttons: Reset, Export (highlighted in grey), and Cancel.

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Print Headers on Every Page** - Specifies whether to print column headers of the Pivot dashboard item on every page.
- **Scale Mode** - Specifies the mode for scaling when exporting a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Pivot dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

All data-bound dashboard items provide the same set of options when exporting them to an Image format. The following options are available:



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Excel

Data visualized within all data-bound dashboard items can be exported to the required Excel format. The following options are available:

Export To Excel - Sales by Category X

File Name:

Excel Format: ▼

Separator:

Include: Filters
 Parameters

Position: ▼

Reset Export Cancel

- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel format in which the dashboard item is exported. You can use the XLSX, XLS or CSV formats.
- **Separator** - Specifies the string used to separate values in the exported CSV document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Choropleth Map

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Choropleth Map](#)

The topics in this section describe the **Choropleth Map** dashboard item, which colorizes the required areas in proportion to the provided values.

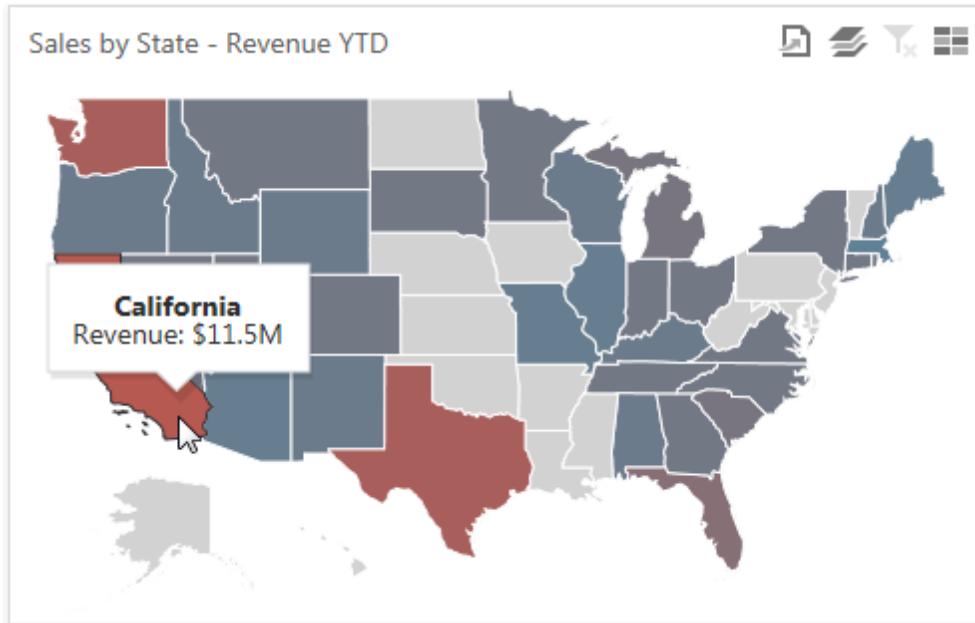
- [Data Presentation Basics](#)
- [Interactivity](#)
- [Exporting](#)

Data Presentation Basics

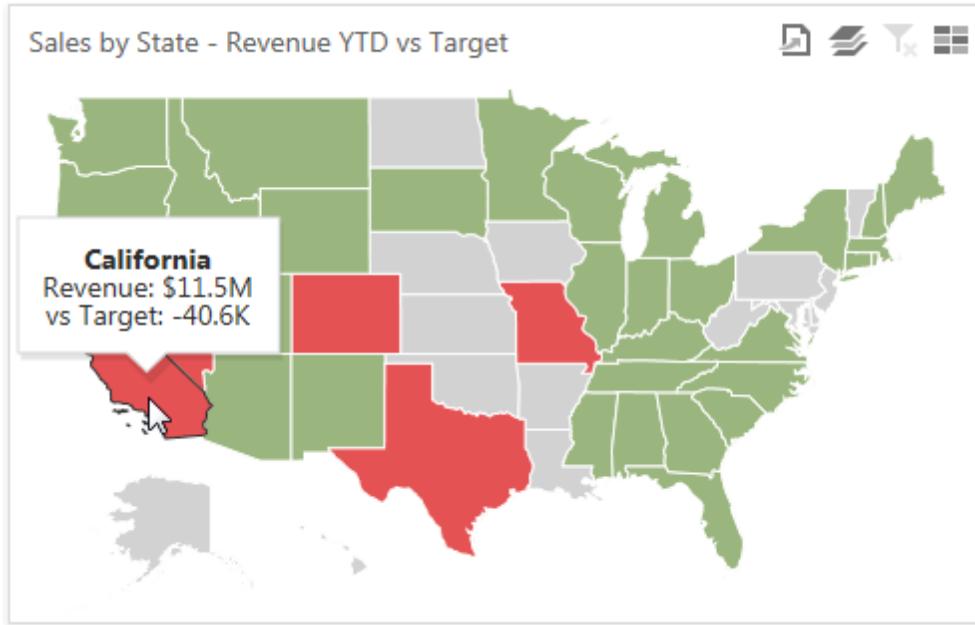
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Choropleth Map](#) > [Data Presentation Basics](#)

The **Choropleth Map** dashboard item colorizes map areas in two ways.

- Based on the provided values.



- Based on the difference between the actual and target values of a particular parameter.



