

A woman with blonde hair is sitting at a desk in a room with a blue grid wall. Behind her is a white triangular shelf with various objects on it. To the right, a large white pie chart is mounted on the wall. The word "BOXPLOTS" is displayed in large, bold, white letters with a blue outline, centered on a teal background that spans the width of the image.

BOXPLOTS



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A woman with blonde hair is sitting in a chair, looking directly at the camera. She is wearing a grey sweater. The background is a blue wall with a white grid pattern. There are several white geometric shapes on the wall: a large triangle, a circle, and several rectangles. A potted plant is on the left side of the frame. A large, bright green banner with the word "BOXPLOTS" in white, bold, sans-serif font is overlaid across the middle of the image. The banner has a slight 3D effect with a dark green shadow on the right side.

BOXPLOTS

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](#)]

