Data Presentation and Visualization

Heat Maps, Spatial Charts, & Lollipop Charts

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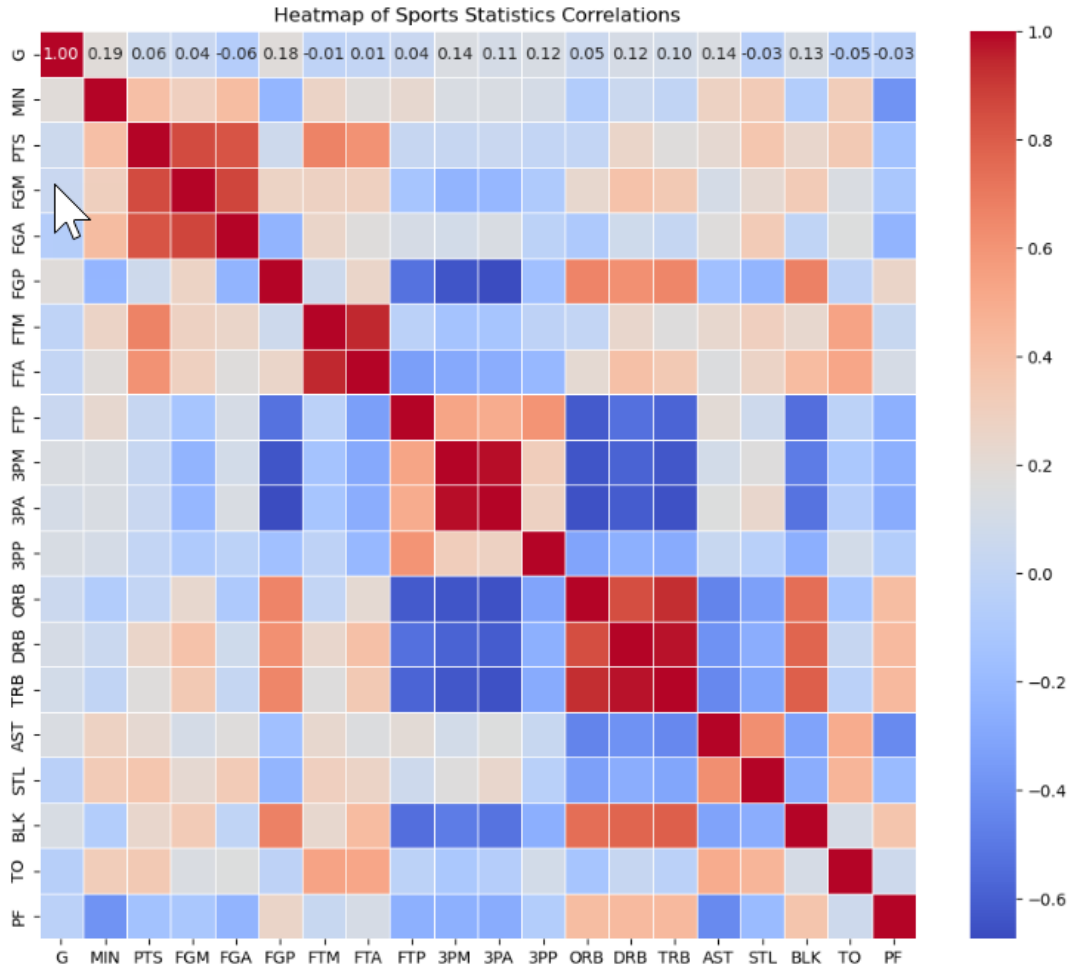
Introduction