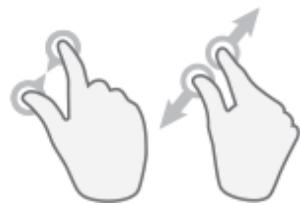
You can switch between the provided values using the **Values** button (the icon) in the map's [caption](#).

Map Zooming and Scrolling

Use the following actions to scroll a map.

- **Zooming**
 - Use the mouse scroll wheel to change the current zoom level for the map.

- On a touchscreen device, use pinch or spread gestures to change the current zoom level.



- **Scrolling**

- To scroll the map, hold down the left mouse button and drag it.
- On a touchscreen device, use flick gestures to scroll the map.



Tooltip

The **Choropleth Map** dashboard item can display a tooltip that shows information on a hovered area.



Interactivity

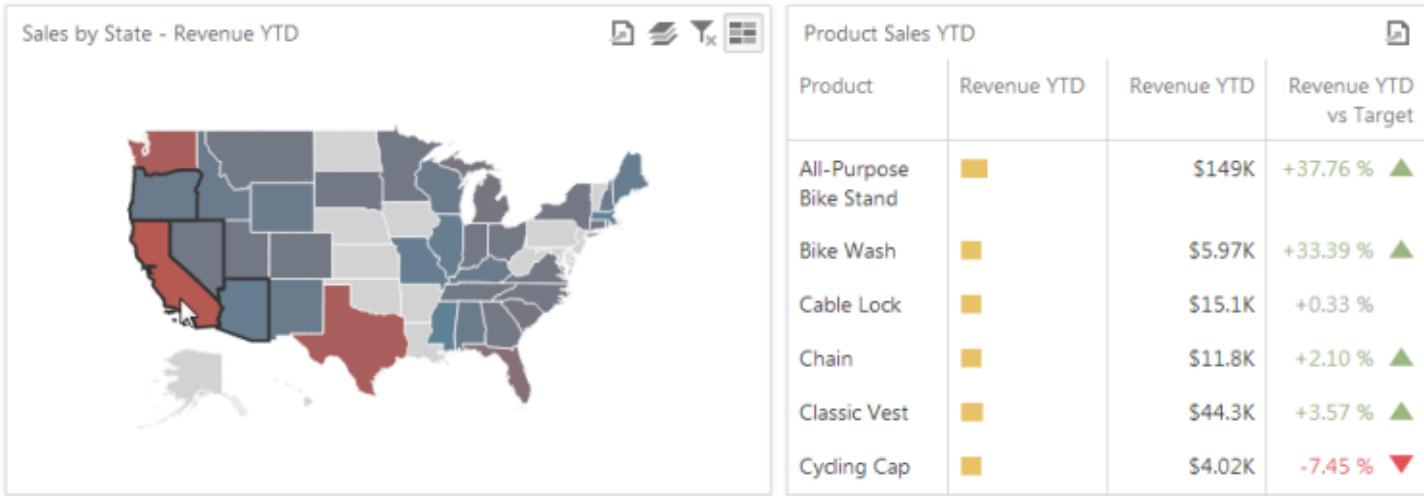
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Choropleth Map](#) > [Interactivity](#)

This document describes the **Master Filtering** feature, which enables interaction between the **Choropleth Map** and other dashboard items..

Master Filtering

The Web Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items (**Master Filter**). To learn more, see the [Master Filtering](#) topic, which describes filtering concepts common to all dashboard items.

When Master Filtering is enabled, you can click a shape (or multiple shapes) to make other dashboard items only display data related to the selected shape (or shapes).



To reset filtering, use the **Clear Master Filter** button (the icon) in the map's [caption](#).

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Choropleth Map](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items, or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting a **Choropleth Map** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)
- [Export To Excel](#)

Export To PDF

Export To PDF - Sales by State X

File Name:

Page Layout: Portrait
 Landscape
 Auto

Size:

Show Title:

Title:

Size Mode: None
 Zoom

Include: Filters
 Parameters

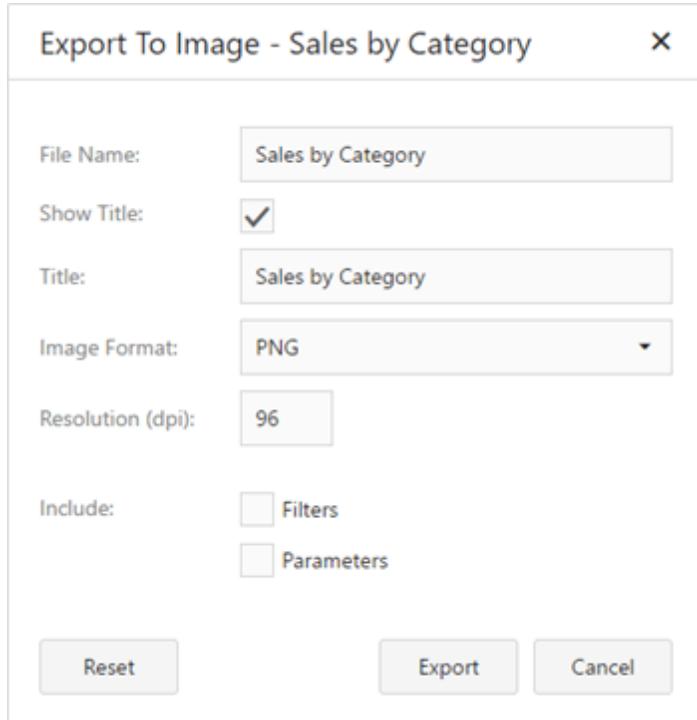
Position:

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** -Specifies the title of the exported document.
- **Size Mode** - Specifies the export size mode for the Choropleth Map dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Choropleth Map dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

All data-bound dashboard items provide the same set of options when exporting them to an Image format. The following options are available:



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Excel

Data visualized within all data-bound dashboard items can be exported to the required Excel format. The following options are available:

Export To Excel - Sales by Category X

File Name:

Excel Format: ▼

Separator:

Include: Filters
 Parameters

Position: ▼

Reset Export Cancel

- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel format in which the dashboard item is exported. You can use the XLSX, XLS or CSV formats.
- **Separator** - Specifies the string used to separate values in the exported CSV document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Geo Point Maps

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Geo Point Maps](#)

The topics in this section describe various types of **Geo Point Map** dashboard items which places callouts, bubbles or pies on the map using geographical coordinates.

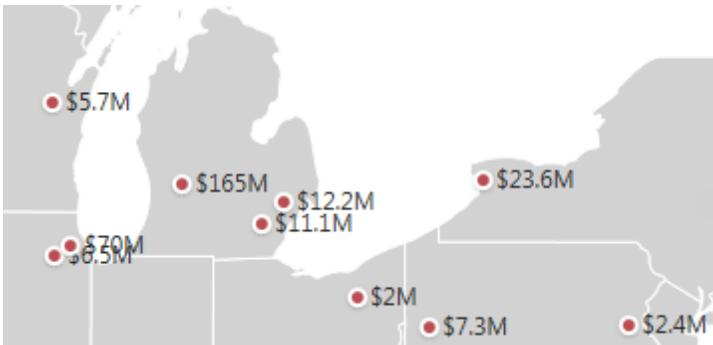
- [Data Presentation Basics](#)
- [Interactivity](#)
- [Exporting](#)

Data Presentation Basics

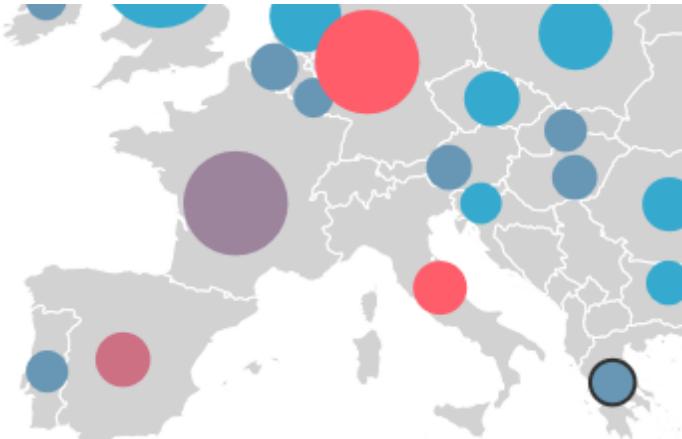
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Geo Point Maps](#) > [Data Presentation Basics](#)

The Web Dashboard supports three types of **Geo Point** maps.

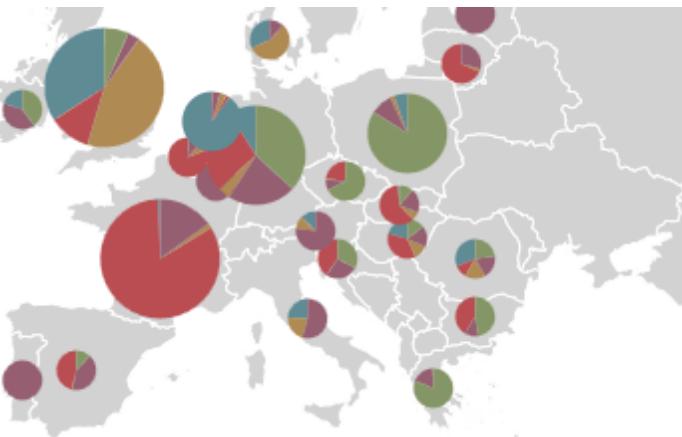
- The **Geo Point Map** dashboard item places callouts on the map using geographical coordinates.



- The **Bubble Map** dashboard item displays bubbles on the map. The color and size of each bubble relay data particular to that color and size.



- The **Pie Map** dashboard item displays pies on the map. Each pie shows the relative contribution that different values contribute to the total.



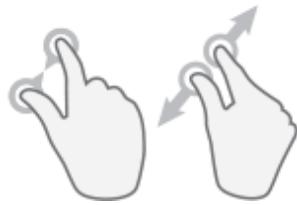
You can switch between the provided values using the **Values** button (the  icon) in the map's [caption](#).

Map Zooming and Scrolling

Use the following actions to scroll a map.

- **Zooming**

- Use the mouse scroll wheel to change the current zoom level for the map.
- On a touchscreen device, use pinch or spread gestures to change the current zoom level.



• Scrolling

- To scroll the map, hold down the left mouse button and drag it.
- On a touchscreen device, use flick gestures to scroll the map.



Tooltip

A **Geo Point Map** dashboard item can display a tooltip that displays information in a hovered callout/bubble/pie.



