Advanced R

The site for this course is

`http://faculty.washington.edu/kenrice/sisg-adv/`

… please make sure you can access this page

Exercises for Session 1: 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.