

# 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")
```

```
install.packages("devtools",dependencies=TRUE)
```

```
## Installing package into '/Users/mjmics/Library/R/3.5/library'
## (as 'lib' is unspecified)
```

```
## Warning: dependency 'BiocInstaller' is not available
```

```
##
```

```
##   There is a binary version available but the source version is
##   later:
```

```
##           binary source needs_compilation
```

```
## devtools 1.13.6  2.0.1                FALSE
```

```
## installing the source package 'devtools'
```

```
library(devtools)
```

```
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
```