Interactivity

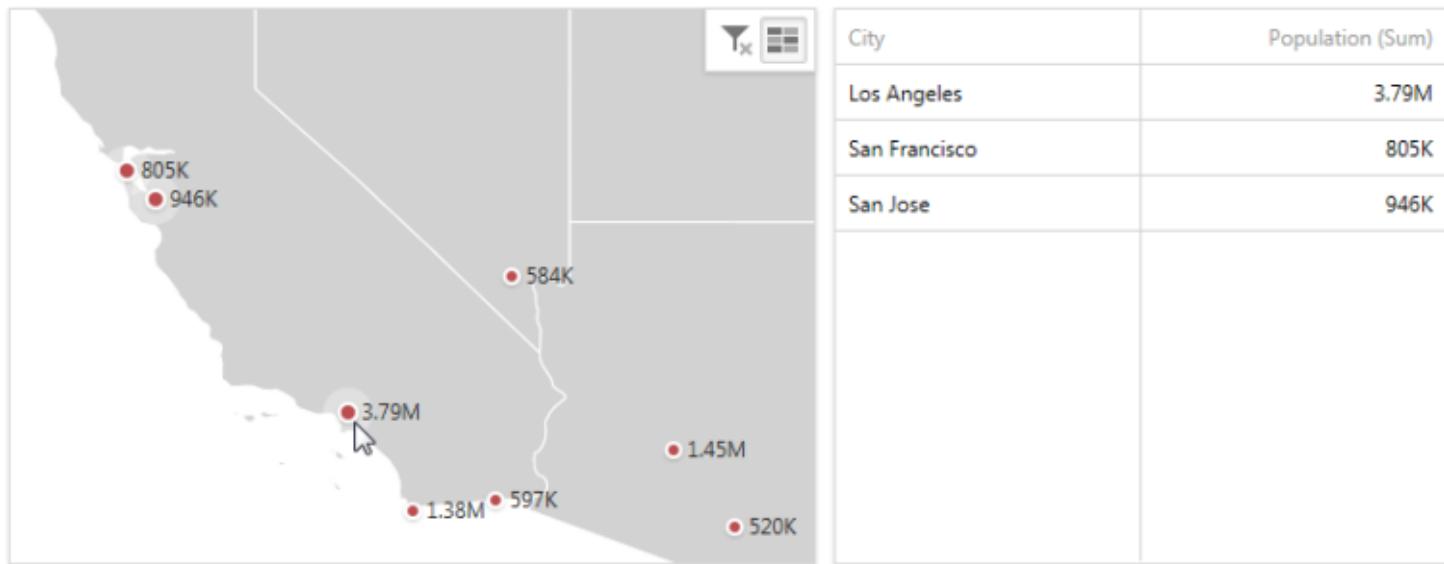
[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Geo Point Maps](#) > [Interactivity](#)

This document describes the **Master Filtering** feature, which enables interaction between the **Geo Point Map** and other dashboard items.

Master Filtering

The Web Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items (**Master Filter**). To learn more, see the [Master Filtering](#) topic, which describes filtering concepts common to all dashboard items.

When Master Filtering is enabled, you can click a callout/bubble/pie (or multiple callouts/bubbles/pies by holding down the **CTRL** key) to make other dashboard items only display data related to the selected callout(s)/bubble(s)/pie(s).



To reset filtering, use the **Clear Master Filter** button (the icon) in the map's [caption](#).

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Geo Point Maps](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items, or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting **Geo Point Map** dashboard items.

- [Export To PDF](#)
- [Export To Image](#)
- [Export To Excel](#)

Export To PDF

Export To PDF - Sales by State X

File Name:

Page Layout: Portrait
 Landscape
 Auto

Size:

Show Title:

Title:

Size Mode: None
 Zoom

Include: Filters
 Parameters

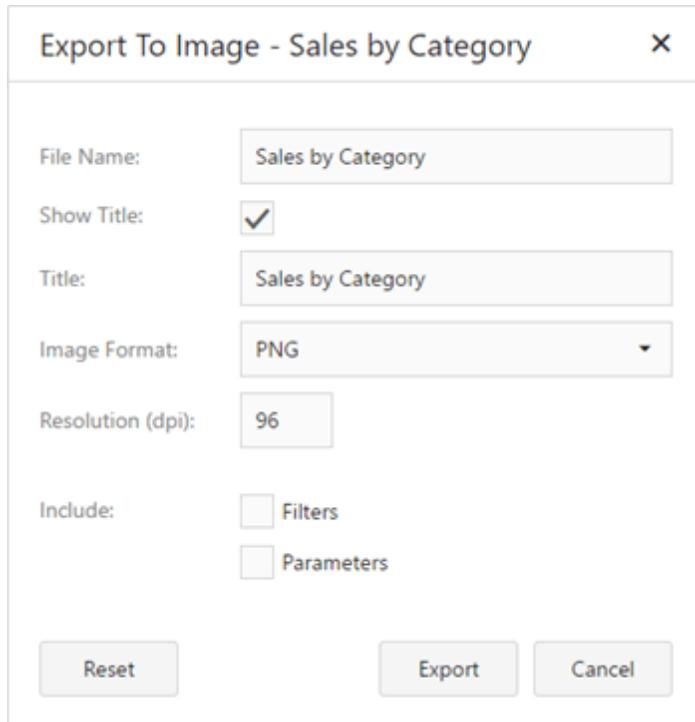
Position:

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** -Specifies the title of the exported document.
- **Size Mode** - Specifies the export size mode for the Geo Point Map dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Geo Point Map dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

