Week 7 & 8 - Assignment 4.2

PYTHON

```python
In [1]:  import pandas as pd
         import numpy as np
         import matplotlib.pyplot as plt
         import plotly.express as px
         import folium
```

```python
In [2]:  #Load costco data into a dataframe
         costco_df = pd.read_csv('costcos-geocoded.csv')
         costco_df.head(5)
```

Out[2]:

	Address	City	State	Zip Code	Latitude	Longitude
0	1205 N. Memorial Parkway	Huntsville	Alabama	35801-5930	34.743095	-86.600955
1	3650 Galleria Circle	Hoover	Alabama	35244-2346	33.377649	-86.812420
2	8251 Eastchase Parkway	Montgomery	Alabama	36117	32.363889	-86.150884
3	5225 Commercial Boulevard	Juneau	Alaska	99801-7210	58.359200	-134.483000
4	330 West Dimond Blvd	Anchorage	Alaska	99515-1950	61.143266	-149.884217

```python
In [3]:  #Load ppg(points per game) data into a dataframe
         ppg_df = pd.read_csv('ppg2008.csv')
         ppg_df.head(5)
```

Out[3]:

	Name	G	MIN	PTS	FGM	FGA	FGP	FTM	FTA	FTP	...	3PA	3PP	ORB	DRB	TRB	AST	STL	BL
0	Dwyane Wade	79	38.6	30.2	10.8	22.0	0.491	7.5	9.8	0.765	...	3.5	0.317	1.1	3.9	5.0	7.5	2.2	1
1	LeBron James	81	37.7	28.4	9.7	19.9	0.489	7.3	9.4	0.780	...	4.7	0.344	1.3	6.3	7.6	7.2	1.7	1
2	Kobe Bryant	82	36.2	26.8	9.8	20.9	0.467	5.9	6.9	0.856	...	4.1	0.351	1.1	4.1	5.2	4.9	1.5	0
3	Dirk Nowitzki	81	37.7	25.9	9.6	20.0	0.479	6.0	6.7	0.890	...	2.1	0.359	1.1	7.3	8.4	2.4	0.8	0
4	Danny Granger	67	36.2	25.8	8.5	19.1	0.447	6.0	6.9	0.878	...	6.7	0.404	0.7	4.4	5.1	2.7	1.0	1

5 rows × 21 columns

```python
In [4]:  ppg_df.columns
```

```
Out[4]:  Index(['Name  ', 'G', 'MIN', 'PTS', 'FGM', 'FGA', 'FGP', 'FTM', 'FTA', 'FTP',
                '3PM', '3PA', '3PP', 'ORB', 'DRB', 'TRB', 'AST', 'STL', 'BLK', 'TO',
                'PF'],
               dtype='object')
```
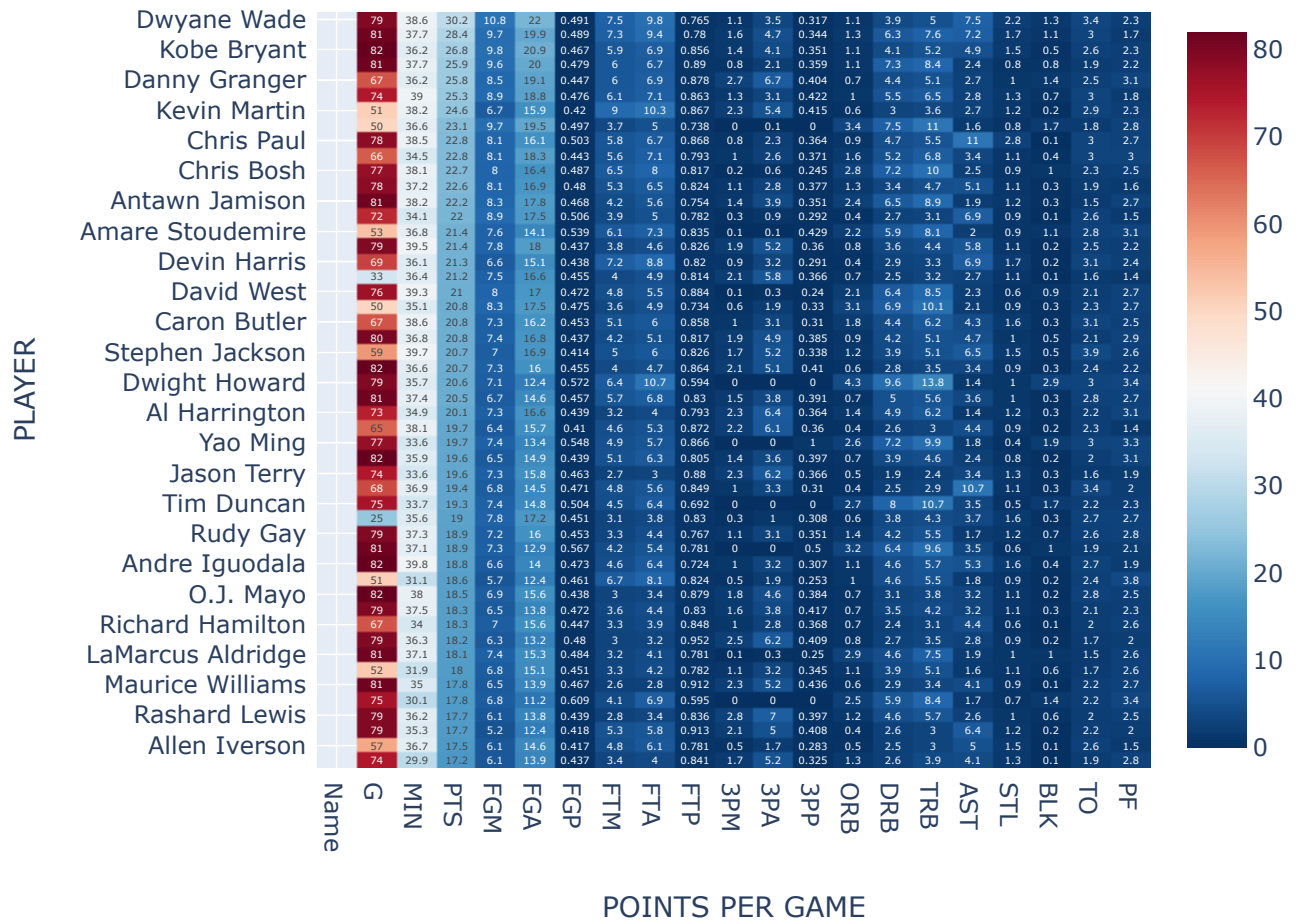
Python - HeatMap

```python
In [5]:  fig = px.imshow(ppg_df,text_auto=True, aspect="auto",color_continuous_scale='RdBu_r', y=
```

```
                labels=dict(x="POINTS PER GAME", y="PLAYER"))
fig.update_layout(title = "2008 BASKETBALL PLAYER POINTS PER GAME")
fig.show()
```

