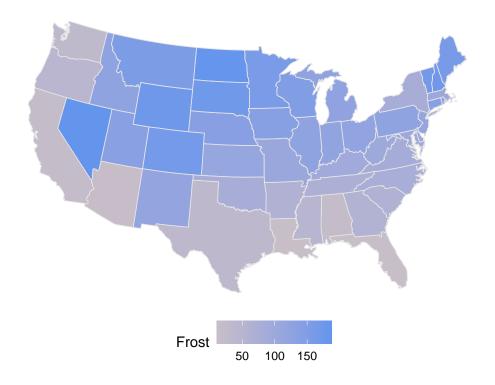
## Assignment 6

### Sophie Giacobbe

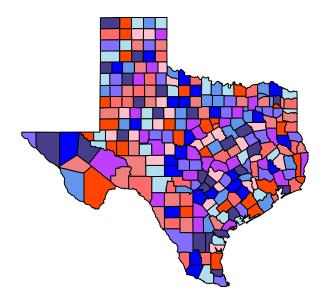
3/6/2023

```
#load in necessary packages
library(dplyr)
library(dbplyr)
library(ggplot2)
library(maps)
library(mapproj)
#load in state data
data(state)
state data <- as.data.frame(state.x77) |>
 mutate(region = tolower(state.name))
us_states <- map_data("state")</pre>
state_map <- left_join(us_states, state_data, by = "region")</pre>
#group by state, then show number of days of frost via map
ggplot(state_map, aes(x = long, y = lat, group = group)) +
  geom_polygon(aes(fill = Frost), color = "grey90", size = 0.3) +
  coord_map(projection = "albers", lat0 = 39, lat1 = 45) +
  scale_fill_gradient2(mid = "lavenderblush3", high = "cornflowerblue") +
  theme_void() +
  theme(legend.position = "bottom") +
  labs(title = "Number of Days of Frost", subtitle = "Grouped by State")
```

### Number of Days of Frost Grouped by State

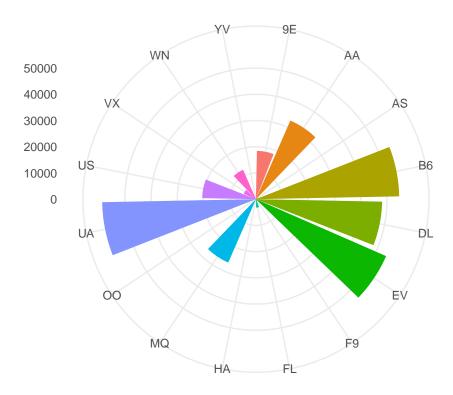


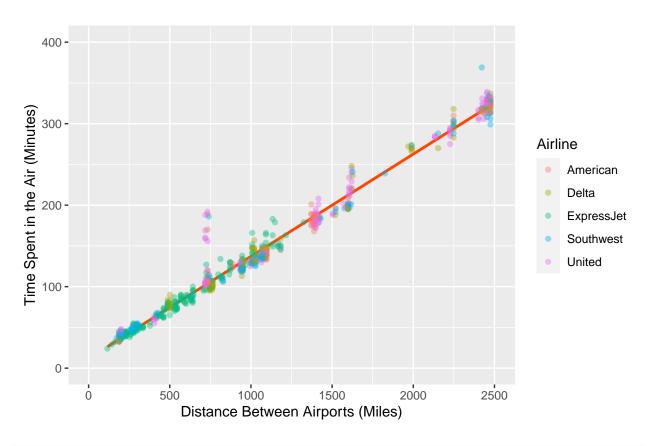
```
#show counties in Texas
map('county', 'texas', fill = TRUE, col = c("slateblue1", "orangered", "lightcoral",
"indianred1", "blue", "darkslateblue", "darkorchid1", "pink", "lightblue2", "cornflowerblue"))
```



```
#load in flight data
flights <- nycflights13::flights</pre>
```

#### Most Popular Airlines in 2013





# Departing Flights on September 19, 2013

