

HW3: Research Reproducibility I

INSTRUCTIONS

1. Open a new R Notebook file and copy your R script code from last week using the following guidelines:

a. Implement recommendations 1-8 as applicable with the goal that your code and data sources will be easy to follow for peer review

b. For all questions from HW2 include them as level 2 headers (see: <https://www.rstudio.com/wp-content/uploads/2015/03/rmarkdown-reference.pdf>) prior to each code chunk

c. First, select 'Preview Notebook' from the toolbar. This is an important first step for Notebooks! This option should be available in the toolbar next to the magnifying glass symbol instead of knit. Next, save it as HW3_yourinitials.Rmd at the prompt at a location of your choice. Finally, knit the source code and associated output to an html file. Note that after you knit you will notice the preview notebook symbol disappears and this is fine.

You will have three output files created as a result of these steps at the location you saved the first Rmd file: 1) a file with an 'nb' in the filename (e.g. HW3_KJ.nb.html), 2) a file that has no 'nb' in the filename (e.g. HW3_KJ.html), and 3) the rmd file with the code (e.g. HW3_KJ.Rmd). Turn in the 'nb' file on canvas as HW3. Alternatively, if you cannot get the nb file to output for some reason (it's a little fussy but the steps above should work), turn in the .Rmd file. The benefit of the 'nb' file is that it has both the html output and the the .Rmd source code in one file (two for one).

You will be peer and instructor graded based on the readability and reproducibility of your code.