

ORGANISE YOUR DATA

Filters

Filters

- Filtering is a way in which you can restrict the amount of data shown on a sheet or a workbook.
- You also get an option to keep or exclude the data that you want for your analysis through filters.
- Through Show Filter you give the end user the right to change the Filter added to the sheet and do the analysis accordingly.

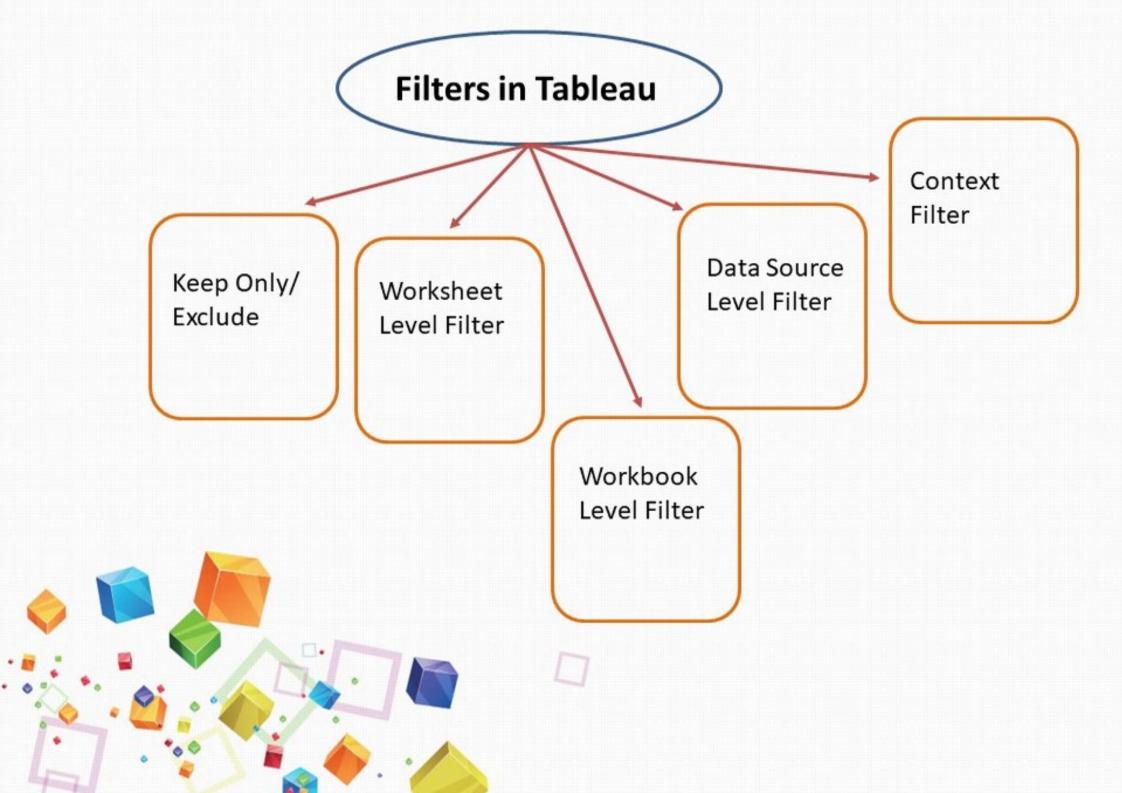


Select data to filter in the view Drag fields to the Filters shelf

Turn on Show Filters

Methods to add Filter



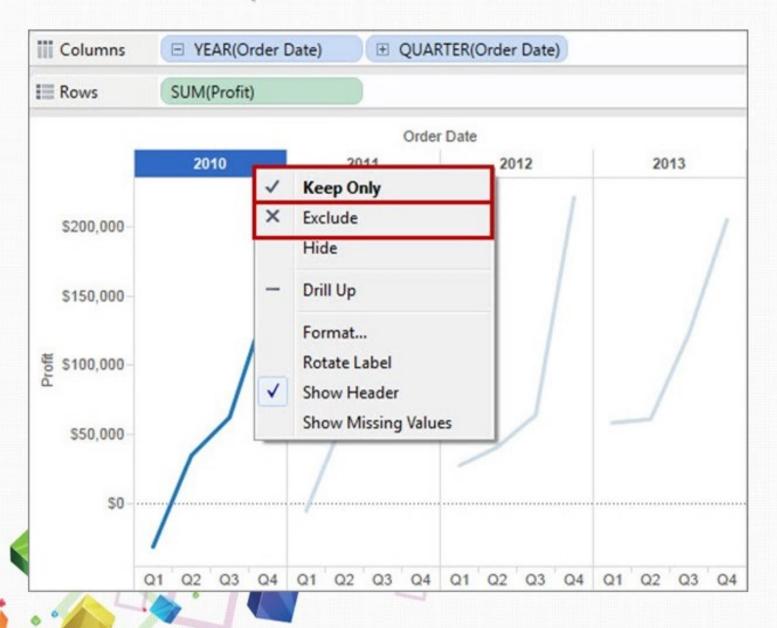


Select data to filter

