

Urban Economics Coding Overview

Erik Johnson

8/31/2020

Required Software

1. R: <https://www.r-project.org/>
2. R Studio: <https://rstudio.com/>
3. LaTeX:
 - a. Windows: <https://miktex.org/>
 - b. Mac: <http://www.tug.org/mactex/>
 - c. Linux: <https://www.tug.org/texlive/>

R packages

1. data.table
2. ggplot2
3. lubridate
4. stringr
5. stargazer

```
# Install the packages (only need to do this once)
install.packages('data.table')
install.packages('ggplot2')
install.packages('lubridate')
install.packages('stringr')
install.packages('stargazer')
```

```
# Load the packages into the current workspace
library(data.table)
# library(ggplot2)
suppressMessages(library(lubridate))
library(stringr)
suppressMessages(library(stargazer))
```

Import some data

```
dt <- data.table::fread('Data/dataset1.csv')
```

Describe Data

```
stargazer::stargazer(dt, header=FALSE,  
                      title = "Descriptive Statistics for Denver Estabs",  
                      label = 'descriptiveStats')
```

Table 1: Descriptive Statistics for Denver Estabs

| Statistic | N | Mean | St. Dev. | Min | Pctl(25) | Pctl(75) | Max |
|-----------|--------|-----------|-----------|----------|----------|----------|----------|
| NAICS | 45,237 | 5,280.076 | 1,531.003 | 1,111 | 4,441 | 6,211 | 9,999 |
| Lat | 45,237 | 39.726 | 0.070 | 39.600 | 39.676 | 39.769 | 39.900 |
| Long | 45,237 | -104.988 | 0.089 | -105.200 | -105.053 | -104.926 | -104.800 |
| Emps | 45,237 | 17.733 | 125.788 | 1 | 2 | 12 | 12,303 |

Look at Table 1.

Reference Data

```
mean_lat <- mean(dt$Lat)  
mean_lon <- mean(dt$Long)  
  
mh_capacity <- 65000
```

This is Section

The mean latitude of establishments in Denver is 39.726.

The capacity of Mile High Stadium was 65,000.