A Box-and-Whisker Plot
and
A Symbol Map w MapBox Integration.

Sleeper Ch. 29, 30

A box plot, is another effective visualization choice for illustrating distributions. It can tell you about your **outliers** and what their values are. It can also tell you if your data is **symmetrical**, how **tightly** your data is **grouped**, and if and how your data is **skewed**.

Start by creating a bar chart:

- Columns: Sub-Category
- Rows: Sum(Sales)

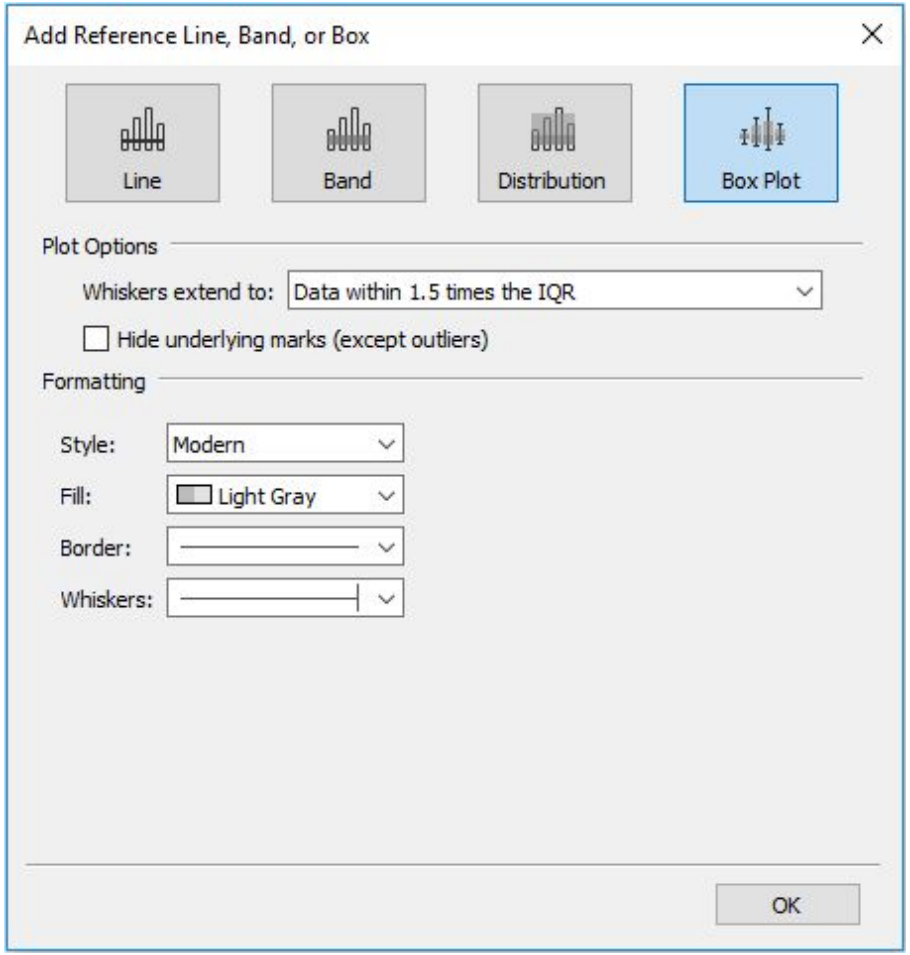
Add your distribution of choice to the Detail Marks Card - the result is a stacked bar chart.

