

4.2 Exercise R Plots

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R Plots

```
##  
## 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
```

```
## Google's Terms of Service: https://cloud.google.com/maps-platform/terms/.
```

```
## Please cite ggmap if you use it! See citation("ggmap") for details.
```

```
##  
## Attaching package: 'plotly'
```

```
## The following object is masked from 'package:ggmap':  
##  
##   wind
```

```
## 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
```

```
##           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
## 6 Kevin Durant 74 39.0 25.3 8.9 18.8 0.476 6.1 7.1 0.863 1.3 3.1 0.422 1.0
##  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
## 6 5.5 6.5 2.8 1.3 0.7 3.0 1.8
```

```
##           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
## 6 4125 DeBarr Road Anchorage Alaska 99508-3115 61.21081 -149.80434
```

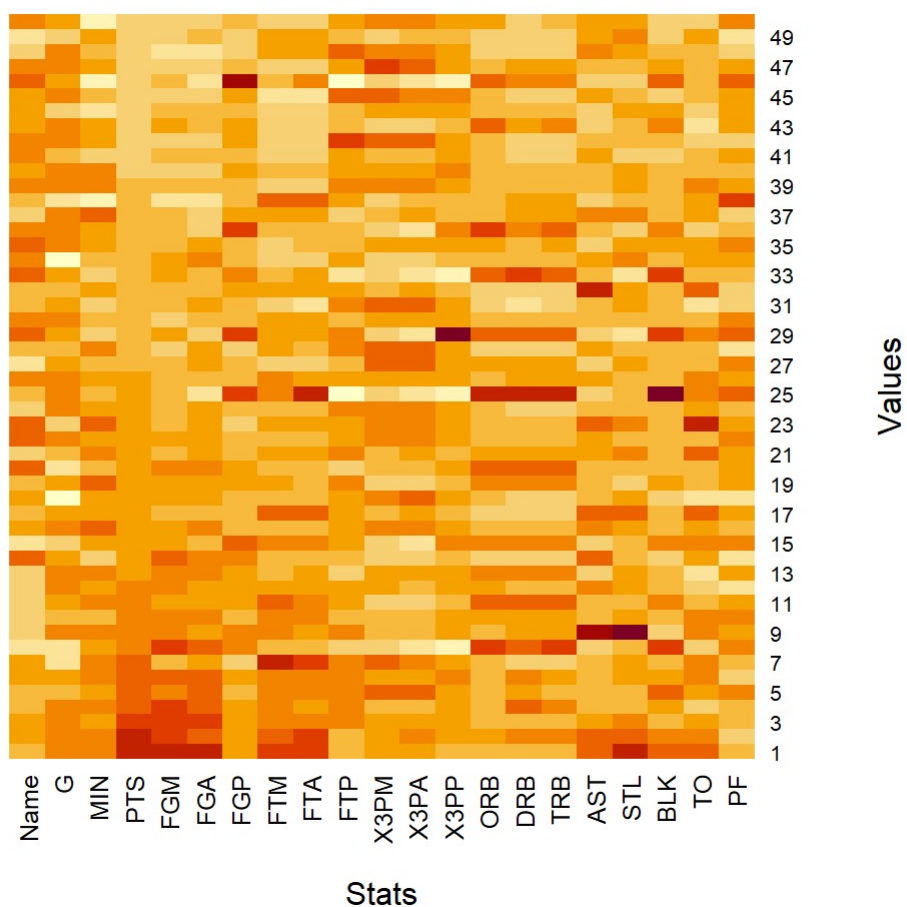
Heat Map

##		G	MIN	PTS	FGM	FGA	FGP	FTM	FTA	FTP	X3PM	X3PA	X3PP	ORB	DRB	TRB
## 1	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	3.9	5.0	
## 2	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	6.3	7.6	
## 3	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	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	7.3	8.4	
## 5	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	4.4	5.1	
## 6	74	39.0	25.3	8.9	18.8	0.476	6.1	7.1	0.863	1.3	3.1	0.422	1.0	5.5	6.5	
## 7	51	38.2	24.6	6.7	15.9	0.420	9.0	10.3	0.867	2.3	5.4	0.415	0.6	3.0	3.6	
## 8	50	36.6	23.1	9.7	19.5	0.497	3.7	5.0	0.738	0.0	0.1	0.000	3.4	7.5	11.0	
## 9	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	
## 10	66	34.5	22.8	8.1	18.3	0.443	5.6	7.1	0.793	1.0	2.6	0.371	1.6	5.2	6.8	
## 11	77	38.1	22.7	8.0	16.4	0.487	6.5	8.0	0.817	0.2	0.6	0.245	2.8	7.2	10.0	
## 12	78	37.2	22.6	8.1	16.9	0.480	5.3	6.5	0.824	1.1	2.8	0.377	1.3	3.4	4.7	
## 13	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	
## 14	72	34.1	22.0	8.9	17.5	0.506	3.9	5.0	0.782	0.3	0.9	0.292	0.4	2.7	3.1	
## 15	