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# A comprehensive cheat sheet on Tableau Charts: A Road to Tableau Desktop Specialist Certification

May 23, 2022



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Chapter 12: A complete cheat sheet and description of Tableau charts with free Udemy Tableau Dumps

# A comprehensive cheat-sheet on Tableau Charts: A Road to Tableau Desktop Specialist Certification

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Welcome to the twelfth chapter, In this piece, we are going to learn about different charts in Tableau.

If you want to navigate through other chapters, visit: [Tableau: What it is? Why it is the best?; A road to Tableau Desktop Specialist Certification.](#)

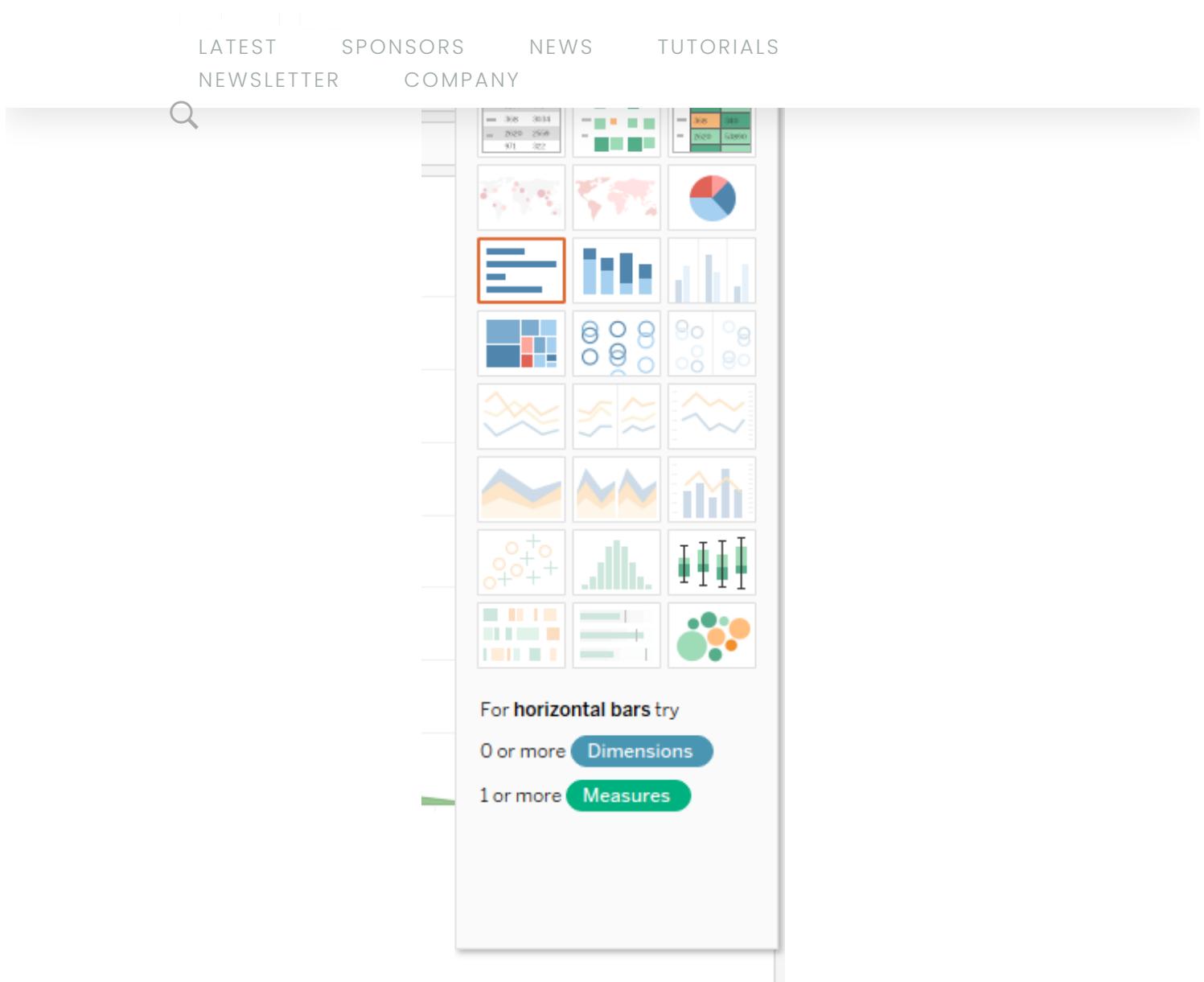
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The main goal of Tableau is to create interactive visualizations. The tools make creating charts/graphs extremely convenient with just drag-and-drop functionality, no coding needed, and no errors.

The “Show Me” pane is extremely useful, especially for neophytes. It suggests all the valid charts for the data points we selected. The highlighted ones are the charts we can create and the shaded ones are the charts that aren’t valid for selected data points.



Show Me pane includes a total of 24 charts, we gonna discuss a few of them, their use-cases, and their minimum requirements.

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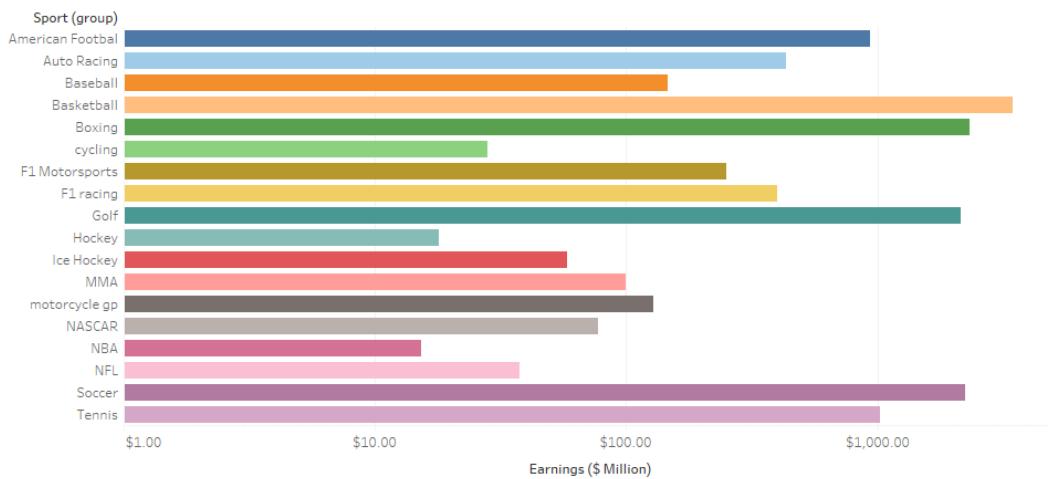
## Bar Chart

A Bar chart is the most effective and easiest way to visualize data in Tableau.

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## Horizontal Bar Chart

Horizontal Bar Chart



This is one of the most used charts in Tableau as it makes data ingestion and visualization as easy as possible. The chart clearly depicts the difference between various categories and hence is popular amongst data folks.

