

Assignment_1

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Introduction

This R-markdown document will serve as assignment 1. In it I will first make use of the R-markdown language to write a PDF. Then I will import a csv and a json into RStudio.

Data Aquisition

All data used was aquired from data.gov. Specifically, the data set *Somerville Police Officer Crash Report 2010-August 2015* was used.

Reading the CSV

First, the data was read as a csv file from the following

```
csv_url <- "https://data.somervillema.gov/api/views/jdcq-3gza/rows.csv?accessType=DOWNLOAD"
```

This is then easily read into memory with the download command

```
download.file(csv_url, "~/MyDir/Crash.csv")
```

where MyDir can be anypath of choice.

Reading from JSON

Reading from a JSON isn't particulary more difficult. However, it does require a new R library. There are three to choose from: `rjson`, `rjsonlite`, or `RJSONIO`. For our purposes, we will use `rjsonlite`.

First the `rjsonlite` library must be loaded

```
library("rjsonlite")
```

Then we specify the url to download the JSON from

```
json_url <- "https://data.somervillema.gov/api/views/jdcq-3gza/rows.json?accessType=DOWNLOAD"
```

At this point we use the 'fromJSON' to conviniently read the file into RStudio

```
JSONData <- fromJSON(json_url)
```