2008 BASKETBALL PLAYER POINTS PER GAME

PLAYER	G	MIN	PTS	FGM	FGA	FGP	FTM	FTA	FTP	3PM	3PA	3PP	ORB	DRB	TRB	AST	STL	BLK	TO	PF
Dwyane Wade	79	38.6	30.2	10.8	22	0.491	7.5	9.8	0.765	1.1	3.5	0.317	1.1	3.9	5	7.5	2.2	1.3	3.4	2.3
	81	37.7	28.4	9.7	19.9	0.489	7.3	9.4	0.78	1.6	4.7	0.344	1.3	6.3	7.6	7.2	1.7	1.1	3	1.7
Kobe Bryant	82	36.2	26.8	9.8	20.9	0.467	5.9	6.9	0.856	1.4	4.1	0.351	1.1	4.1	5.2	4.9	1.5	0.5	2.6	2.3
	81	37.7	25.9	9.6	20	0.479	6	6.7	0.89	0.8	2.1	0.359	1.1	7.3	8.4	2.4	0.8	0.8	1.9	2.2
Danny Granger	67	36.2	25.8	8.5	19.1	0.447	6	6.9	0.878	2.7	6.7	0.404	0.7	4.4	5.1	2.7	1	1.4	2.5	3.1
Kevin Martin	74	39	25.3	8.9	18.8	0.476	6.1	7.1	0.863	1.3	3.1	0.422	1	5.5	6.5	2.8	1.3	0.7	3	1.8
	51	38.2	24.6	6.7	15.9	0.42	9	10.3	0.867	2.3	5.4	0.415	0.6	3	3.6	2.7	1.2	0.2	2.9	2.3
Chris Paul	50	36.6	23.1	9.7	19.5	0.497	3.7	5	0.738	0	0.1	0	3.4	7.5	11	1.6	0.8	1.7	1.8	2.8
	78	38.5	22.8	8.1	16.1	0.503	5.8	6.7	0.868	0.8	2.3	0.364	0.9	4.7	5.5	11	2.8	0.1	3	2.7
Chris Bosh	66	34.5	22.8	8.1	18.3	0.443	5.6	7.1	0.793	1	2.6	0.371	1.6	5.2	6.8	3.4	1.1	0.4	3	3
	77	38.1	22.7	8	16.4	0.487	6.5	8	0.817	0.2	0.6	0.245	2.8	7.2	10	2.5	0.9	1	2.3	2.5
Antawn Jamison	78	37.2	22.6	8.1	16.9	0.48	5.3	6.5	0.824	1.1	2.8	0.377	1.3	3.4	4.7	5.1	1.1	0.3	1.9	1.6
	81	38.2	22.2	8.3	17.8	0.468	4.2	5.6	0.754	1.4	3.9	0.351	2.4	6.5	8.9	1.9	1.2	0.3	1.5	2.7
Amare Stoudemire	72	34.1	22	8.9	17.5	0.506	3.9	5	0.782	0.3	0.9	0.292	0.4	2.7	3.1	6.9	0.9	0.1	2.6	1.5
	53	36.8	21.4	7.6	14.1	0.539	6.1	7.3	0.835	0.1	0.1	0.429	2.2	5.9	8.1	2	0.9	1.1	2.8	3.1
Devin Harris	79	39.5	21.4	7.8	18	0.437	3.8	4.6	0.826	1.9	5.2	0.36	0.8	3.6	4.4	5.8	1.1	0.2	2.5	2.2
	69	36.1	21.3	6.6	15.1	0.438	7.2	8.8	0.82	0.9	3.2	0.291	0.4	2.9	3.3	6.9	1.7	0.2	3.1	2.4
David West	33	36.4	21.2	7.5	16.6	0.455	4	4.9	0.814	2.1	5.8	0.366	0.7	2.5	3.2	2.7	1.1	0.1	1.6	1.4
	76	39.3	21	8	17	0.472	4.8	5.5	0.884	0.1	0.3	0.24	2.1	6.4	8.5	2.3	0.6	0.9	2.1	2.7
Caron Butler	50	35.1	20.8	8.3	17.5	0.475	3.6	4.9	0.734	0.6	1.9	0.33	3.1	6.9	10.1	2.1	0.9	0.3	2.3	2.7
	67	38.6	20.8	7.3	16.2	0.453	5.1	6	0.858	1	3.1	0.31	1.8	4.4	6.2	4.3	1.6	0.3	3.1	2.5
Stephen Jackson	80	36.8	20.8	7.4	16.8	0.437	4.2	5.1	0.817	1.9	4.9	0.385	0.9	4.2	5.1	4.7	1	0.5	2.1	2.9
	59	39.7	20.7	7	16.9	0.414	5	6	0.826	1.7	5.2	0.338	1.2	3.9	5.1	6.5	1.5	0.5	3.9	2.6
Dwight Howard	82	36.6	20.7	7.3	16	0.455	4	4.7	0.864	2.1	5.1	0.41	0.6	2.8	3.5	3.4	0.9	0.3	2.4	2.2