- You can filter data by selecting headers or marks in the view and then selecting **Keep Only** or **Exclude**.
- The dimension members are removed from the view and the filtered fields are added to the Filters shelf.



Select data to filter

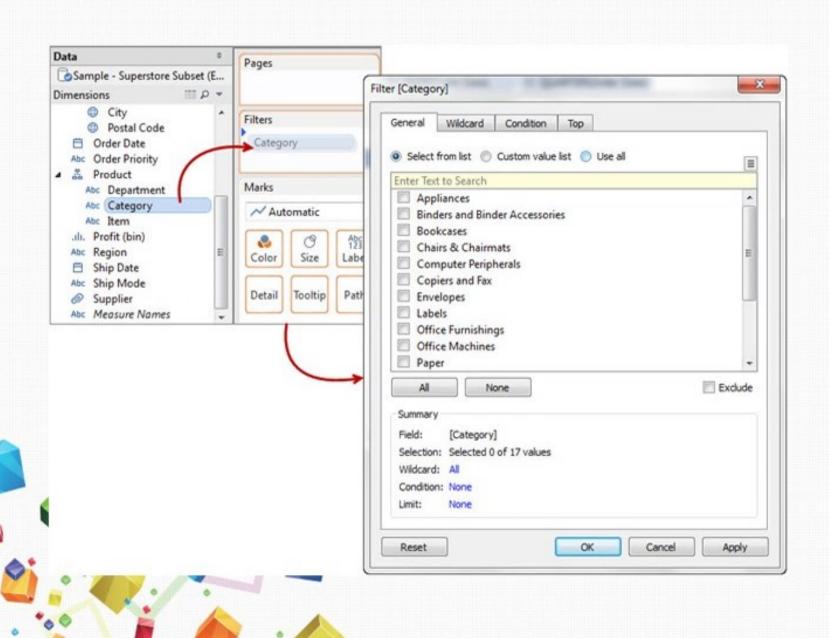


Drag fields to filter shelf

 Another way to create a filter is to drag a field directly to the Filters shelf. When you add a field to the Filters shelf, the Filter dialog box opens so you can define the filter. The Filter dialog box differs depending on whether you are filtering a dimension, measure, or date field.



