

# **A Box-and-Whisker Plot and A Symbol Map**

**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**.

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Start by creating a bar chart:

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

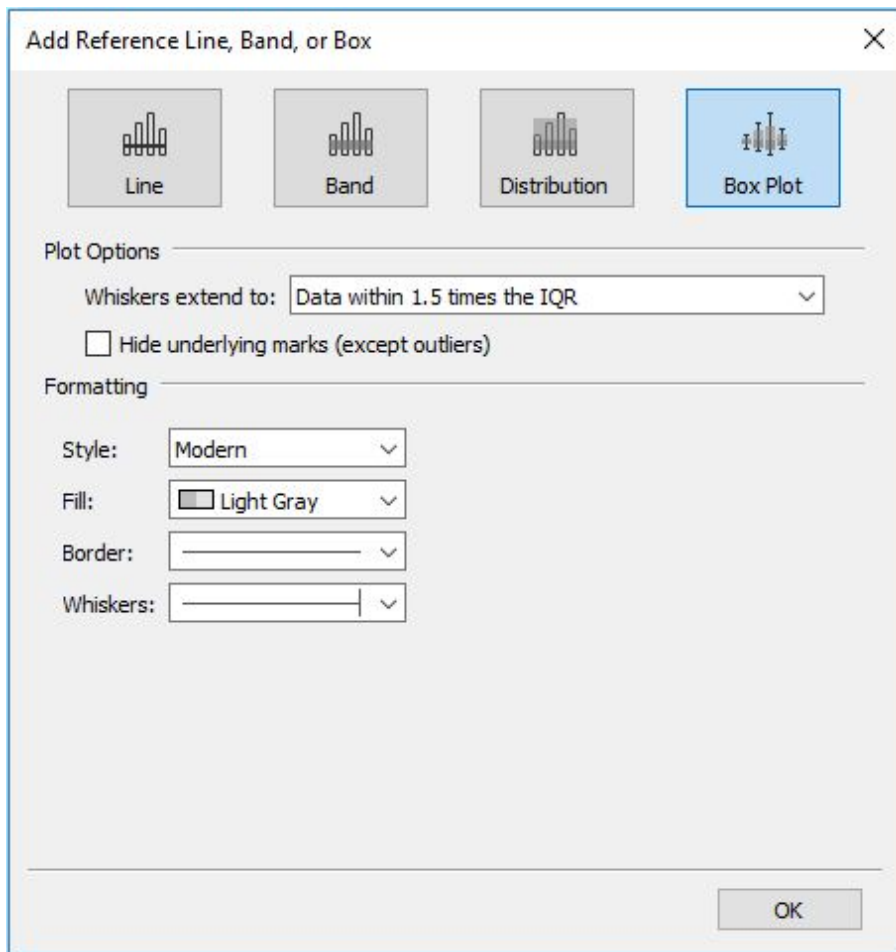
Add your distribution of choice to the Detail Marks Card - the result is a stacked bar chart.

- Detail Marks Card: Month(Order Date)