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	
## 16	79	39.5	21.4	7.8	18.0	0.437	3.8	4.6	0.826	1.9	5.2	0.360	0.8	3.6	4.4	
## 17	69	36.1	21.3	6.6	15.1	0.438	7.2	8.8	0.820	0.9	3.2	0.291	0.4	2.9	3.3	
## 18	33	36.4	21.2	7.5	16.6	0.455	4.0	4.9	0.814	2.1	5.8	0.366	0.7	2.5	3.2	
## 19	76	39.3	21.0	8.0	17.0	0.472	4.8	5.5	0.884	0.1	0.3	0.240	2.1	6.4	8.5	
## 20	50	35.1	20.8	8.3	17.5	0.475	3.6	4.9	0.734	0.6	1.9	0.330	3.1	6.9	10.1	
## 21	67	38.6	20.8	7.3	16.2	0.453	5.1	6.0	0.858	1.0	3.1	0.310	1.8	4.4	6.2	
## 22	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	
## 23	59	39.7	20.7	7.0	16.9	0.414	5.0	6.0	0.826	1.7	5.2	0.338	1.2	3.9	5.1	
## 24	82	36.6	20.7	7.3	16.0	0.455	4.0	4.7	0.864	2.1	5.1	0.410	0.6	2.8	3.5	
## 25	79	35.7	20.6	7.1	12.4	0.572	6.4	10.7	0.594	0.0	0.0	0.000	4.3	9.6	13.8	
## 26	81	37.4	20.5	6.7	14.6	0.457	5.7	6.8	0.830	1.5	3.8	0.391	0.7	5.0	5.6	
## 27	73	34.9	20.1	7.3	16.6	0.439	3.2	4.0	0.793	2.3	6.4	0.364	1.4	4.9	6.2	
## 28	65	38.1	19.7	6.4	15.7	0.410	4.6	5.3	0.872	2.2	6.1	0.360	0.4	2.6	3.0	
## 29	77	33.6	19.7	7.4	13.4	0.548	4.9	5.7	0.866	0.0	0.0	1.000	2.6	7.2	9.9	
## 30	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	
## 31	74	33.6	19.6	7.3	15.8	0.463	2.7	3.0	0.880	2.3	6.2	0.366	0.5	1.9	2.4	
## 32	68	36.9	19.4	6.8	14.5	0.471	4.8	5.6	0.849	1.0	3.3	0.310	0.4	2.5	2.9	
## 33	75	33.7	19.3	7.4	14.8	0.504	4.5	6.4	0.692	0.0	0.0	0.000	2.7	8.0	10.7	
## 34	25	35.6	19.0	7.8	17.2	0.451	3.1	3.8	0.830	0.3	1.0	0.308	0.6	3.8	4.3	
## 35	79	37.3	18.9	7.2	16.0	0.453	3.3	4.4	0.767	1.1	3.1	0.351	1.4	4.2	5.5	
## 36	81	37.1	18.9	7.3	12.9	0.567	4.2	5.4	0.781	0.0	0.0	0.500	3.2	6.4	9.6	
## 37	82	39.8	18.8	6.6	14.0	0.473	4.6	6.4	0.724	1.0	3.2	0.307	1.1	4.6	5.7	
## 38	51	31.1	18.6	5.7	12.4	0.461	6.7	8.1	0.824	0.5	1.9	0.253	1.0	4.6	5.5	
## 39	82	38.0	18.5	6.9	15.6	0.438	3.0	3.4	0.879	1.8	4.6	0.384	0.7	3.1	3.8	
## 40	79	37.5	18.3	6.5	13.8	0.472	3.6	4.4	0.830	1.6	3.8	0.417	0.7	3.5	4.2	
## 41	67	34.0	18.3	7.0	15.6	0.447	3.3	3.9	0.848	1.0	2.8	0.368	0.7	2.4	3.1	
## 42	79	36.3	18.2	6.3	13.2	0.480	3.0	3.2	