

Statistical Methods for Data Science

Mini Project 2

Read the handout about map making in R for a prototype example. Note that Alaska and Hawaii are not included in this example.

Exercise 1 (10 points):

- (a) Use R to make a map of state-by-state percentage vote share of President Trump in the 2016 US presidential election. The data are stored in a CSV file on eLearning. Be sure to include Alaska and Hawaii in your map. Get the color scheme in your map to look like the one shown at

http://projects.fivethirtyeight.com/2016-election-forecast/?ex_cid=rrpromo

(for an unrelated dataset). It uses shades of red for Donald Trump and shades of blue for Hillary Clinton.

- (b) What does the map show? Justify your conclusions.

Instructions:

- Due date: Thursday, February 16.
- Total points = 20.
- Submit a typed report.
- You can work on the project either individually or in a group of no more than two students. In case of the latter, submit only one report for the group, and include a description of the contribution of each member.
- Do a good job.
- You must use the following template for your report:

Mini Project #

Name

Names of group members (if applicable)

Contribution of each group member

Section 1. Answers to the specific questions asked.

Section 2: R code. Your code must be annotated. No points may be given if a brief look at the code does not tell us what it is doing.