# Assignment 4.2 - Week 5&6 in R

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### Load required libraries

```
library(readxl)
library(ggplot2)
library(plotly)
library(reshape2)
library(mapview)
```

#### Read xls into a dataframe

```
costco_df <- read.csv("C:/Masters/GitHub/Summer2023/DSC640-Data Presentation & Visualization/Week7&8/ex5-2/costcos-geocoded.
csv")
nrow(costco_df)</pre>
```

```
## [1] 417
```

```
head(costco_df,5)
```

```
## Address City State Zip.Code Latitude Longitude
## 1 1205 N. Memorial Parkway Huntsville Alabama 35801-5930 34.74309 -86.60096
## 2 3650 Galleria Circle Hoover Alabama 35244-2346 33.37765 -86.81242
## 3 8251 Eastchase Parkway Montgomery Alabama 36117 32.36389 -86.15088
## 4 5225 Commercial Boulevard Juneau Alaska 99801-7210 58.35920 -134.48300
## 5 330 West Dimond Blvd Anchorage Alaska 99515-1950 61.14327 -149.88422
```

```
ppg_df <- read.csv("C:/Masters/GitHub/Summer2023/DSC640-Data Presentation & Visualization/Week7&8/ex5-2/ppg2008.csv")
nrow(ppg_df)</pre>
```

```
## [1] 50
```

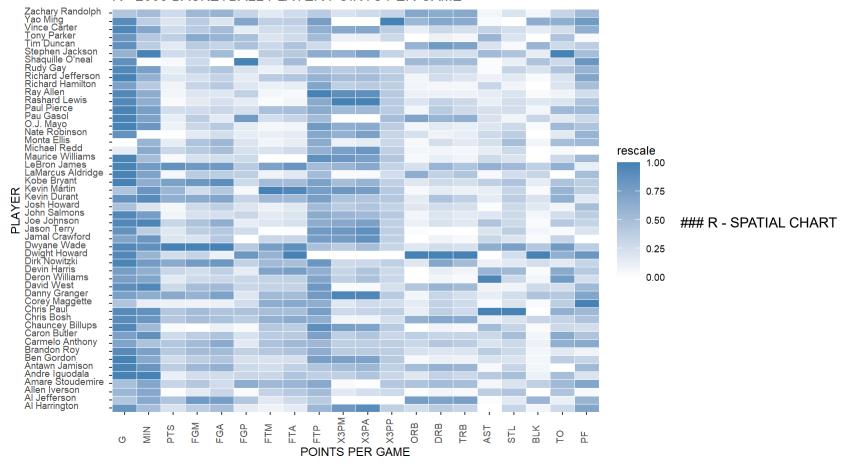
#### head(ppg\_df,5)

```
## 1 Dwyane Wade 79 38.6 30.2 10.8 22.0 0.491 7.5 9.8 0.765 1.1 3.5 0.317 1.1
## 2 LeBron James 81 37.7 28.4 9.7 19.9 0.489 7.3 9.4 0.780 1.6 4.7 0.344 1.3
## 4 Dirk Nowitzki 81 37.7 25.9 9.6 20.0 0.479 6.0 6.7 0.890 0.878 2.7 6.7 0.404 0.7
## 1 DRB TRB AST STL BLK TO PF
## 1 3.9 5.0 7.5 2.2 1.3 3.4 2.3
## 3 4.1 5.2 4.9 1.5 0.5 2.6 2.3
## 4 7.3 8.4 2.4 0.8 0.8 1.9 2.2
## 5 4.4 5.1 2.7 1.0 1.4 2.5 3.1
```

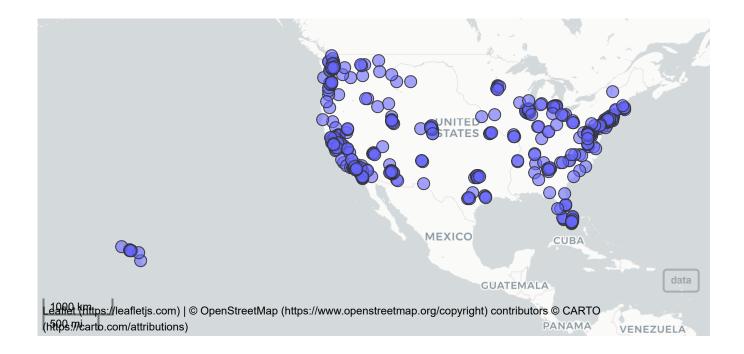
### R - HEAT MAP

```
library(scales)
library(plyr)
df melt <- melt(ppg df)</pre>
df melt <- ddply(df melt, .(variable),transform,rescale=rescale(value))</pre>
base size <- 9
ggp <- ggplot(df_melt, aes(variable,Name)) +</pre>
  geom tile(aes(fill=rescale),color='white') +
  scale fill gradient(low="white",high = "steelblue")+
  theme_grey(base_size = base_size) + labs(x = "", y = "") + scale_x_discrete(expand = c(0, 0)) +
  scale y discrete(expand = c(0, 0)) +
  theme(axis.text.x=element text(angle=90, hjust=0, vjust= 0.1)) +
  theme(axis.text.y=element text(hjust=0, vjust= 0.1)) +
  ggtitle("R - 2008 BASKETBALL PLAYER POINTS PER GAME") +
  xlab("POINTS PER GAME") +
  ylab("PLAYER")
ggp
```

#### R - 2008 BASKETBALL PLAYER POINTS PER GAME







## R - LOLLIPOP CHART

```
ggplot(ppg_df, aes(x=Name, y=G)) +
geom_segment( aes(x=Name, xend=Name, y=0, yend=G)) +
geom_point(size=4) + scale_x_discrete(guide = guide_axis(angle = 45)) +
 ggtitle("R - Lollipop Chart for Player points vs Team G") +
 xlab("Player Name") +
 ylab("Team - G")
```

## R - Lollipop Chart for Player points vs Team G

