

# Analytics Jumpstart

## **pandas methods for exploratory analysis**

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Nashville Software School



# For today

- **More pandas**
  - **Value Counts**
  - **Describe**
  - **Info**
- **Intro to Exploratory Data Analysis**



# Get Data → Process + Clean Data → Exploratory Data Analysis

## Statistics and other info

*series.value\_counts()* – returns the frequency of each unique value in a pandas series (or data frame column)

*df.describe()* – to get summary statistics about quantitative data

*df.info()* – to get information about the DataFrame

*df.isnull().sum()* – to get counts of missing values



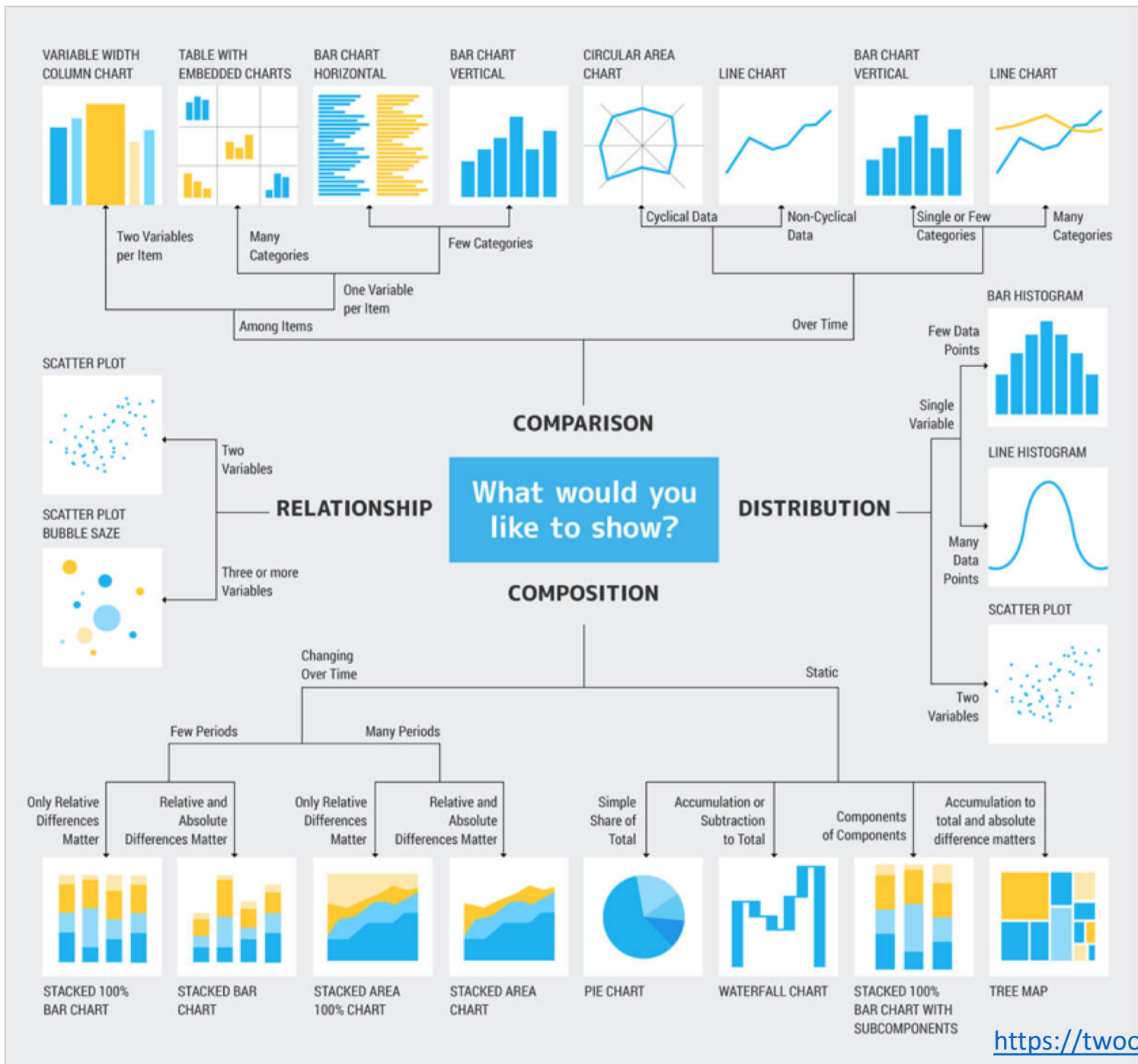
# Get Data → Process + Clean Data → Exploratory Data Analysis

## Exploratory Plots

```
import matplotlib.pyplot as plt  
import seaborn as sns
```

[https://matplotlib.org/api/\\_as\\_gen/matplotlib.pyplot.plot.html#examples-using-matplotlib-pyplot-plot](https://matplotlib.org/api/_as_gen/matplotlib.pyplot.plot.html#examples-using-matplotlib-pyplot-plot)  
<https://seaborn.pydata.org/examples/index.html>





# Reminders

- **Build upon your work in the same notebook each week. Just open it and add to it.**
- **If the code in a cell did not run as expected, modify the code in that cell (not a new one)**
- **Remove any unused/un-useful cells**
- **Beware of the changing state of objects in your notebook**
  - **Example – if you create a df and drop 3 columns and then go back to add code to look at the head() in the same cell you are re-running the command to drop the 3 columns which are no longer there!**



# Questions?