All data-bound dashboard items provide the same set of options when exporting them to an Image format. The following options are available:



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Excel

Data visualized within all data-bound dashboard items can be exported to the required Excel format. The following options are available:

Export To Excel - Sales by Category X

File Name:

Excel Format: ▼

Separator:

Include: Filters
 Parameters

Position: ▼

Reset Export Cancel

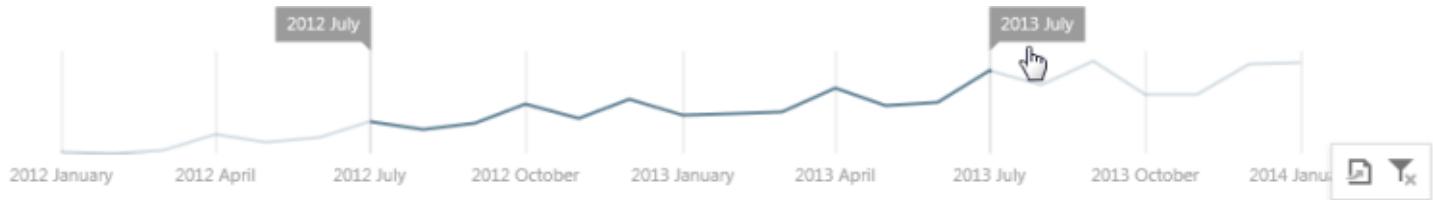
- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel format in which the dashboard item is exported. You can use the XLSX, XLS or CSV formats.
- **Separator** - Specifies the string used to separate values in the exported CSV document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Range Filter

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Range Filter](#)

The **Range Filter** dashboard item allows you to apply filtering to other dashboard items. This item displays a chart with selection thumbs that allow you to filter values displayed along the argument axis.



To reset filtering, use the **Clear Master Filter** button (the  icon).

See Also

[Exporting](#)

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Range Filter](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items, or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting a **Range Filter** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)
- [Export To Excel](#)

Export To PDF

The dialog box has the following configuration:

- File Name:** Range Filter 1
- Page Layout:** Portrait (selected)
- Size:** Letter
- Show Title:** Checked
- Title:** Range Filter 1
- Size Mode:** Stretch (selected)
- Include:** Filters (checked), Parameters (checked)
- Position:** Below

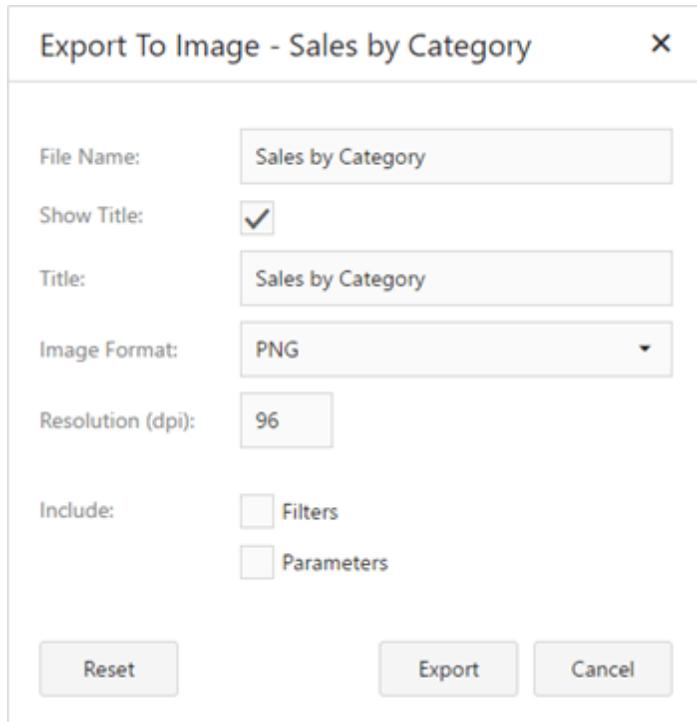
At the bottom are three buttons: Reset, Export, and Cancel.

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Size Mode** - Specifies the export size mode for the Range Filter dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Range Filter dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

All data-bound dashboard items provide the same set of options when exporting them to an Image format. The following options are available:



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Excel

Data visualized within all data-bound dashboard items can be exported to the required Excel format. The following options are available:

Export To Excel - Sales by Category X

File Name:

Excel Format: ▼

Separator:

Include: Filters
 Parameters

Position: ▼

Reset Export Cancel

- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel format in which the dashboard item is exported. You can use the XLSX, XLS or CSV formats.
- **Separator** - Specifies the string used to separate values in the exported CSV document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Image

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Image](#)

The **Image** dashboard item is used to display images within a dashboard.