Minimum Requirements:

0 or more Dimensions, 1 or more Measures

## Stacked Bar Chart

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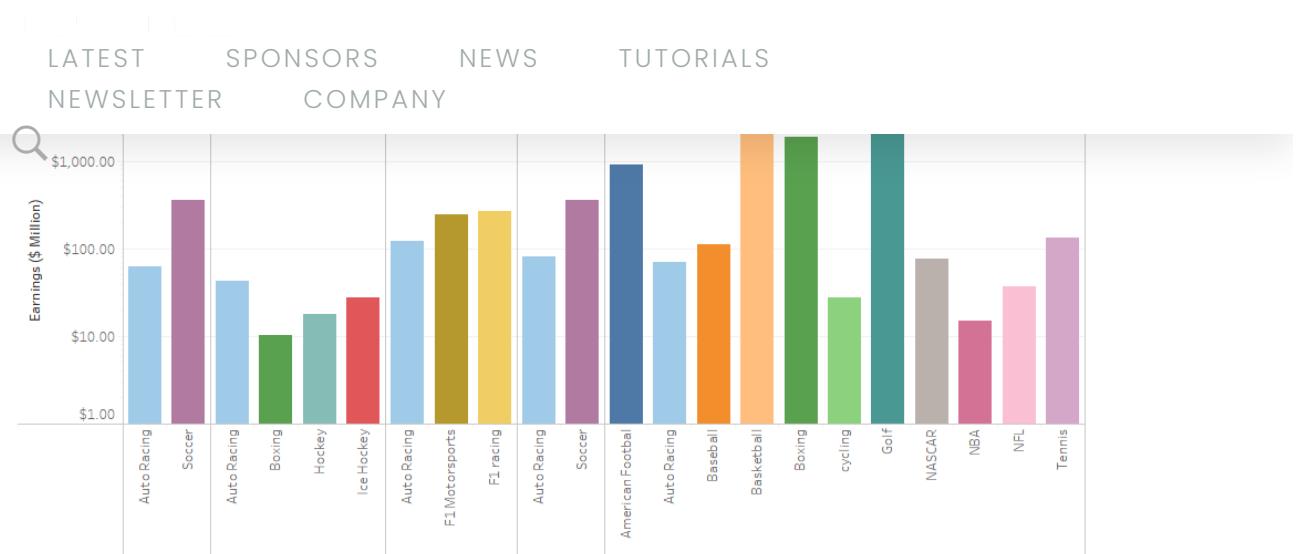


Stacked Bar Charts are an extended version of Horizontal Bar Charts. The motive is the same i.e. to show the difference between categories. But, Stacked Bar Charts are used when we want to further show the difference between sub-categories in categorical data. This increases the level of details in our viz.

Minimum Requirements:

1 or more Dimensions, 1 or more Measures

## Side-by-Side Bar Chart



These are similar to stacked bar charts, the only difference is rather than categories being stacked over each other, the categories are spread like a nested bar chart i.e. bar chart in a bar chart. This makes the view even cleaner and easy to visualize.

Minimum Requirements:

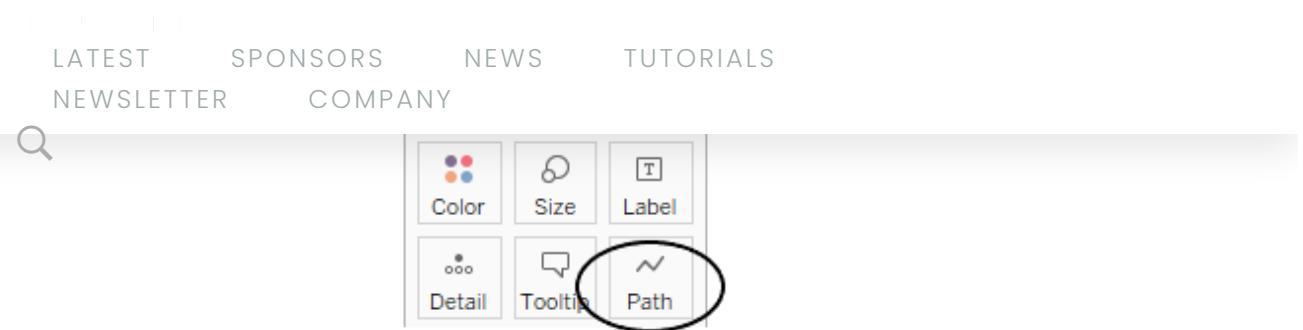
1 or more Dimensions, 1 or more Measures

(Requires at least 3 fields)

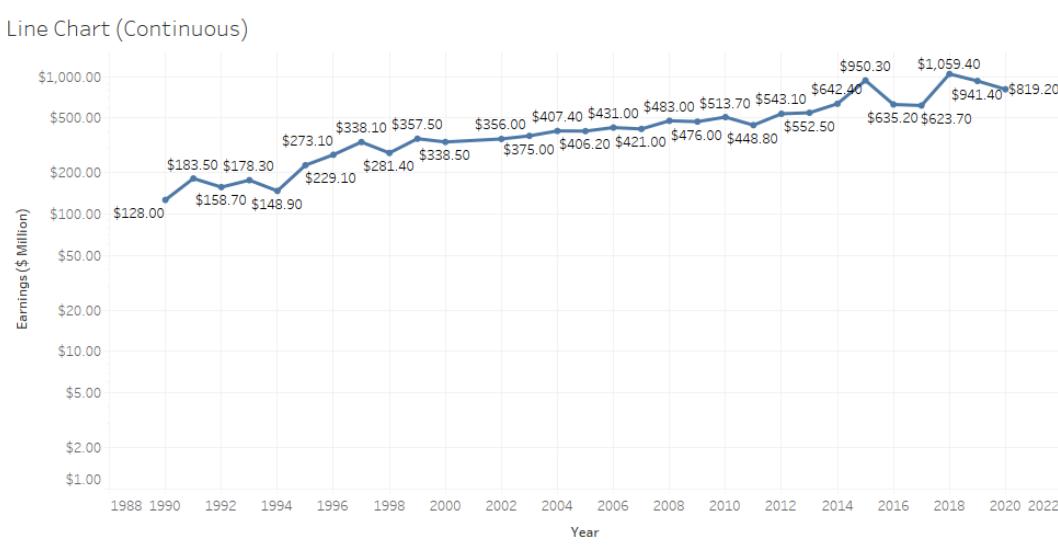
## Line Chart

The line chart could be Continuous, Discrete, or Dual.