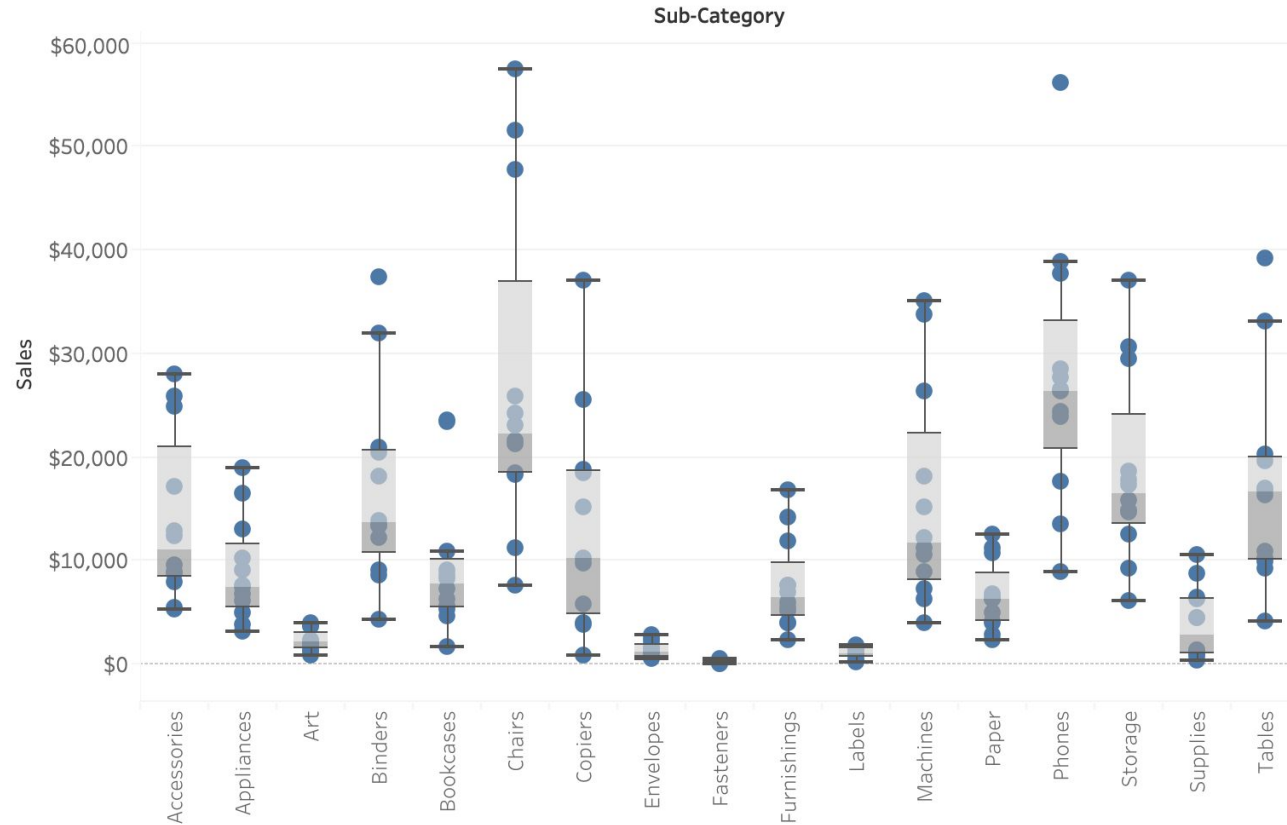
Create a dot plot:

- Marks Card Type: Circle

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



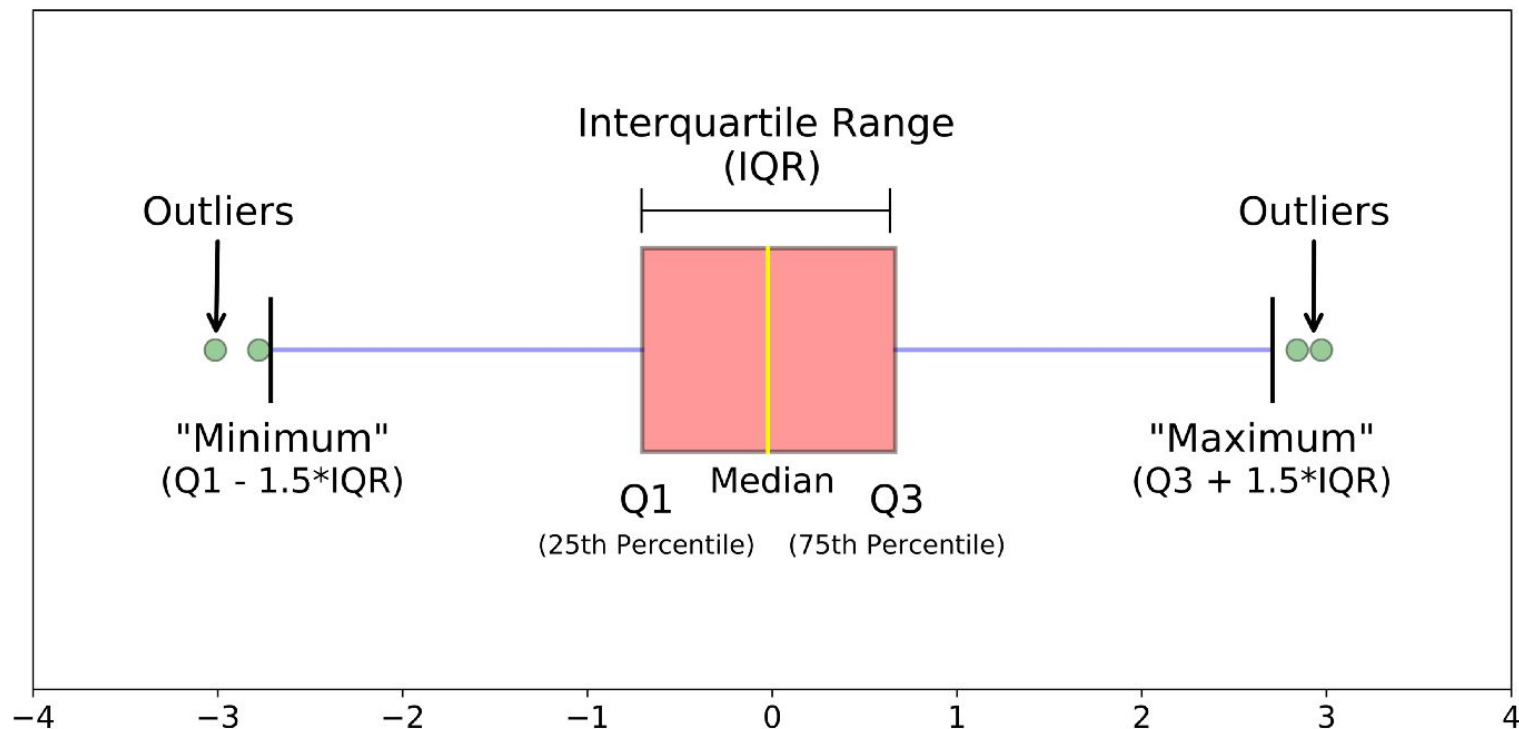
## A Box-and-Whisker Plot

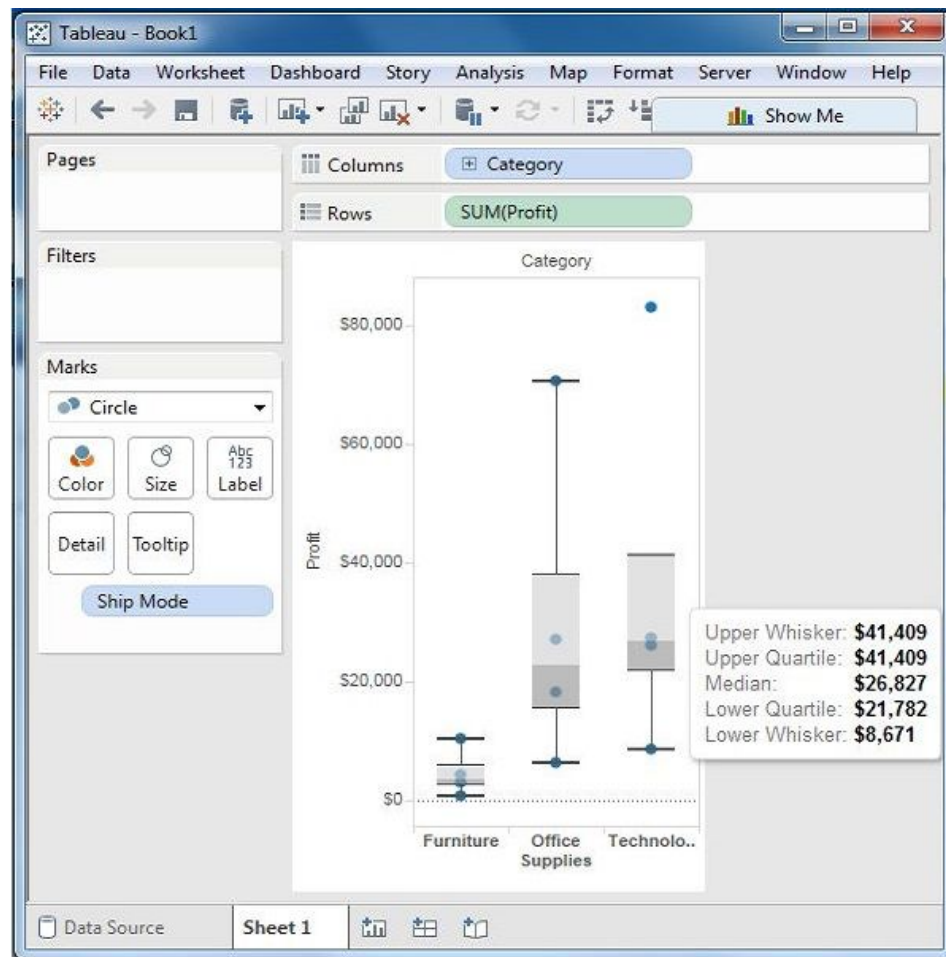


Sum of Sales for each Sub-Category. Details are shown for Order Date Month.

