

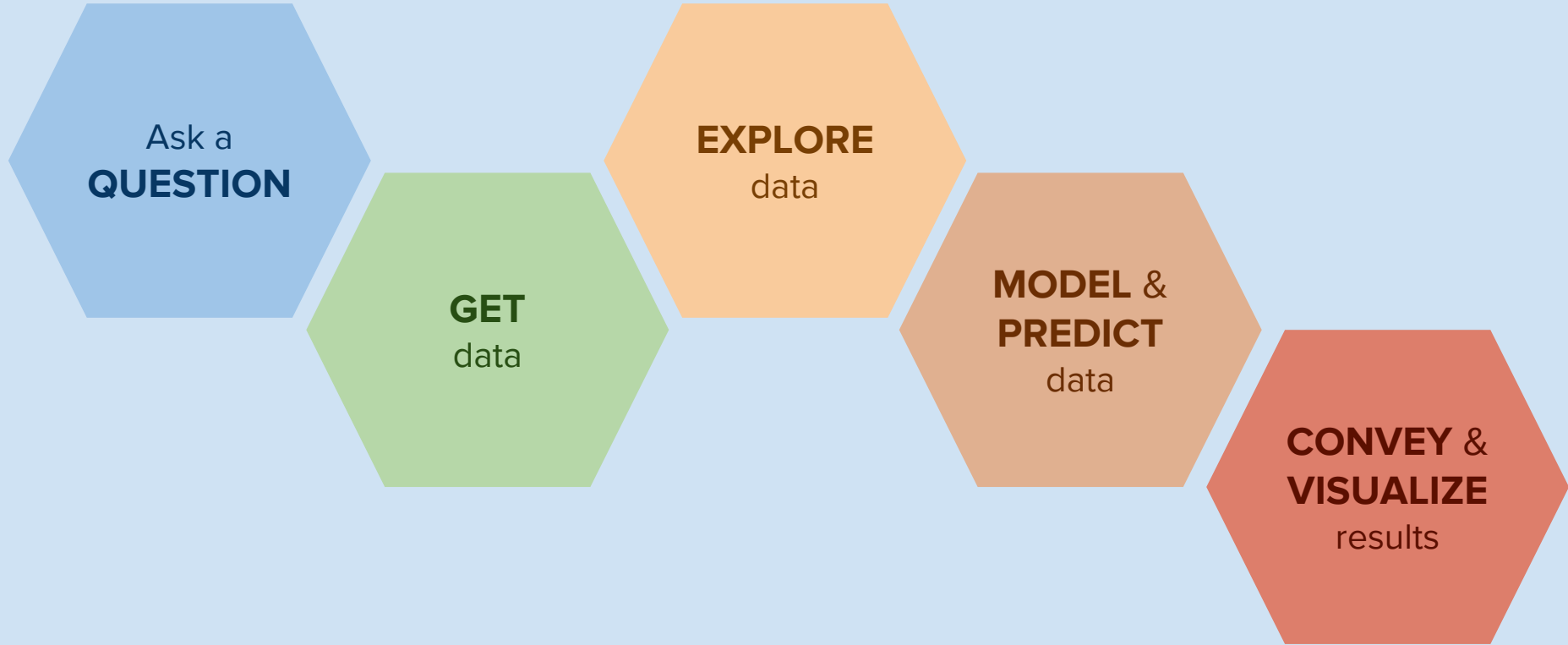


# **DS 1.1: Data Analysis & Visualization**

*The Normal Distribution!*



# Data Science Process



## KEY LANGUAGES



## DATA ANALYSIS

Pandas