**When we create a Line chart, we get the “Path” option in our marks card.**



## Continuous Line Chart



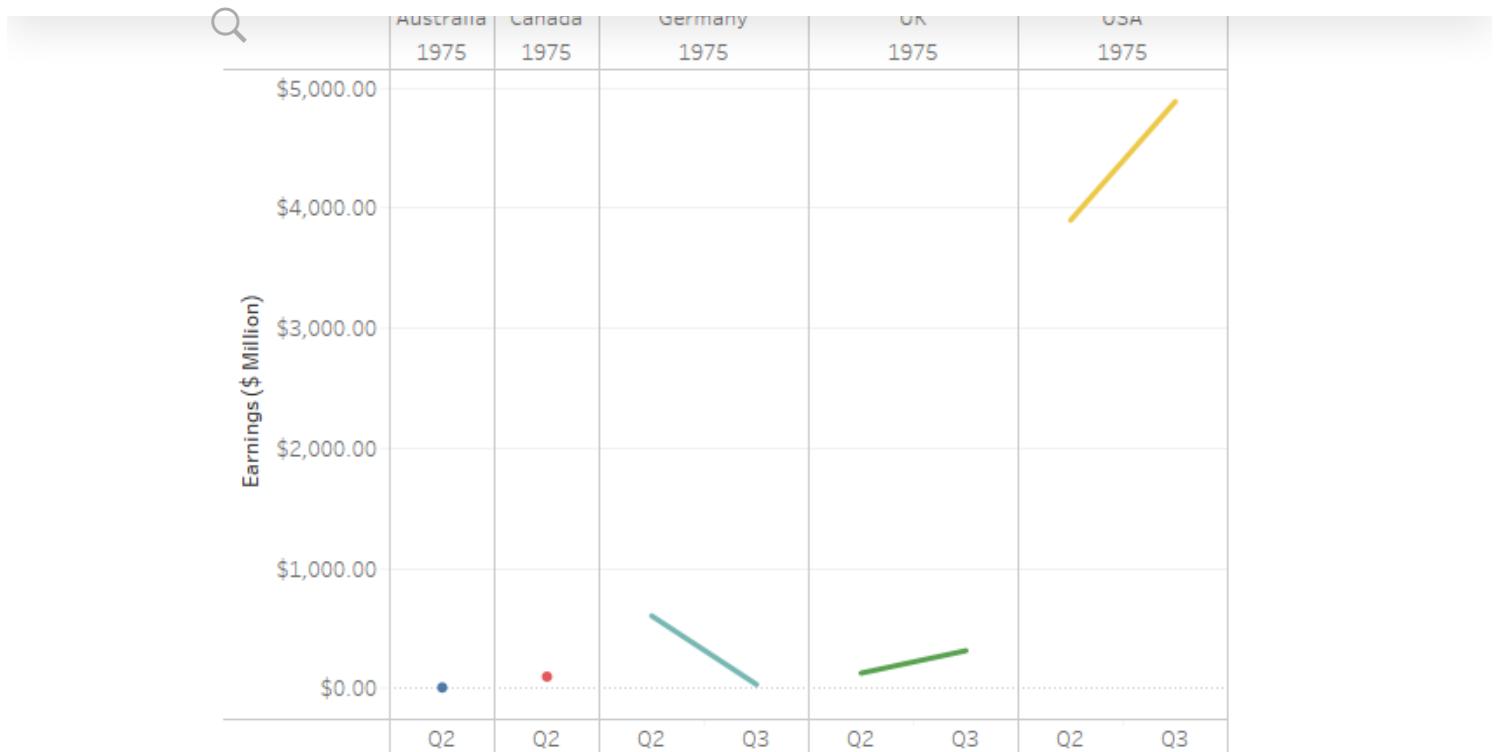
The continuous charts are useful when we try to depict a story of how things changed over time. We can add multiple categories in the view to show the difference between categories over time.

Minimum Requirements:

1 date, 0 or more Dimensions, 1 or more Measures

## Discrete Line Chart

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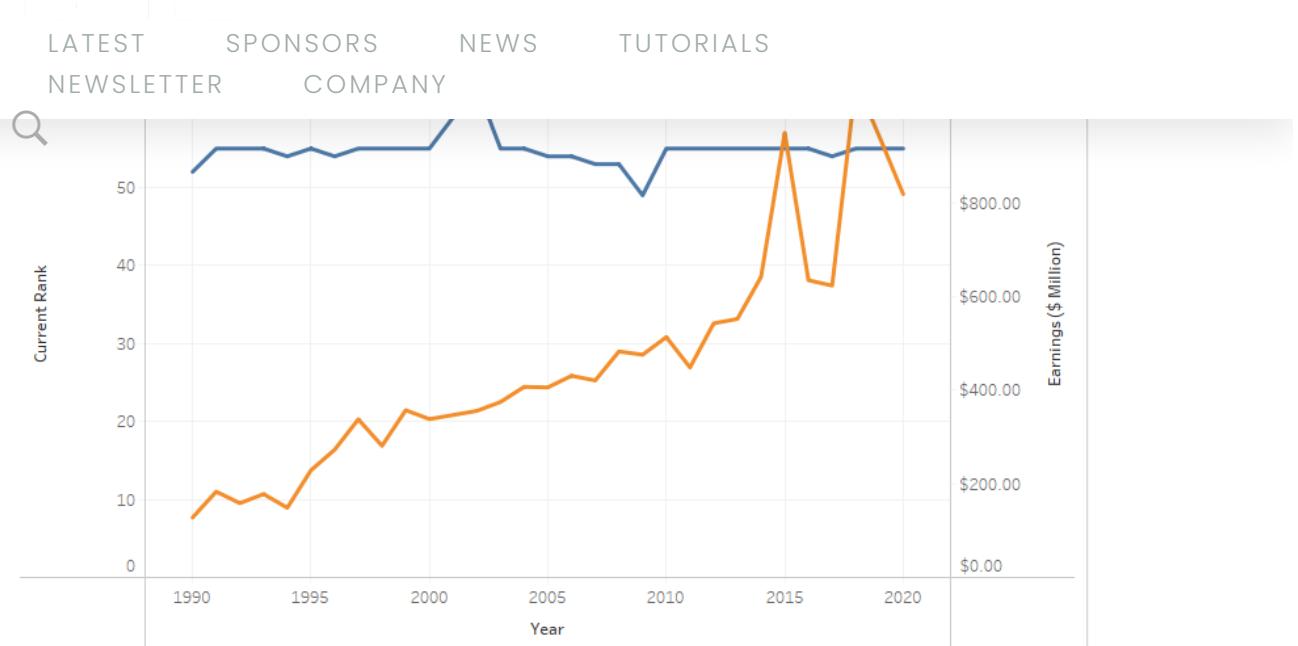


It is as same as Continuous Line Chart, the only difference is it requires a discrete date rather than continuous dates and thus provides an even better level of details as we can split our dates into further categories such as quarters, months, etc.

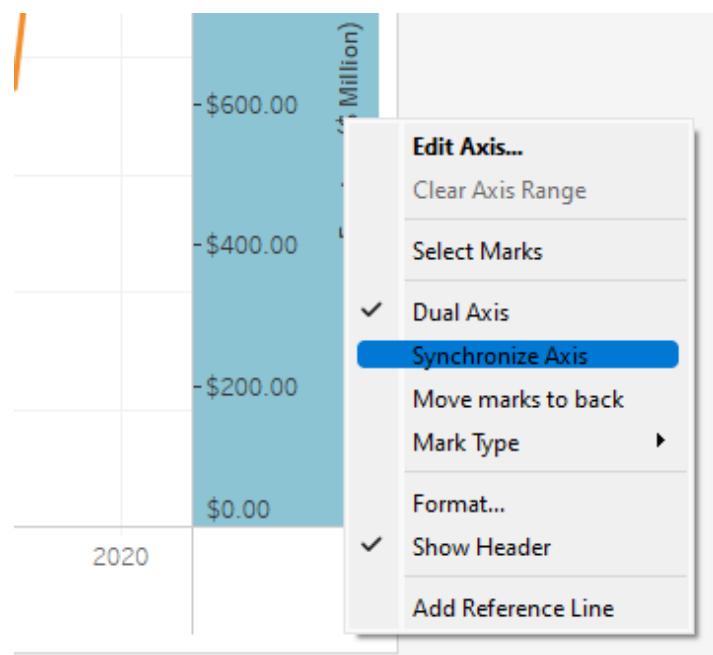
Minimum Requirements:

