

(https://www.coursera.org/specialization/reasoning/8?utm_source=spark&utm_medium=banner)

(<http://help.coursera.org/customer/widget/emails/new>)

Peer Assessments (https://class.coursera.org/statistics-002/human_grading/) / Project Proposal

Help ([https://class.coursera.org/statistics-002/help/peergrading?](https://class.coursera.org/statistics-002/help/peergrading?url=https%3A%2F%2Fclass.coursera.org%2Fstatistics-002%2Fhuman_grading%2Fview%2Fcourses%2F972358%2Fassessments%2F3%2Fsubmissions)

[url=https%3A%2F%2Fclass.coursera.org%2Fstatistics-](https://class.coursera.org/statistics-002%2Fhuman_grading%2Fview%2Fcourses%2F972358%2Fassessments%2F3%2Fsubmissions)

[002%2Fhuman_grading%2Fview%2Fcourses%2F972358%2Fassessments%2F3%2Fsubmissions](https://class.coursera.org/statistics-002%2Fhuman_grading%2Fview%2Fcourses%2F972358%2Fassessments%2F3%2Fsubmissions))

due in 1day 9h

Submission Phase

1. Do assignment ☒ (/statistics-002/human_grading/view/courses/972358/assessments/3/submissions)

Evaluation Phase

2. Evaluate peers  (/statistics-002/human_grading/view/courses/972358/assessments/3/peerGradingSets)

Results Phase

3. See results  (/statistics-002/human_grading/view/courses/972358/assessments/3/results/mine)

Your work was submitted. [Review your work \(https://class.coursera.org/statistics-002/human_grading/view/courses/972358/assessments/3/submissions/1053\)](https://class.coursera.org/statistics-002/human_grading/view/courses/972358/assessments/3/submissions/1053) to make sure everything looks OK.



✓ Submitted. You can still make changes and re-submit before the deadline.

☒ In accordance with the Honor Code, I certify that my answers here are my own work, and that I have appropriately acknowledged all external sources (if any) that were used in this work.

[Re-submit for grading](#)

For this proposal, identify a research question similar to those we use in class. Find a dataset with which to answer this question -- you may use one of the two datasets we provided for the project (recommended), or another dataset of your own choosing. This proposal will ensure that your research question and data set meet the project guidelines.

Submit a proposal giving enough detail about what you want to do in your project, so that your peers can give you feedback before you set out to complete it. You should also complete a thorough exploratory data analysis so that you familiarize yourself with your data and decide whether or not the data are appropriate for the project and whether you should be expecting surprising results.

Answer each question individually in the space provided below. Upload relevant plots as PDF or image (PNG/JPG/etc.) files where appropriate.

Note: You can find information on the datasets provided for this project at https://class.coursera.org/statistics-002/human_grading (https://class.coursera.org/statistics-002/human_grading). Browse the codebook for those datasets to get inspiration!

Also provided on the same page are sample research questions appropriate for the project, so if you're not sure where to get started review those examples first (obviously you can't use those same ideas for your proposal, but they should provide also an inspiration).

RESEARCH QUESTION: In one sentence, what is your research question?

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<p><i>Two categorical:</i></p> <p>Are political more conservative Americans more willing to continue working after they get rich?</p> <p>[Data: Political View - various levels; Continue working if rich - yes, no]</p>									

Evaluation/feedback on the above work

Note: this section can only be filled out during the evaluation phase.

Do you understand the research question? How can the question be made clearer? Is it clear how data can be used to answer this research question as its phrased?

You've written 0 words

DATA - Citation: Include a citation for your data, and if your data set is online, provide a link to the source.

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General Social Survey (GSS) Data: http://bit.ly/dasi_gss_data

Codebook: <https://d396qusza40orc.cloudfront.net/statistics%2Fproject%2Fgss1.html>

Evaluation/feedback on the above work

Note: this section can only be filled out during the evaluation phase.

Is there a citation for the data? If there is a link provided, does it bring you to the data?

You've written 0 words

DATA - Collection: Describe how the data were collected.

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The data was loaded into R from the Web URL http://bit.ly/dasi_gss_data using the following command: `load(url("http://bit.ly/dasi_gss_data"))`

Only the subset for the year 2012 will be used (using the subsetting condition `gss$year==2012`)

Attach a file

(supports: txt, png, jpg, gif, pdf)

Evaluation/feedback on the above work

Note: this section can only be filled out during the evaluation phase.

Is the data collection explained clearly?

You've written 0 words

DATA - Cases (observational/experimental units): What are the cases? (Remember: case = units of observation or units of experiment)

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The cases are residents of the United States in 2012.