	79	35.7	20.6	7.1	12.4	0.572	6.4	10.7	0.594	0	0	0	4.3	9.6	13.8	1.4	1	2.9	3	3.4
Al Harrington	81	37.4	20.5	6.7	14.6	0.457	5.7	6.8	0.83	1.5	3.8	0.391	0.7	5	5.6	3.6	1	0.3	2.8	2.7
	73	34.9	20.1	7.3	16.6	0.439	3.2	4	0.793	2.3	6.4	0.364	1.4	4.9	6.2	1.4	1.2	0.3	2.2	3.1
Yao Ming	65	38.1	19.7	6.4	15.7	0.41	4.6	5.3	0.872	2.2	6.1	0.36	0.4	2.6	3	4.4	0.9	0.2	2.3	1.4
	77	33.6	19.7	7.4	13.4	0.548	4.9	5.7	0.866	0	0	1	2.6	7.2	9.9	1.8	0.4	1.9	3	3.3
Jason Terry	82	35.9	19.6	6.5	14.9	0.439	5.1	6.3	0.805	1.4	3.6	0.397	0.7	3.9	4.6	2.4	0.8	0.2	2	3.1
	74	33.6	19.6	7.3	15.8	0.463	2.7	3	0.88	2.3	6.2	0.366	0.5	1.9	2.4	3.4	1.3	0.3	1.6	1.9
Tim Duncan	68	36.9	19.4	6.8	14.5	0.471	4.8	5.6	0.849	1	3.3	0.31	0.4	2.5	2.9	10.7	1.1	0.3	3.4	2
	75	33.7	19.3	7.4	14.8	0.504	4.5	6.4	0.692	0	0	0	2.7	8	10.7	3.5	0.5	1.7	2.2	2.3
Rudy Gay	25	35.6	19	7.8	17.2	0.451	3.1	3.8	0.83	0.3	1	0.308	0.6	3.8	4.3	3.7	1.6	0.3	2.7	2.7
	79	37.3	18.9	7.2	16	0.453	3.3	4.4	0.767	1.1	3.1	0.351	1.4	4.2	5.5	1.7	1.2	0.7	2.6	2.8
Andre Iguodala	81	37.1	18.9	7.3	12.9	0.567	4.2	5.4	0.781	0	0	0.5	3.2	6.4	9.6	3.5	0.6	1	1.9	2.1
	82	39.8	18.8	6.6	14	0.473	4.6	6.4	0.724	1	3.2	0.307	1.1	4.6	5.7	5.3	1.6	0.4	2.7	1.9
O.J. Mayo	51	31.1	18.6	5.7	12.4	0.461	6.7	8.1	0.824	0.5	1.9	0.253	1	4.6	5.5	1.8	0.9	0.2	2.4	3.8
	82	38	18.5	6.9	15.6	0.438	3	4.3	0.879	1.8	4.6	0.384	0.7	3.1	3.8	3.2	1.1	0.2	2.8	2.5
Richard Hamilton	79	37.5	18.3	6.5	13.8	0.472	3.6	4.4	0.83	1.6	3.8	0.417	0.7	3.5	4.2	3.2	1.1	0.3	2.1	2.3
	67	34	18.3	7	15.6	0.447	3.3	3.9	0.848	1	2.8	0.368	0.7	2.4	3.1	4.4	0.6	0.1	2	2.6
LaMarcus Aldridge	79	36.3	18.2	6.3	13.2	0.48	3	3.2	0.952	2.5	6.2	0.409	0.8	2.7	3.5	2.8	0.9	0.2	1.7	2
	81	37.1	18.1	7.4	15.3	0.484	3.2	4.1	0.781	0.1	0.3	0.25	2.9	4.6	7.5	1.9	1	1	1.5	2.6
Maurice Williams	52	31.9	18	6.8	15.1	0.451	3.3	4.2	0.782	1.1	3.2	0.345	1.1	3.9	5.1	1.6	1.1	0.6	1.7	2.6
	81	35	17.8	6.5	13.9	0.467	2.6	2.8	0.912	2.3	5.2	0.436	0.6	2.9	3.4	4.1	0.9	0.1	2.2	2.7
Rashard Lewis	75	30.1	17.8	6.8	11.2	0.609	4.1	6.9	0.595	0	0		2.5	5.9	8.4	1.7	0.7	1.4	2.2	3.4
	79	36.2	17.7	6.1	13.8	0.439	2.8	3.4	0.836	2.8	7	0.397	1.2	4.6	5.7	2.6	1	0.6	2	2.5
Allen Iverson	79	35.3	17.7	5.2	12.4	0.418	5.3	5.8	0.913	2.1	5	0.408	0.4	2.6	3	6.4	1.2	0.2	2.2	2.7
	57	36.7	17.5	6.1	14.6	0.417	4.8	6.1	0.781	0.5	1.7	0.283	0.5	2.5	3	5	1.5	0.1	2.6	1.5
	74	29.9	17.2	6.1	13.9	0.437	3.4	4	0.841	1.7	5.2	0.325	1.3	2.6	3.9	4.1	1.3	0.1	1.9	2.8