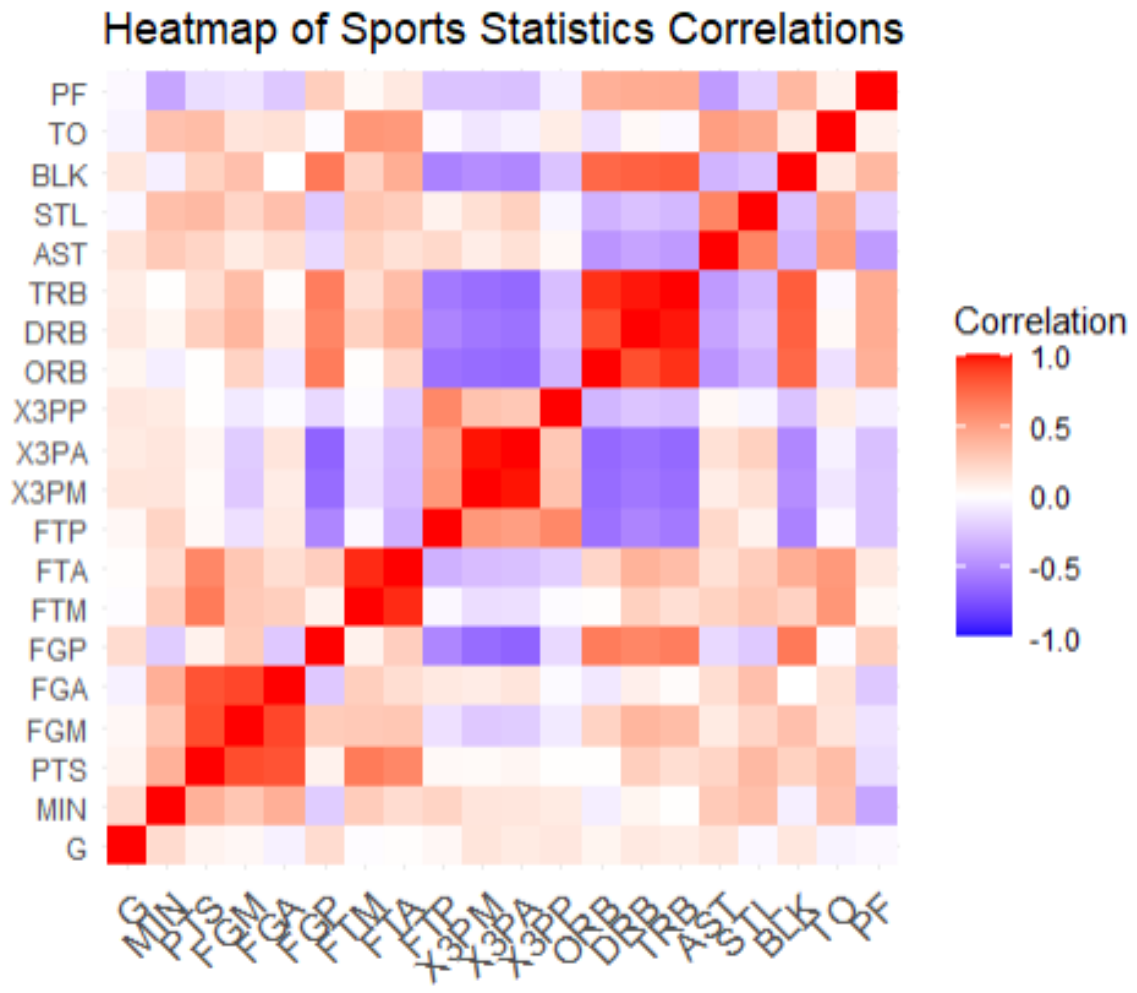
The goal here is to create a consolidated document displaying three charts generated using Python, R, and Power BI. The chart types are heat maps, spatial charts, and lollipop charts.

For these, I have used two datasets related to Costco's locations (longitude and latitude) and data statistics about sports.

Heat Map – Python



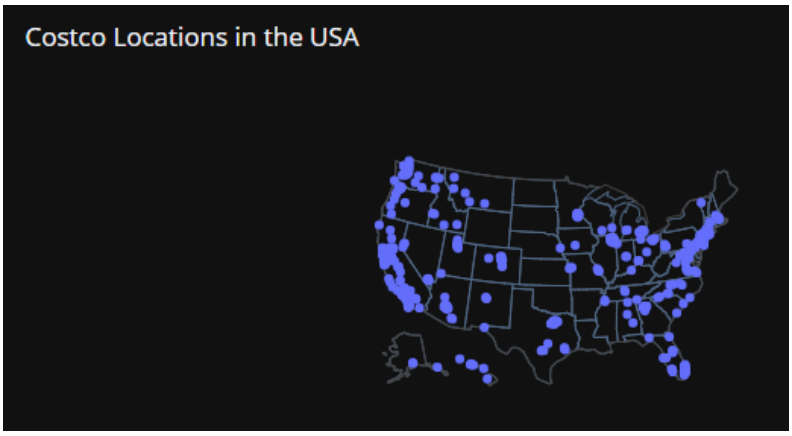
Heat Map – R


Heatmap of Sports Statistics Correlations
PF
TO
BLK
STL
AST
TRB
DRB
ORB
X3PP
X3PA
X3PM
FTP
FTA
FTM
FGP
FGA
FGM
PTS
MIN
G
Correlation
1.0
0.5
0.0
-0.5
-1.0

