Chapter 4

# Try It Yourself: Plot Correlations between Two Quantitative Variables

## Excel Instructions

1. Open videogames.csv in Excel.
2. Select columns M (User\_Rating) and K (Critic\_Rating) simultaneously.
3. From the Excel ribbon, go to Insert→Charts→Scatter. Choose the top-left option (with just data points).
4. Rescale the axes.
   1. Right-click the x-axis.
   2. Select Format Axis…
   3. Under Bounds, change the Maximum to 100.0
   4. Right-click the y-axis.
   5. Select Format Axis…
   6. Under Bounds, change the Maximum to 10.0
5. To add a trendline (regression line):
   1. Click on a data point in the scatterplot.
   2. Right-click→Add Trendline→choose Linear.
   3. Change the color to red.
      1. From your Format Trendline menu, click the paint bucket icon.
      2. Scroll down until you find Color, and change it to red.
6. Label axes:
   1. Click on the chart, then navigate to the ‘Chart Design’ tab from the Excel ribbon at the top.
   2. Click on Add Chart Element→Axis Titles
   3. Select Primary Horizontal and add your x-axis title (“Critic Rating”), and then Primary Vertical to add your y-axis title (“User Rating”).
7. For the correlation coefficient, in an empty cell, use the formula: =CORREL(M:M,K:K)
8. Repeat these steps for the other pair of variables (user\_count and User\_Rating).