Drag a Dimension to filter shelf

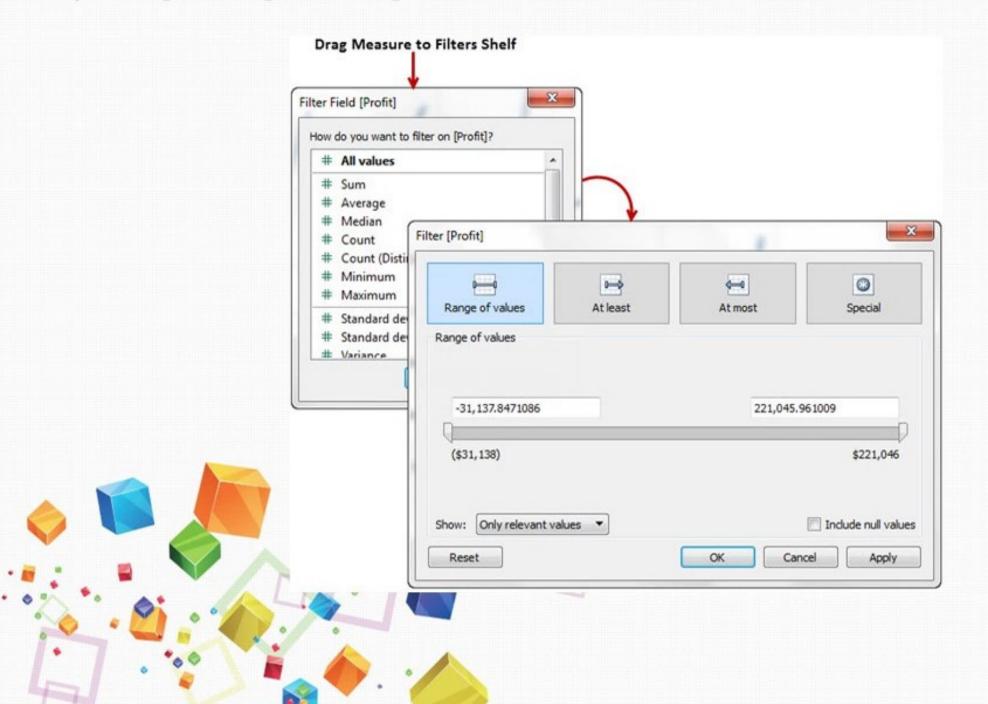


Ways in which you can add a Dimension filter

- General This is a manual selection of the dimension members from the list as per the data.
- Wildcard This helps to filter the dimensions on the basis of alphabets/ words in the name.
- Condition This allows the filtering on the basis of a measure field condition or a formula. Remember, if you are writing a formula then you have to write a one liner formula only. No If cases have to be written here.
- Top You can filter your best/ worst performing dimension here.
 You can use a field or a formula option here.



Filter measures



Ways in which you can add a Measure filter

While adding a measure filter, we first have to select the aggregation of the measure.

- Range of Values We have to specify both the start and an end range of the measure for filtering.
- At Least We have to specify the starting value for the measure.
 Anything above a specific range.
- At Most We have to specify the end value for the measure.
 Anything below a specific range.
- Special Values Here we can filter null, non null and all the values from a measure.



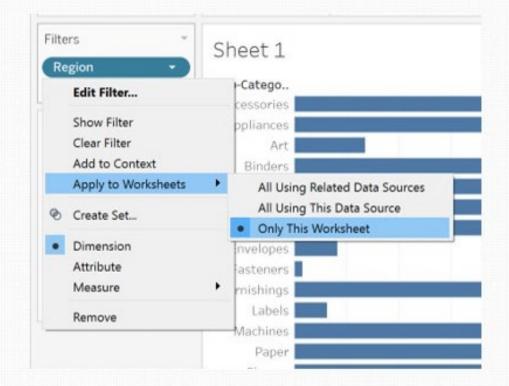
List of various show filters and their use

Filter name	Purpose
Single Value(List)	Select one value at a time in a list.
Single Value(Dropdown)	Select a single value in a drop-down list.
Multiple Values(List)	Select one or more values in a list.
Multiple Values(Dropdown)	Select one or more values in a drop- down list.
Multiple Values(Custom List)	Search and select one or more values.
Single Value (Slider)	Drag a horizontal slider to select a single value.
Wildcard Match	Select values containing the specified characters.

Applying a filter

Once a filter is added to a sheet, it can be applied in the following ways in tableau:

- All using Related Data Sources –
 If you are working on a blended relationship and you want this filter to be applied to the other data source as well
- All Using this Data Source this filter will apply to all the new and the pre created sheets in this particular workbook
- Only this worksheet The filter
 will be only for this specific sheet.

