

A Stacked Area Chart and a Histogram.

Sleeper Ch. 27, 28

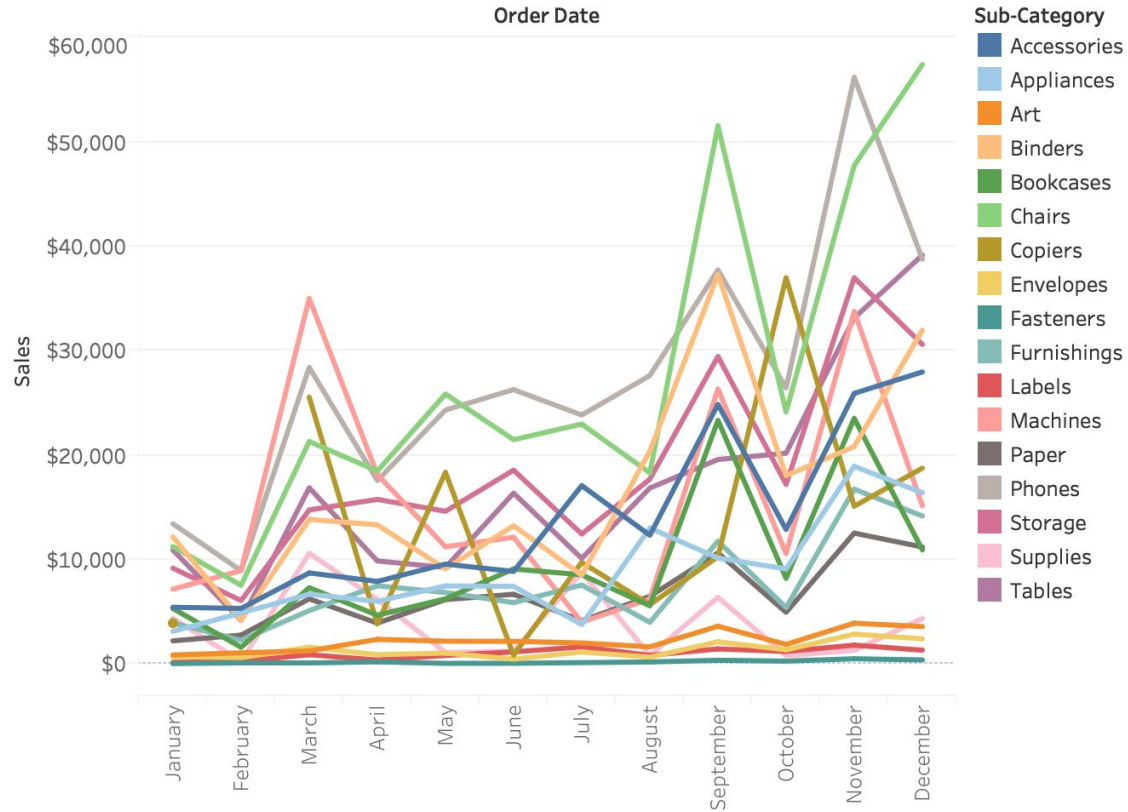
A stacked area chart “stacks” trends on top of each other to illustrate how a part-to-whole distribution changes over time.

How to create a Stacked Area Chart.

Start by creating a line chart:

