Data Visualizations and Dashboard with Tableau

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Project

1. In this project, we will be exploring the trends and patterns through various visualizations of Fifa18 Dataset which contains more than 17k players with 70 different attributes.
2. We will be focusing on effective attributes that help us visualize the data better

World Map

It shows the world map of all the countries that were part of Fifa 18, with numbers on countries telling count of players

Dark Blue countries has higher overall ratings and Dark Orange has lower overall ratings
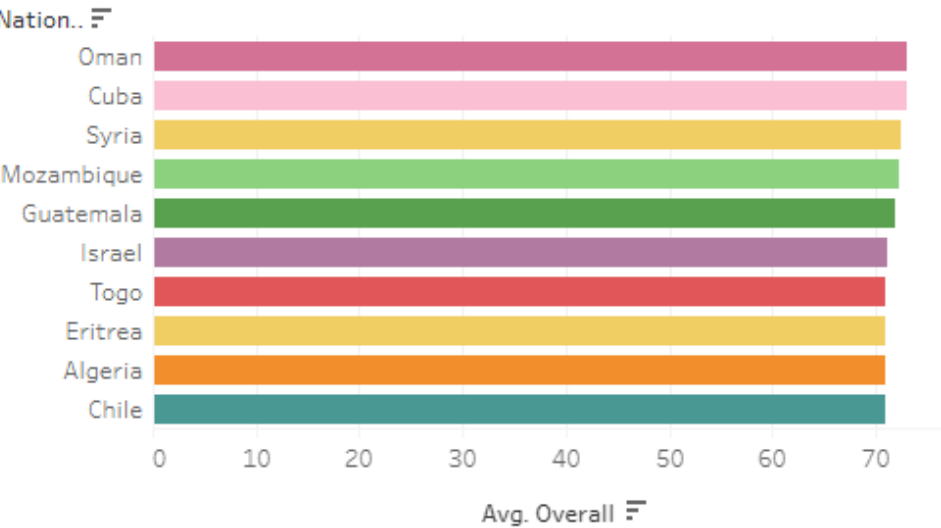
Average ratings and number of players

Firstly, here are the top countries with Average overall ratings

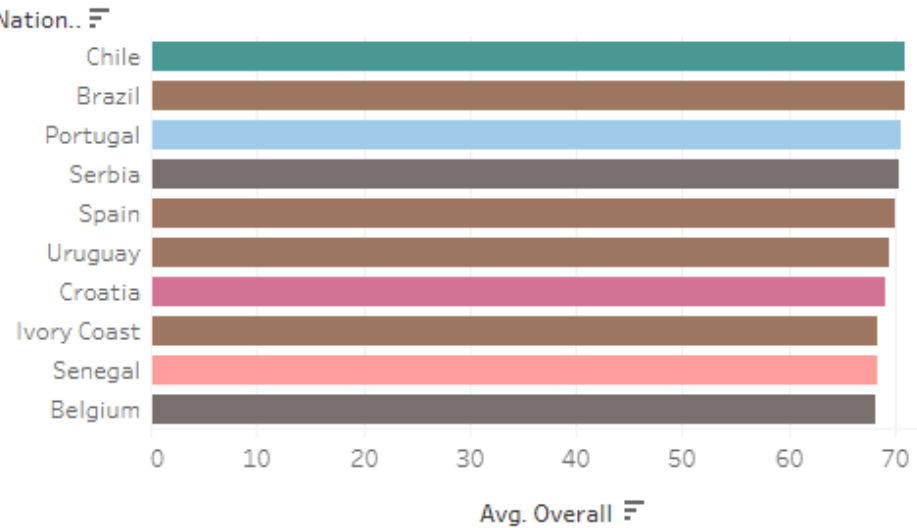However, this data contains countries with only 1 player

Secondly, the same chart but here countries has more than 100 players.

Here, the Average is 66 and most of the countries are around this line.

Top Countries by Avg Ratings

Nation..

Oman	
Cuba	
Syria	
Mozambique	
Guatemala	
Israel	
Togo	
Eritrea	
Algeria	
Chile	

Avg. Overall

Avg Ratings and more than 100 players

Nation..

