

# BY THE END OF THIS SESSION YOU SHOULD BE ABLE TO:

- Conceptual:
  - Explain variance in terms of the advantages of squaring its values and why it is calculated differently for a population and a sample.
  - Draw a positively-skewed, normal, and negatively-skewed distribution, identifying the mean, median, and mode in each.
  - Identify the various parts of a box-plot, such as the median, Q1, Q2, IQR, and the minimum (i.e.,  $Q1 - 1.5 \times IQR$ ) and maximum (i.e.,  $Q3 + 1.5 \times IQR$ ).
- Coding:
  - Perform a simple merge using two DataFrames. [[In-class | Session 05 and 06](#)]
  - Create a simple box plot using the seaborn package. [[In-class | Session 06](#)]



