

StatCrunch Project #1

In this assignment you will become familiar with StatCrunch, use it to create graphs, and write a report on your results.

1. Access StatCrunch by going through MyLab or by going to the website directly and logging in with your MyLab username and password.
 - If you go through MyLab: In Canvas go to MyLab and Mastering tab and click MyLab Course Home. From here, click StatCrunch from the menu on the left side of the homepage and select the option to go to the StatCrunch website.
 - If you go directly to the Statcrunch website: Log in to the StatCrunch.com website using the login and password you used to register for MyLab.
2. Once you are in StatCrunch, click on the “Data sets” link, and do a search for **Responses to Future Optimism Survey**.
 - a. Read through the description of the data set (click on “read more” to see the whole description).
 - b. Click on the title of the data set to open it in StatCrunch.
3. Choose one of the qualitative variables and create a graph of your choice that is suitable for that type of variable.
 - a. Go back to the StatCrunch home page, and scroll down to the “help and training” box. Click on “more help” and look for the link to the video on making the type of graph you chose.
 - b. Create your graph with your chosen variable.
 - c. Give your graph a title, by either scrolling down in the original creation window until you see a space for a title. Or by clicking “options” and then “edit” if you have already created your graph.
4. Create a histogram for one of the quantitative variables.
 - a. Look on the help and training page for the video on making histograms.
 - b. You may just use the default starting value and bin width (class width), or choose one of your own. If you choose a different starting value make sure it is at or below the lowest data value.
 - c. Both the x-axis and y-axis should be labeled, and the graph should have an overall title.
5. Create a Word document into which you will report about the data and copy/paste your work. Create a header that includes a title (don’t just say “project #1”----be more creative!) and your first and last name

6. Create one cohesive, organized, and visually appealing report. Write short paragraphs (It should be more than 1 paragraph) using full sentences. Don't copy and paste questions, and don't just have bullet points or numbers answering the questions.
 - a. To copy your graphs, go to "options" in the graph window, and click "copy." Paste into your Windows document in appropriate locations in the body of your report.
 - b. Include the following in your report:
 - i. Was this an observational study or an experiment? Explain.
 - ii. What were the variables in the entire study? Name each variable from the dataset (even the ones you didn't use to make graphs), define them (explain what they are measuring) and write whether they are quantitative or qualitative. If quantitative, specify whether the variable was discrete or continuous.
 - iii. What did your graph of your chosen qualitative variable tell you about the responses? What is your explanation of the results?
 - iv. Describe the distribution of the histogram (center, spread, and shape as talked about in the section 2.2 lecture).
 - v. Include anything else you would like to say about the data set and graphs.
 - c. Save the Word Document file as "lastnameproject #". For example, my filename would be YoderProject1.
7. Upload the file into the assignment dropbox in Canvas by doing the following steps:
 - a. Go to the assignment link in Canvas, and click on "submit assignment"
 - b. Upload your file.
 - c. Click on Submit Assignment.
 - d. You should get a note indicating your submission was successful.
 - e. Check to see if you submitted the correct file and it is readable in Canvas. Click on "Submission Details," then "view feedback."