POINTS PER GAME

Python - Spatial Chart

In [6]:
```python
map=folium.Map(prefer_canvas=True)

def plot(point):
    folium.CircleMarker(location=[point.Latitude,point.Longitude],
                   radius=2, popup=point.Address+" "+point.City+" "+point.State+" "+
                   fill_color=point.State,
                   fill=True,
                   fill_opacity=0.7,
                   weight=5).add_to(map)
```
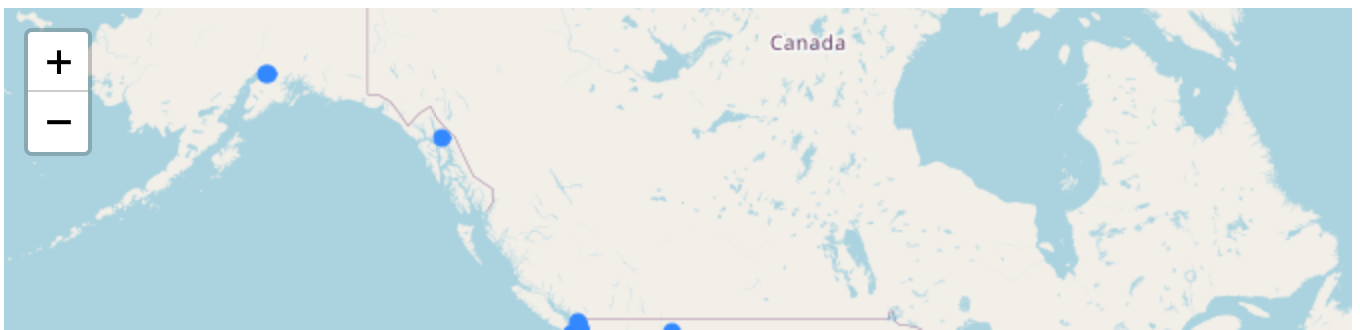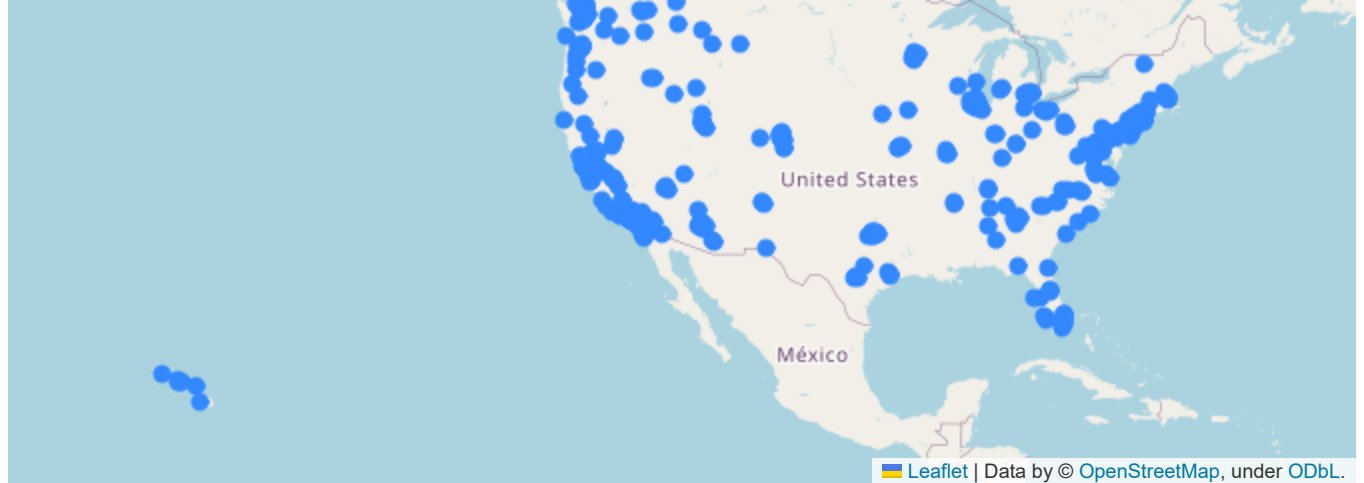
In [7]:
```python
costco_df.apply(plot,axis=1)
map.fit_bounds(map.get_bounds())
map
```
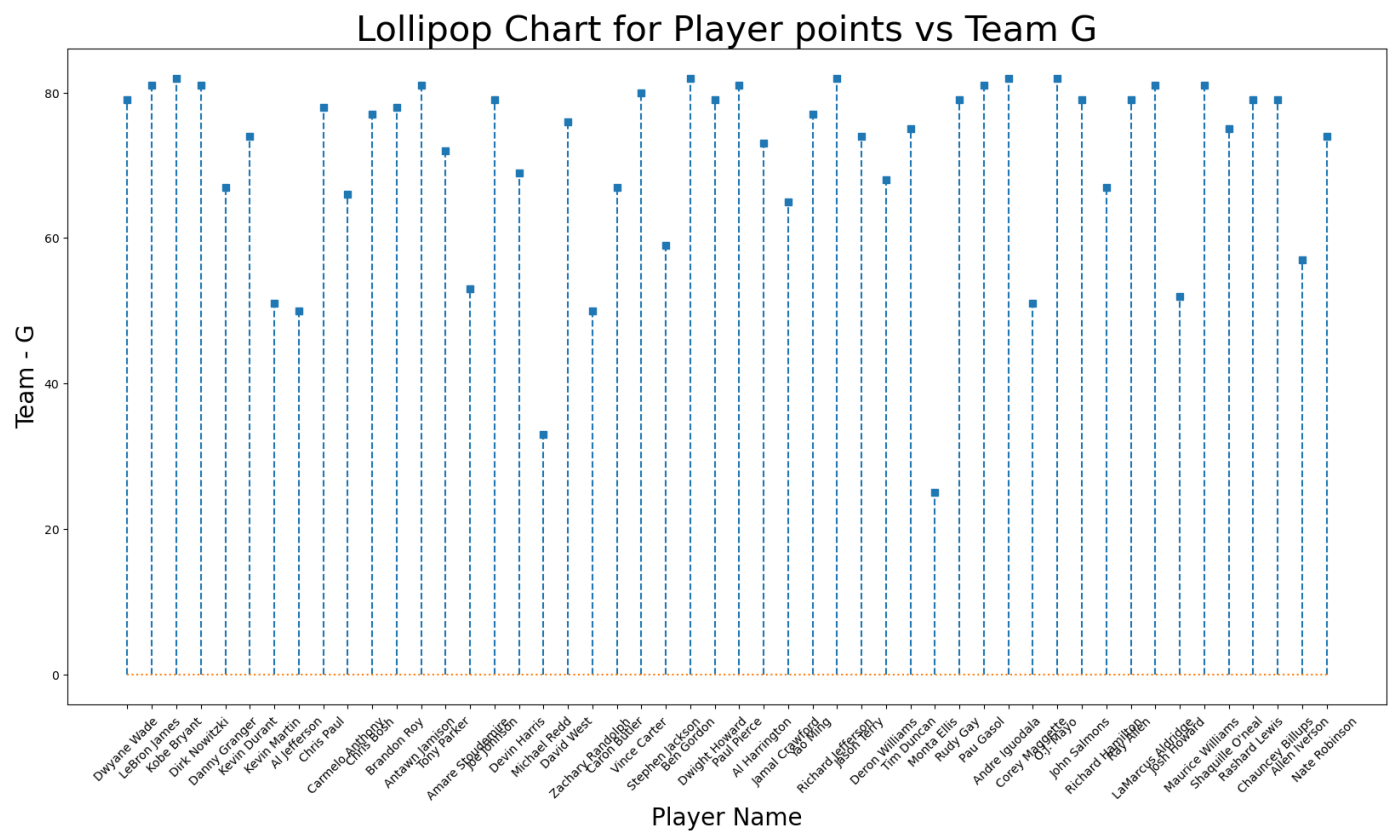
Out[7]:

Python - Lollipop chart

In [8]:
```python
plt.figure(figsize=(20,10))
plt.stem(ppg_df['Name    '], ppg_df.G, markerfmt = 's', linefmt='--', basefmt = ':')
plt.xticks(rotation=45)
plt.xlabel("Player Name", fontsize = 20)
plt.ylabel("Team - G", fontsize = 20)
plt.title("Lollipop Chart for Player points vs Team G", fontsize = 30)
plt.show()
```


Lollipop Chart for Player points vs Team G

Assignment 4.2 - Week 5&6 in R

Aarti Ramani

2023-07-26

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)
```

```
## [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)
```

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

```
head(ppg_df,5)
```

```
##              Name  G  MIN  PTS  FGM  FGA   FGP FTM FTA   FTP X3PM X3PA  X3PP ORB
## 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
## 3    Kobe Bryant  82 36.2 26.8  9.8 20.9 0.467 5.9 6.9 0.856  1.4  4.1 0.351 1.1
## 4 Dirk Nowitzki  81 37.7 25.9  9.6 20.0 0.479 6.0 6.7 0.890  0.8  2.1 0.359 1.1
## 5 Danny Granger  67 36.2 25.8  8.5 19.1 0.447 6.0 6.9 0.878  2.7  6.7 0.404 0.7
##   DRB TRB AST STL BLK  TO  PF
## 1 3.9 5.0 7.5 2.2 1.3 3.4 2.3
## 2 6.3 7.6 7.2 1.7 1.1 3.0 1.7
## 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)

