

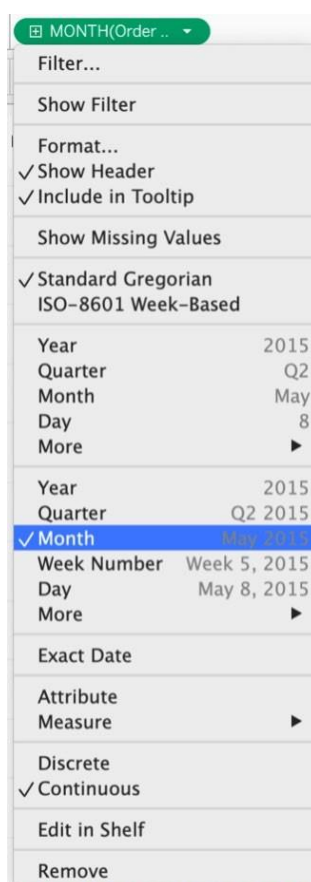


EXERCISE 09: Creating an Area Chart

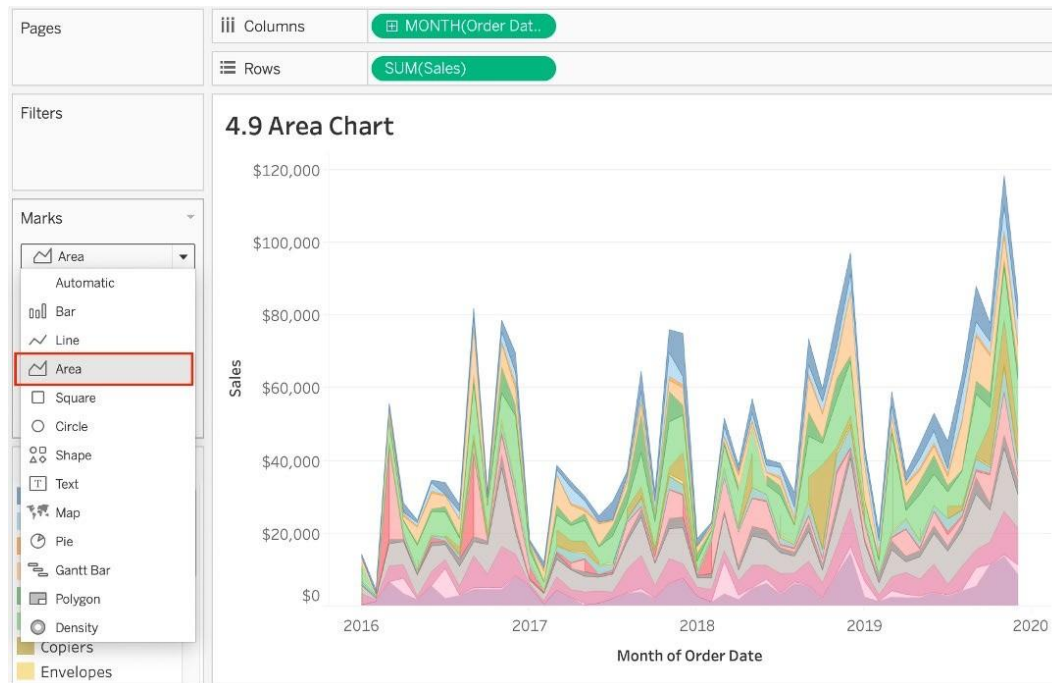
The director of financial operations reaches out to you, looking to understand how the sales for each sub-category trends across each month. The director wants to know whether they sell more in July or August. As an analyst, your job is to create a color-coded area chart showing sales by month of the year and how sales trend across the year. You will continue to utilize the **Superstore** dataset for this exercise. You will also explore continuous as well as discrete area charts in this exercise, utilizing **Order Date**, **Sub-Category**, and **Sales**.

Perform the following steps to complete the exercise:

- 1) Open the sample **Superstore** dataset if it's not already open in your Tableau instance.
- 2) Drag **Order Date** to the **Columns** shelf and change the granularity from year to month by clicking the arrow on the **Order Date** capsule and selecting continuous **Month** (you will first create a continuous stacked area chart).