1 date, 0 or more Dimensions, 1 or more Measures

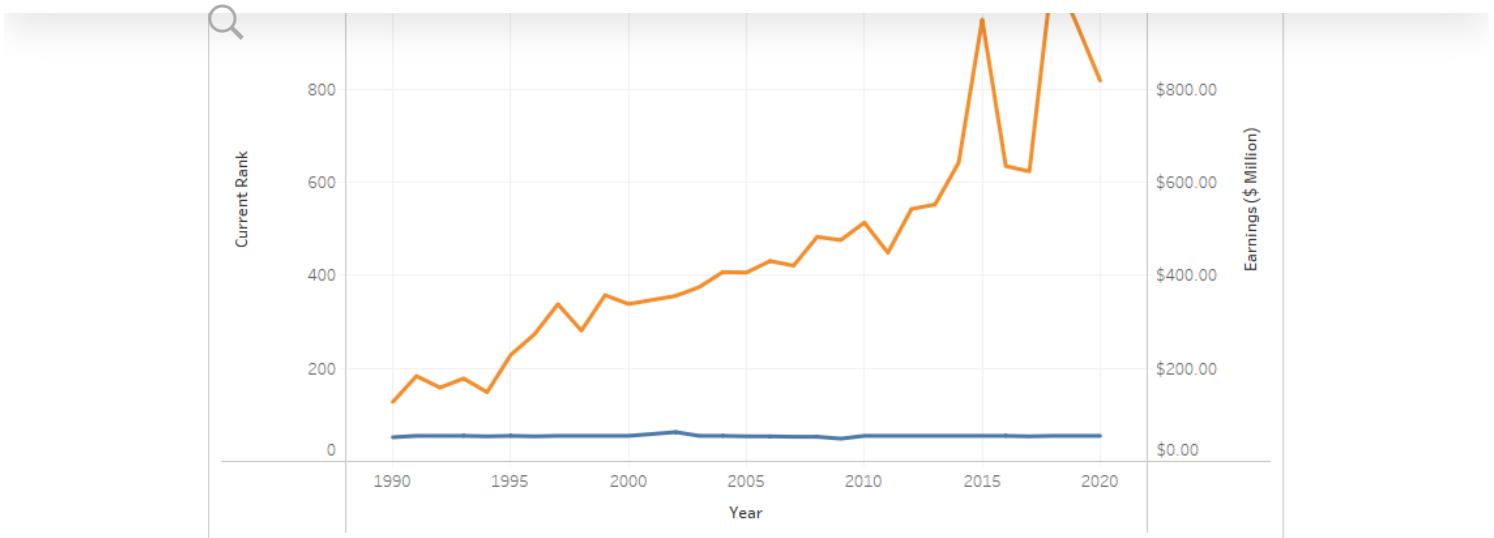
## Dual-Axis Chart



This type of chart is useful when we want to compare the performance of two measures throughout continuous time. It is called dual-axis because we have two separate axes for two different measures, although we can synchronize both axes to create a better view, by right-clicking on any one axis and choosing "Synchronize Axis".



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Minimum Requirements:

1 date, 0 or more Dimensions, 2 Measures

## Combined Axis Chart

If we synchronize and hide any axis of Dual-axis charts, we get a combined axis chart.

The biggest advantage is we can add another dual-axis chart i.e. three measures in one view.

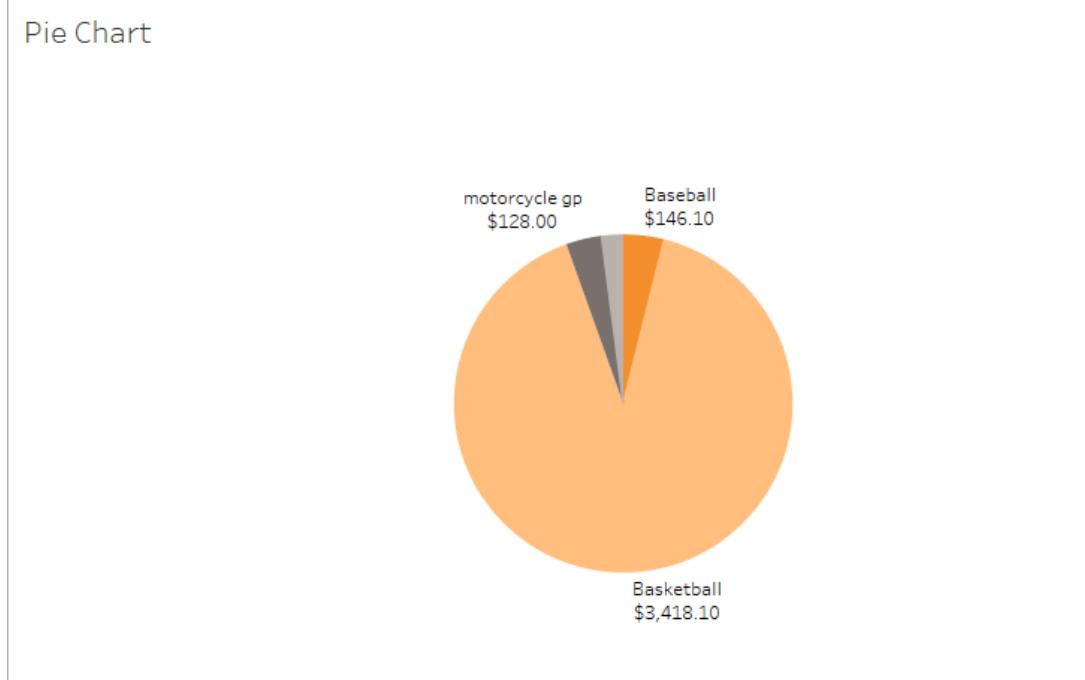
## Dual Axis Chart vs Combined Axis Chart

- In the Combined Axis chart, both measures share the same axis. In the Dual Axis chart, both measures have a different axis.
- In the Combined Axis chart, only one mark is there. In the Dual Axis chart, multiple marks are created.



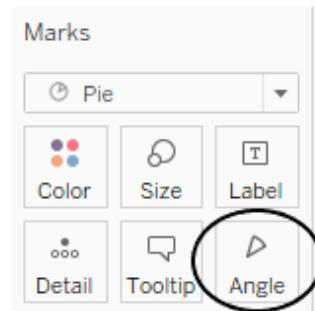
- The combined Axis chart is also known as the Blended Axis Chart or Shared Axis Chart. The Dual Axis chart is also known as the Combination Chart.

## Pie Chart



It would be better if you don't use pie charts because they aren't really accurate. Look at the chart, all three slices apart from Basketball really look similar. Could you've differentiated if you weren't given exact data points? I am pretty sure not. In addition, if we had 20 different slices, it would've been a mess.