# Understanding Boxplots

<https://towardsdatascience.com/understanding-boxplots-5e2df7bcbd51>





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

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# How to create a Symbol Map

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

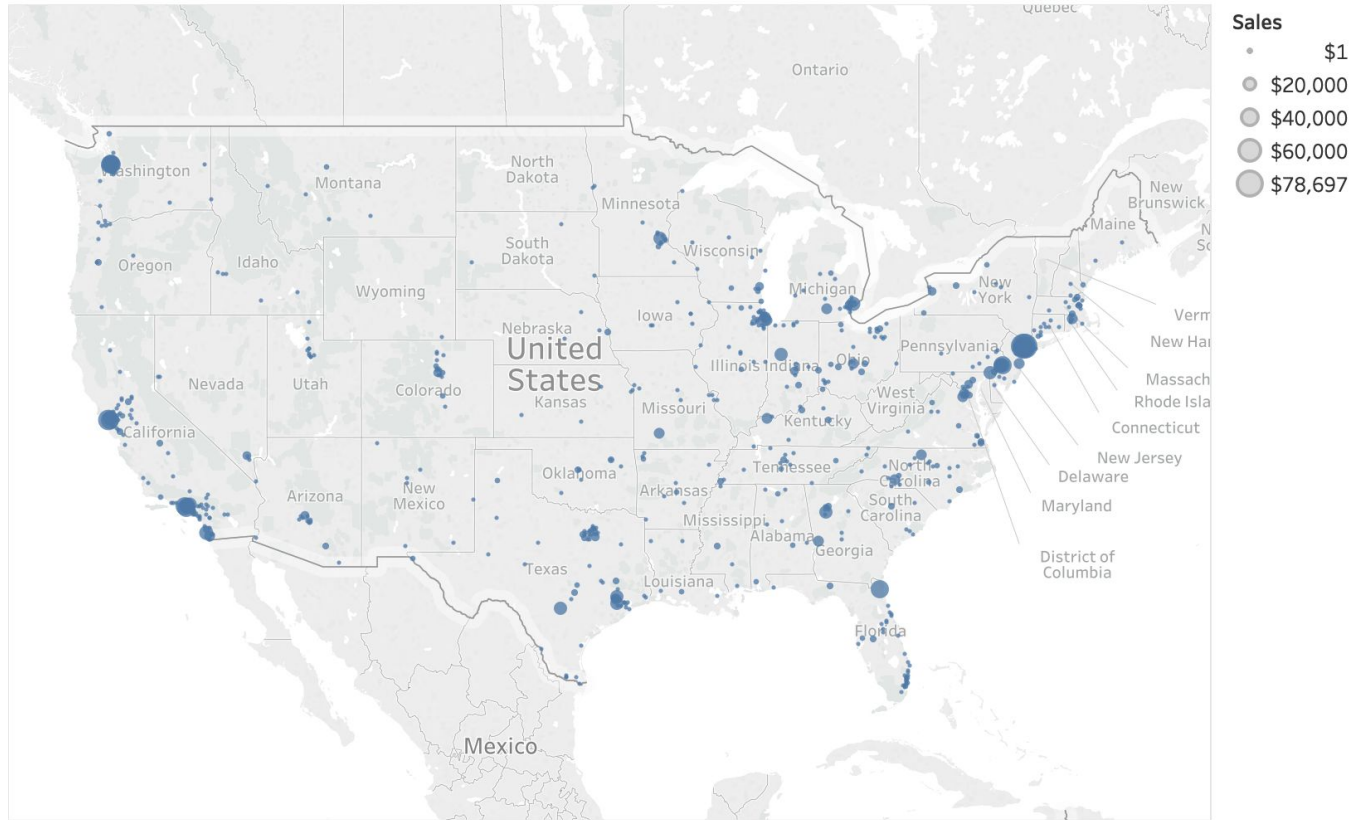
Double click on the **Postal Code** to create a map.

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.

# Additional resources

Assign geographic roles to a field:

[https://help.tableau.com/current/pro/desktop/en-us/maps\\_geographicroles.htm](https://help.tableau.com/current/pro/desktop/en-us/maps_geographicroles.htm)