Advanced R Programming for Bioinformatics

Exercises for Session 2: Graphics.

The course site contains the data file SEAflight.csv, of information on all flights in and out of Seattle-Tacoma airport, during 2008. The accompanying file airportlocations.csv contains the geographic location of the destination/departure airports.

1. Using hexbin() from the hexbin package, illustrate which areas of the US have most flights to and from Seattle
2. Using transparent colors, indicate the areas of the US most overflown by flights in and out of Seattle. (Hint: use straight lines as a first attempt, then use gcIntermediate() in the geosphere package to provide great circle routes. You may also find the maps package useful)
3. Using coplot(), can you find any differences in Arrival Delay - Departure Delay, given airline, and destination/departure airport?
4. Explore this dataset, and illustrate what else you find.