Assignment_5.2_Vayuvegula_Soma_Shekar_R

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```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.2 ──
## ✔ tibble  3.1.7     ✔ purrr   0.3.4
## ✔ tidyr   1.2.0     ✔ stringr 1.4.0
## ✔ readr   2.1.2     ✔ forcats 0.5.2
## ── Conflicts ────────────────────────────────────────── tidyverse_conflicts() ──
## ✖ dplyr::filter() masks stats::filter()
## ✖ dplyr::lag()    masks stats::lag()
##
## Attaching package: 'reshape2'
##
##
## The following object is masked from 'package:tidyr':
##
##     smiths
##
##
##
## Attaching package: 'data.table'
##
##
## The following objects are masked from 'package:reshape2':
##
##     dcast, melt
##
##
## The following object is masked from 'package:purrr':
##
##     transpose
##
##
## The following objects are masked from 'package:dplyr':
##
##     between, first, last
##
##
##
## Attaching package: 'plotly'
##
##
## The following object is masked from 'package:ggplot2':
##
##     last_plot
##
##
## The following object is masked from 'package:stats':
##
##     filter
##
##
## The following object is masked from 'package:graphics':
##
##     layout
##
##
##
## Attaching package: 'reshape'
##
##
## The following object is masked from 'package:plotly':
##
##     rename
##
##
## The following object is masked from 'package:data.table':
##
##     melt
##
##
## The following objects are masked from 'package:reshape2':
##
##     colsplit, melt, recast
##
##
## The following objects are masked from 'package:tidyr':
##
##     expand, smiths
##
##
## The following object is masked from 'package:dplyr':
##
##     rename
##
##
## ----------------------------------------------------------------------------
##
## You have loaded plyr after dplyr - this is likely to cause problems.
## If you need functions from both plyr and dplyr, please load plyr first, then dplyr:
## library(plyr); library(dplyr)
##
## ----------------------------------------------------------------------------
##
##
## Attaching package: 'plyr'
##
##
## The following objects are masked from 'package:reshape':
##
##     rename, round_any
##
##
## The following objects are masked from 'package:plotly':
##
##     arrange, mutate, rename, summarise
##
##
## The following objects are masked from 'package:purrr':
##
##     compact
##
##
## The following objects are masked from 'package:dplyr':
##
##     arrange, count, desc, failwith, id, mutate, rename, summarise,
##     summarize
```

```
df_ppg<-read.csv("ppg2008.csv")
head(df_ppg,5)
```

	Name	G	MIN	PTS	FGM	FGA	FGP	FTM	FTA
	<chr>	<int>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>	<dbl>
1	Dwyane Wade	79	38.6	30.2	10.8	22.0	0.491	7.5	9.8
2	LeBron James	81	37.7	28.4	9.7	19.9	0.489	7.3	9.4
3	Kobe Bryant	82	36.2	26.8	9.8	20.9	0.467	5.9	6.9
4	Dirk Nowitzki	81	37.7	25.9	9.6	20.0	0.479	6.0	6.7
5	Danny Granger	67	36.2	25.8	8.5	19.1	0.447	6.0	6.9

5 rows | 1-10 of 22 columns

```
df_costco<-read.csv("costcos-geocoded.csv")
head(df_costco,5)
```

	Address	City	State	Zip.Code	Latitude	Longitude
	<chr>	<chr>	<chr>	<chr>	<dbl>	<dbl>
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

5 rows

```
library(scales)
```

```
##
## Attaching package: 'scales'
```

```
## The following object is masked from 'package:purrr':
##
##     discard
```

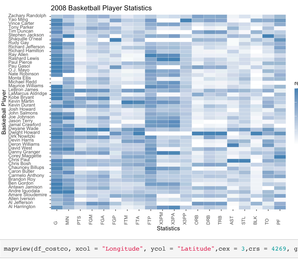
```
## The following object is masked from 'package:readr':
##
##     col_factor
```

```
df_melt<-melt(df_ppg)
```

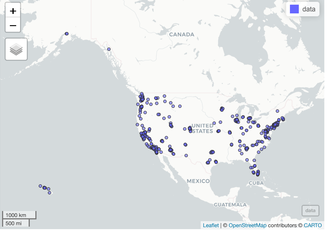
```
## Using Name as id variables
```

```
df_melt<-ddply(df_melt, .(variable),transform,rescale=rescale(value))
base_size<-9

gpp <- ggplot(df_melt, aes(variable,Name))+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("2008 Basketball Player Statistics") +
  xlab("Statistics") +
  ylab("Basketball Players")
gpp
```




```
mapview(df_costco, xcol = "Longitude", ycol = "Latitude",cex = 3,crs = 4269, grid = FALSE)
```




```
ggplot(df_costco, aes(x = Latitude, y = Longitude, fill = ..level..)) +
  stat_density_2d(geom = "polygon") + ggtitle("Costcos - Contour Chart")
```