- Detail Marks Card: Month(Order Date)

Create a dot plot:

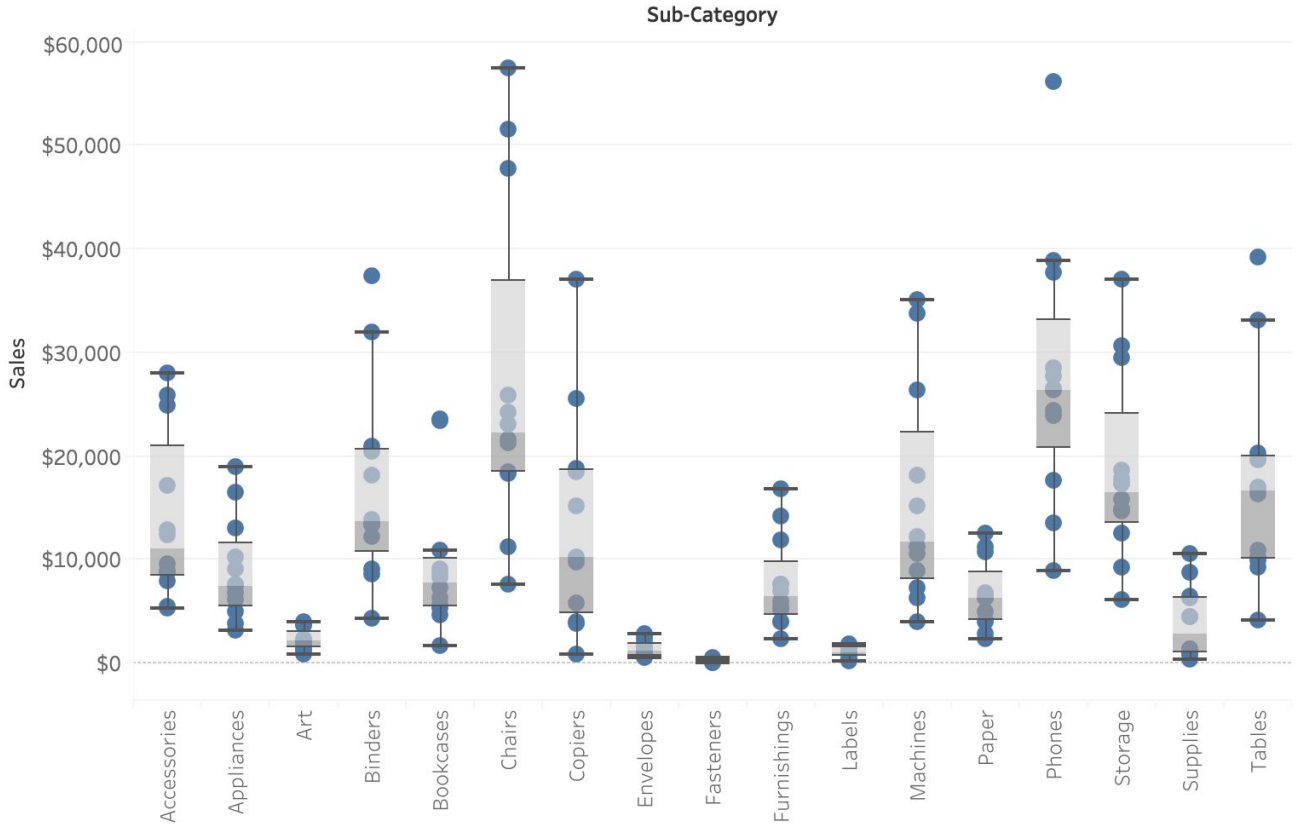
- Marks Card Type: Circle

Right-click y-axis > **Add Reference Line** > **Box Plot** - accept the defaults (see screenshot on the next page)



https://learning.oreilly.com/library/view/practical-tableau/9781491977309/ch29.html

A Box-and-Whisker Plot



Sum of Sales for each Sub-Category. Details are shown for Order Date Month.