## VISUALIZATION TOOLS

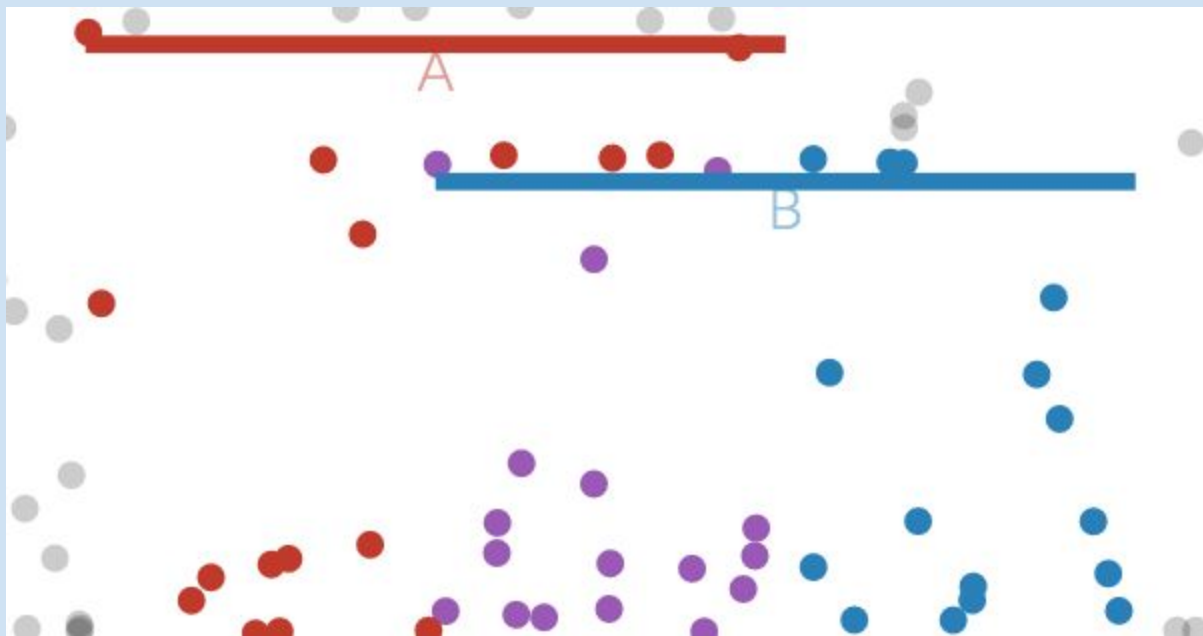
seaborn

matplotlib

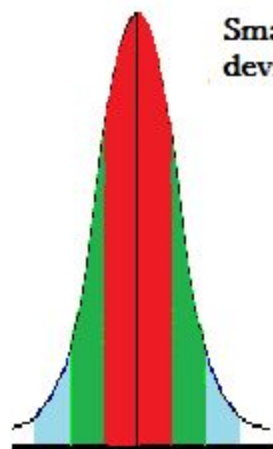
## ESSENTIAL RESOURCES



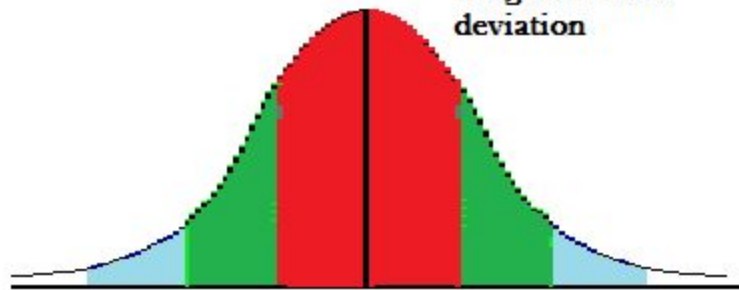




[Click here!](#)

