## Developing Data Products - Module 3 Week 2 Peer-graded Assignment

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## Introduction

In this assignment, I have created a web page using R Markdown that features a map created with Leaflet and host my webpage on GitHub Pages. The webpage contains the date that I created the document, and a map created with Leaflet.

Welcome to my interactive map project created using R and Leaflet!

In this assignment, I've marked several meaningful locations around Kuala Lumpur, Malaysia: - My **residential area**: Bandar Utama 12 - My **workplace**: University of Malaya (UM) - The **city center** of Kuala Lumpur

These places reflect my everyday life — from where I live, to where I work, to the vibrant city and state I'm proud to be part of. Scroll down to explore the map and click on each point to learn more!

## Installation

To use Leaflet in R, install the package (if you haven't already):

install.packages("leaflet")

My First Leaflet Map: Create an interactive map using Leaflet in R that marks 3 of my favorite locations.

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```
library(leaflet)
# Updated data frame without state
my_places <- data.frame(</pre>
 name = c("♠ Bandar Utama 12 - My neighborhood",
           "<b>
¶ University of Malaya — My workplace</b>
<br>
<a href='https://www.um.edu.my'</a>
target='_blank'>Visit UM Website</a>",
           "Mala Lumpur City Center"),
 lat = c(3.1387, 3.1205, 3.1390),
 lng = c(101.6158, 101.6544, 101.6869)
)
# Leaflet map with clustering and rectangle
leaflet(data = my_places) %>%
  addProviderTiles("CartoDB.Positron") %>%
 addMarkers(~lng, ~lat, popup = ~name,
             clusterOptions = markerClusterOptions(),
             popupOptions = popupOptions(maxWidth = 300)) %>%
 # Add rectangle around Bandar Utama 12
  addRectangles(
   lng1 = 101.6125, lat1 = 3.1360, # Southwest corner
   lng2 = 101.6190, lat2 = 3.1410, # Northeast corner
   fillColor = "blue",
   fillOpacity = 0.1,
   color = "blue",
   weight = 2,
   popup = " Nea: Bandar Utama 12"
  )
```

## This is my Output



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