

homework iii

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Introduction

(Introductory text should go here.)

Initialization

Here we load the tidyverse packages and the `data.table` package and load the nyc311 data set. Then we fix the column names of the nyc311 data so that they have no spaces.

```
library(tidyverse)
library(data.table)
#nyc311<-fread("311_Service_Requests_from_2010_to_Present.csv")
#names(nyc311)<-names(nyc311) %>%
#  stringr::str_replace_all("\\s", ".")
#mini311<-nyc311[sample(nrow(nyc311),10000),]
#write.csv(mini311,"mini311.csv")
```

```
sample<-fread("mini311.csv")
```

```
complaintlocs <- sample %>%
  select(Complaint.Type,
    Longitude,
    Latitude
  )
noisecompl <- complaintlocs %>%
  filter(Complaint.Type == "Noise")
```

```
library(ggmap)
key <- "AIzaSyALGPG7HuKmfCXM-wkPRicdGVoayHlyyrU"
register_google(key=key)
nyc_map <- get_map(location=c(lon=-73.9,lat=40.75),
  maptype="terrain",zoom=10)
```

```
## Source : https://maps.googleapis.com/maps/api/staticmap?center=40.75,-73.9&zoom=10&size=640x640&scal
```

```
map <- ggmap(nyc_map) +
  geom_point(data=noisecompl,aes(x=Longitude,y=Latitude),
    size=0.4,alpha=0.2,color="red") +
  ggtitle("Map of Sample") +
  theme(plot.title=element_text(hjust=0.5)) +
  xlab("Longitude") + ylab("Latitude")
map
```

```
## Warning: Removed 10 rows containing missing values (geom_point).
```

Map of Sample