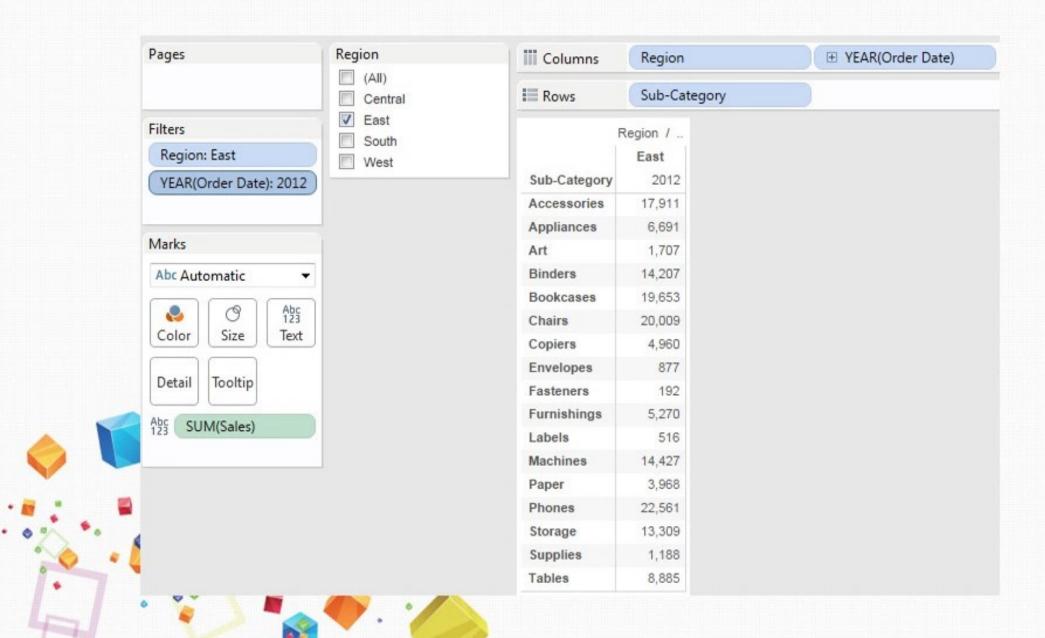


Important points to remember for Filters

- You can add multiple Filters to a particular sheet, a workbook and a Data source.
- Each Filter added will affect the performance at the server level.
- The Dimension filter & the Measure filter behave in a different manner when added to a sheet.
- The arrangement of the fields in the Filter shelf play an important role on the way the filtering on a sheet is being executed.
- Show Filter option helps the end user to interact with the Filters added.
- Any filter added at the sheet is carried to the dashboard and a Filter on one sheet can be applied to a single sheet or multiple sheets as

Filter-Hands On

Show the Sub- category sales of 2012 for the East region.



Data Source filter

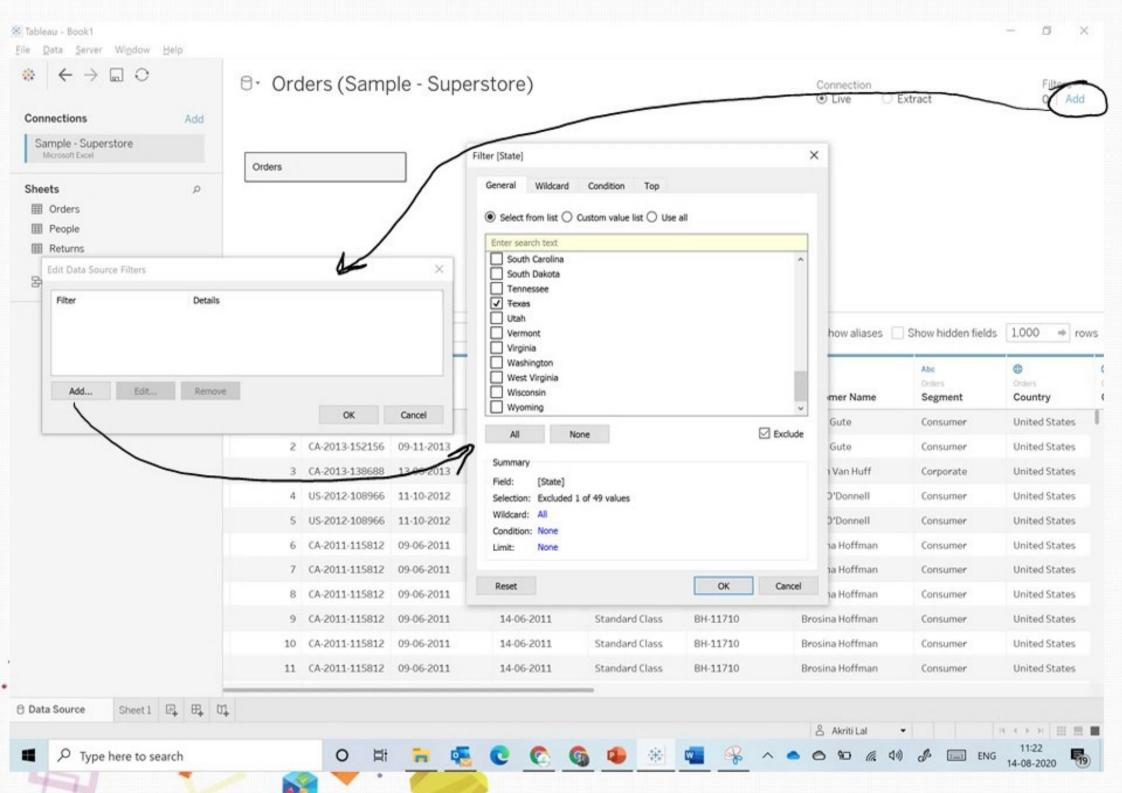
- Data Source filter is considered to be a bigger filter in Tableau.
- If you want to remove or keep a particular dimension or a range of numeric value or a date range from the entire analysis, you add a Data Source filter.
- When we add a Data Source Filter, the entire workbook is affected by this, which in turn effects the performance also.
- We don't have to worry about adding this kind of filter again and again at sheet level. Once it is added at the data source leve, it is consistent across the workbook.



