

# Interactive Map with Leaflet (Johns Hopkins University Data Science Certification: Data Products Course Project)

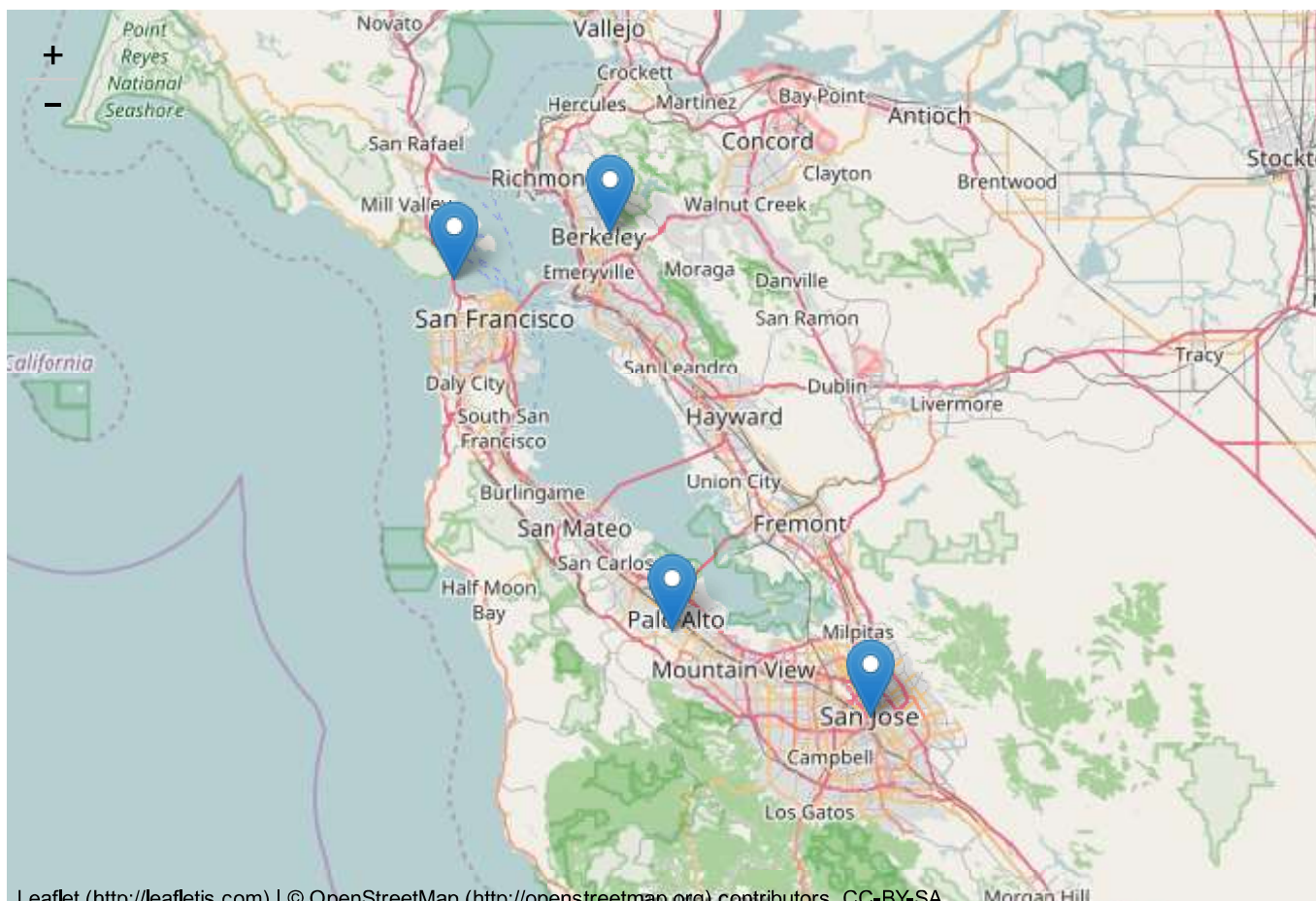
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Map created in R Studio using leaflet (<https://rstudio.github.io/leaflet/>) and annotations with R markdown

1. Some Northern California Points of Interest: Golden Gate Bridge, UC Berkeley, Stanford University, and Silicon Valley Tech Museum (click the markers to show popups for the locations)

```
library(leaflet)
mapNorcal = leaflet() %>%
  addTiles() %>%
  addMarkers (lat= 37.819722, lng= -122.478611, popup="Golden Gate Bridge")%>%
  addMarkers (lat= 37.4275, lng = -122.1697, popup="Stanford University")%>%
  addMarkers (lat= 37.8719, lng = -122.2585, popup="University of California Berkeley")%>%
  addMarkers (lat= 37.3316, lng= -121.8901, popup="Silicon Valley Tech Museum")
mapNorcal
```



Source: (http://leafletjs.com/) | © OpenStreetMap (http://openstreetmap.org) contributors, CC-BY-SA  
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2. Two major Northern California Cities: San Francisco and San Jose. Circles are added using the addCircles() function in leaflet. Click circles to show city name and population.

```
cities <- read.csv(textConnection("
City,Lat,Long,Pop
San Francisco,37.78, -122.41,864816
San Jose,37.35,-121.85,1026938"))
leaflet(cities) %>%
  addTiles() %>%
  addCircles(lng = ~Long, lat = ~Lat, weight = 2, radius = ~sqrt(Pop)*10, popup=~paste(City,
",", population=" ", Pop)
)
```

