Title: Temperature, Snowfall and Rainfall in United States

From time to time, Dr. Chris Brooks may want to share your work anonymously (via social media channels such as Twitter), to highlight some of the accomplishments of learners in this course.

If you agree that you are comfortable with instructor sharing your Assignment #4 as an example of great work, please type YES in the text box.

Yes

State the region and the domain category that your data sets are about (e.g., Chaohu, China and sports or athletics).

Ann Arbor, Michigan, United States

weather(temparature,rainfall,snowfall)

Create a research question about the domain category and region that you identified.

How the Temperature, Snowfall and Rainfall in United States has changed in the period 1961 to 1990

Provide at least two links to publicly accessible datasets. These could be links to files such as CSV or Excel files, or links to websites which might have data in tabular form, such as Wikipedia pages.

snowfall dataset link: <http://data.un.org/Data.aspx?d=CLINO&f=ElementCode%3a09%3bCountryCode%3aUS&c=2,5,6,7,10,15,18,19,20,22,24,26,28,30,32,34,36,38,40,42,44,46&s=CountryName:asc,WmoStationNumber:asc,StatisticCode:asc&v=1>  
  
rainfall dataset link: <https://en.wikipedia.org/wiki/Instrumental_temperature_record>

Provide a short (1-2 paragraphs) justification of how your visual addresses your research question.

this visualization is about how the temparature snowfall and rainfall has changed over the years 1961 to 1990 and plotted for each month of the year.

of all the three rainfall was highest in every month and it was followed by snowfall but as temparature showed varied values,snowfall is in a saturated state in every month. temparature is lowest in winter months like november to march, it showed a significant increase in the months of june to august. During these months rainfall was increased and snowfall was significantly decreased

As this assignment is for the whole course, you must incorporate and defend the principles discussed in the first week, specifically, Cairo’s principles of truth, beauty, function, and insight.

For each of the following prompts, please provide a response that links each principle to one or more elements of your visual.

* Describe your design choices for your visual in regards to Cairo's principle of **truthfulness**.
* Describe your design choices for your visual in regards to Cairo's principle of **beauty**.
* Describe your design choices for your visual in regards to Cairo's principle of **functionality**.
* Describe your design choices for your visual in regards to Cairo's principle of **insightfulness**.

the data is true as it is taken from trusted sites like undata and wikipedia.

each element of the visualization is aptly represented with different colours and reduces ambiguity.

the functionality of representing the temparature, rainfall, snowfall is correctly depicted.

this data shows insight about the weather details like temparature,rainfall and snowfall over a period from 1961 to 1990.