

Computing for Statistical Genetics

Exercises for Session 3: Advanced Graphics.

The course site contains the data file `SEAflightslocs.csv`, of information on all flights in and out of Seattle-Tacoma airport, during 2008. The longitude and latitude of these flights' origin and destination are also included.

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 overflowed 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.