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

ggp <- 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("R - 2008 BASKETBALL PLAYER POINTS PER GAME") +
  xlab("POINTS PER GAME") +
  ylab("PLAYER")
ggp
```

R - 2008 BASKETBALL PLAYER POINTS PER GAME

R - SPATIAL CHART
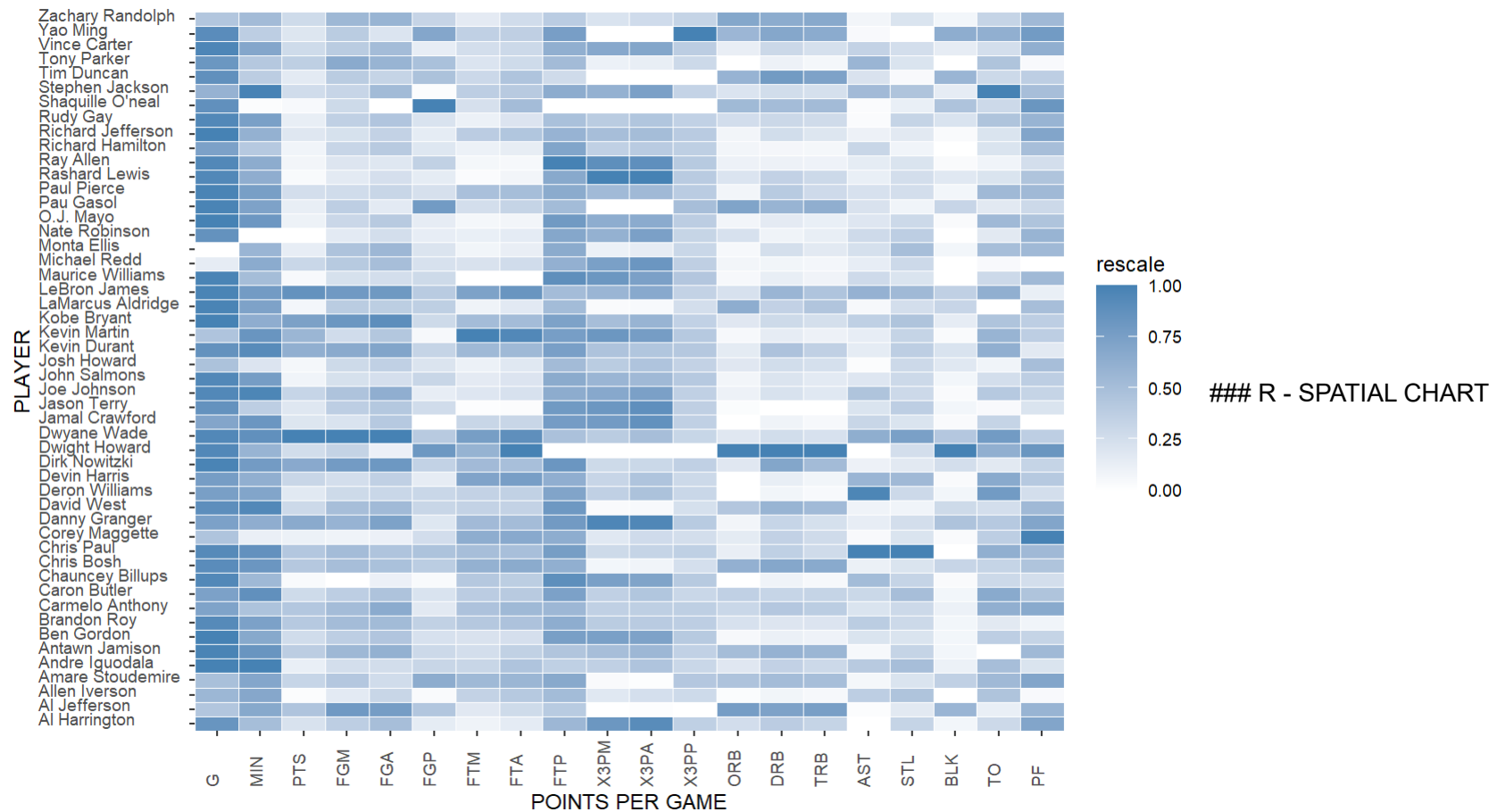
```
fig <- mapview(costco_df, xcol = "Longitude", ycol = "Latitude",crs = 4269, grid = FALSE, legend = TRUE,
          geometry = TRUE, geography = "tract")
fig
```
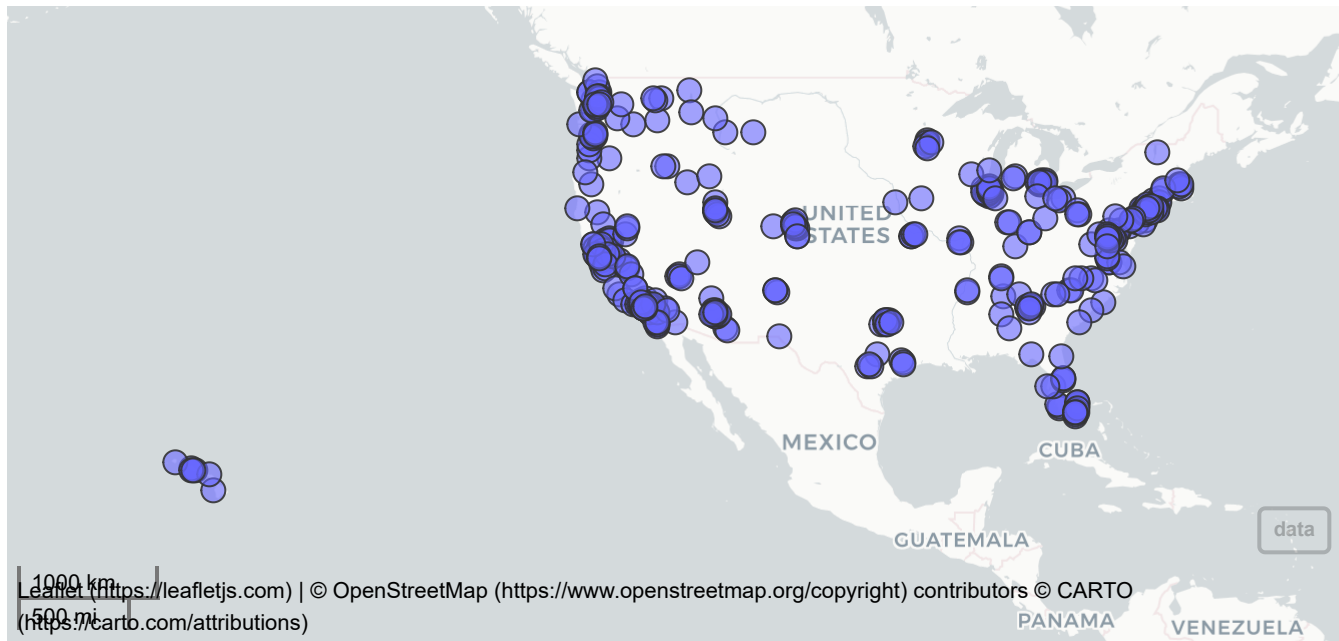
R - LOLLIPOP CHART