- Columns: Month(Order Date)
- Rows: Sum(Sales)
- Color Marks Card: Sub-Category

A Line Chart



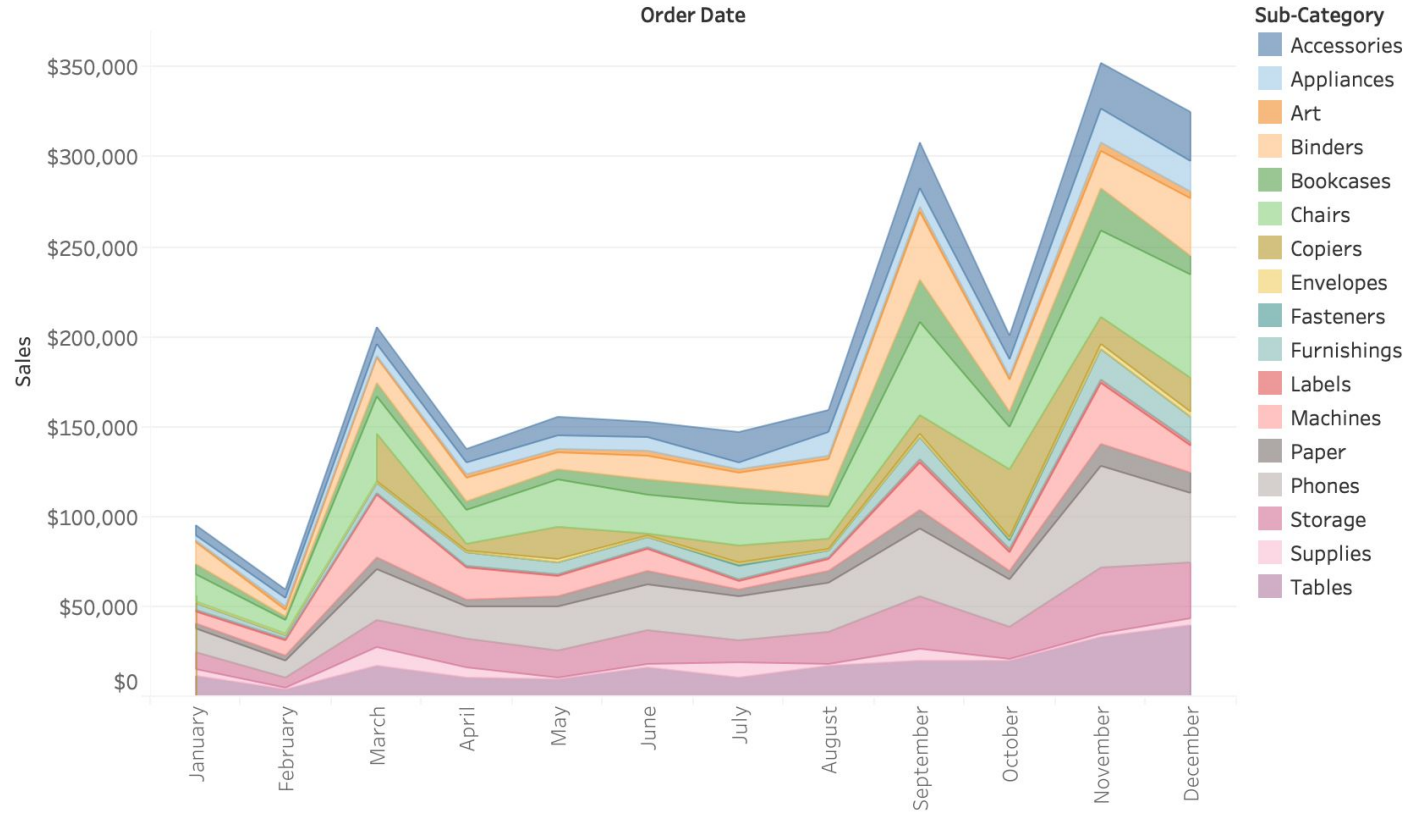
The trend of sum of Sales for Order Date Month. Color shows details about Sub-Category.

How to create a Stacked Area Chart (Cont).

Change the Marks Type from Automatic to **Area**.

It's alot easier to see Monthly Totals with the Stacked Area Chart rather than individual sub-category contributions of a line chart.

