Module 3: Data Transformation, Tidying, and Wrangling

Outcomes

1. Attendees will understand the value in pre-processing data using R, instead of manually cleansing and tidying in other applications (e.g. Excel).
2. Attendees will be able to list examples of errors and architectural flaws that may exist within a given raw data set, reason why those errors/flaws may be detrimental to the analytic process, and generate solutions for addressing them.
3. Attendees will learn how to use several commands from the tidyverse library.
4. When given example data, attendees will implement basic R commands learned in previous lessons of this workshop.
5. When given example raw data set, attendees will follow a set of instructions using tidyverse based commands to transform the data into a ready-to-analyze set.
6. When given example raw data set, attendees will independently generate solutions to specific problems focused on data tidying, cleansing, and transformation.

Survey Questions

1. How well do you feel that you understand the value in pre-processing data using R, instead of manually cleansing and tidying with other applications?   
     
   Not at all A little bit Somewhat Fairly well Very well
2. How well are you able to list examples of errors and architectural flaws that may be found within a data set, and reason why those flaws may impede the analytic process?   
     
   Not at all A little bit Somewhat Fairly well Very well
3. How confident are you in using commands from the tidyverse mega-library?  
     
   Not at all A little bit Somewhat Fairly confident Very confident
4. If given data, how confident are you that you could implement basic R commands learned in this workshop?   
     
   Not at all A little bit Somewhat Fairly confident Very confident
5. If given a raw data set, how confident are you in your ability to follow instructions to transform the data into a ready-to-analyze set?   
     
   Not at all A little bit Somewhat Fairly confident Very confident
6. If given a raw data set, how confident are you in your ability to independently generate solutions to specific problems focused on data tidying, cleansing, and transformation?  
     
   Not at all A little bit Somewhat Fairly confident Very confident

Open Ended:

What in this module **worked well**? Why?  
  
What in this module could be **improved**? Why?   
  
What are you still unsure about?