Week 9 & 10

Code

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```
#load libraries
library(ggplot2)
library(dplyr)
library(tidyr)
library(tidyverse)
library(hrbrthemes)
library(pivottabler)
library(areaplot)
```

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```
#import data
nba = read.csv("C:\\Users\\longr\\Documents\\DSC 640\\Week 9 & 10\\5.2 Exercises\\ppg2008.csv",h
eader=TRUE, row.names="Name")
costco = read.csv("C:\\Users\\longr\\Documents\\DSC 640\\Week 9 & 10\\5.2 Exercises\\costcos-geo
coded.csv")
```

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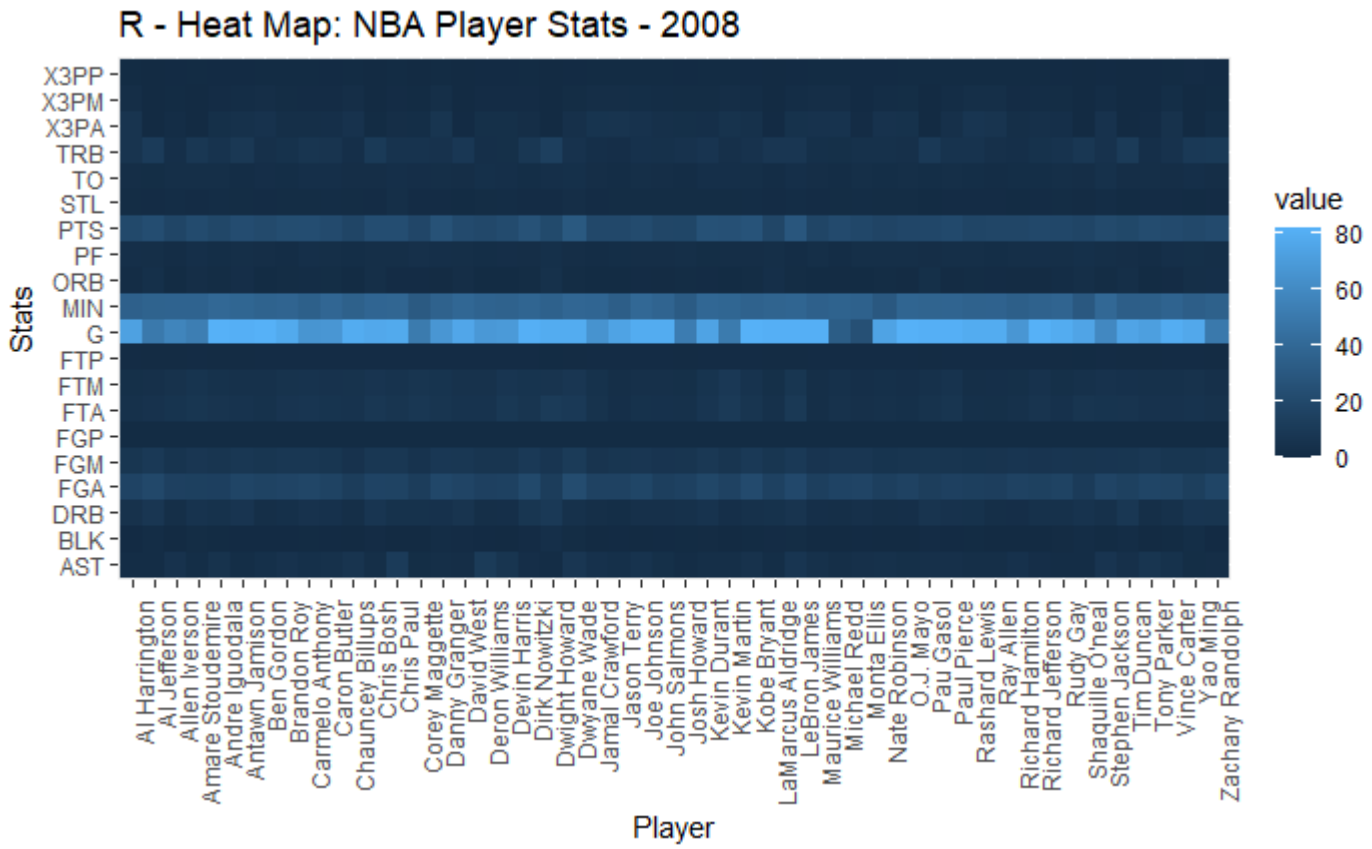
```
#Heat map
nbaheat <- nba%>%
  rownames_to_column() %>%
  gather(colname, value, -rowname)

ggplot(nbaheat, aes(x = rowname, y = colname, fill = value)) +
  geom_tile()+xlab("Player")+ylab("Stats")+
  ggtitle("R - Heat Map: NBA Player Stats - 2008")+
  theme(axis.text.x = element_text(angle=90, hjust=1))
```



