

Warm Up Activity :

1. What the visualization is trying to show?  
Social Connectedness between our community and the rest of America
2. What are its methods?  
Map visualization showing index of connectedness
3. What are the strengths and weaknesses?

Types of Data in Visualization : Geometric, connected data points, data points belong to fixed set of categories, quantity associated with the data, continuous data points along one or more dimensions.

Examples of each with visualizations was studied.

Distributions : Analyzing rain data by month using histograms , non-uniform binning to represent the data more accurately.

Dimensions of Representation which can be controlled: Position, Color, Size, Shape, Relationship, Motion

Discussion about Summation, Average and weighted average with examples

Summation example : Inches of rain

Average example : Average rainfall in the area

Weighted average : useful for describing mean but not statistical mean , example :average rainfall ,weighted by how humid it was that day.

Coding along on Jupyter Notebook on the ChampaignWeather.csv dataset

Plotting line charts for Date v/s Minimum and Maximum Temp in F  
Working with histograms binning , import library ipywidgets