

Map Guide

Tess Harkin

2017-09-12

```
#load the data you will be mapping with  
grocery_stores <- read.csv("Downloads/Grocery_Store_Locations.csv")
```

```
install.packages("ggmap", repos = "https://cran.r-project.org/web/packages/ggmap/index.html" ) # install ggmap package
```

```
## Warning: unable to access index for repository https://cran.r-project.org/web/packages/ggmap/index.html/src/contrib:  
## cannot download all files
```

```
## Warning: package 'ggmap' is not available (for R version 3.3.2)
```

```
## Warning: unable to access index for repository https://cran.r-project.org/web/packages/ggmap/index.html/bin/macosx/mavericks/contrib/3.3:  
## cannot download all files
```

```
library("ggmap") # load ggmap
```

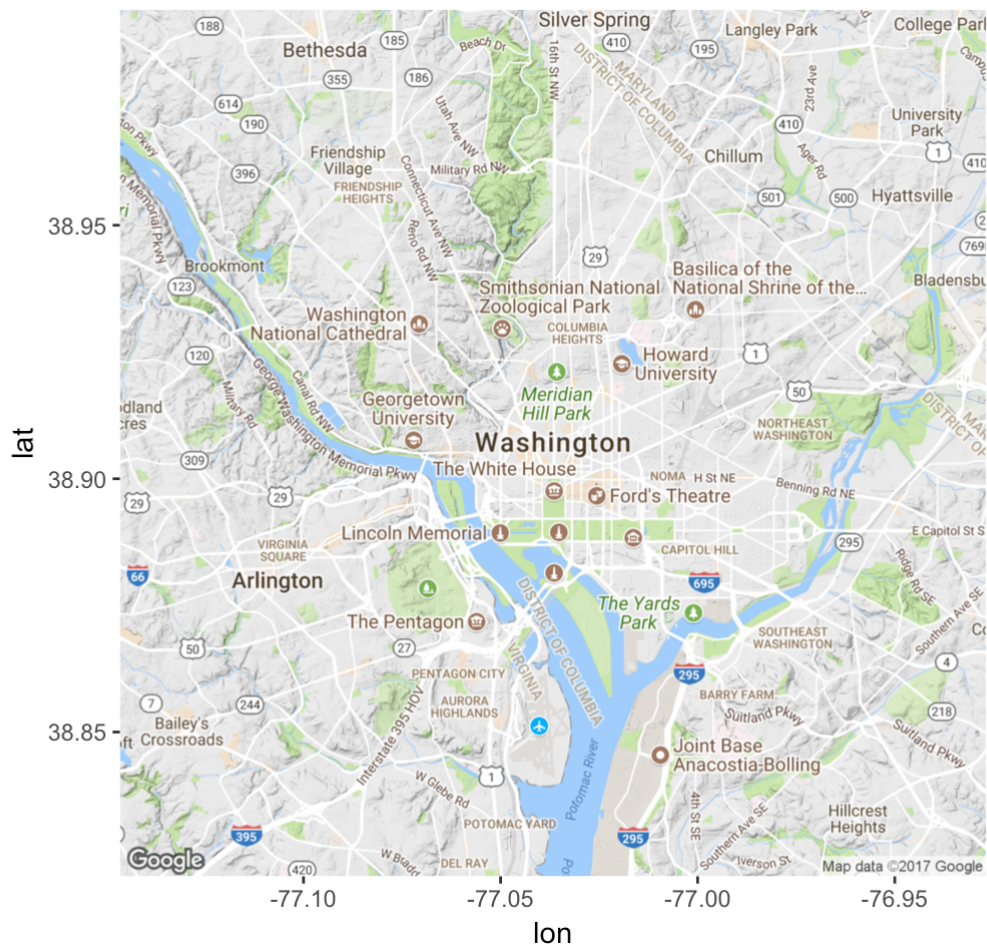
```
## Loading required package: ggplot2
```

```
grocery_stores.map <- get_map("Washington, DC", zoom = 12)
```

```
## Map from URL : http://maps.googleapis.com/maps/api/staticmap?center=Washington,+DC&zoom=12&size=640x640&scale=2&maptype=terrain&language=en-EN&sensor=false
```