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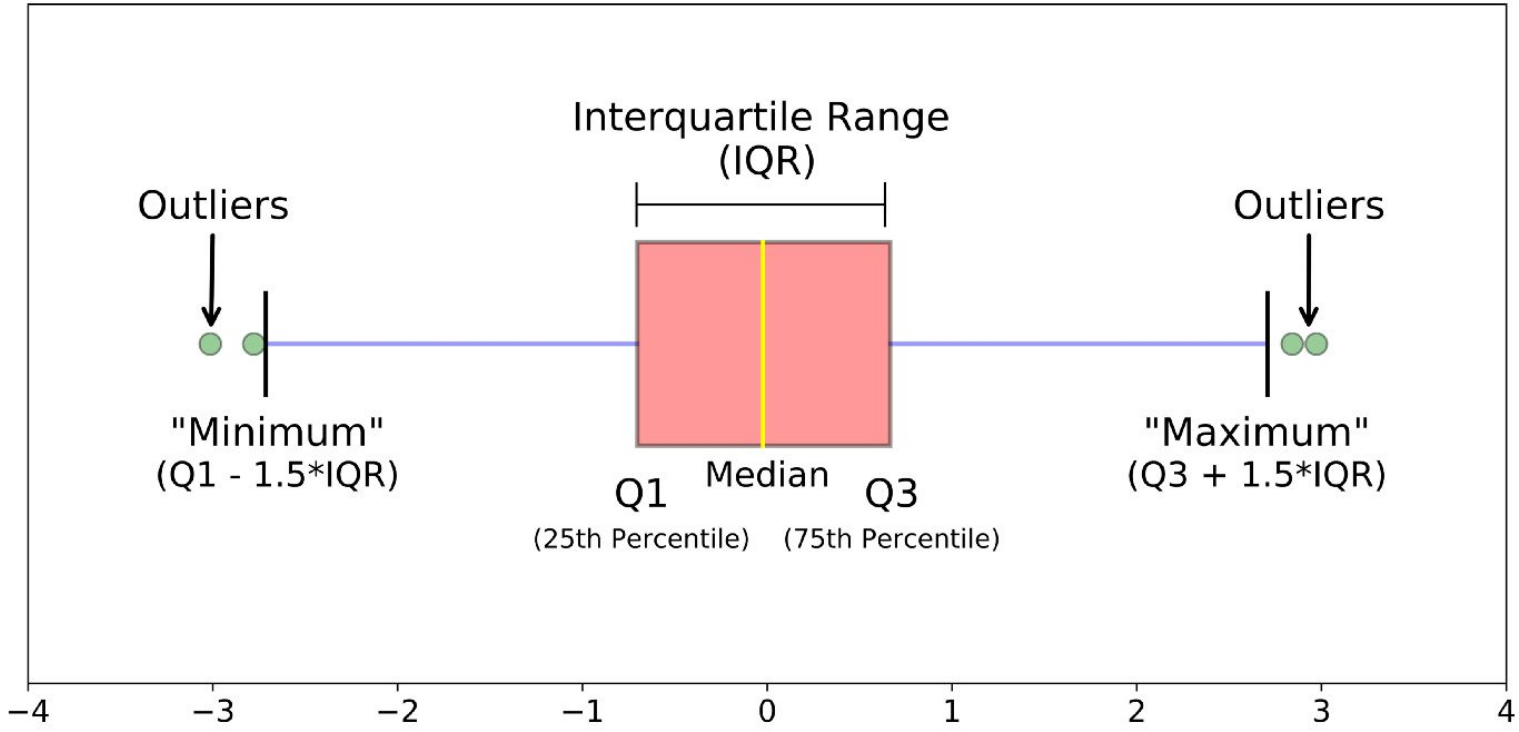