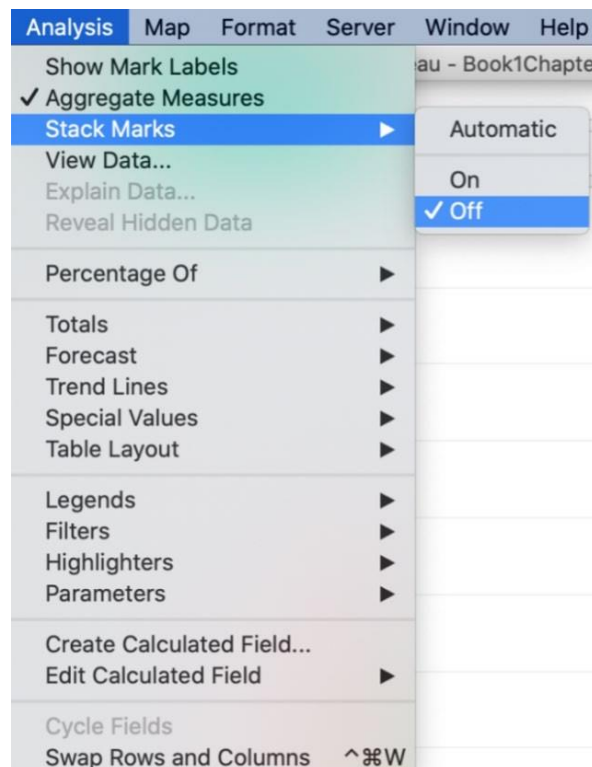


- 3) Drag **Sales** to the **Rows** shelf. As soon as you drop it onto the **Rows** shelf, a line chart is created.
- 4) Drag **Sub-Category** from data pane onto **Color Marks** card to and then change the **Marks** type from **Automatic** to **Area** using the dropdown:



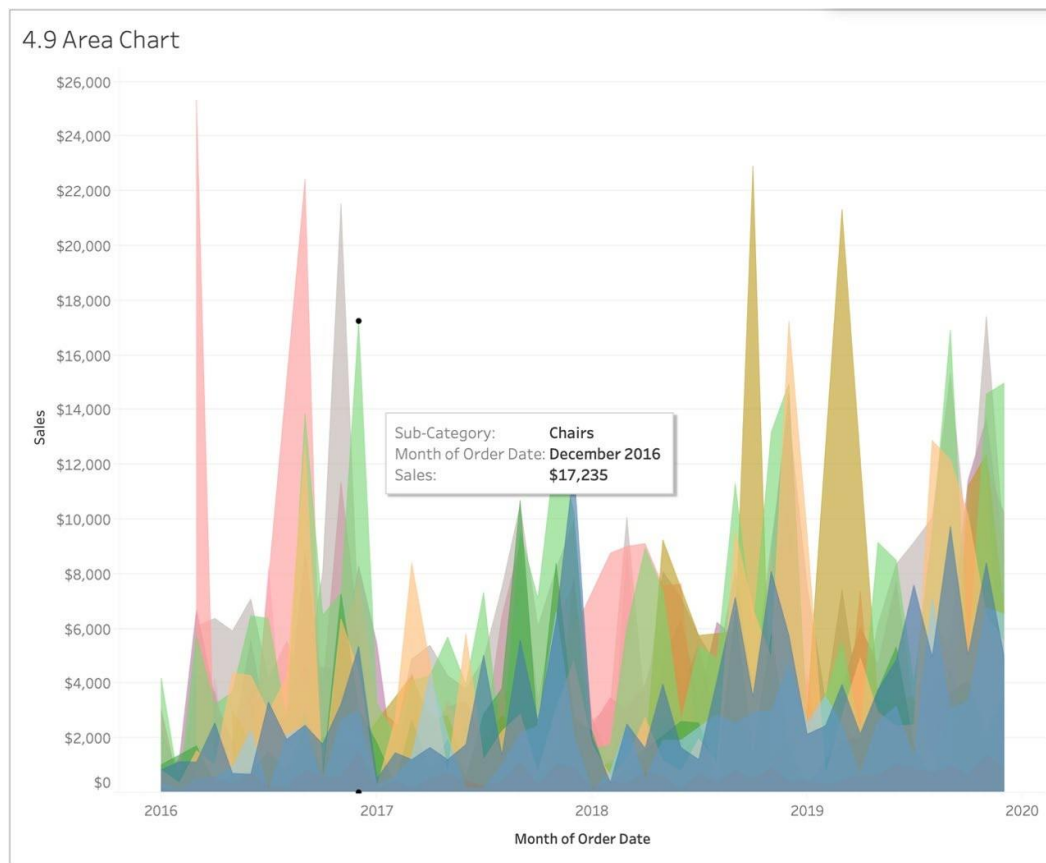
The preceding chart represents the continuous stacked area chart. If you don't want the areas to be stacked on top of each other, you can turn off stacking.