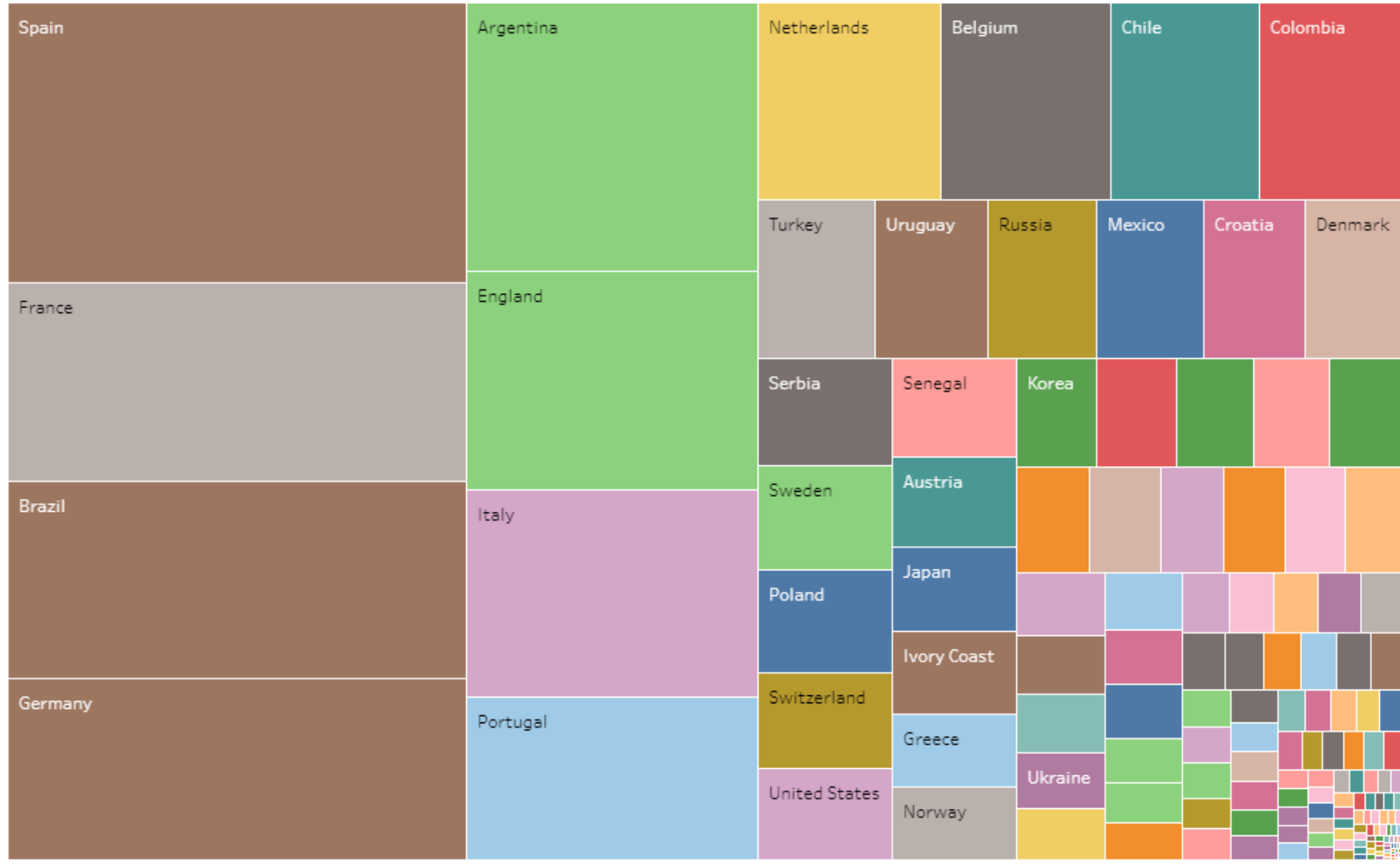|	
Chile	
Brazil	
Portugal	
Serbia	
Spain	
Uruguay	
Croatia	
Ivory Coast	
Senegal	
Belgium	