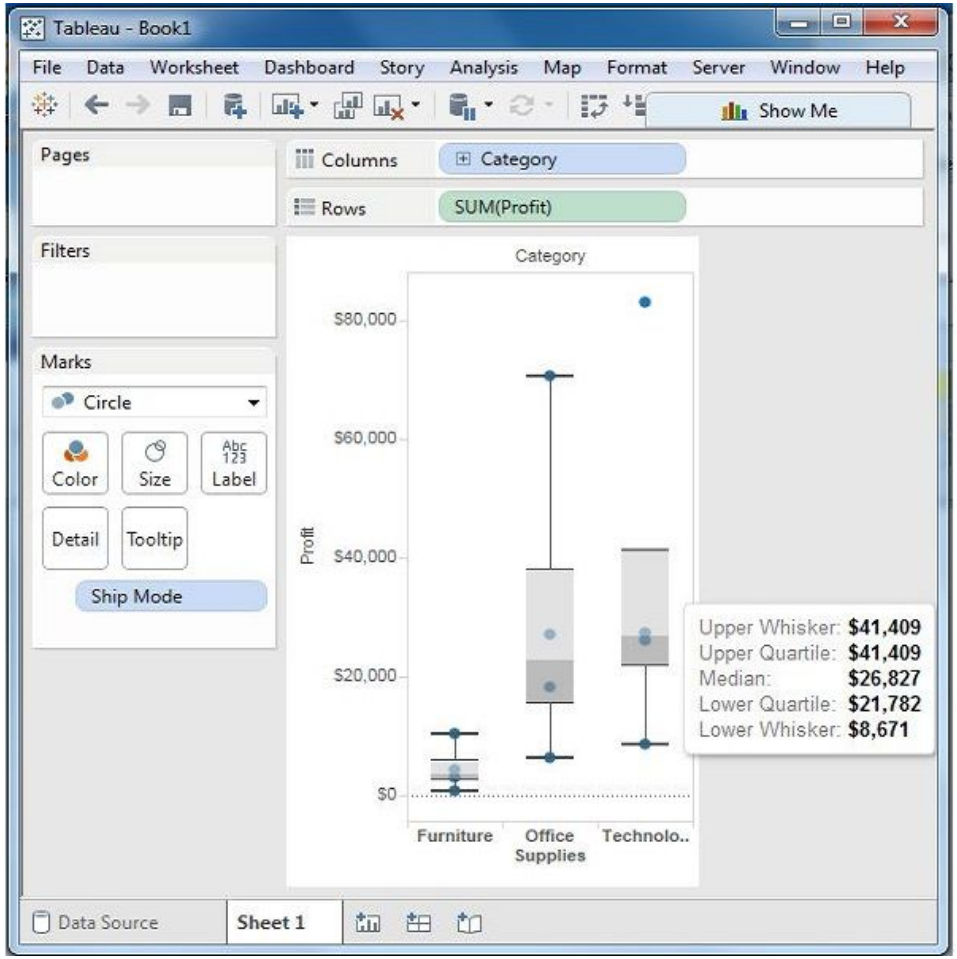
Understanding Boxplots

