

HW02 - Research Question and personal codebook assignment

Overview

Now it is time for you to formulate your own Research Question. This will guide your focus for the rest of the semester. In this assignment you will

1. Decide on a specific research topic
2. Choose variables that relate to your topic
3. Formulate a Research Question

Instructions

The specific details for each step are described below. You will write the assignment in a Google document.

- This is a paired project assignment
- Use header formats to clearly denote steps 1-3.
- Write your assignment directly in a Google Document in the **02 Research Question and Codebook** folder for your section.
- Name this file `rq_pairname` i.e. `rq_donatello_aguilar.pdf`

Step 1: Topic area statement:

Thoroughly review the codebook for your dataset of choice and make note of topics that interest you. Use this as a brainstorming session and identify as much as you can. Write a statement similar to the one below regarding what topic(s) you are interested in. You should also explain WHY you are interested in your topic.

Example: After looking through the codebook for the U.S. Longitudinal Study of Adolescent to Adult Health study database, I have decided that I am particularly interested in nicotine dependence. I am not sure which variables I will use regarding nicotine dependence (e.g. symptoms or diagnosis) so for now I will include all of the relevant variables in my personal codebook. While nicotine dependence is a good starting point, I need to determine what it is about nicotine dependence that I am interested in. It strikes me that friends and acquaintances that I have known through the years that became hooked on cigarettes did so across very different periods of time. Some seemed to be dependent soon after their first few experiences with smoking and others after many years of generally irregular smoking behavior. I decided that I am most interested in exploring the association between level of smoking and nicotine dependence. Below I have added to my codebook variables reflecting smoking levels (e.g. smoking quantity and frequency). If my topic is too vague, I would like to bring suicide in. I would be interested to see if there is any relationship between level of smoking with nicotine dependence and suicide.

Step 2: Personal Codebook:

Create your personal codebook. You will create a trimmed down version of the codebook to help you not get overwhelmed with the larger pool of available questions.

- In your personal codebook, include the questions/items/variables from the full data codebook that measure your selected topics.

- Choose between 10 and 20 variables. This is just a starting point, you can modify anytime later.
- **Do not go overboard here. Excessive variables being chosen indicate lack of thought and will not be reviewed highly**
- Do this by taking little screenshots with the snipping tool or using copy/paste. In the pdf file, go to Edit, Take a Snap Shot, then click and drag over what you want. If you are on a MAC, press Shift+Command+Ctrl+4 to get the snip tool.
- **Do not attempt to re-write the codebook manually**

Step 3: Research Questions:

Now that you have a few topics and picked out variables for each topic, what questions are you interested in trying to answer about your topics? One of the simplest research questions that can be asked is whether two constructs are associated. Your research questions should be written as

- a relationship between two measurements
- a testable hypothesis (can you answer yes or no to the question?)

Questions example:

- a) Does smoking quantity relate to nicotine dependence?
- b) Is there a relationship between smoking frequency and suicide?
- c) Does a smoker have more suicidal behaviors than a non-smoker?