HW6 – Burlington Police data and R Markdown

1. **Open the script BPDS19.R.**  Write code to complete each coding task, and include comments to answer interpretation questions. We will do the first few parts in class.
2. **Create an Rmd file** that will present the plots and table in part 1 in an attractive HTML document:
   1. In R Studio, click File, then New File, then R Markdown. Select the default template to create an Rmd file (that is, an HTML Document). Give the document an appropriate title, and enter your name as the Author. Click OK.
   2. Edit the template Rmd file. That is, replace the text with a description of the police data.
      1. **Write** **one part at a time**, and check after each new part. Click the arrow on the right of each chunk to ‘Run Current Chunk’. Or… click Knit HTML in R Studio to run the whole thing each time. On each chunk, **be sure that the R code shows up** in the HTML version.
      2. Begin the Rmd with a brief description of the data.
      3. The next code chunk should read in the data. You’ll either need a full path to the data, or use a setwd() in your code, then read the file in by name. At this point, you’ll also load dplyr, ggplot2, lubridate, and leaflet. Then use lubridate, etc. to create the new variables Day, Month, etc., and prepare data. (see code in BPDS19.R for help)

* + 1. Each later code chunk should produce one of the plots or the table that you completed in part 1. Each should be followed by a text section. Each text section should give a title, and describe the output, drawing from your answers in part 1.
    2. Try to make the display look ‘pretty,’ i.e., nice big headings for each section.

1. When your HTML file looks good, **upload only the Rmd file** to the homework link on Blackboard.