How to add a Data Source filter

- Data Source Filter, as the name suggests, is added at the data source page.
- Go to the Data Source Page → Add button on the right → put the values or filtering.
- You can use a dimension, a measure and a date filter also here.
- You get an Option of Keep or Exclude here.





Context Filter

- By default, all filters that you set in Tableau are computed independently.
- You can set one or more categorical filters as context filters for the view.
- Context filter is an independent filter. Any other filters that you set are defined as dependent filters because they process only the data that passes through the context filter.

Why to create a context filter

You may create a context filter to:

- Improve performance If you set a lot of filters or have a large data source, the queries can be slow. You can set one or more context filters to improve performance.
- Create a dependent numerical or top N filter You can set a context filter to include only the data of interest, and then set a numerical or a top N filter.



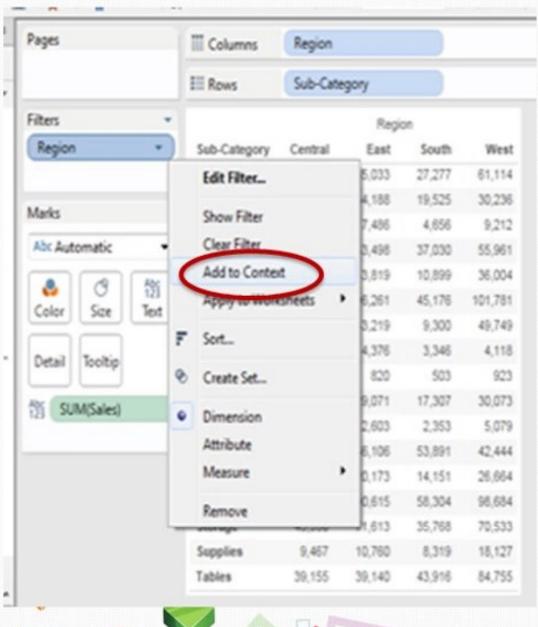
How to create Context filter

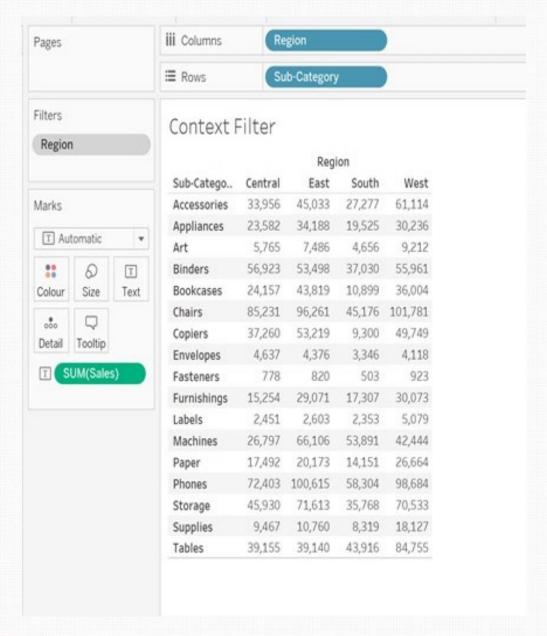
 To create a context filter, select Add to Context from the context menu of an existing categorical filter. The context is computed once to generate the view. All other filters are then computed relative to the context.

Context filters:

- Appear at the top of the Filters shelf.
- Are identified by a gray color on the Filters shelf.
- Cannot be rearranged on the shelf









Once a filter is added as a Context, it starts appearing in black colour on