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Evaluation/feedback on the above work

Note: this section can only be filled out during the evaluation phase.

Are the cases (the units of observation or experimental units) explained clearly?

You've written 0 words

DATA - Variables: What are the two variables you will be studying? State the type of each variable.

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variable **polviews**:

- short description: think of self as liberal or conservative
- type: **ordinal (categorical)**, as there is an order of how much conservative a respondents political view is
- values: "Extremely Liberal", "Liberal", "Slightly Liberal", "Moderate", "Slightly Conservative", "Conservative", "Extremely Conservative"

variable: **richwork**

- short description: if rich, continue or stop working
- type: **regular categorical**

Evaluation/feedback on the above work

Note: this section can only be filled out during the evaluation phase.

Are the variable types identified accurately?

You've written 0 words

DATA - Type of study: What is the type of study? Is it an observational study or an experiment? Explain how you've arrived at your conclusion using information on the sampling and/or experimental design.

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In this study I want to establish an association on collected data and as all of the data is from the past (2012) it's an **retrospective observational study**.

Evaluation/feedback on the above work

Note: this section can only be filled out during the evaluation phase.

Is the type of study identified correctly? Is the supporting information on the sampling and/or experimental design of the study satisfactory for making the decision on the type of study?

You've written 0 words

DATA - Scope of inference - generalizability: Identify the population of interest, and whether the findings from this analysis can be generalized to that population, or, if not, a subsection of that population. Explain why or why not. Also discuss any potential sources of bias that might prevent generalizability.

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In order to **generalize** to the population of interest, i.e. all residents of the United States in 2012, the sample has to be random and representative. The GSS is a reputable survey using an adequate sampling method, so we can treat the sample as random and representative. We can exclude convenience sample and voluntary response as sources of bias because of the sampling method that was used in the survey. We can also exclude a non-response bias as the

Evaluation/feedback on the above work

Note: this section can only be filled out during the evaluation phase.

Did the writer correctly identify the population of interest? Did the writer correctly decide whether the findings from this analysis can be generalized to that population, or, if not, a subsection of that population? Is their explanation satisfactory to make this decision? Are potential sources of bias discussed, and if so, is the discussion satisfactory?

You've written 0 words

DATA - Scope of inference - causality: Can these data be used to establish causal links between the variables of interest? Explain why or why not.

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The study will not be able to tell if any discovered association between the two variables is **causal**, as in order to say that an association is causal it would be necessary to conduct an experiment with a control group.

Evaluation/feedback on the above work

Note: this section can only be filled out during the evaluation phase.

Did the writer identify correctly whether these data be used to establish causal links between the variables of interest. Is the explanation satisfactory?

You've written 0 words

EXPLORATORY DATA ANALYSIS:

Perform a brief exploratory data analysis - just one or two relevant descriptive statistics and visualizations of the data. Also address what the exploratory data analysis suggests about your research question.

You can include summary statistics in your write up in the space provided below by copying and pasting the R output, however you must upload your plot(s) as a separate PDF or image (PNG/JPG/etc.) file. Make sure to provide a discussion/interpretation of any summary statistic or plot you include.

Note: This is not required to be an exhaustive exploratory data analysis (you can save that for the second phase), instead it's just intended to ensure that you have successfully imported your data set into R such that you can produce plots and numerical summaries.

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Exploratory Analysis (HTML document): [Project](#)

The exploratory analysis suggests that there is only a slight difference between the different political views if someone will continue working after he/she gets rich. Only the **extremely conservative** people seem to be more willing to continue working.

Attach a file

(supports: txt, png, jpg, gif, pdf)

Evaluation/feedback on the above work

Note: this section can only be filled out during the evaluation phase.

Have relevant summary statistics been produced and discussed?

You've written 0 words

Is there a visualization of the data, and has it been interpreted properly?

You've written 0 words

Attach a page of your data set that includes all of the relevant columns. You do not need to include all of the data; one page is sufficient.

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[Project-Proposal-Data-onepage](#)

Attach a file (supports: txt, png, jpg, gif, pdf)

Evaluation/feedback on the above work

Note: this section can only be filled out during the evaluation phase.

Is there a data set present? Can you see all of the relevant columns?

You've written 0 words

Overall evaluation/feedback

Note: this section can only be filled out during the evaluation phase.

Please make a general statement about the appropriateness of the dataset to answer the question. In addition, summarize any issues with this submission.

You've written 0 words

✓ Submitted. You can still make changes and re-submit before the deadline.

☒ In accordance with the Honor Code, I certify that my answers here are my own work, and that I have appropriately acknowledged all external sources (if any) that were used in this work.

Re-submit for grading