Avg. Overall

Tree Map of Market Value

Here is the treemap of Total Market Value by Countries

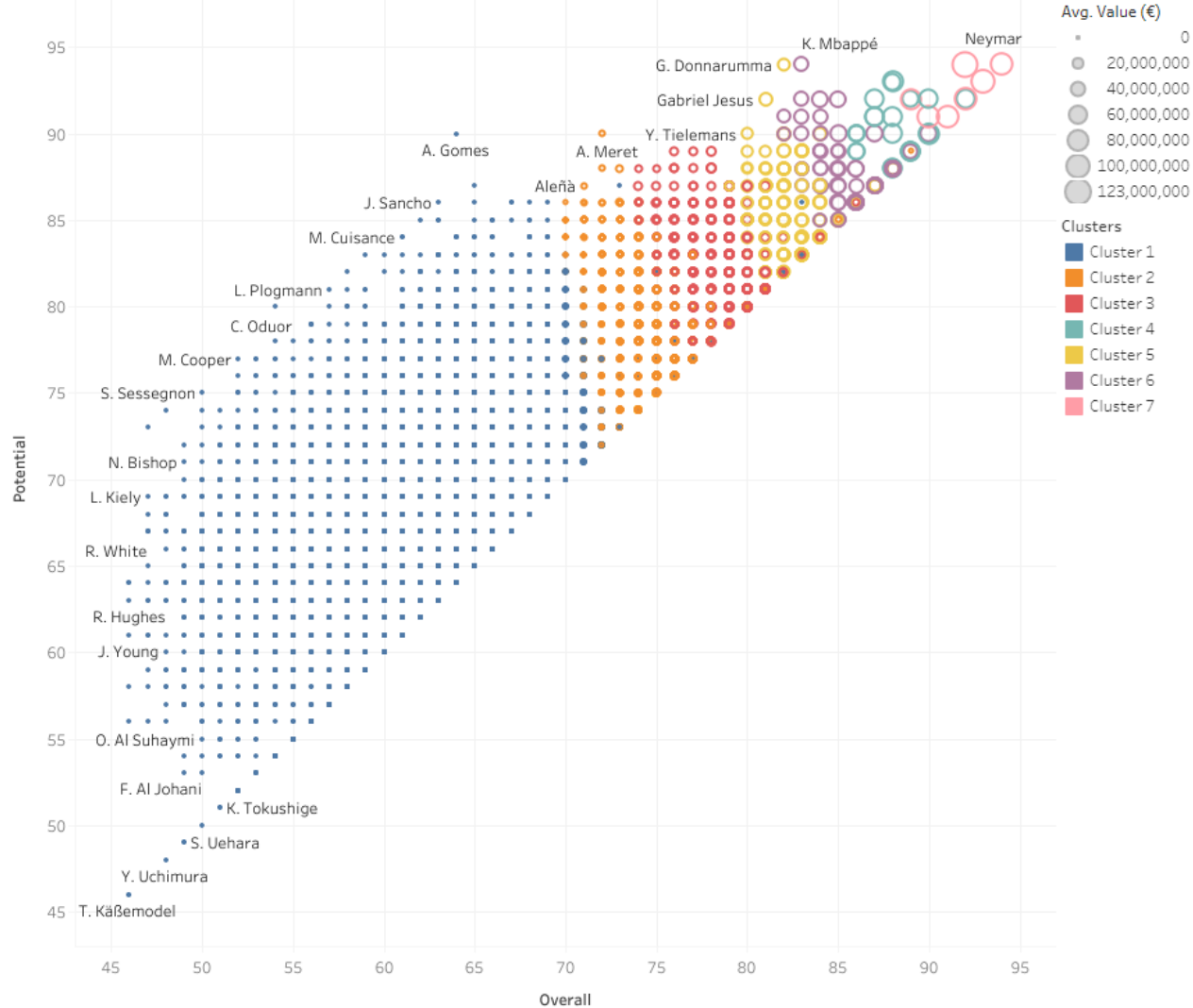Here 8 out of top 10 countries are European

Scatter Plot

Here data is divided in 7 clusters

And size of the circle represents the average value of the player

7th cluster consists of players like Cristiano Ronaldo, Neymar, Messi, Suarez, Lewandowski, Hazard, and K. De Bruyne

Interestingly these players also has higher overall and potential ratings.

Heatmap

Heatmap of Correlation of Strength and overall rating of the clubs, secondly correlation of the Potential and Overall ratings of the club

Correlation Strength/Overall

Club
West Bromwich Albion
Burnley
CSKA Moscow
Rangers
Derby County
VfL Wolfsburg
UD Almería
Roma
Chievo Verona
Middlesbrough
Real Zaragoza
Palermo
Chelsea
Real Sociedad
TSG 1899 Hoffenheim
Club Atlas
Hannover 96
Club América
Bayer 04 Leverkusen
Tottenham Hotspur
Crystal Palace
Sunderland
Ipswich Town
OGC Nice
Stade Rennais FC
Everton
FC Groningen
Cardiff City
Associação Atlética Ponte..
Zenit St. Petersburg
FC Basel
Terek Grozny
Hamburger SV
Inter
Villarreal CF
AZ Alkmaar

Correlation Potential/Overall

Club
Associação Atlética Ponte..
Botafogo de Futebol e Re..
CD Antofagasta
CD Huachipato
CD Universidad de Concep..
Club de Deportes Temuco
Colo-Colo
Cruzeiro
Deportes Iquique
Everton de Viña del Mar
Santiago Wanderers
Santos Futebol Clube
São Paulo Futebol Clube
Sport Club do Recife
Unión Española
Universidad Católica
Universidad de Chile
Vitória
Atlético Clube Goianiense
Grêmio Foot-Ball Porto Al..
San Luis de Quillota
Avaí Futebol Clube
Clube Atlético Paranaense
Associação Chapecoense ..
Fluminense Football Club
Coritiba Foot Ball Club
Clube Atlético Mineiro
Audax Italiano
Curicó Unido
Sociedade Esportiva Palm..
CD Palestino
CD O'Higgins
Sangju Sangmu FC
Burnley
Shakhtar Donetsk
Club Tijuana

