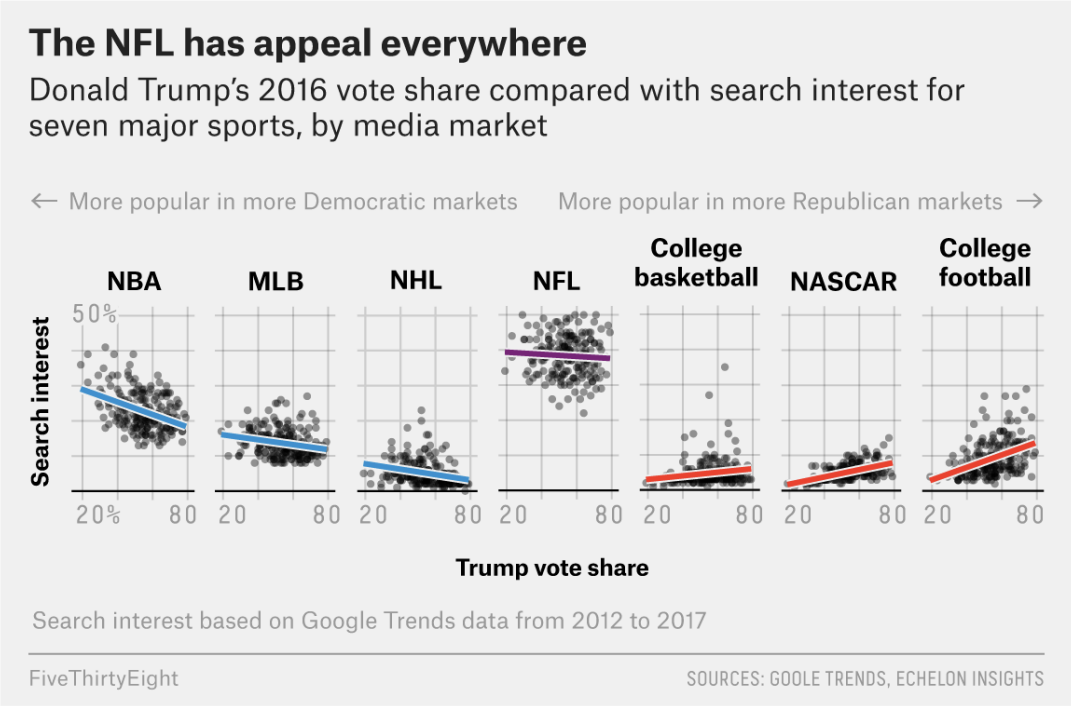
Grammar of Graphics: Points, Lines, and Facets

How do NFL fans lean politically?
https://fivethirtyeight.com/features/how-every-nfl-teams-fans-lean-politically/



Directions:

- Use R to recreate a graphic provided. I will provide the data (don't worry about cleaning the data)

  - **Tasks:**
    - Identify/implement the major geometry (or geometries) used
    - Identify/implement the main components of the aesthetic mapping (color, size, shape, transparency, ..)
    - Identify/implement any transformations on the scales or axes and using faceting, when necessary
    - Label the axes and providing a title
  - *Please don't worry about polishing to perfection*
    - You don't need to worry about making the lines different colors, but you can if you'd like to take on the challenge.

How to access the data:

```
# Load the tidyverse
library(tidyverse)

# Import data
sports<-read.csv("https://raw.githubusercontent.com/kitadasmalley/FA2020_DataViz/main/data/NFL_fandom_data.csv",
                 header=TRUE)
```

Hints/Tips…. You might want to...

1. **Tidy the data:**

```
# Tidy the data
## Use gather to create:
### column for sport (categorical variable)
### Column for search interest (numeric - percent)

sportsT<-sports%>%
  gather("sport", "searchInterest",-c(DMA, PctTrumpVote))
```

2. **Relevel the data so that its in the right order:**

```
# Level the sport variable so that its in the right order
sportsT$sport<-factor(sportsT$sport,
                      level=c("NBA", "MLB", "NHL", "NFL", "CBB", "NASCAR", "CFB"))
```