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# Investigate a Dataset

## REVIEW

## HISTORY

## Meets Specifications

Dear student

This is a great project that you have done here! You have shown great rigor throughout the project which has resulted in a great soul searching journey. Well done! With this, you have now successfully completed this project. All the very best for the next one! 🤗👏

## Code Functionality

**All code is functional and produces no errors when run. The code given is sufficient to reproduce the results described.**

**The project uses NumPy arrays and Pandas Series and DataFrames where appropriate rather than Python lists and dictionaries. Where possible, vectorized operations and built-in functions are used instead of loops.**

Great use of numpy and pandas!

**The code makes use of functions to avoid repetitive code. The code contains good comments and variable names, making it easy to read.**

Amazing work!

## Quality of Analysis

**The project clearly states one or more questions, then addresses those questions in the rest of the analysis.**

Great questions and great answers! In any DS project, asking the right questions is one of the hardest things.

<https://buckwoody.wordpress.com/2015/12/30/the-hardest-thing-in-data-science/>

## Data Wrangling Phase

**The project documents any changes that were made to clean the data, such as merging multiple files, handling missing values, etc.**

Good job!

## Exploration Phase

**The project investigates the stated question(s) from multiple angles. At least three variables are investigated using both single-variable (1d) and multiple-variable (2d) explorations.**

Great plots! They add valuable insights to the overall smooth flow of the project.

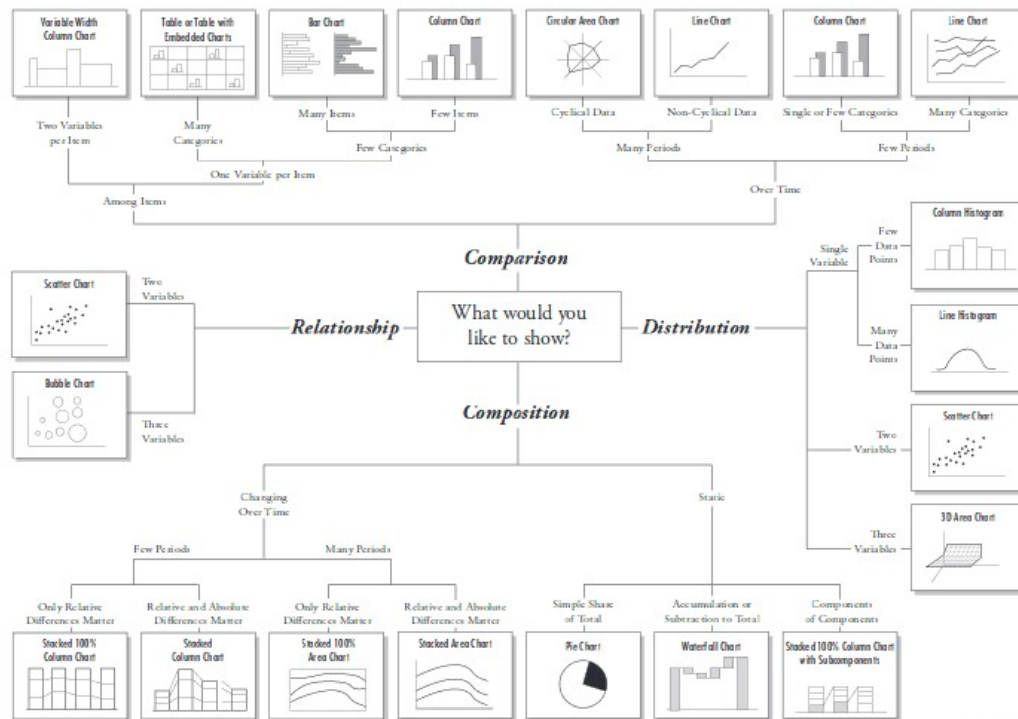
Here's some more inspirations for you: <https://seaborn.pydata.org/tutorial/categorical.html>

The project's visualizations are varied and show multiple comparisons and trends. Relevant statistics are computed throughout the analysis when an inference is made about the data.

At least two kinds of plots should be created as part of the explorations.

You can use this template as a general guidance to almost any DS project.

### Chart Suggestions—A Thought-Starter



## Conclusions Phase

The results of the analysis are presented such that any limitations are clear. The analysis does not state or imply that one change causes another based solely on a correlation.

Awesome!

## Communication

Reasoning is provided for each analysis decision, plot, and statistical summary.

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Visualizations made in the project depict the data in an appropriate manner that allows plots to be readily interpreted.

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