https://en.wikipedia.org/wiki/Interquartile_range





https://www.tutorialspoint.com/tableau/tableau_box_plot.htm

Symbol Maps are simply maps that have a mark displayed over a given Longitude and Latitude.

How to create a Symbol Map

Tableau recognizes your geographic fields as map-compatible if there is a globe icon next to the dimension.

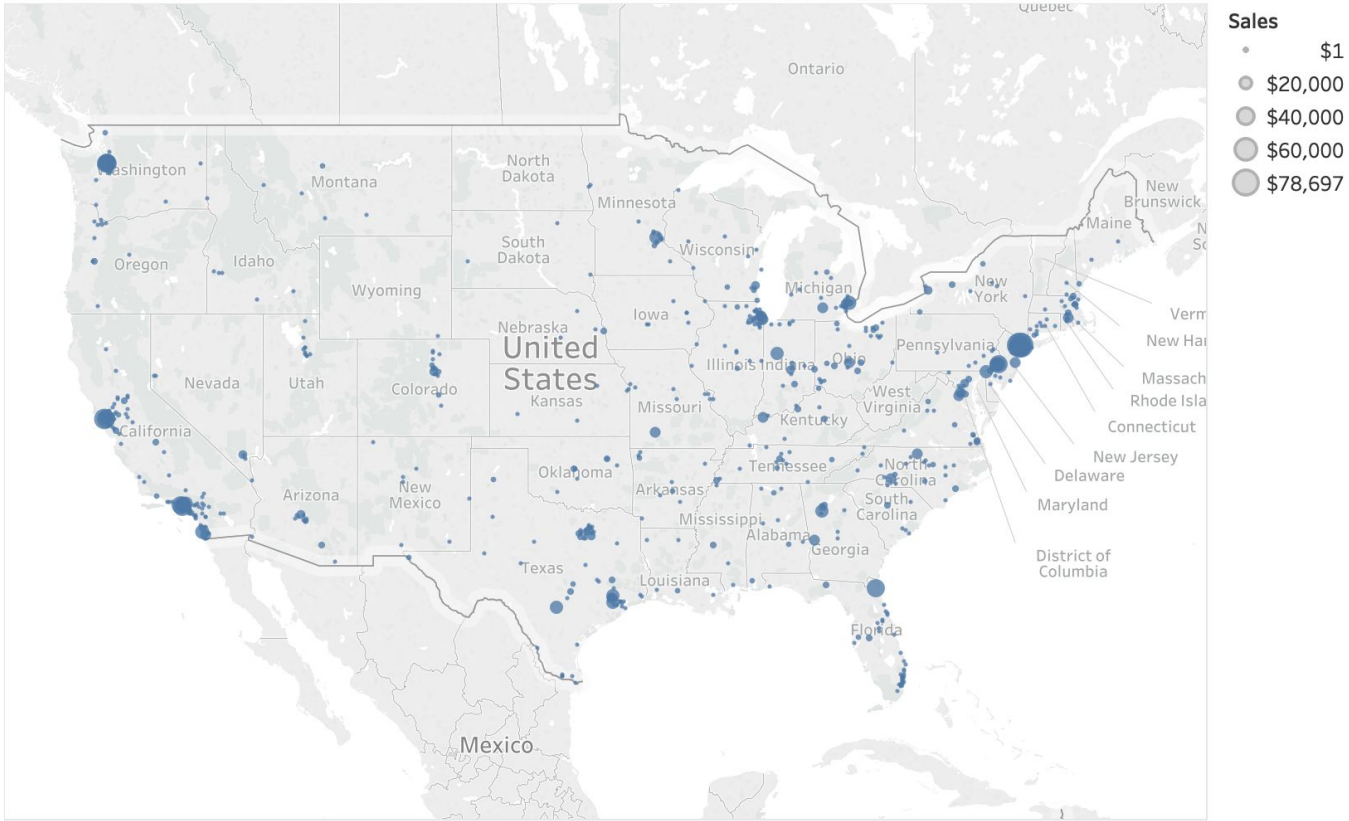
Double click on the **Postal Code** to create a map.

Size Marks Card: Sum(Sales)

Explore other shapes by choosing **Card Marks Type**: **Shape** > **Shape Marks Card**

Explore additional data layers at **Map** > **Map Layers** > **Data Layer**

A Symbol Map



Map based on Longitude (generated) and Latitude (generated). Size shows sum of Sales. Details are shown for Country and Postal Code.

https://learning.oreilly.com/library/view/practical-tableau/9781491977309/ch30.html

Mapbox is an American provider of **custom online maps** for websites and applications such as *Foursquare, Lonely Planet, the Financial Times, The Weather Channel, Instacart Inc. and Snapchat*.

Founded: **2010.** Headquarters: **San Francisco, CA**

Marketing Video

Introduction to Mapbox Studio Video

Mapbox on Wikipedia

Tableau / Mapbox Integration

Mapbox Documentation:

How to Use Custom Mapbox Styles in Tableau

How to Create a Custom Style in Mapbox

Assign a geographic role to a field in Tableau

In order **to create a map view,** assign a geographic role to a field in Tableau.

A geographic role associates each value in a field with a latitude and longitude value. When you assign a geographic role to a field, Tableau assigns **latitude** and **longitude** values **to each location in your data** based on data that is already built in to the Tableau map server.