

# 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)
```

```
## -- Attaching packages -----  
  
## v ggplot2 3.3.2      v purrr  0.3.4  
## v tibble  3.0.3      v dplyr  1.0.2  
## v tidyr   1.1.2      v stringr 1.4.0  
## v readr   1.3.1      v forcats 0.5.0  
  
## -- Conflicts -----  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag()    masks stats::lag()
```

```
library(data.table)
```

```
##  
## Attaching package: 'data.table'  
  
## The following objects are masked from 'package:dplyr':  
##  
##     between, first, last  
  
## The following object is masked from 'package:purrr':  
##  
##     transpose
```

```
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")
```

```
install.packages("devtools",dependencies=TRUE,
  repos = "http://cran.us.r-project.org",
  force = TRUE)
```

```
##
## The downloaded binary packages are in
## /var/folders/Od/wphz34ws47jb2j0qsh3dbplw0000gn/T//Rtmp1qgKJn/downloaded_packages
```

```
library(devtools)
```

```
## Loading required package: usethis
```

```
install_github("dkahle/ggmap",ref="tidyup")
```

```
## Skipping install of 'ggmap' from a github remote, the SHA1 (2d756e5e) has not changed since last ins
## Use 'force = TRUE' to force installation
```