Stacked Area Chart

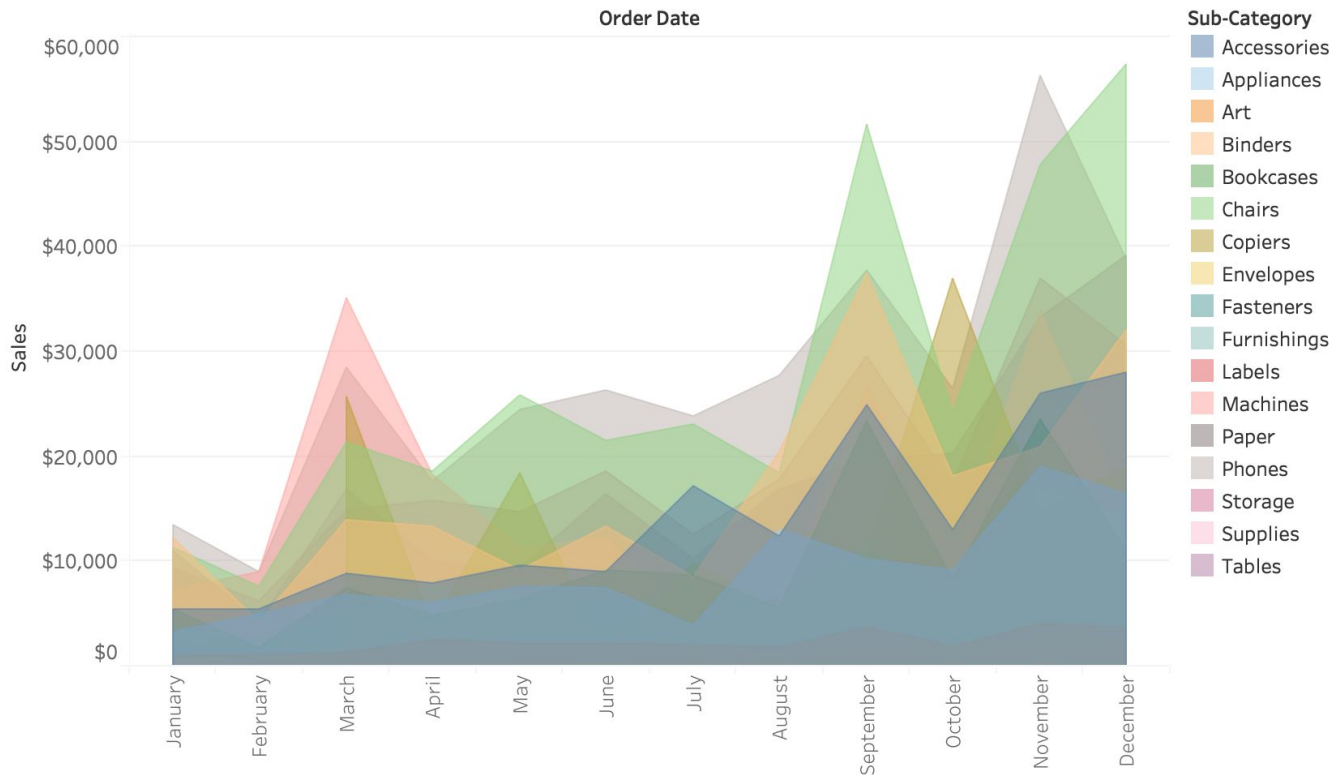


Sum of Sales for each Order Date Month. Color shows details about Sub-Category.

An Area Chart - Not Stacked

You can turn off the stacks of the area chart by navigating **Analysis > Stack Marks > Off**

An Area Chart - Not Stacked



Sum of Sales for each Order Date Month. Color shows details about Sub-Category.