Heat Map – Power BI

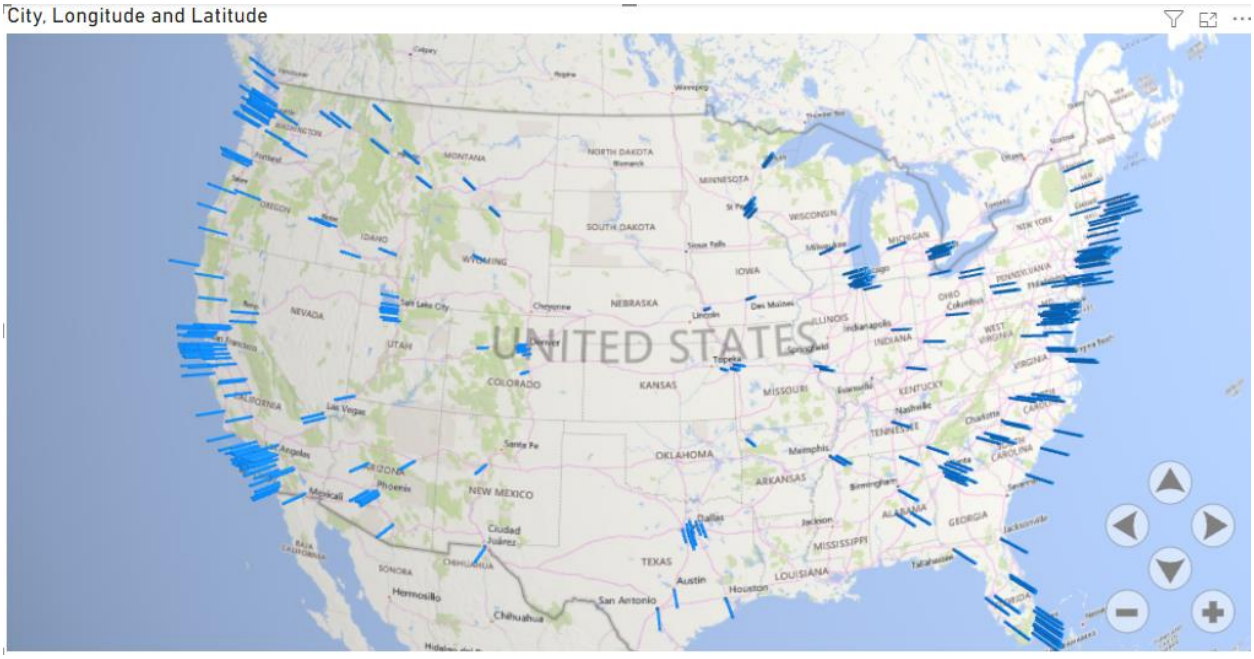
Name	Sum of PTS
Al Harrington	20.10
Al Jefferson	23.10
Allen Iverson	17.50
Amare Stoudemire	21.40
Andre Iguodala	18.80
Antawn Jamison	22.20
Ben Gordon	20.70
Brandon Roy	22.60
Carmelo Anthony	22.80
Caron Butler	20.80
Chauncey Billups	17.70
Chris Bosh	22.70
Chris Paul	22.80
Corey Maggette	18.60
Danny Granger	25.80
David West	21.00
Deron Williams	19.40
Devin Harris	21.30
Dirk Nowitzki	25.90
Dwight Howard	20.60
Dwyane Wade	30.20
Jamal Crawford	19.70
Jason Terry	19.60
Joe Johnson	21.40
John Salmons	18.30
Josh Howard	18.00
Kevin Durant	25.30
Kevin Martin	24.60
Kobe Bryant	26.80
Total	**1,043.10**