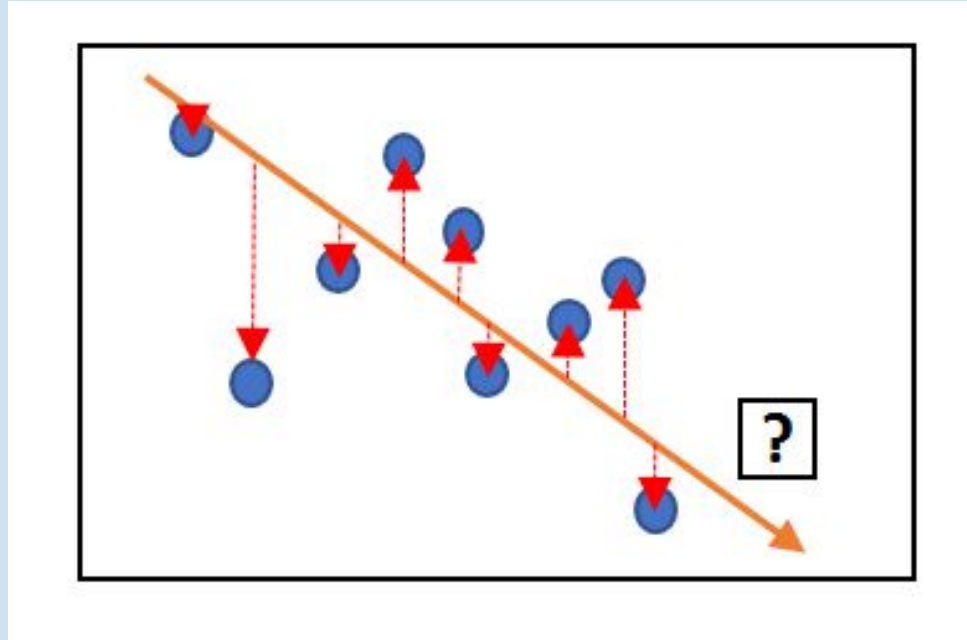


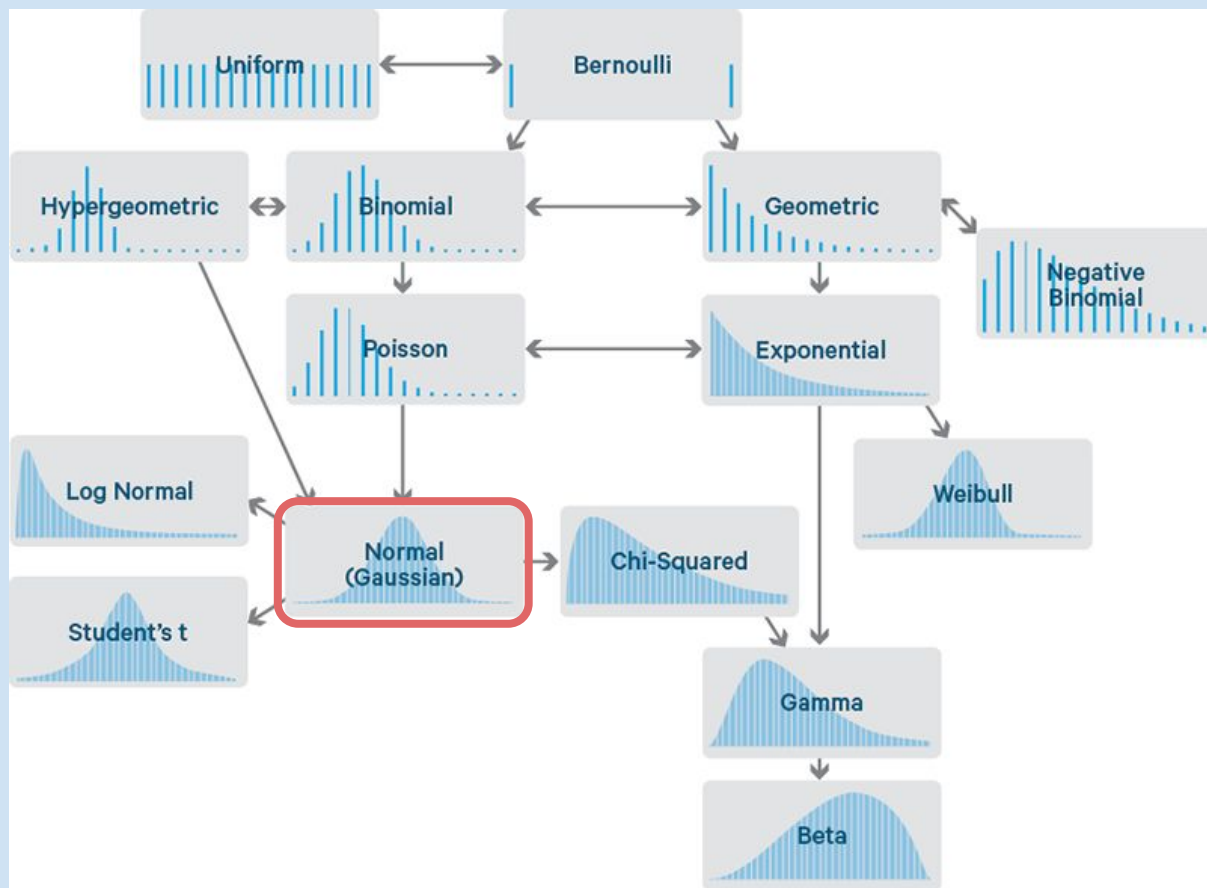
**Small standard  
deviation**



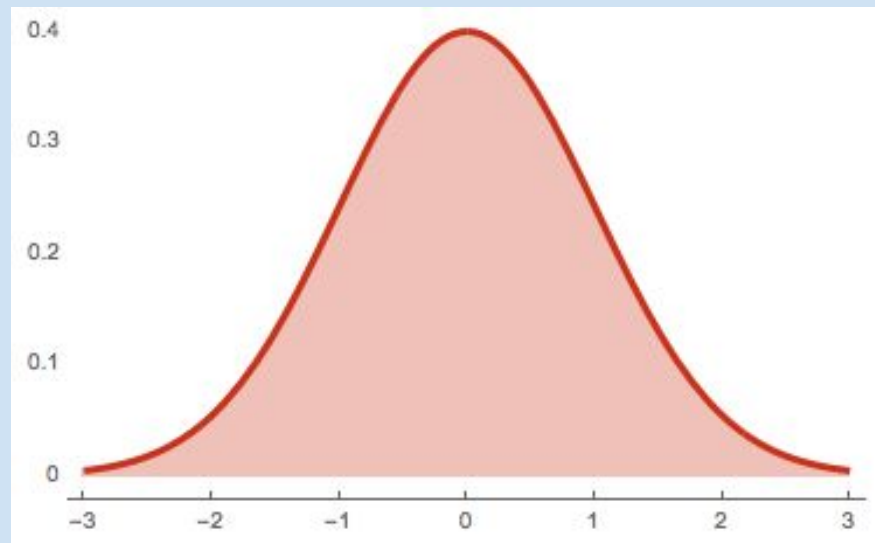
**Large standard  
deviation**







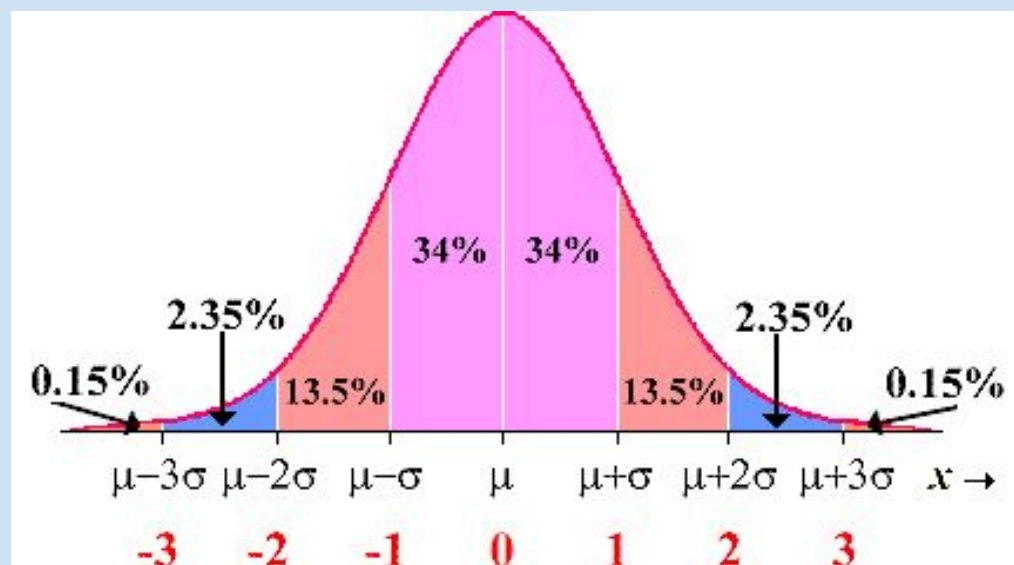






$$M = M = M$$







# Z-Score!

$$z = \frac{X - \bar{X}}{S}$$

*where  $z$  is the standard score,  
 $S$  = the standard deviation of a sample,  
 $X$  = each value in the data set,  
 $\bar{X}$  = mean of all values in the data set.*





# The ***Central Limit Theorem***