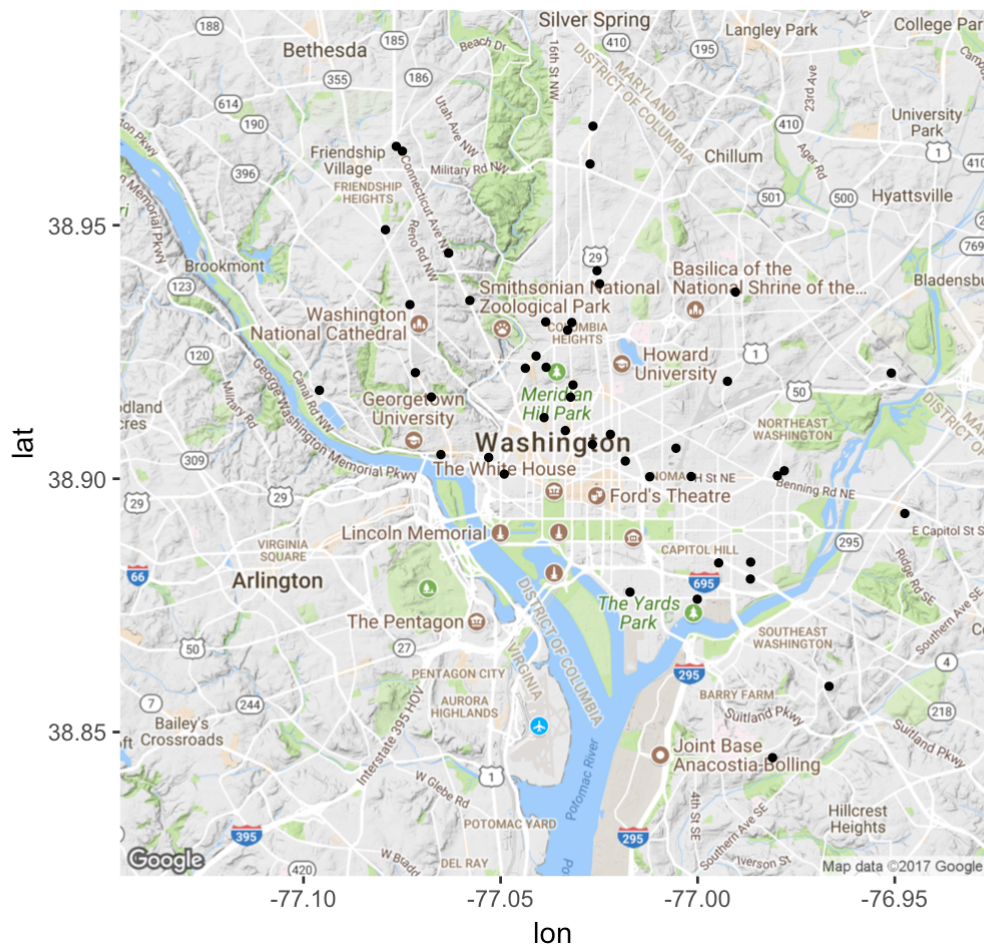
```
## Information from URL : http://maps.googleapis.com/maps/api/geocode/json?address=Washington,%20DC&sensor=false
```

```
ggmap(grocery_stores.map) # this will create a map of Washington, DC
```



*#This is how you plot points on the map. aes() determines what points you are plotting.
You can look at your data to see how lat/lon are labeled.*

```
ggmap(grocery_stores.map) + geom_point(data = grocery_stores, aes(X, Y), size = 1)
```



#You can change the color of the points. To change the style of the points or the size, add that after aes().

```
ggmap(grocery_stores.map) + geom_point(data = grocery_stores, aes(X, Y, col = WARD), pch = 22, size = 3)
```

