Developing Data Products - Week 2 Assignment

Henry CY Wong

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1. Introduction

The objective of this assignment is used to create a map with using **Leaflet** in a web page. I would like to use this opportunity to show the location of some sightseeing points in Hong Kong as well.

2. Build the Map with Leaflet

First of all, let's load the **Leaflet** library.

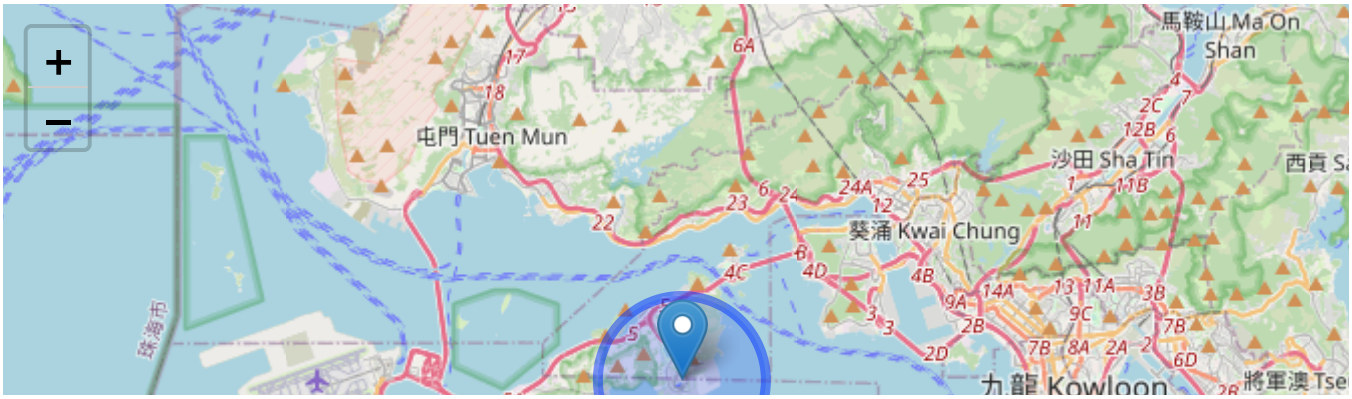
```
library(leaflet)
```

Then, the latitudes, longitude sand pop-up texts of Hong Kong sightseeig points are assigned as follows:

```
mylat <- c(22.312771, 22.246560992402, 22.271121, 22.254106)
mylng <- c(114.041931, 114.1753523356, 114.150233, 113.905144)
mypopup <- c("Disneyland, Hong Kong", "Ocean Park, Hong Kong", "The Peak, Hong Kong",
"Tian Tan Buddha, Hong Kong")
mypopularity <- c(1, 4, 10, 7)
```

Finally, the map of Hong Kong sightseeing points are built as below:

```
mymap <- leaflet() %>%
    addTiles() %>%
    addMarkers(lat = mylat, lng = mylng, popup = mypopup, clusterOptions = markerClus
terOptions()) %>%
    addCircleMarkers(lat = mylat, lng = mylng, radius = (sum(mypopularity) - mypopula
rity) * 2)
mymap
```



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