- 5) Navigate to **Analysis** in the menu and click on **Stack Marks** | **Off**. Similarly, you follow the same steps to turn the stack marks back on:





The only reason that someone would want to turn off **Stack Marks** in an area chart is if they want to look at individual trends for the dimension in question (in this case, Sub-Category). The limitation of an unstacked area chart is that it carries a risk of hidden data points because what the background area represents is not clear:



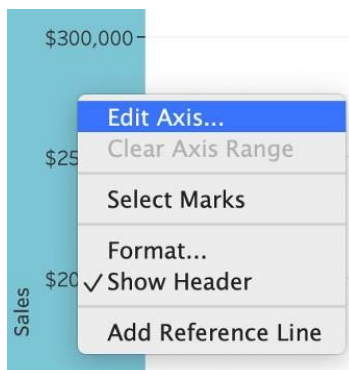


- 6) To change the area chart to be discrete, change the type of **Order Date** from **Continuous** to **Discrete**:



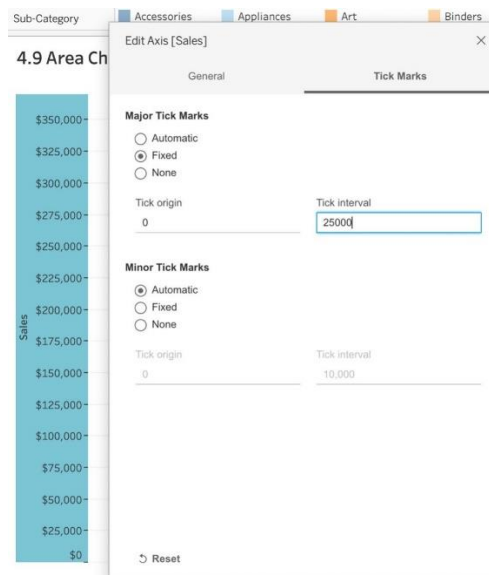
With discrete charts, instead of **Month** for each year, now you only show discrete months without considering the year in the view. The view is a less granular view compared to that of the continuous stacked area chart. You will change the axis tick marks from \$50,000 to \$25,000 increments.

- 7) To change the axis tick marks, right-click on the **Sales** axis and click on **Edit Axis....**

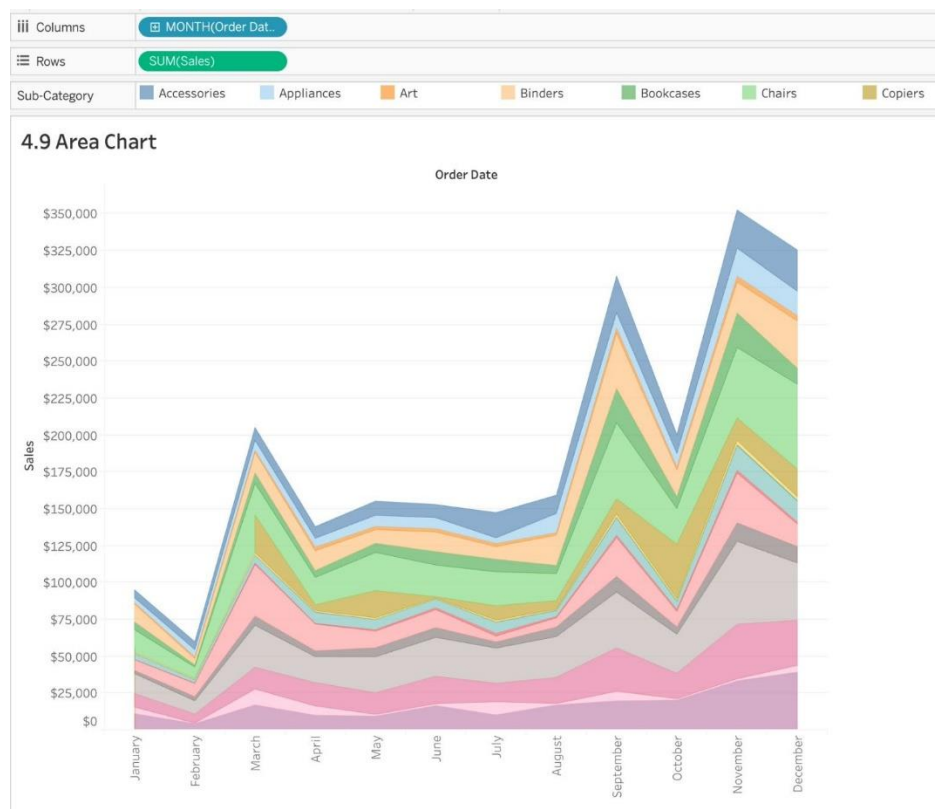




- 8) In **Edit Axis [Sales]**, click on **Tick Marks** (this may be **Major Tick Marks** in later versions) and select **Fixed**, then set **Tick interval** to **25000**, as shown here:



The final output is as follows:



In the preceding screenshot, each of the sub-categories is stacked on top of each other, while the sales trends are shown across months. From the given chart, you can easily make out that November is the highest-grossing month for the **Superstore** dataset.