S# 1 - Map

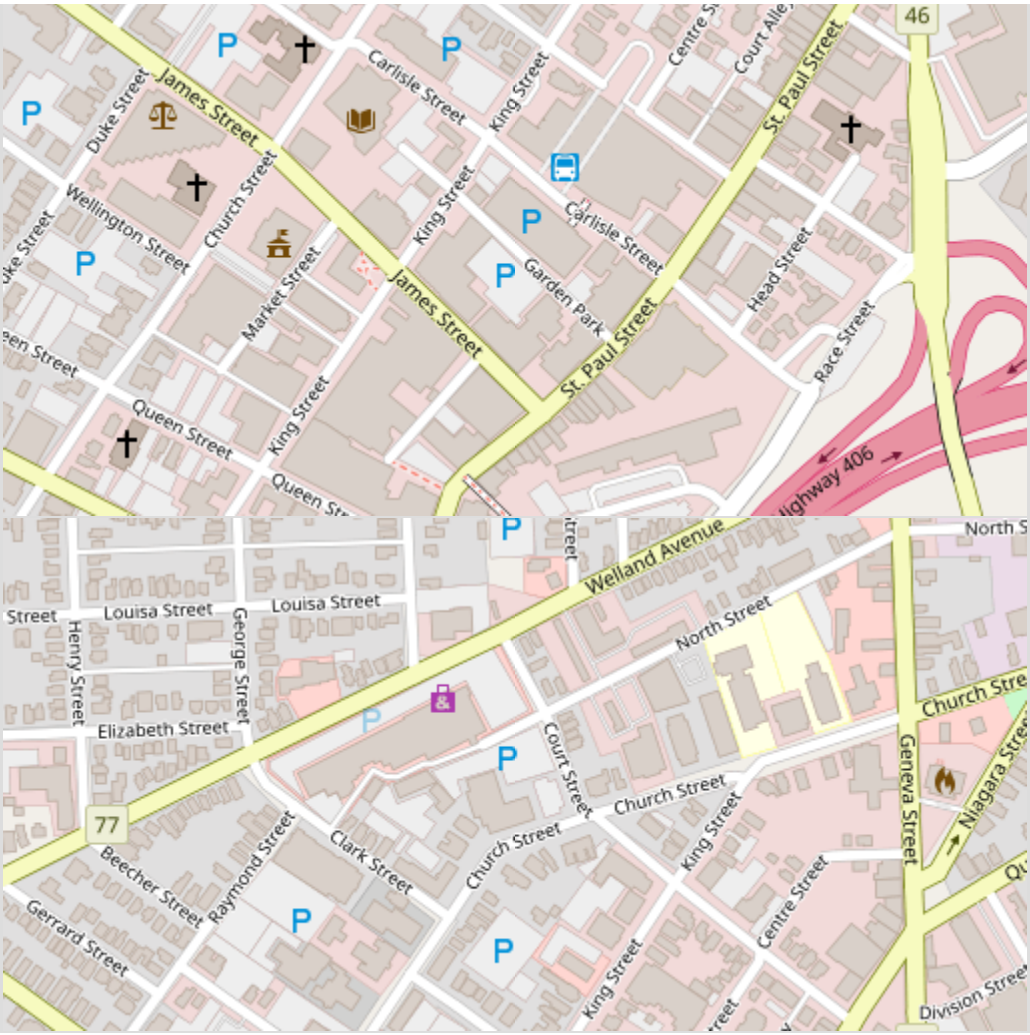
Peer-graded Assignment: R Markdown and Leaflet

Create a web page using R Markdown that features a map created with Leaflet.

Host your webpage on either GitHub Pages, RPubs, or NeoCities.

Your webpage must contain the date that you created the document, and it must contain a map created with Leaflet. We would love to see you show off your creativity!

```
library(leaflet)
my_map <- leaflet() %>% addTiles()
my_map <- my_map %>% addMarkers(lat=43.1594, lng= -79.2469, popup="My Office")
my_map
```



S# 2 - Create a web page using R Markdown that features a map created with Leaflet.

Problem Description

Host your webpage on either GitHub Pages, RPubs, or NeoCities.

Your webpage must contain the date that you created the document, and it must contain a map created with Leaflet. We would love to see you show off your creativity!

Using required Packages

```
library(leaflet)
## Warning: package 'leaflet' was built under R version 3.4.4
library(htmltools)
## Warning: package 'htmltools' was built under R version 3.4.4
```

Accessing the data from .csv text file

From Kagle: Dataset about the best restaurants in the world. By Megh Mayur. Contains the list of The World's 50 Best Restaurants for 2018 (https://www.kaggle.com/mmayur/the-worlds-50-best-restaurants)

```
setwd("c:/users/MartaT/Documents/datasets/")
datamap <- read.csv(file = "TheWorlds50BestRestaurants2018.csv", header = TRUE, sep = ","
)
```

Creating my data frame in order to manipulate the dataset like a table.

```
mimapa <- data.frame(Ranking = datamap$Ranking,
                     Name = datamap$Name,
                     City = datamap$City,
                     Country = datamap$Country,
                     Latitude = datamap$Latitude,
                     Longitude = datamap$Longitude
                     )
```

Activating the Map

```
map <- mimapa %>%
  leaflet() %>%
  addTiles() %>%
```

```
  addMarkers(popup=paste
             ("<br>Country: ",
               htmlEscape(mimapa$Country),
              "<br>City: ",
               htmlEscape(mimapa$City),
              "<br>Restaurant: ",
               htmlEscape(mimapa$Name),
              "<br>Ranking: ",
               formatC(datamap$Ranking, format = "d", big.mark = ",")
              )
            )
## Assuming "Longitude" and "Latitude" are longitude and latitude, respectively
map
```

S# 3 - Create a web page using R Markdown and Leaflet.

Olivier Detandt

25 October 2017

Introduction

This is an Coursera project defined as follow= “Create a web page using R Markdown that features a map created with Leaflet.

Host your webpage on either GitHub Pages, RPubs, or NeoCities.

Your webpage must contain the date that you created the document, and it must contain a map created with Leaflet. We would love to see you show off your creativity!"

Data plotted

The data used come from http://www.worldatlas.com/articles/most-dangerous-cities-in-the-united-states.html

This show the most Dangerous Cities In The United States

```
setwd("C:/Users/olivier.detandt/Documents/Doc/DataScience/Product Development")
data<-read.csv("Map.csv",sep=";")


library(leaflet)
## Warning: package 'leaflet' was built under R version 3.4.2
my_map <- data %>%
        leaflet() %>%
        addTiles() %>%
        setView(lng = -85, lat = 40, zoom = 5) %>%

        addMarkers(popup = "Test",
                   lng = data$Lat,
                   lat = data$Long)%>%
        addCircles(weight=1,radius=sqrt(data$HomicieRate)*30000)


my_map
```


West Union
Shawnee State Forest
Portsmouth
Wayne National Forest Ironton Unit
Vanceburg
Ironton
Ashland
Huntington
Grayson
Chillicothe
Hillsboro
Jackson
Wayne
West Liberty
Paintsville