See Also

[Exporting](#)

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Image](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items, or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting an **Image** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)

Export To PDF

The dialog box has a title bar 'Export To PDF - Product Image' with a close button 'X'. It contains the following fields:

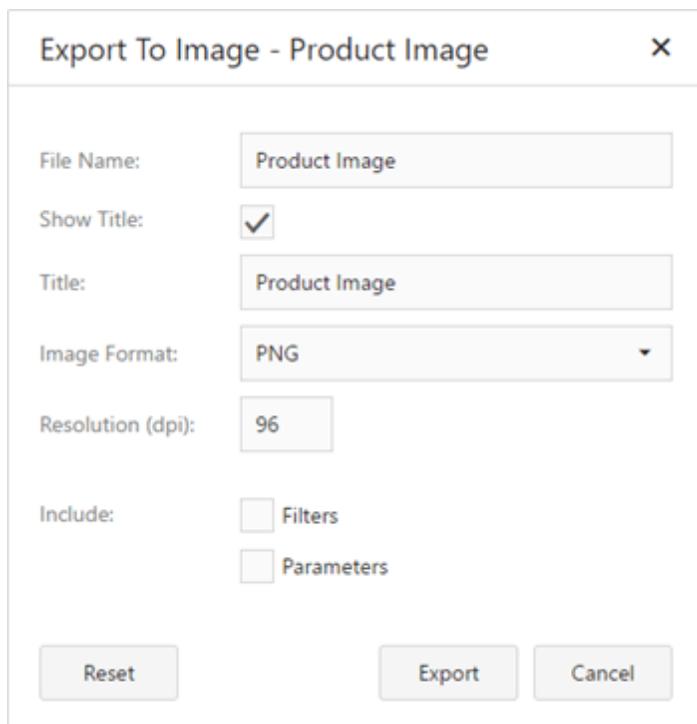
- File Name:** Product Image
- Page Layout:** Portrait (selected)
- Size:** Letter
- Show Title:** checked
- Title:** Product Image
- Scale Mode:** None
- Include:** Filters (unchecked), Parameters (unchecked)
- Position:** Below

At the bottom are three buttons: Reset, Export (highlighted in blue), and Cancel.

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Scale Mode** - Specifies the mode for scaling when exporting a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Image dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** -Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the Image dashboard item. To reset changes to the default values, click the **Reset** button.

Text Box

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Text Box](#)

The **Text Box** dashboard item is used to display rich text within a dashboard.

SuperLCD 70

Production Start: 6/1/2012

Consumer Rating: 4 of 5

Retail Price: \$4K

Best Sales Year: 2014

Best Sales Company: ACME

The 70" DevAV SuperLCD TV is changing the way people watch TV. It's amazing build quality and high precision design means you get the best possible picture for the best possible price. It delivers crystal-clear images with mind-blowing video. The bottom-line is simple, this TV offers 1080p Full HD output with 120Hz refresh rate. A thin frame design with super thin profile makes mounting this TV a breeze. This super-smart remote includes a built-in keypad for straightforward channel surfing. The remote is also backlit so you can easily change channels in the dark. The 70" DevAV SuperLCD TV also includes six video input options so you can display any video signal with ease.

See Also

[Exporting](#)

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Text Box](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items, or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting a **Text Box** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)

Export To PDF

The dialog box has a title bar 'Export To PDF - Product Description' with a close button 'X'. It contains the following fields:

- File Name:** A text input field containing 'Product Description'.
- Page Layout:** A radio button group where 'Portrait' is selected (indicated by a solid dot) and 'Landscape' is unselected.
- Size:** A dropdown menu showing 'Letter'.
- Show Title:** A checked checkbox.
- Title:** A text input field containing 'Product Description'.
- Include:** Two unchecked checkboxes labeled 'Filters' and 'Parameters'.
- Position:** A dropdown menu showing 'Below'.

At the bottom are three buttons: 'Reset', 'Export' (highlighted in blue), and 'Cancel'.

- **File Name** - Specifies the name of the exported PDF file.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Text Box dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

Export To Image - Product Description X

File Name:

Show Title:

Title:

Image Format: ▼

Resolution (dpi):

Include:

Filters
 Parameters

Reset Export Cancel

- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** -Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the Text Box dashboard item. To reset changes to the default values, click the **Reset** button.

Treemap

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Treemap](#)

The Treemap dashboard item visualizes data in nested rectangles that are called *tiles*.

- [Data Presentation Basics](#)
- [Interactivity](#)
- [Exporting](#)

Data Presentation Basics

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Treemap](#) > [Data Presentation Basics](#)

The Treemap dashboard item visualizes data in nested rectangles that are called *tiles*. Tiles corresponding to child values can be combined by parent values into groups. For example, the Treemap below displays combinations of categories and sub-categories.



Labels and Tooltips

The Treemap displays **labels** that contain descriptions for tiles and groups, and provide **tooltips** with additional information.



Interactivity

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Treemap](#) > [Interactivity](#)

This topic describes features that enable interaction between the **Treemap** and other dashboard items. These features include **Master Filtering**.

Master Filtering

The Web Dashboard allows you to use any data aware dashboard item as a filter for other dashboard items (**Master Filter**). To learn more about filtering concepts common to all dashboard items, see the [Master Filtering](#) topic.

When Master Filtering is enabled, you can click a tile/group caption (or multiple tiles/group captions) to make other dashboard items only display data related to the selected tile(s).

Category	Product Sub-Category	Sales (Sum)
Furniture	Chairs & Chairmats	1.76M
Furniture	Tables	1.9M
Technology	Computer Peripherals	796K
Technology	Copiers and Fax	1.13M
Technology	Office Machines	2.17M
Technology	Telephones and Communication	1.89M

To reset filtering, use the **Clear Master Filter** button (the icon) in the Treemap's [caption](#) area, or the **Clear Master Filter** command in the Treemap's context menu.

Drill-Down

The built-in drill-down capability allows you to change the detail level of data displayed in dashboard items on the fly. To learn more about drill-down concepts common to all dashboard items, see the [Drill-Down](#) topic.

