Practical Application

o **Scenario:**
  - You have two sets of continuous data that you're comparing; each set has 100 values. The first dataset has an average value of 127 with a confidence interval of 117 to 137, and the second dataset has an average value of 132 with a confidence interval of 123 and 140.

o **Try to answer the following questions based on the above scenario:**
  - Would you consider the confidence intervals to be wide or narrow?
  - Would you expect the P-value to be high, medium, or low?
  - Is there a statistical difference between these two datasets?
    - How confident (roughly) would you be in your conclusion?
  - How would the analysis change if you were only able to collect 50 samples per dataset?
  - How would the analysis change if you collect 300 samples per dataset?

StatStuff.com