```
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
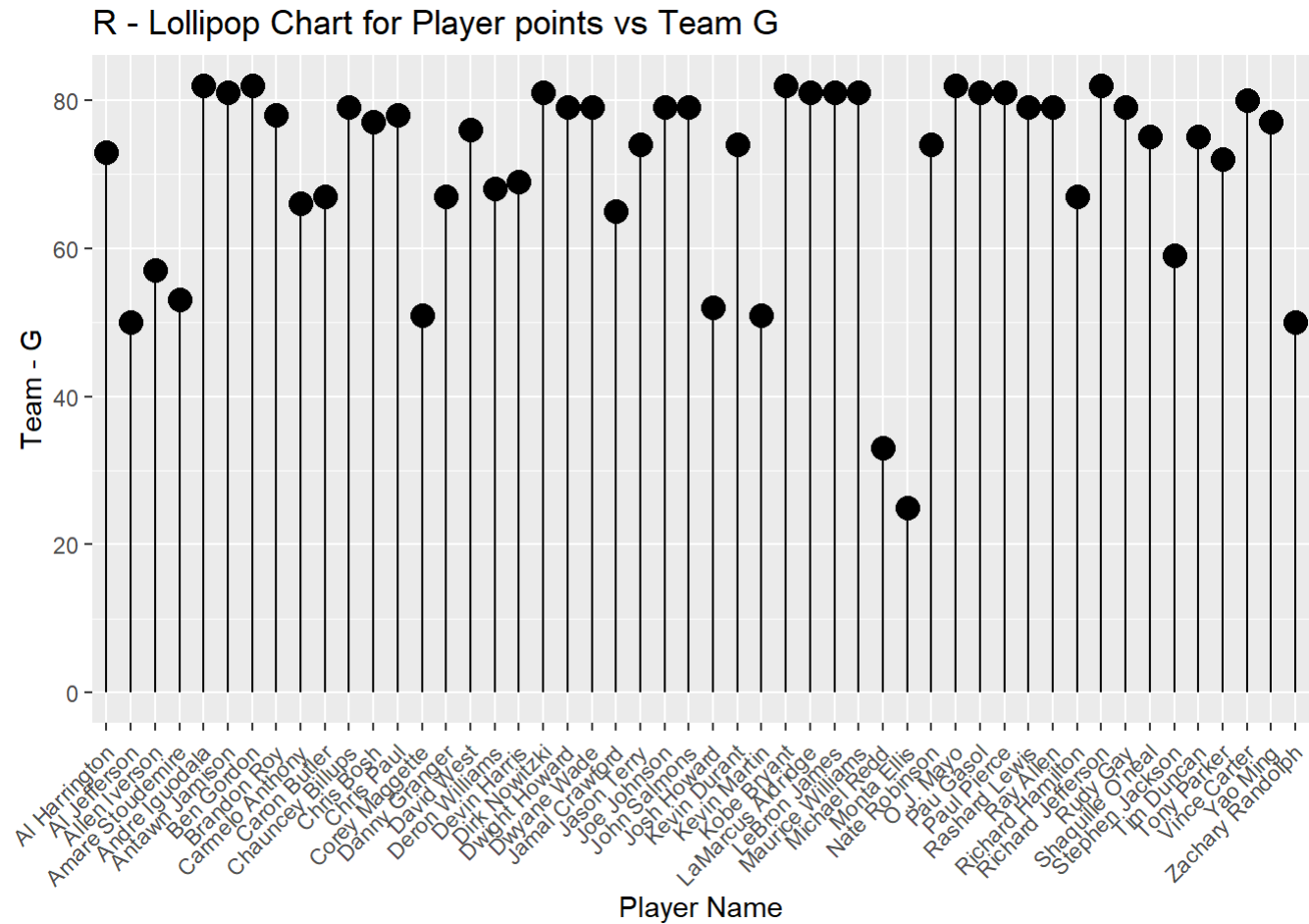
Week7&8

