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| **CSDE 502 2021**  **Assignment 1**  ***Introduction to R Markdown***  **Instructor: Phil Hurvitz**  [**phurvitz@uw.edu**](mailto:phurvitz@uw.edu) | **My Name:**  **My UWNetID:** |

**Due Date: 2021-01-15 09:00**

**Instructions:**

1. Fill out your name and UWNetID at the top of this page.
2. Add your answers to this document.
3. Use the "00Answers" Word style for your answers so they will be clearly discernible from the questions.
4. When you are completed with your work, create a PDF from the Word document.
5. Name your PDF document with the pattern UWNetID\_HW\_n.pdf where UWNetID is your UWNetID and n is the week number when the homework was assigned. For example, the first assignment by me would be named *phurvitz\_HW\_01.pdf*. Upload your completed document to Canvas.
6. Upload any specified data or code files to Canvas.

**Explanation:**

For this assignment, you will be looking in detail at the file week\_01.Rmd (<http://staff.washington.edu/phurvitz/csde502_winter_2021/files/week_01.html>), examining some code that creates a set of files with different names, and suggesting better file names for a list of files.

If you are not familiar with R Markdown format, these resources will be helpful, or others you can find by performing a web search for “R Markdown”:

<https://rstudio.com/wp-content/uploads/2016/03/rmarkdown-cheatsheet-2.0.pdf>

<https://www.dataquest.io/blog/r-markdown-guide-cheatsheet/>

Within RStudio, you can also see:

Help > Cheatsheets > R Markdown Cheat Sheet

Help > Cheatsheets > R Markdown Reference Guide

**Questions:**

1. For week\_01.Rmd:
   1. Explain what the **output** code in the front matter/YAML header of the Rmd file does.
   2. Explain how the **kableExtra** package is used in the Rmd file.
   3. Describe how captions and cross-references are implemented in this Rmd with the **captioner** package.
2. Download and run the file <http://staff.washington.edu/phurvitz/csde502_winter_2021/files/file_naming.R> and briefly comment on different approaches to naming files.
3. Download the file <http://staff.washington.edu/phurvitz/csde502_winter_2021/files/example_filenames.csv> and produce a table with the original file name and your suggestion for a better file name.