So use Pie-charts only when you have a maximum of 6 slices and preferably in a percentage relationship. If not, you can always use bar charts.



Minimum Requirements:

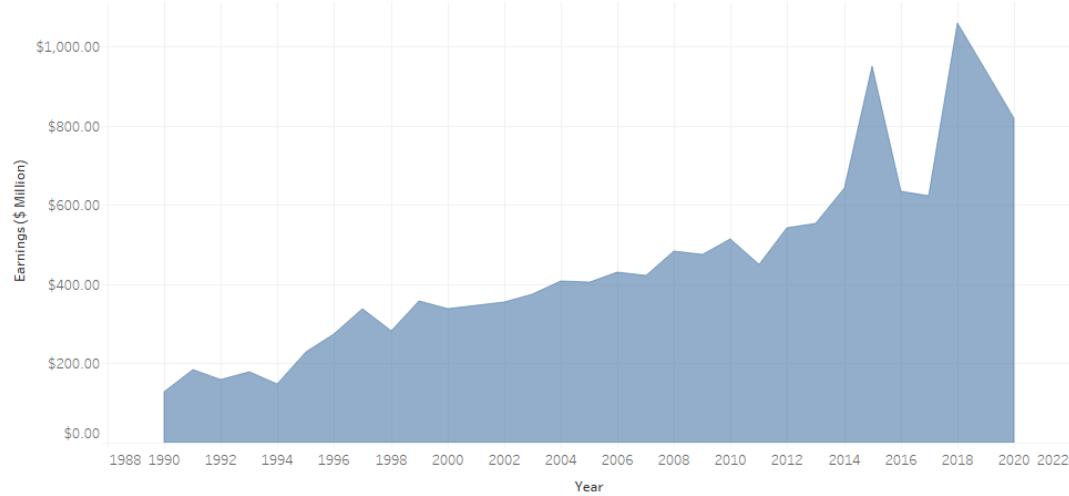
1 or more Dimensions, 1 or 2 Measure

## Area Chart

There are two types of Area Charts:

### Continuous Area Chart

Continuous Area Chart



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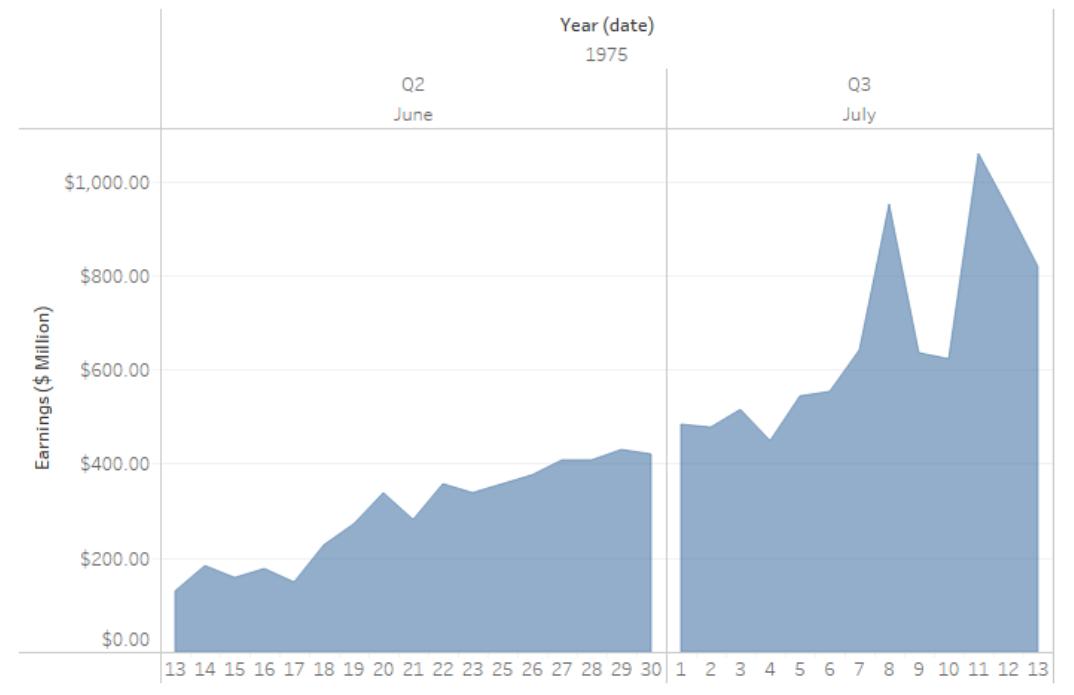
area shows the volume of the measure.

Minimum Requirements:

1 Date, 0 or more Dimensions, 1 or more Measures

## Discrete Area Chart

Discrete Area Chart



It is similar to Continuous Area Chart but requires a discrete date rather than a continuous date.

Minimum Requirements:



## Map

### Symbol Map



It can be used to tell a story containing geographical data. To further enhance the view, we can play with size and colors. To increase the Level-of-Detail we can create a hierarchy in our dataset. We can also add custom shapes rather than circular dots.

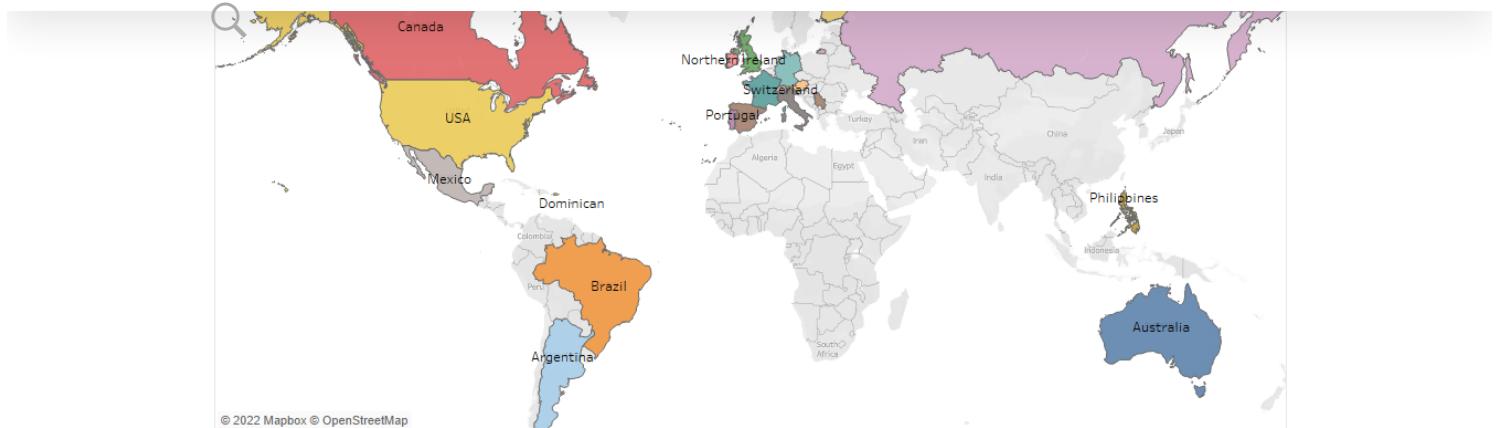
We can modify the map type to satellite, streets, outdoor, etc.