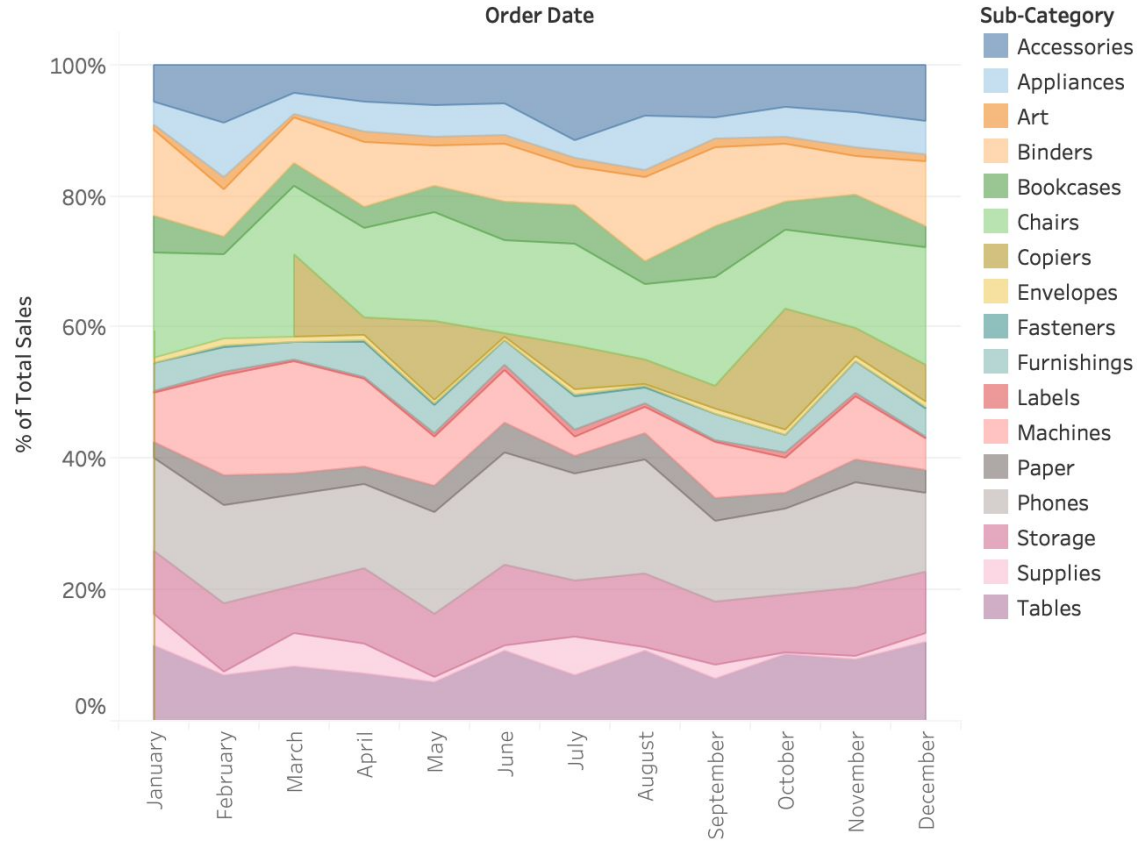
A Better Area Chart.

Rather than showing the raw Revenue numbers, we are going to show the percent of total:

Right-click **Sum(Sales)** > **Quick Table Calculation** > **Percent of Total**

Right-click **Sum(Sales)** > **Compute Using** > **Table (down)**

Better Stacked Area Chart



% of Total Sales for each Order Date Month. Color shows details about Sub-Category.

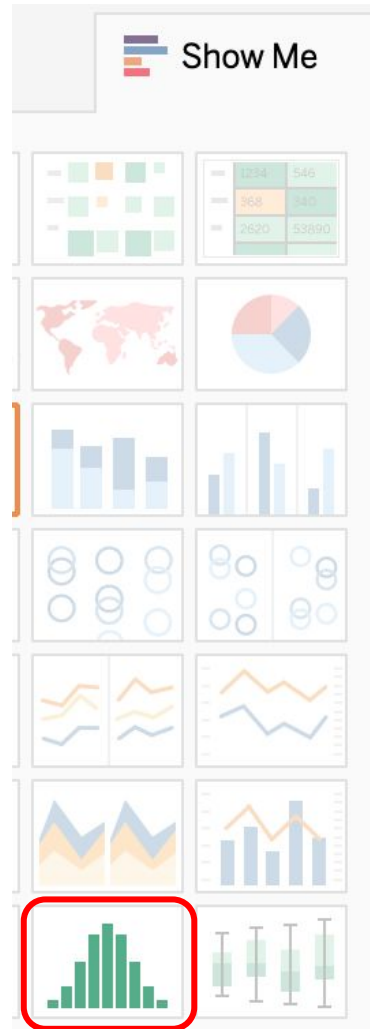
Histograms are one of the most effective chart types for showing a **distribution** of quantitative data at one point in time.

How to create a Histogram.