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```
#Spatial Chart
#https://r-charts.com/spatial/bubble-map/
#https://r-spatial.org/r/2018/10/25/ggplot2-sf-2.html
```

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```
library("rnaturalearth")
library("rnaturalearthdata")

world <- ne_countries(scale = "medium", returnclass = "sf")
```

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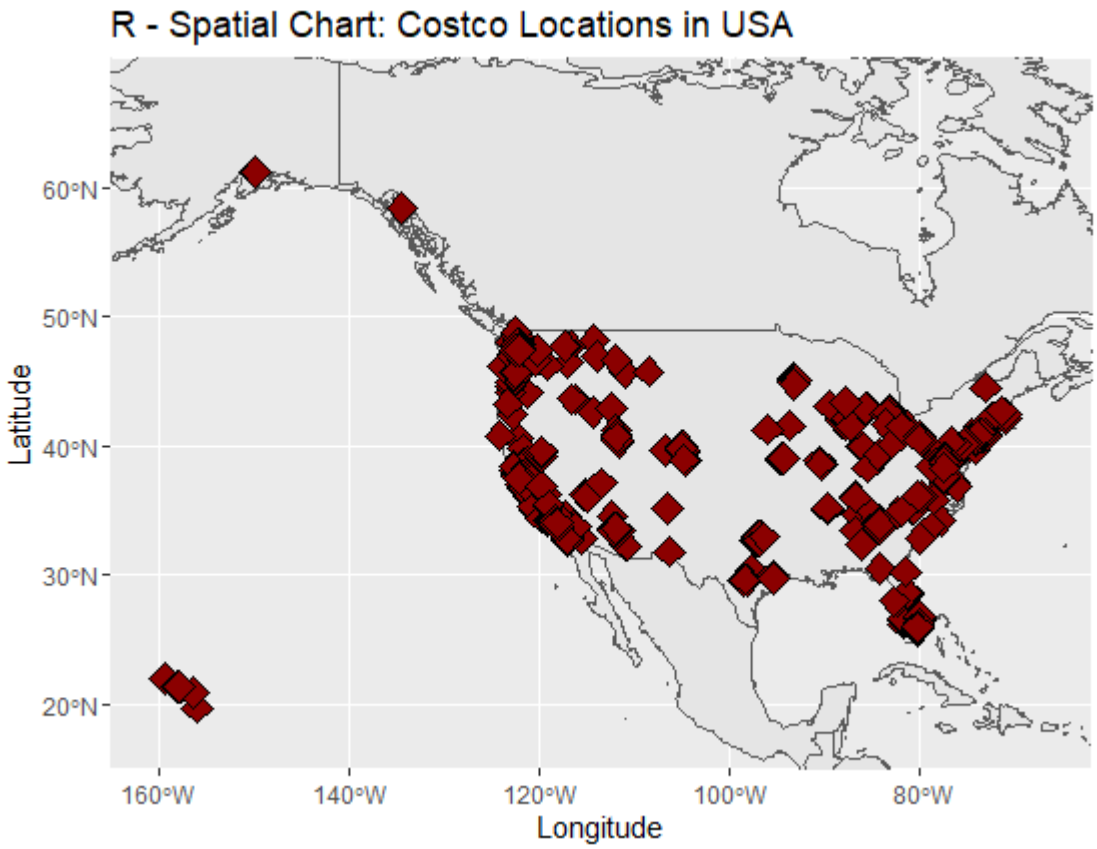
```
ggplot(data = world) +
    geom_sf() +
    geom_point(data = costco, aes(x = Longitude, y = Latitude), size = 4, shape = 23, fill = "da
rkred") +
    coord_sf(xlim = c(-62, -165), ylim = c(15, 70), expand = FALSE)+
    ggtitle("R - Spatial Chart: Costco Locations in USA")
```