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Tableau - HeatMap

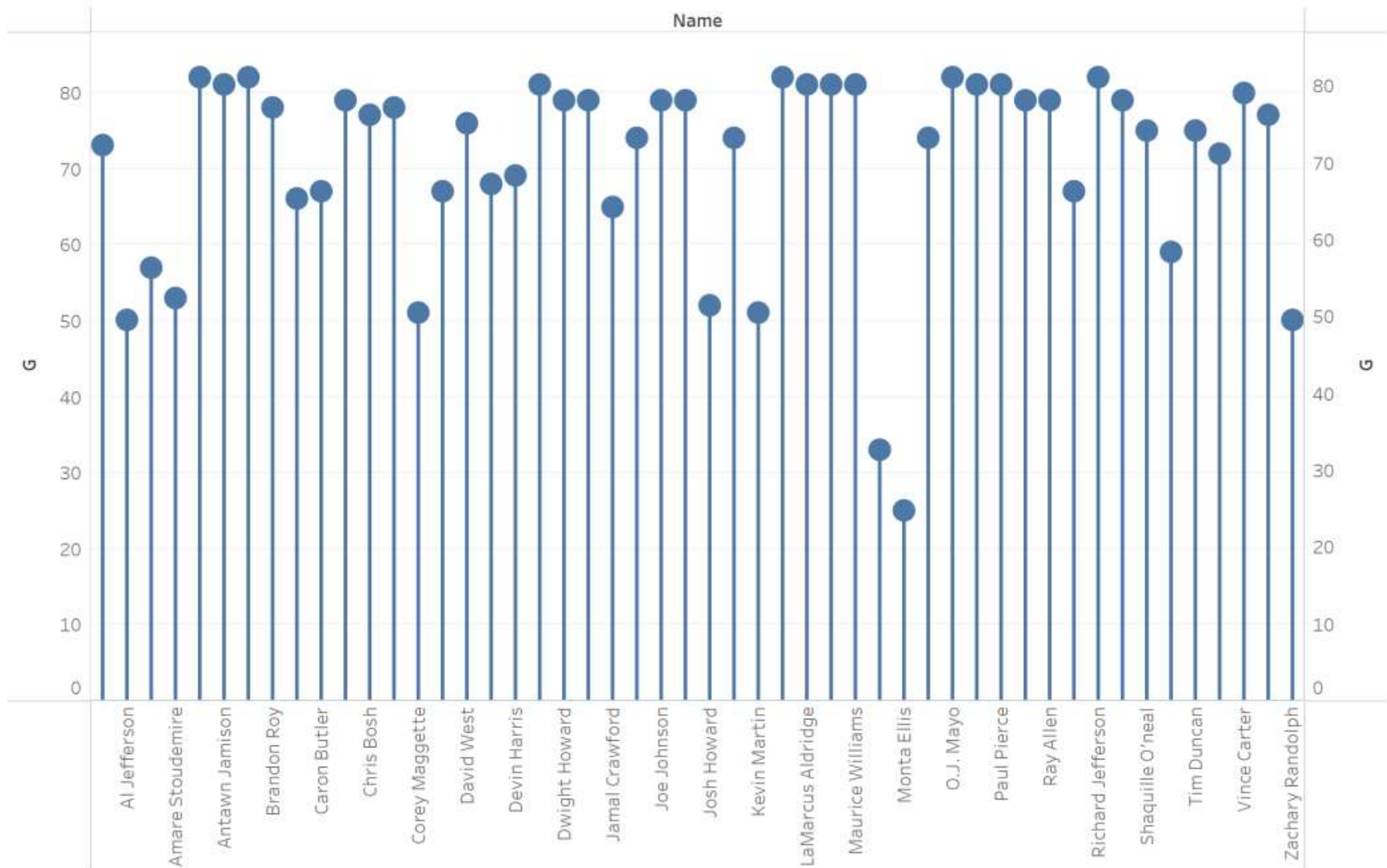| Name	3PA	3PM	3PP	AST	BLK	DRB	FGA	FGM	FGP	FTA	FTM	FTP	G	MIN	ORB	PF	PTS	STL	TO	TRB
Al Harrin..	6.40	2.30	0.36	1.40	0.30	4.90	16.60	7.30	0.44	4.00	3.20	0.79	73.00	34.90	1.40	3.10	20.10	1.20	2.20	6.20
Al Jeffer..	0.10	0.00	0.00	1.60	1.70	7.50	19.50	9.70	0.50	5.00	3.70	0.74	50.00	36.60	3.40	2.80	23.10	0.80	1.80	11.00
Allen Ive..	1.70	0.50	0.28	5.00	0.10	2.50	14.60	6.10	0.42	6.10	4.80	0.78	57.00	36.70	0.50	1.50	17.50	1.50	2.60	3.00
Amare St..	0.10	0.10	0.43	2.00	1.10	5.90	14.10	7.60	0.54	7.30	6.10	0.84	53.00	36.80	2.20	3.10	21.40	0.90	2.80	8.10
Andre Ig..	3.20	1.00	0.31	5.30	0.40	4.60	14.00	6.60	0.47	6.40	4.60	0.72	82.00	39.80	1.10	1.90	18.80	1.60	2.70	5.70
Antawn J..	3.90	1.40	0.35	1.90	0.30	6.50	17.80	8.30	0.47	5.60	4.20	0.75	81.00	38.20	2.40	2.70	22.20	1.20	1.50	8.90
Ben Gord..	5.10	2.10	0.41	3.40	0.30	2.80	16.00	7.30	0.46	4.70	4.00	0.86	82.00	36.60	0.60	2.20	20.70	0.90	2.40	3.50
Brandon ..	2.80	1.10	0.38	5.10	0.30	3.40	16.90	8.10	0.48	6.50	5.30	0.82	78.00	37.20	1.30	1.60	22.60	1.10	1.90	4.70
Carmelo ..	2.60	1.00	0.37	3.40	0.40	5.20	18.30	8.10	0.44	7.10	5.60	0.79	66.00	34.50	1.60	3.00	22.80	1.10	3.00	6.80
Caron Bu..	3.10	1.00	0.31	4.30	0.30	4.40	16.20	7.30	0.45	6.00	5.10	0.86	67.00	38.60	1.80	2.50	20.80	1.60	3.10	6.20
Chaunce..	5.00	2.10	0.41	6.40	0.20	2.60	12.40	5.20	0.42	5.80	5.30	0.91	79.00	35.30	0.40	2.00	17.70	1.20	2.20	3.00
Chris Bosh	0.60	0.20	0.25	2.50	1.00	7.20	16.40	8.00	0.49	8.00	6.50	0.82	77.00	38.10	2.80	2.50	22.70	0.90	2.30	10.00
Chris Paul	2.30	0.80	0.36	11.00	0.10	4.70	16.10	8.10	0.50	6.70	5.80	0.87	78.00	38.50	0.90	2.70	22.80	2.80	3.00	5.50
Corey M..	1.90	0.50	0.25	1.80	0.20	4.60	12.40	5.70	0.46	8.10	6.70	0.82	51.00	31.10	1.00	3.80	18.60	0.90	2.40	5.50
Danny Gr..	6.70	2.70	0.40	2.70	1.40	4.40	19.10	8.50	0.45	6.90	6.00	0.88	67.00	36.20	0.70	3.10	25.80	1.00	2.50	5.10
David W..	0.30	0.10	0.24	2.30	0.90	6.40	17.00	8.00	0.47	5.50	4.80	0.88	76.00	39.30	2.10	2.70	21.00	0.60	2.10	8.50
Deron Wi..	3.30	1.00	0.31	10.70	0.30	2.50	14.50	6.80	0.47	5.60	4.80	0.85	68.00	36.90	0.40	2.00	19.40	1.10	3.40	2.90
Devin Ha..	3.20	0.90	0.29	6.90	0.20	2.90	15.10	6.60	0.44	8.80	7.20	0.82	69.00	36.10	0.40	2.40	21.30	1.70	3.10	3.30
Dirk Now..	2.10	0.80	0.36	2.40	0.80	7.30	20.00	9.60	0.48	6.70	6.00	0.89	81.00	37.70	1.10	2.20	25.90	0.80	1.90	8.40
Dwight H..	0.00	0.00	0.00	1.40	2.90	9.60	12.40	7.10	0.57	10.70	6.40	0.59	79.00	35.70	4.30	3.40	20.60	1.00	3.00	13.80
Dwyane ..	3.50	1.10	0.32	7.50	1.30	3.90	22.00	10.80	0.49	9.80	7.50	0.77	79.00	38.60	1.10	2.30	30.20	2.20	3.40	5.00
Jamal Cr..	6.10	2.20	0.36	4.40	0.20	2.60	15.70	6.40	0.41	5.30	4.60	0.87	65.00	38.10	0.40	1.40	19.70	0.90	2.30	3.00
Jason Te..	6.20	2.30	0.37	3.40	0.30	1.90	15.80	7.30	0.46	3.00	2.70	0.88	74.00	33.60	0.50	1.90	19.60	1.30	1.60	2.40
Joe John..	5.20	1.90	0.36	5.80	0.20	3.60	18.00	7.80	0.44	4.60	3.80	0.83	79.00	39.50	0.80	2.20	21.40	1.10	2.50	4.40
John Sal..	3.80	1.60	0.42	3.20	0.30	3.50	13.80	6.50	0.47	4.40	3.60	0.83	79.00	37.50	0.70	2.30	18.30	1.10	2.10	4.20