0.952	2.5	6.2	0.409	0.8	2.7	3.5	
## 43	81	37.1	18.1	7.4	15.3	0.484	3.2	4.1	0.781	0.1	0.3	0.250	2.9	4.6	7.5	
## 44	52	31.9	18.0	6.8	15.1	0.451	3.3	4.2	0.782	1.1	3.2	0.345	1.1	3.9	5.1	
## 45	81	35.0	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	
## 46	75	30.1	17.8	6.8	11.2	0.609	4.1	6.9	0.595	0.0	0.0	0.000	2.5	5.9	8.4	
## 47	79	36.2	17.7	6.1	13.8	0.439	2.8	3.4	0.836	2.8	7.0	0.397	1.2	4.6	5.7	
## 48	79	35.3	17.7	5.2	12.4	0.418	5.3	5.8	0.913	2.1	5.0	0.408	0.4	2.6	3.0	
## 49	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	3.0	

```
## 50 74 29.9 17.2 6.1 13.9 0.437 3.4 4.0 0.841 1.7 5.2 0.325 1.3 2.6 3.9
##      AST STL BLK TO PF
## 1 7.5 2.2 1.3 3.4 2.3
## 2 7.2 1.7 1.1 3.0 1.7
## 3 4.9 1.5 0.5 2.6 2.3
## 4 2.4 0.8 0.8 1.9 2.2
## 5 2.7 1.0 1.4 2.5 3.1
## 6 2.8 1.3 0.7 3.0 1.8
## 7 2.7 1.2 0.2 2.9 2.3
## 8 1.6 0.8 1.7 1.8 2.8
## 9 11.0 2.8 0.1 3.0 2.7
## 10 3.4 1.1 0.4 3.0 3.0
## 11 2.5 0.9 1.0 2.3 2.5
## 12 5.1 1.1 0.3 1.9 1.6
## 13 1.9 1.2 0.3 1.5 2.7
## 14 6.9 0.9 0.1 2.6 1.5
## 15 2.0 0.9 1.1 2.8 3.1
## 16 5.8 1.1 0.2 2.5 2.2
## 17 6.9 1.7 0.2 3.1 2.4
## 18 2.7 1.1 0.1 1.6 1.4
## 19 2.3 0.6 0.9 2.1 2.7
## 20 2.1 0.9 0.3 2.3 2.7
## 21 4.3 1.6 0.3 3.1 2.5
## 22 4.7 1.0 0.5 2.1 2.9
## 23 6.5 1.5 0.5 3.9 2.6
## 24 3.4 0.9 0.3 2.4 2.2
## 25 1.4 1.0 2.9 3.0 3.4
## 26 3.6 1.0 0.3 2.8 2.7
## 27 1.4 1.2 0.3 2.2 3.1
## 28 4.4 0.9 0.2 2.3 1.4
## 29 1.8 0.4 1.9 3.0 3.3
## 30 2.4 0.8 0.2 2.0 3.1
## 31 3.4 1.3 0.3 1.6 1.9
## 32 10.7 1.1 0.3 3.4 2.0
## 33 3.5 0.5 1.7 2.2 2.3
## 34 3.7 1.6 0.3 2.7 2.7
## 35 1.7 1.2 0.7 2.6 2.8
## 36 3.5 0.6 1.0 1.9 2.1
## 37 5.3 1.6 0.4 2.7 1.9
## 38 1.8 0.9 0.2 2.4 3.8
## 39 3.2 1.1 0.2 2.8 2.5
## 40 3.2 1.1 0.3 2.1 2.3
## 41 4.4 0.6 0.1 2.0 2.6
## 42 2.8 0.9 0.2 1.7 2.0
## 43 1.9 1.0 1.0 1.5 2.6
## 44 1.6 1.1 0.6 1.7 2.6
## 45 4.1 0.9 0.1 2.2 2.7
## 46 1.7 0.7 1.4 2.2 3.4
## 47 2.6 1.0 0.6 2.0 2.5
## 48 6.4 1.2 0.2 2.2 2.0
## 49 5.0 1.5 0.1 2.6 1.5
```

```
## 50 4.1 1.3 0.1 1.9 2.8
```

NBA Stats of 2008 Season



Spatial Plot

Contour Plot