When drill-down is enabled, you can click a tile to view the details.

Raclette Courdavault	Camembert Pierrot	Gudbrand...	Flotemysost
Gorgonzol...	Queso ...		
Mozzarella di Gi...			
Queso Ca...	Masca...		

Exporting

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Treemap](#) > [Exporting](#)

The Web Dashboard allows you to export individual dashboard items or the entire dashboard. To learn more about exporting concepts common to all dashboard items, see the [Exporting](#) topic.

This topic describes the specifics of exporting a **Treemap** dashboard item.

- [Export To PDF](#)
- [Export To Image](#)
- [Export To Excel](#)

Export To PDF

The following options are available when exporting the Treemap dashboard item to a PDF.

Export To PDF - Sales by Category

File Name: X

Page Layout: Portrait
 Landscape
 Auto

Size: ▼

Show Title:

Title:

Size Mode: None
 Stretch
 Zoom

Include: Filters
 Parameters

Position: ▼

Buttons:

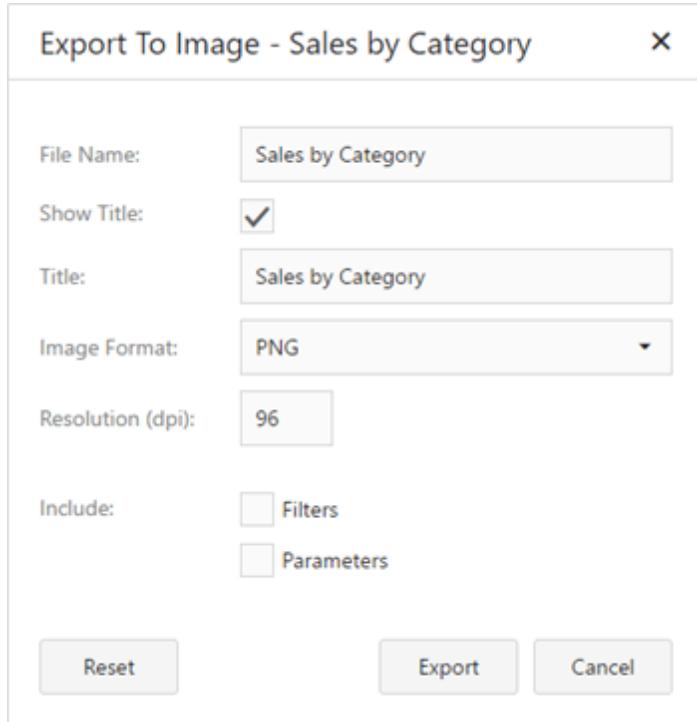
- **File Name** - Specifies the name of the exported PDF.
- **Page Layout** - Specifies the page orientation used to export a dashboard item.
- **Size** - Specifies the standard paper size.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** -Specifies the title of the exported document.
- **Size Mode** - Specifies the export size mode for the Treemap dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Page*.

Specify the required options in this dialog and click the **Export** button to export the Treemap dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Image

All data-bound dashboard items provide the same set of options when exporting them to an Image format. The following options are available:



- **File Name** - Specifies the name of the exported Image file.
- **Show Title** - Specifies whether or not to apply the dashboard item caption to the exported document title.
- **Title** - Specifies the title of the exported document.
- **Image Format** - Specifies the image format in which the dashboard item is exported.
- **Resolution (dpi)** - Specifies the resolution (in dpi) used to export a dashboard item.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Export To Excel

Data visualized within all data-bound dashboard items can be exported to the required Excel format. The following options are available:

Export To Excel - Sales by Category X

File Name:

Excel Format: ▼

Separator:

Include: Filters
 Parameters

Position: ▼

Reset Export Cancel

- **File Name** - Specifies the name of the exported Excel file.
- **Excel Format** - Specifies the Excel format in which the dashboard item is exported. You can use the XLSX, XLS or CSV formats.
- **Separator** - Specifies the string used to separate values in the exported CSV document.
- **Include | Filters** - Allows you to include master filter values to the exported document.
- **Include | Parameters** - Allows you to include parameter values to the exported document.
- **Position** - Specifies the position of the master filter and parameter values in the exported document. You can select between *Below* and *Separate Sheet*.

Specify the required options in this dialog and click the **Export** button to export the dashboard item. To reset changes to the default values, click the **Reset** button.

Filter Elements

[Dashboard for Web](#) > [Web Dashboard - Viewer Mode](#) > [Dashboard Items](#) > [Filter Elements](#)

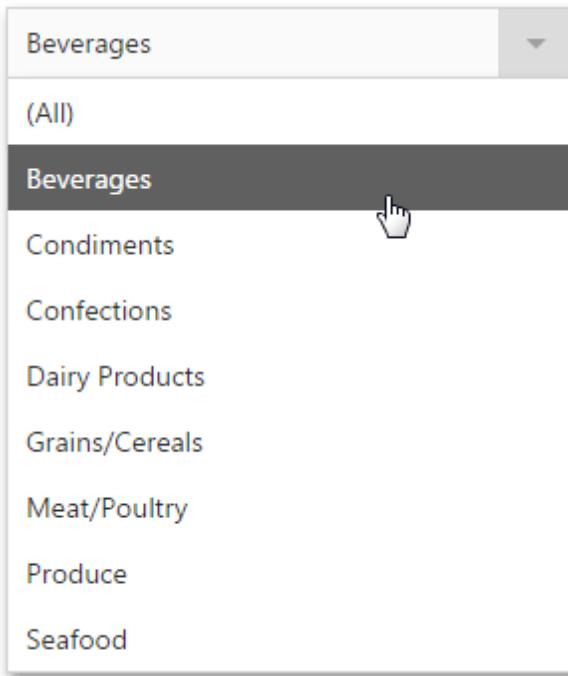
Filter elements provide the capability to [filter](#) other dashboard items.