Josh Ho..	3.20	1.10	0.35	1.60	0.60	3.90	15.10	6.80	0.45	4.20	3.30	0.78	52.00	31.90	1.10	2.60	18.00	1.10	1.70	5.10
Kevin Du..	3.10	1.30	0.42	2.80	0.70	5.50	18.80	8.90	0.48	7.10	6.10	0.86	74.00	39.00	1.00	1.80	25.30	1.30	3.00	6.50
Kevin Ma..	5.40	2.30	0.42	2.70	0.20	3.00	15.90	6.70	0.42	10.30	9.00	0.87	51.00	38.20	0.60	2.30	24.60	1.20	2.90	3.60
Kobe Bry..	4.10	1.40	0.35	4.90	0.50	4.10	20.90	9.80	0.47	6.90	5.90	0.86	82.00	36.20	1.10	2.30	26.80	1.50	2.60	5.20
LaMarcu..	0.30	0.10	0.25	1.90	1.00	4.60	15.30	7.40	0.48	4.10	3.20	0.78	81.00	37.10	2.90	2.60	18.10	1.00	1.50	7.50
LeBron J..	4.70	1.60	0.34	7.20	1.10	6.30	19.90	9.70	0.49	9.40	7.30	0.78	81.00	37.70	1.30	1.70	28.40	1.70	3.00	7.60
Maurice ..	5.20	2.30	0.44	4.10	0.10	2.90	13.90	6.50	0.47	2.80	2.60	0.91	81.00	35.00	0.60	2.70	17.80	0.90	2.20	3.40
Michael ..	5.80	2.10	0.37	2.70	0.10	2.50	16.60	7.50	0.46	4.90	4.00	0.81	33.00	36.40	0.70	1.40	21.20	1.10	1.60	3.20
Monta El..	1.00	0.30	0.31	3.70	0.30	3.80	17.20	7.80	0.45	3.80	3.10	0.83	25.00	35.60	0.60	2.70	19.00	1.60	2.70	4.30
Nate Rob..	5.20	1.70	0.33	4.10	0.10	2.60	13.90	6.10	0.44	4.00	3.40	0.84	74.00	29.90	1.30	2.80	17.20	1.30	1.90	3.90
O.J. Mayo	4.60	1.80	0.38	3.20	0.20	3.10	15.60	6.90	0.44	3.40	3.00	0.88	82.00	38.00	0.70	2.50	18.50	1.10	2.80	3.80
Pau Gasol	0.00	0.00	0.50	3.50	1.00	6.40	12.90	7.30	0.57	5.40	4.20	0.78	81.00	37.10	3.20	2.10	18.90	0.60	1.90	9.60
Paul Pier..	3.80	1.50	0.39	3.60	0.30	5.00	14.60	6.70	0.46	6.80	5.70	0.83	81.00	37.40	0.70	2.70	20.50	1.00	2.80	5.60
Rashard ..	7.00	2.80	0.40	2.60	0.60	4.60	13.80	6.10	0.44	3.40	2.80	0.84	79.00	36.20	1.20	2.50	17.70	1.00	2.00	5.70
Ray Allen	6.20	2.50	0.41	2.80	0.20	2.70	13.20	6.30	0.48	3.20	3.00	0.95	79.00	36.30	0.80	2.00	18.20	0.90	1.70	3.50
Richard ..	2.80	1.00	0.37	4.40	0.10	2.40	15.60	7.00	0.45	3.90	3.30	0.85	67.00	34.00	0.70	2.60	18.30	0.60	2.00	3.10
Richard J..	3.60	1.40	0.40	2.40	0.20	3.90	14.90	6.50	0.44	6.30	5.10	0.81	82.00	35.90	0.70	3.10	19.60	0.80	2.00	4.60
Rudy Gay	3.10	1.10	0.35	1.70	0.70	4.20	16.00	7.20	0.45	4.40	3.30	0.77	79.00	37.30	1.40	2.80	18.90	1.20	2.60	5.50
Shaquille..	0.00	0.00	0.00	1.70	1.40	5.90	11.20	6.80	0.61	6.90	4.10	0.60	75.00	30.10	2.50	3.40	17.80	0.70	2.20	8.40
Stephen ..	5.20	1.70	0.34	6.50	0.50	3.90	16.90	7.00	0.41	6.00	5.00	0.83	59.00	39.70	1.20	2.60	20.70	1.50	3.90	5.10
Tim Dunc..	0.00	0.00	0.00	3.50	1.70	8.00	14.80	7.40	0.50	6.40	4.50	0.69	75.00	33.70	2.70	2.30	19.30	0.50	2.20	10.70
Tony Par..	0.90	0.30	0.29	6.90	0.10	2.70	17.50	8.90	0.51	5.00	3.90	0.78	72.00	34.10	0.40	1.50	22.00	0.90	2.60	3.10
Vince Car..	4.90	1.90	0.39	4.70	0.50	4.20	16.80	7.40	0.44	5.10	4.20	0.82	80.00	36.80	0.90	2.90	20.80	1.00	2.10	5.10
Yao Ming	0.00	0.00	1.00	1.80	1.90	7.20	13.40	7.40	0.55	5.70	4.90	0.87	77.00	33.60	2.60	3.30	19.70	0.40	3.00	9.90
Zachary ..	1.90	0.60	0.33	2.10	0.30	6.90	17.50	8.30	0.48	4.90	3.60	0.73	50.00	35.10	3.10	2.70	20.80	0.90	2.30	10.10

Measure Values 0.00 — 82.00

3PA, 3PM, 3PP, AST, BLK, DRB, FGA, FGM, FGP, FTA, FTM, FTP, G, MIN, ORB, PF, PTS, STL, TO and TRB (color) broken down by Name.

Tableau - Spatial Chart

Tableau - Lollipop Chart

Sum of G and sum of G for each Name.