Take Home Quiz 2

Due at the start of class on October 20

This quiz should take you approximately 25 minutes. There are 5 questions worth a total of 50 points. You may use R, the internet, and any reference material, but do not work together and do not get help (except from Dr. Clair).

You may print out results and hand them in, or email your work to bryan@slu.edu.

The first three questions use the Pitching data from the Lahman library, which contains pitching statistics per player per season for all of baseball history.

A “complete game” for a pitcher means that pitcher started the game and pitched the whole game.

Question 1

a. Which pitcher had the most complete games (CG) in a season? What year was that?

b. Which pitcher has the most career complete games (CG)?

Question 2

Which pitcher has the most career games started (GS) without ever pitching a complete game? How many games has he started?

Question 3

Make a plot showing the total number of complete games per year, so you can see the downward trend since 1900.

Question 4

a. How many McDonald’s of each storeType are there in Missouri?

b. Make a bar chart to display this information.

Question 5

Plot the locations (long, lat) of all Missouri McDonald’s. Plot each storeType in a different color.

Bonus (+5 points)

Use ggrep to put your plot of McDonald’s locations on top of a map of the state of Missouri.