Chapter 3

# Try It Yourself: Contemplate a Box Plot with a Categorical Variable

## Excel Instructions

1. Open the countries.csv file in Excel.
2. Confirm that column F contains life\_expectancy and column D contains continent.
3. Filter continents to include only Africa, Asia, and Oceania.
   1. Go to the 'Data' tab on the Excel ribbon at the top of the window.
   2. Select cells A1:P1
   3. Click on the 'Filter' button to enable dropdown arrows on the column header.
   4. Click the dropdown arrow in the continent column header in Column D.
   5. A list of all unique values in the column will appear.
   6. Uncheck the 'Select All' option to clear all selections.
   7. Scroll through the list and find "Africa", “Asia”, and “Oceania” and check the boxes next to them.
   8. Click 'OK'.
4. Click on the column headers for both the life\_expectancy (column F) and continent (Column D) to select all the data in those columns.
5. Insert a box plot.
   1. With Columns F and D highlighted, go to the Insert tab on the Excel ribbon.
   2. Select Insert Statistic Chart→Box and Whisker.
6. Set box plot options.
   1. Right click on any box plot.
   2. Select Format Data Series…
   3. In the right-hand panel, be sure that all options are unchecked except “Show outlier points.”
   4. In the right-hand panel, choose “Inclusive median” to include the median in the calculation if the number of values in the data is odd.
7. Excel does not allow us to change the box plots to three different colors.