Spatial Chart – Python

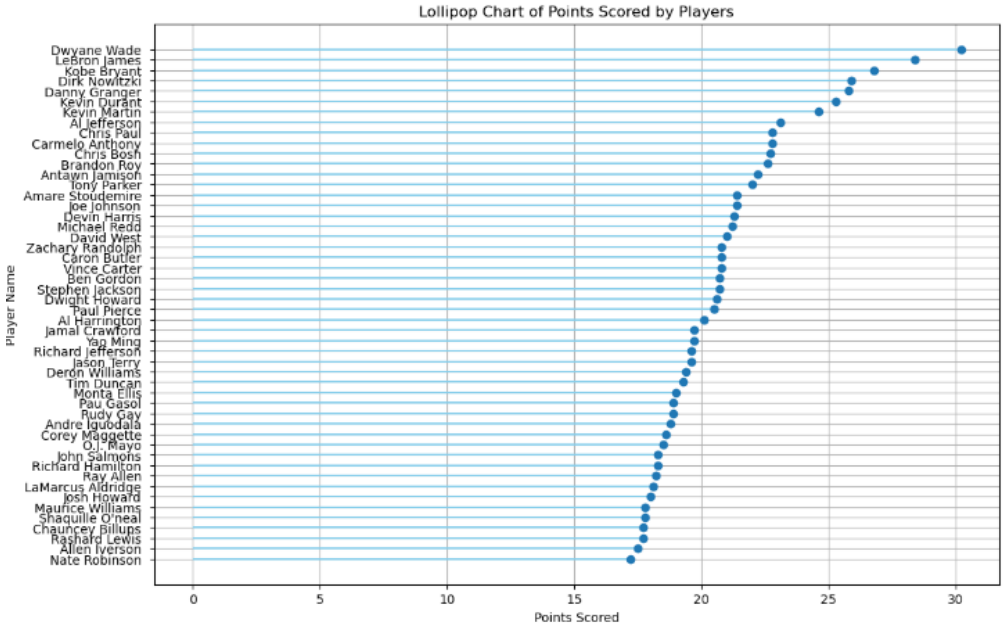


Spatial Chart – R

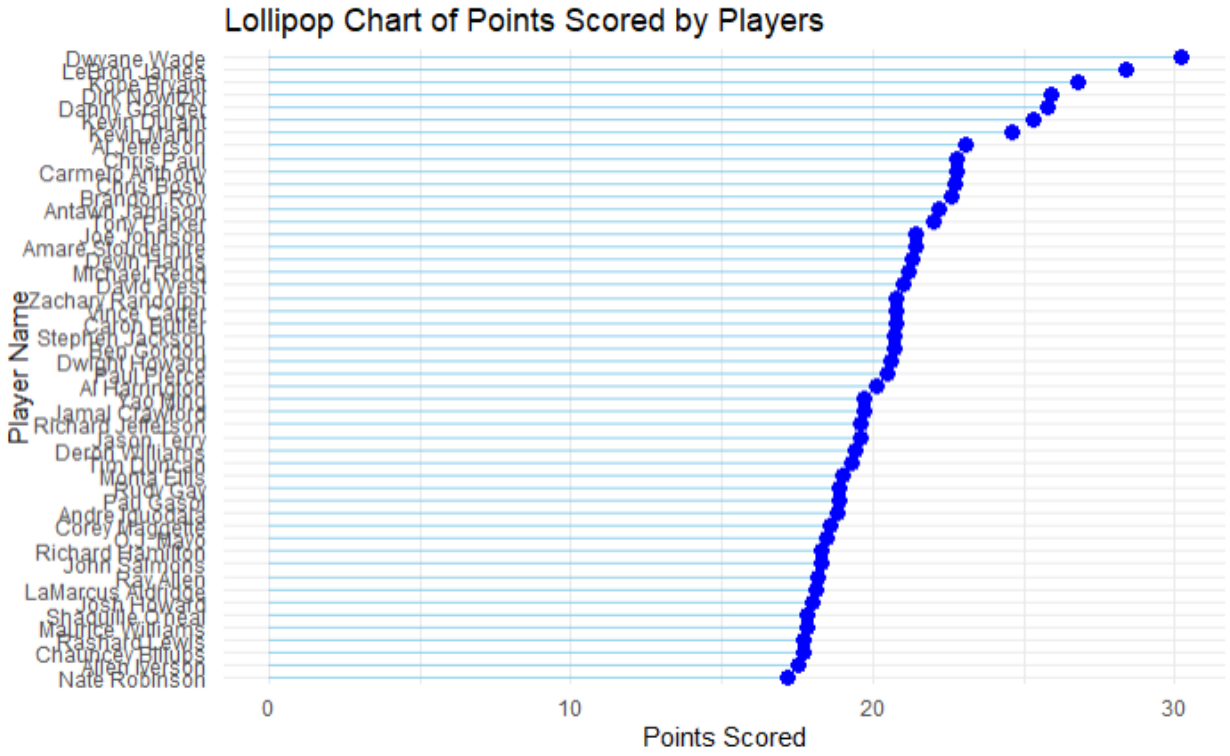
Spatial Chart – Power BI



Lollipop Chart – Python



Lollipop Chart – R



Lollipop Chart – Power BI