Minimum Requirements:

1 Geo-Dimension, 0 or more Dimensions, 0 to 2 Measures

## Filled Map

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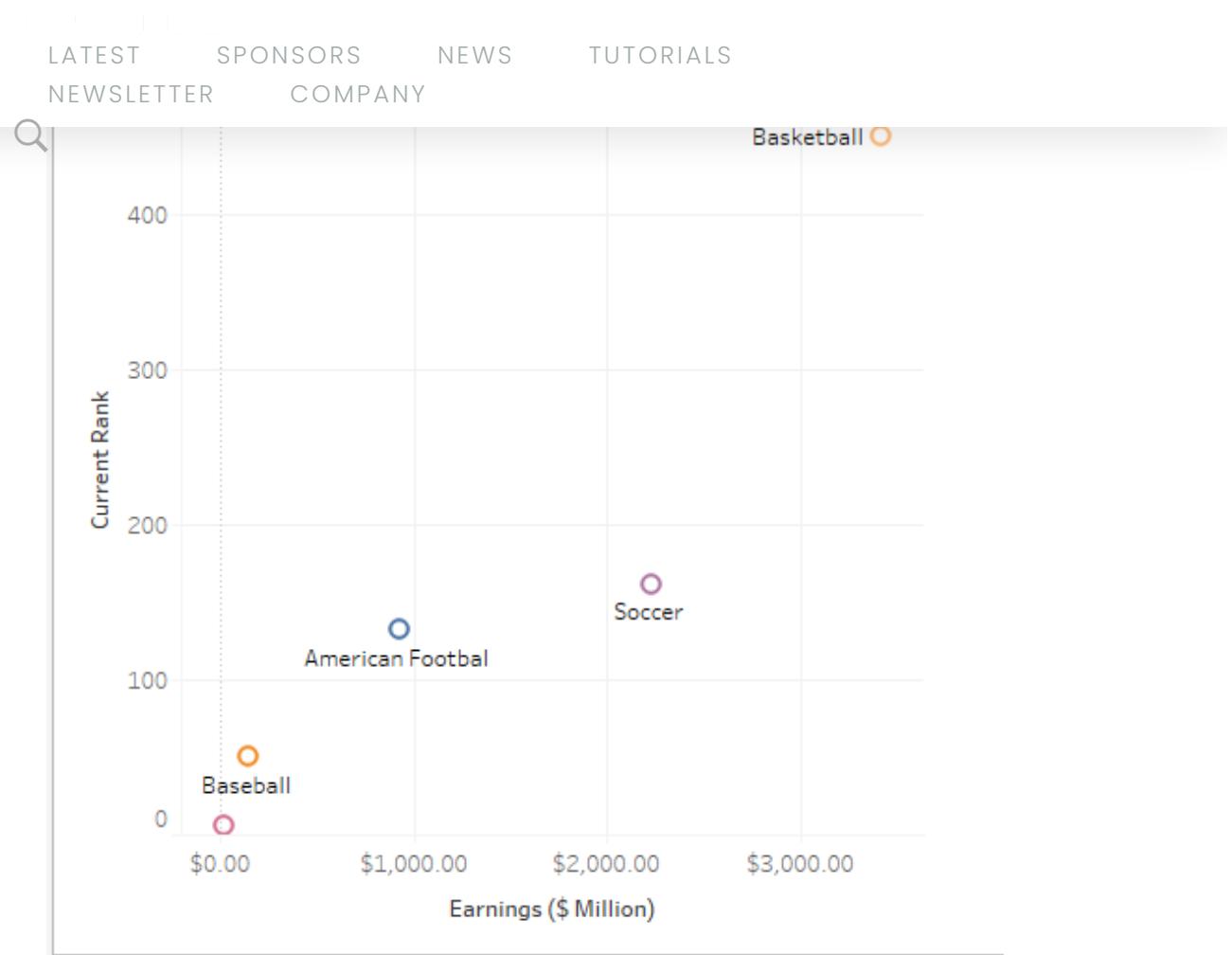


The motive is as same as of Symbol map i.e. to employ geographical data. But rather than symbols we use colors. It looks more intuitive and appealing. We can modify the map type to satellite, streets, outdoor, etc.

Minimum Requirements:

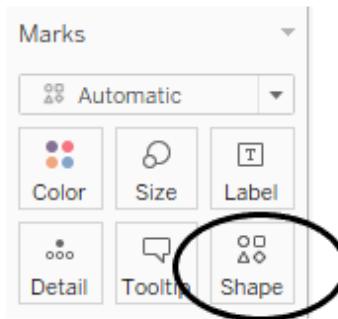
1 Geo-Dimension, 0 or more Dimensions, 0 to 2 Measures

## Scatter Plot



A Scatter plot is one of the best charts when we want to compare two different measures. Both axes contain two different measures, to add more functionality to our graph we can add a trend line to identify patterns amongst the data.

We can change the shape of our data points from the marks card.

