Activity 9: Dates and times

2024-02-27

Getting data from the internet, using lubridate, learning a new plot.

The goal of this exercise is to use our skills to get data from online, transform the date/time, and learn how to make a new plot (ridgeline plot). The data we will use for this exercise is the biketown data.

Question 1:

- Get the data about rides in January, July, and November of 2017, and **bind** them into a single data frame using `bind_rows`: (Hint: use the `readr::read_csv` function to directly read the csv from the url pointing to the data)

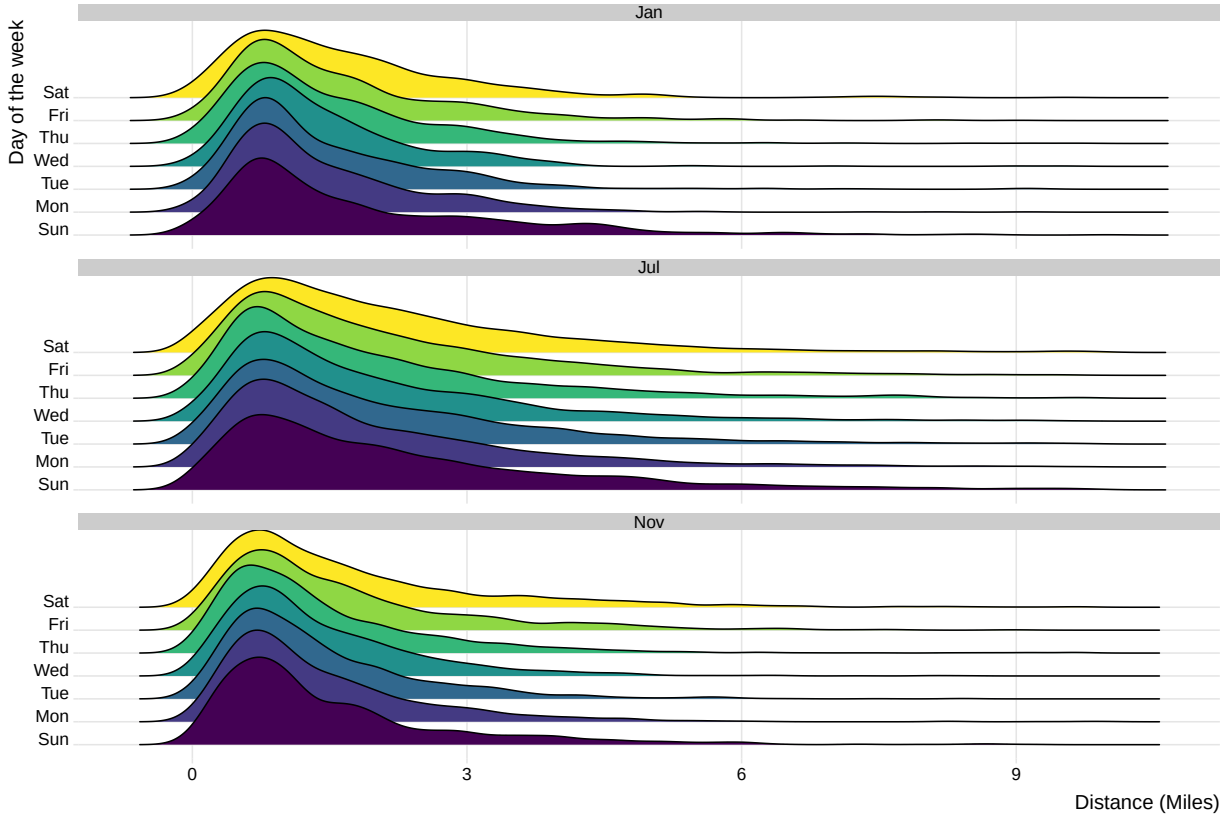
```
biketown_data <- bind_rows(bk_jan, bk_jul, bk_nov) %>%
  select(StartDate, StartTime, EndDate, EndTime, Distance_Miles,
         BikeID)
```

Question 2:

- Reproduce the plot below, using the `lubridate` functions(`mdy`, `ymd_hms`, `wday`, `month`):

```
biketown_dt <- biketown_data %>%
  mutate()%>%
  filter(Distance_Miles < 10) # filter for outlying trips!

biketown_dt %>%
  ggplot(aes(y =..., x = Distance_Miles, fill = ...)) +
  geom_density_ridges(scale = 4) +
  facet_wrap(~ ..., nrow = 3) +
  labs(x = 'Distance (Miles)', y = 'Day of the week') +
  theme_ridges() +
  theme(legend.position = 'none')
```


Jan
Jul
Nov
Day of the week
Sat
Fri
Thu
Wed
Tue
Mon
Sun
0
3
6
9
Distance (Miles)