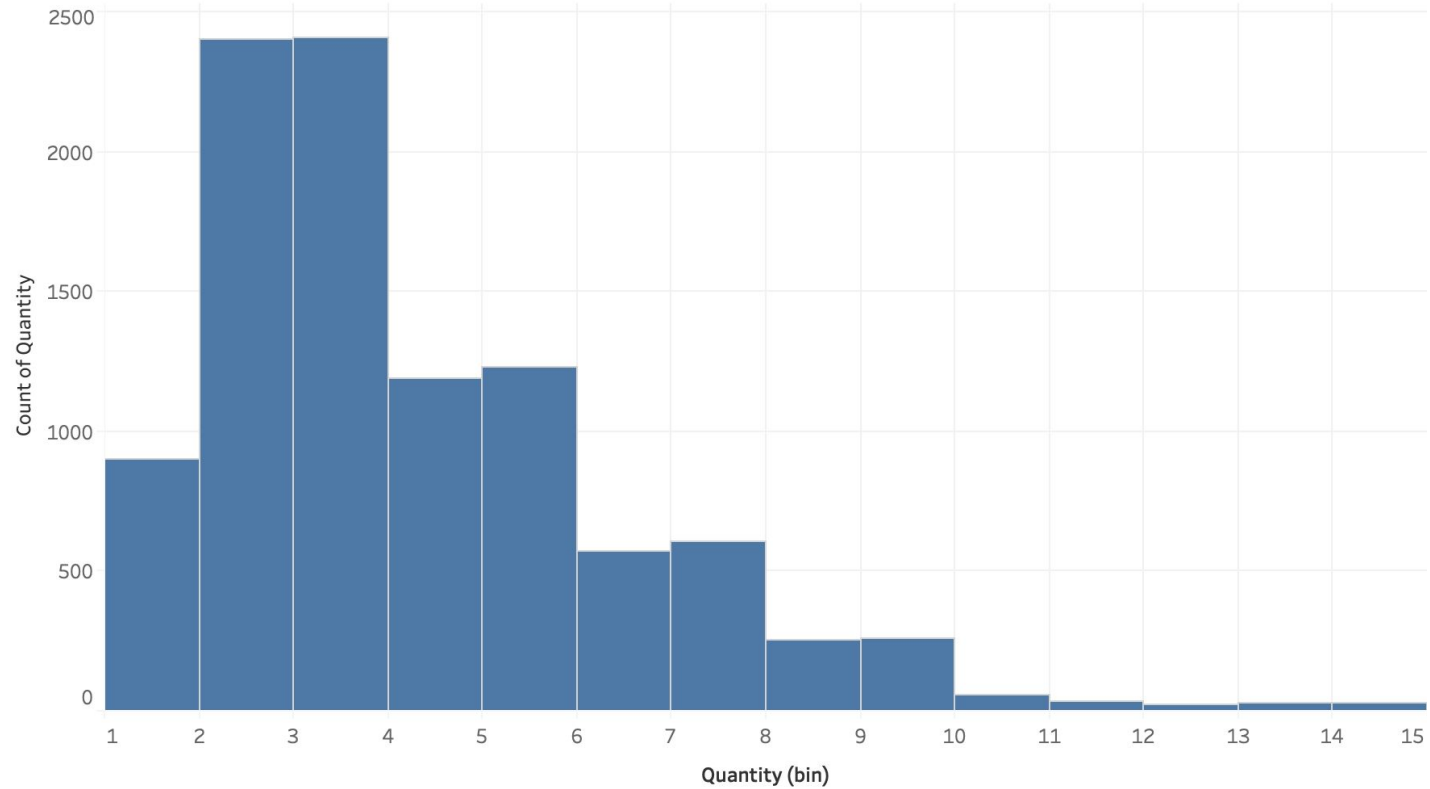
1. Select the **Quantity** measure.
2. Click on **Show Me** tab > Click on **Histogram**

Change the **Size of bins** from 1.77 to 1 by right-clicking the newly created **Quantity(bin)** dimension on the Dimensions pane > **Edit...**

Change the x-axis range from 1 to 15 by selecting x-axis > **Edit Axis** > **Range: Fixed; Fixed start: 1; Fixed end: 15**



A Histogram



The trend of count of Quantity for Quantity (bin).