GIS III: Lab 3

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```
library(tidyverse)
library(tidycensus)
library(tigris)
library(sf)
library(ggplot2)
library(tmap)
library(jsonlite)
```

This project maps the bikeshare json file obtained from bayareabikeshare.com, and San Francisco census tracts obtained from the US Census API.

Step 1: Prepare Shapefile

Get California census tract shapefile

Get tracts in San Francisco county that have a population greater than 0 This eliminates an island off the Pacific Coast, which has no residents

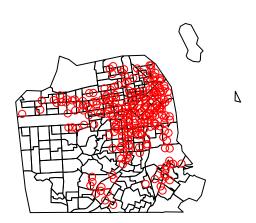
```
sf_tracts <- ca_tracts %%
filter(str_detect(NAME, 'San Francisco')) %>%
filter(estimate > 0)

plot(sf_tracts['geometry'])
```



Step 2: Prepare Bikeshare Points

Get Bay Area bikeshare data and convert lat-long coordinates to point data



Step 3: Create Final Map