- [Combo Box](#)
- [List Box](#)
- [Tree View](#)

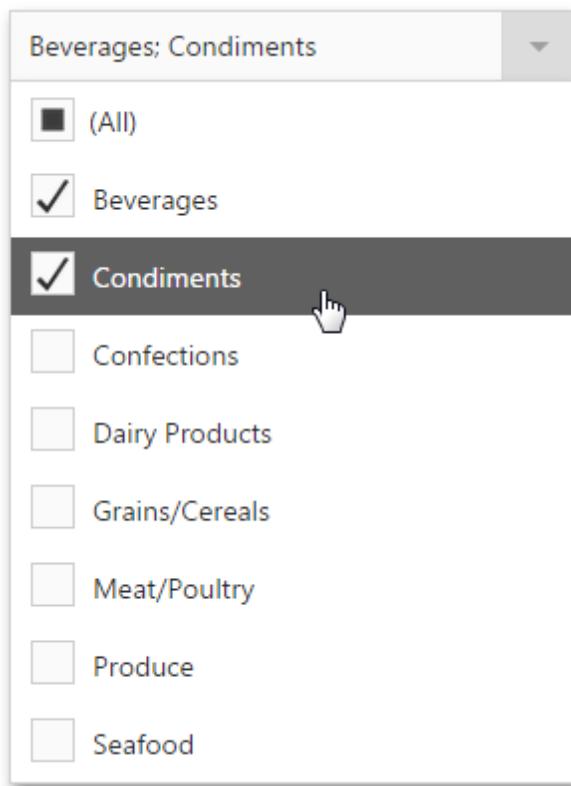
Combo Box

The **Combo Box** dashboard item allows you to select a value(s) from the drop-down list.

- The **Standard** type allows you to select only a single value.



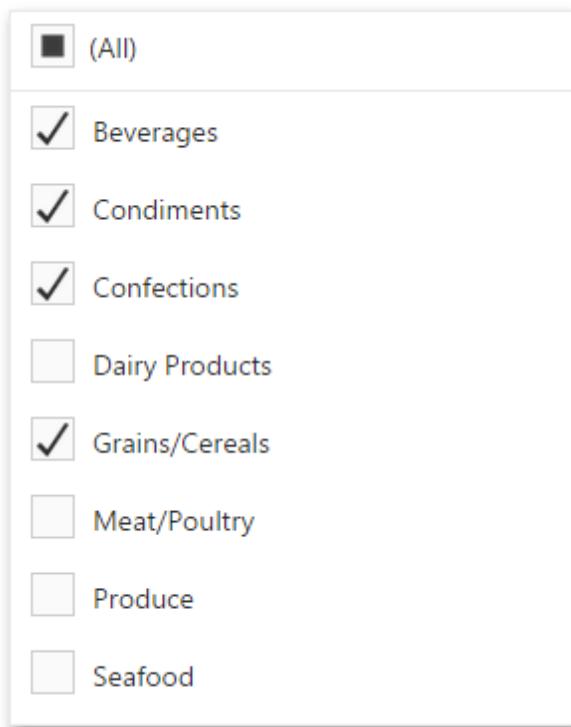
- The **Checked** type allows you to select multiple values in the invoked drop-down list.



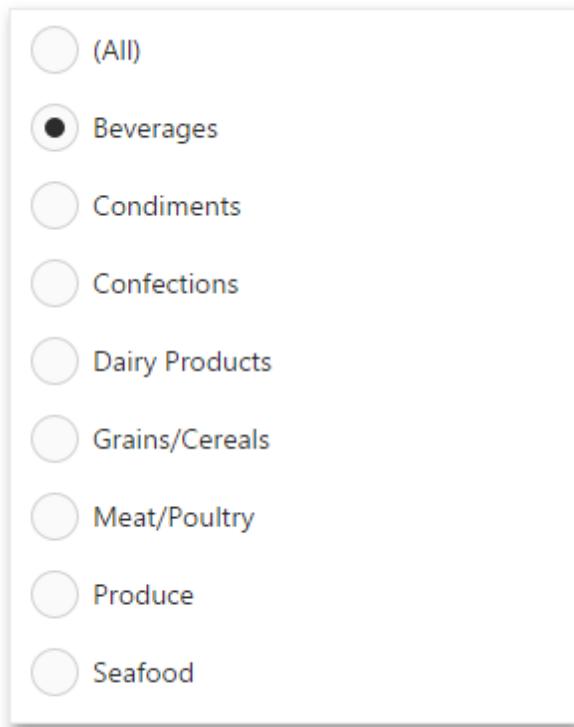
List Box

The **List Box** dashboard item allows you to select a value(s) from the list.

- The **Checked** type allows you to select multiple values in the list box.



- The **Radio** type allows you to select only a single value in the radio group.



Tree View

The **Tree View** dashboard item displays values in a hierarchical way and allows you to expand/collapse nodes.