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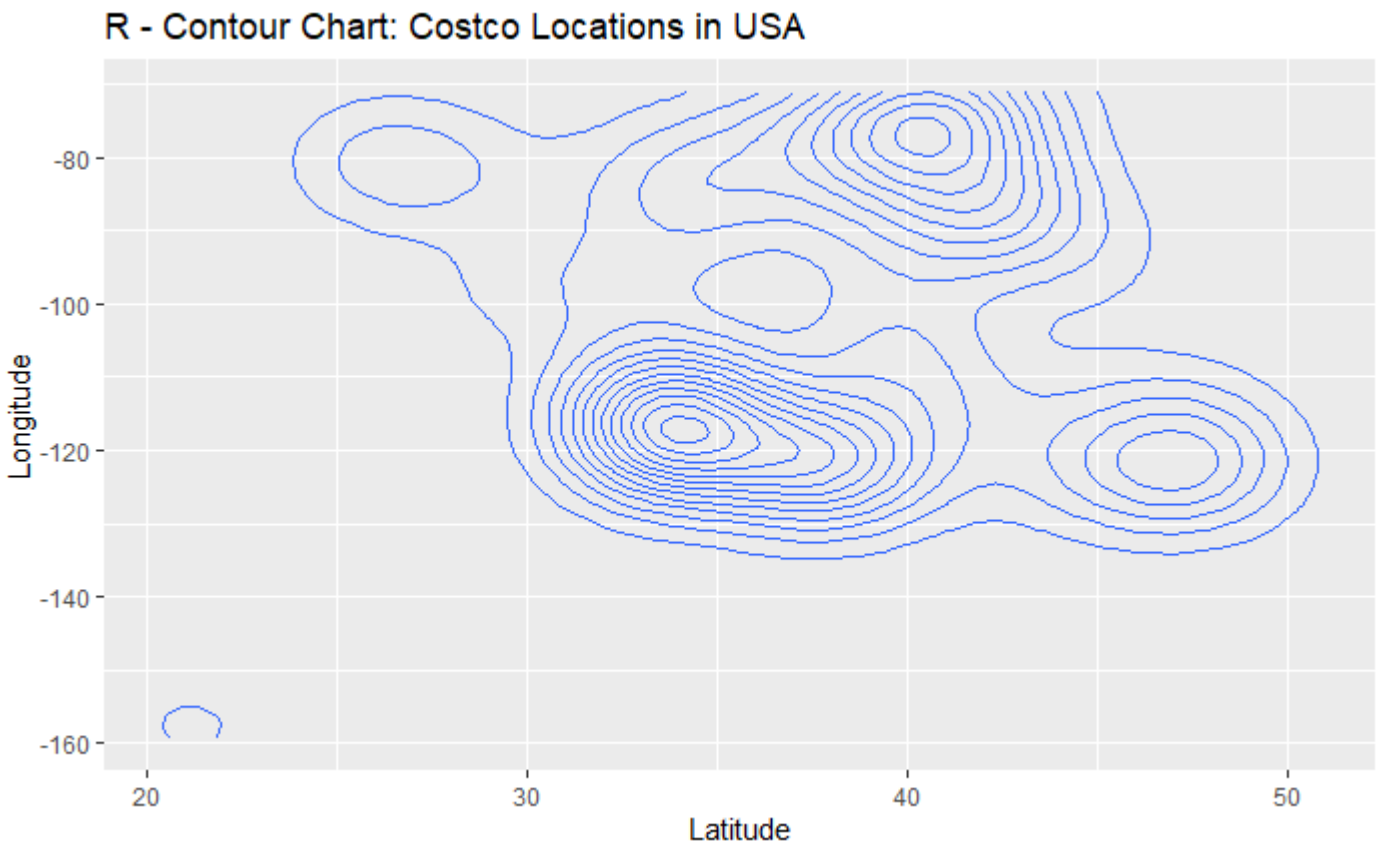
```
#Contour Chart

ggplot(costco, aes(x = Latitude, y = Longitude)) +
  geom_density_2d()+
  ggtitle("R - Contour Chart: Costco Locations in USA")
```


R - Contour Chart: Costco Locations in USA
-80
-100
-120
-140
-160
Longitude
20
30
40
50
Latitude