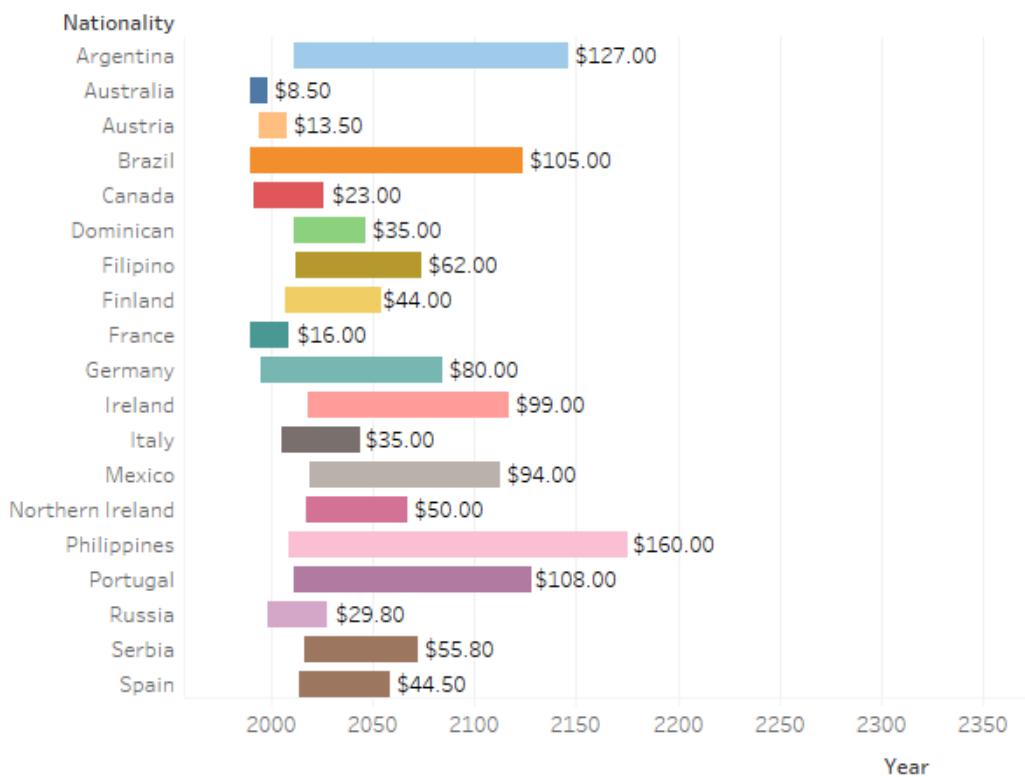




0 or more Dimensions, 2 or 4 Measures

## Gantt Chart

Gantt Chart



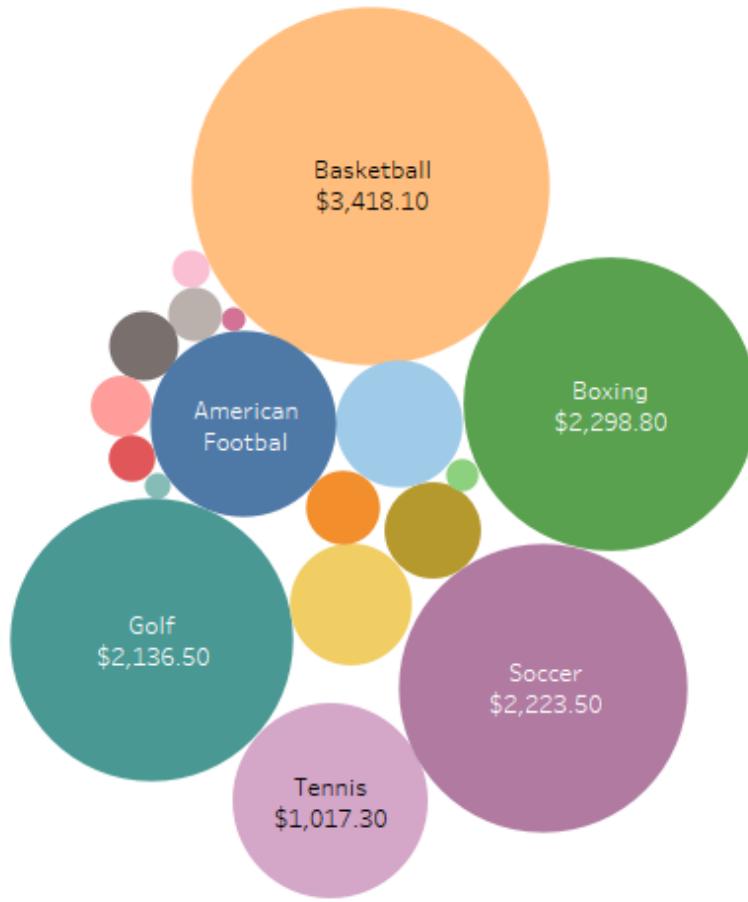
The Gantt chart is great to compare the performance of any measure w.r.t. various categories for some time. It also makes a perfect project management tool.

Minimum Requirements:

1 Date, 1 or more Dimensions, 0–2 Measures



## Bubble Chart



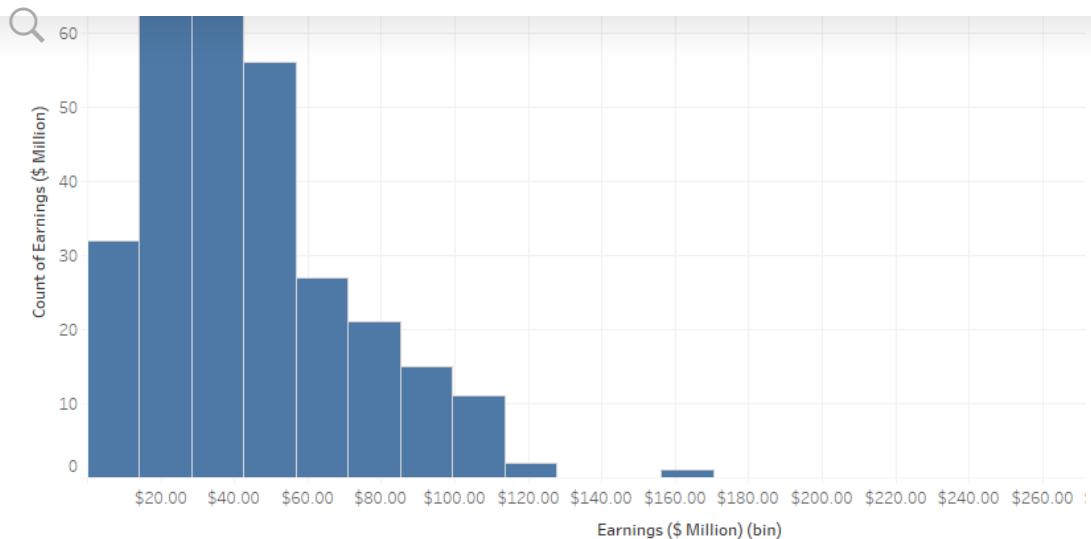
Bubble charts are one of the most appealing charts. It creates packed bubbles to use space efficiently. The size of bubbles depends on the measure, the higher the measure bigger the bubble.

Minimum Requirements:

1 or more Dimensions, 1 or 2 Measures

## Histogram

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A histogram helps to depict the distribution of data via frequency/count. Tableau automatically segregates the data into bins, we can also do it manually. This chart can be useful when we want to analyze our measures.

Minimum Requirements:

1 Measure

## Text Tables(Cross Tabs/Pivot Tables)

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Argentina	\$715.50
Australia	\$8.50
Austria	\$13.50
Brazil	\$422.00
Canada	\$99.10
Dominican	\$35.00
Filipino	\$62.00
Finland	\$129.00
France	\$36.00
Germany	\$639.00
Ireland	\$99.00
Italy	\$128.00
Mexico	\$94.00
Northern Ireland	\$50.00
Philippines	\$242.00
Portugal	\$787.10
Russia	\$29.80
Serbia	\$55.80
Spain	\$44.50
Switzerland	\$781.10
UK	\$443.20
USA	\$8,786.30

This is the most simple way to represent the data. This chart simply creates a spreadsheet containing dimensions and measures. This is one of the most boring graphs as it doesn't have any visual cue, but it does the work.

Minimum Requirements:

1 or more Dimensions, 1 or more Measures

## Heat Map

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Argentina	soccer	■
Australia	Golf	▪
Austria	Auto Racing	▪
Brazil	Auto Racing	▪
	Soccer	■
Canada	Auto Racing	▪
	Boxing	▪
	Hockey	▪
	Ice Hockey	▪
Dominican	Baseball	▪
Filipino	Boxing	▪
Finland	F1 racing	■
France	Auto Racing	▪
Germany	Auto Racing	▪
	F1 Motorsports	■
	F1 racing	■
Ireland	MMA	▪
Italy	motorcycle gp	▪
Mexico	Boxing	▪
Northern Ireland	Golf	▪
Philippines	Boxing	■
Portugal	Soccer	■

It is an extension to Text-Table, it uses color and shape to enhance the view.

Minimum Requirements:

1 or more Dimensions, 1 or 2 Measures.

