

Data Visualization Tutorial 1

Hours of Sunshine

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Bubbled Mark Chart

Description

The climate of a place can have a tremendous impact on people's lived experience, ranging from personal moods to how an entire region defines itself. Here, we've collected a set of average monthly climate measurements for six major U.S. cities, roughly covering the edges of the continental United States and visualized it.

Explanation

- X axis refers to the cities
- Y axis refers to the monthnum Which is coloured for easier differentiation.
- The size of the bubble defines the frequency of the sunshine.
- More sunshine, the bigger is the bubble.
- The legends on the top right corner describes the colour of the bubble, wherein it helps people to understand the month of the sunshine based on the bubble colour.
- The sum of hours of sunshine explains the density of the bubble based on the amount of sunshine.
- This bubble chart satisfies all the basic criterias of displaying the sunshine along with the month.
- It also goes beyond to provide best in class readability.

Bubble Graph

Like the scatter plot, a bubble chart is primarily used to depict and show relationships between numeric variables. However, the addition of marker size as a dimension allows for the comparison between three variables rather than just two.

Thus helping us to depict the month, city and sunshine.



X & Y- Axis

The Graph emphasises on the cities to know it's sunshine, hence cities are mapped in the x axis.

Further, The Sunshines from different rows are added to find the total sum of sunshine which takes up the Y axis place in our chart.

Sorting

The Graph is sorted based on the monthnum for easier readability.

Colouring

Graph uses different colours for displaying different months. Colours are chosen in such a way that they are completely different from each other and do not confuse the reader.

Legend

This Graph consists of 2 legends, one for the sum of sunshine, which is explained with density, whereas the months are differentiated using colours.

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