## Highlight Table

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American Football	USA	\$923.70
Auto Racing	Austria	\$13.50
	Brazil	\$63.50
	Canada	\$43.00
	France	\$36.00
	Germany	\$123.00
	UK	\$80.80
	USA	\$71.00
Baseball	Dominican	\$35.00
	USA	\$111.10
Basketball	USA	\$3,418.10
Boxing	Canada	\$10.20
	Filipino	\$62.00
	Mexico	\$94.00
	Philippines	\$242.00
	USA	\$1,890.60
cycling	USA	\$28.00
F1 Motorsports	Germany	\$248.00
F1 racing	Finland	\$129.00
	Germany	\$268.00
Golf	Australia	\$8.50
	Northern Ireland	\$50.00

It is an extension to Text-Tables, it uses colored cells (similar to conditional formatting in Excel). The color gets darker as the value of the measure increases. This graph is more appealing than Text-Tables as it uses colors as cues. We can set the color scheme to either diverging or converging.

Minimum Requirements:

1 or more Dimensions, 1 Measure

## Treemaps

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Treemaps are ideal graphs for hierarchical data. The size of boxes depends on the measure, the graph is visually appealing as it used both size and color as its cues. The higher the measure, the bigger the boxes will be. We can change the color scheme to either converging or diverging.

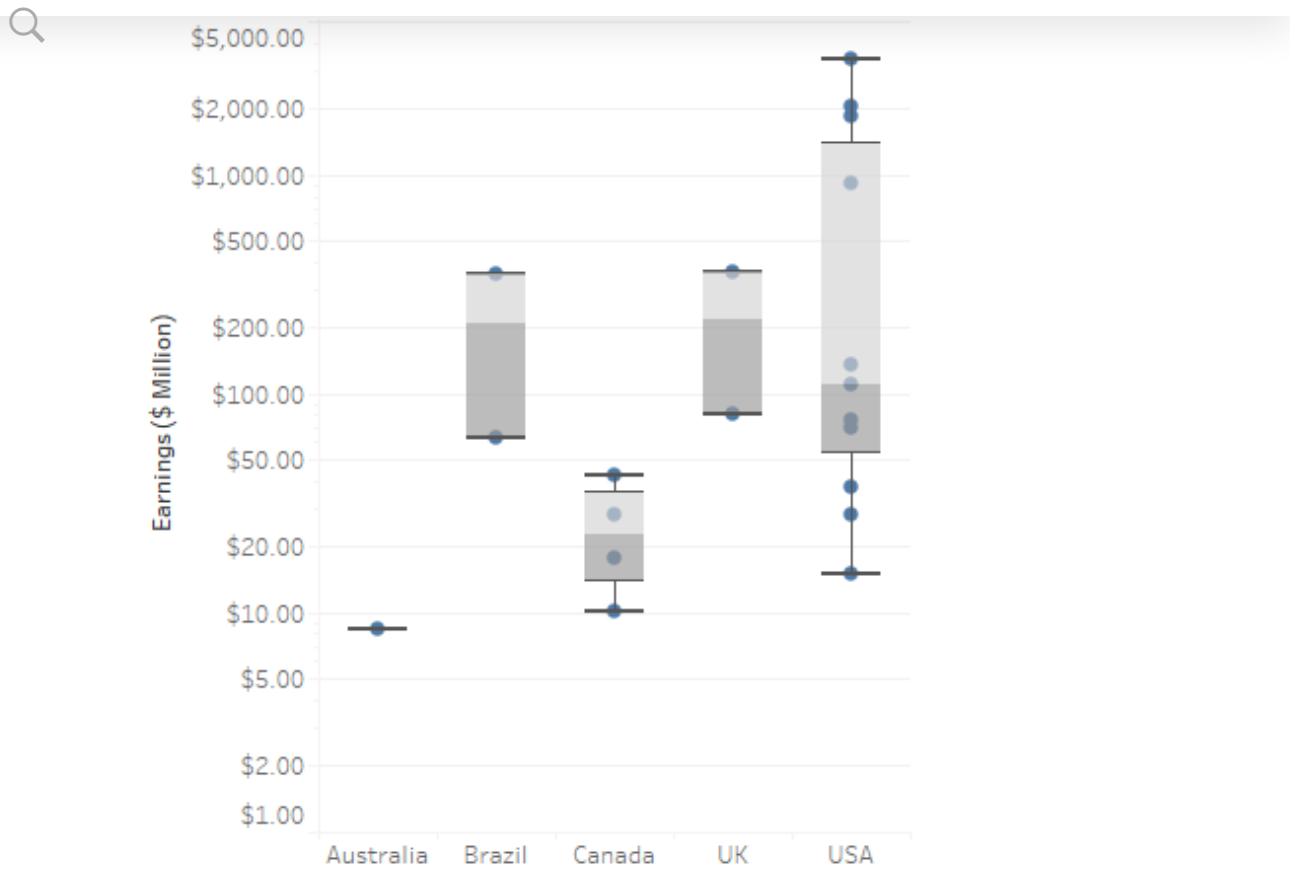
Treemaps only require marks pane and hence don't have any axes. But to increase the granularity we can add fields to the row/column shelf. A treemap requires size, color, and details.

Minimum Requirements:

0 or more Dimensions, 1 or more Measures

## Box-and-Whiskers Plot

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This is one of the most complex Tableau Charts. It compares the various categories as well as shows the distribution of each category.

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**Upper Whisker and Lower Whisker denote Maximum and Minimum Value respectively.**

**Upper Hinge and Lower Hinge denote Upper Quartile(75% of data points lie here) and Lower Quartile(25% of data points lie here) respectively.**

**Median denotes the middle value of data when sorted in ascending/descending order.**

Minimum Requirements:

0 or more Dimensions, 1 or more Measures



b. Line Chart

c. Area Chart

d. Box Plot

**Solution:** Box Plot

**Dual-axis chart is also known as?**

a. Combination Chart

b. Combined axis chart

c. Blended axis chart

d. Shared axis chart

**Solution:** Combination chart

**What are the pre-requisites to create a combined set?**

a. They must have the same name.

b. They must be based on the same dimensions.

c. We can't create a combined set.

d. There are no pre-requisites to create a combined set.

**Solution:** They must be based on the same dimension

**Pick the wrong one**



- c. Go with TreeMap to show positive and negative measures
- d. Go with a Line chart to display the Forecast

**Solution:** Go with TreeMap to show the positive and negative measure

### Pick the wrong statement about Histogram?

- a. Histograms work best when displaying continuous, numerical data
- b. Unlike bar charts, histograms do not support comparisons between two or more categories
- c. For data sets that impact customers, consumers, or clients, histograms can be used to measure satisfaction.
- d. Histogram is an extended version of a Pie Chart

**Solution:** Histogram is an extended version of a Pie Chart

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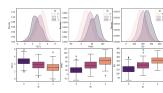
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	petal width (cm)	Species
0	0.2	0.0
1	0.2	0.0
2	0.2	0.0
3	0.2	0.0
4	0.2	0.0
...	...	...
95	1.2	1.0
96	1.3	1.0
97	1.3	1.0
98	1.1	1.0
99	1.3	1.0

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