Corr. Strength & Overall
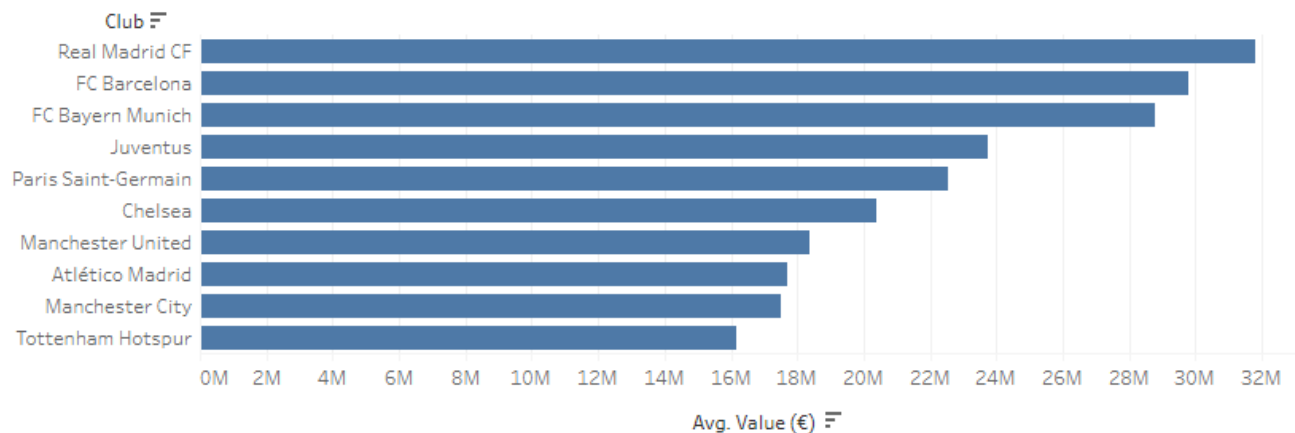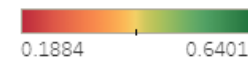
-0.311   0.818

Corr. Potential & Overall

-0.188   1.000

Top 10 Correlation

Above mentioned Heatmap but slightly tuned, it contains data of top 10 clubs by value
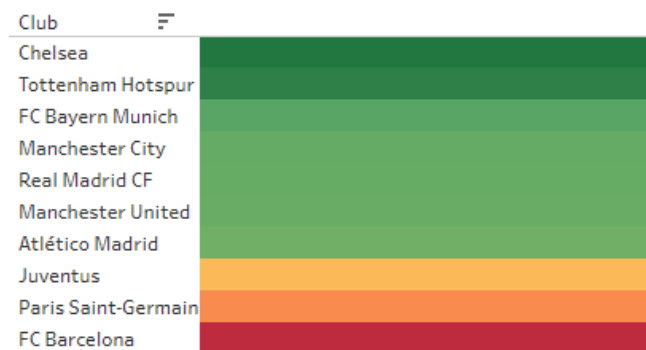
Top 10 Clubs with Average Value

Club ≡

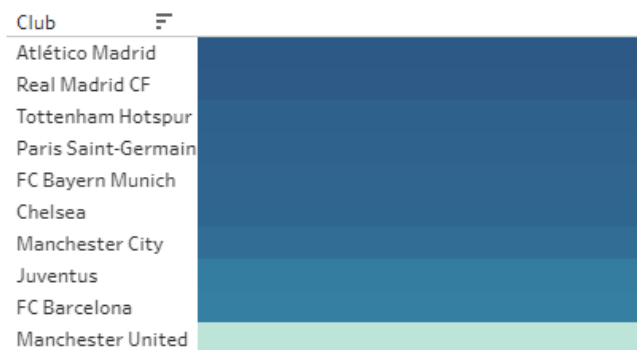| Club	
Real Madrid CF	
FC Barcelona	
FC Bayern Munich	
Juventus	
Paris Saint-Germain	
Chelsea	
Manchester United	
Atlético Madrid	
Manchester City	
Tottenham Hotspur	

0M 2M 4M 6M 8M 10M 12M 14M 16M 18M 20M 22M 24M 26M 28M 30M 32M

Avg. Value (€) ≡

Corr. Strength & Overall

0.1884   0.6401

Corr. Potential & Overall

0.5219   0.8393

Correlation Strength/Overall (Top 10)

Club ≡

- Chelsea
- Tottenham Hotspur
- FC Bayern Munich
- Manchester City
- Real Madrid CF
- Manchester United
- Atlético Madrid
- Juventus
- Paris Saint-Germain
- FC Barcelona

Correlation Potential/Overall

Club ≡

- Atlético Madrid
- Real Madrid CF
- Tottenham Hotspur
- Paris Saint-Germain
- FC Bayern Munich
- Chelsea
- Manchester City
- Juventus
- FC Barcelona
- Manchester United
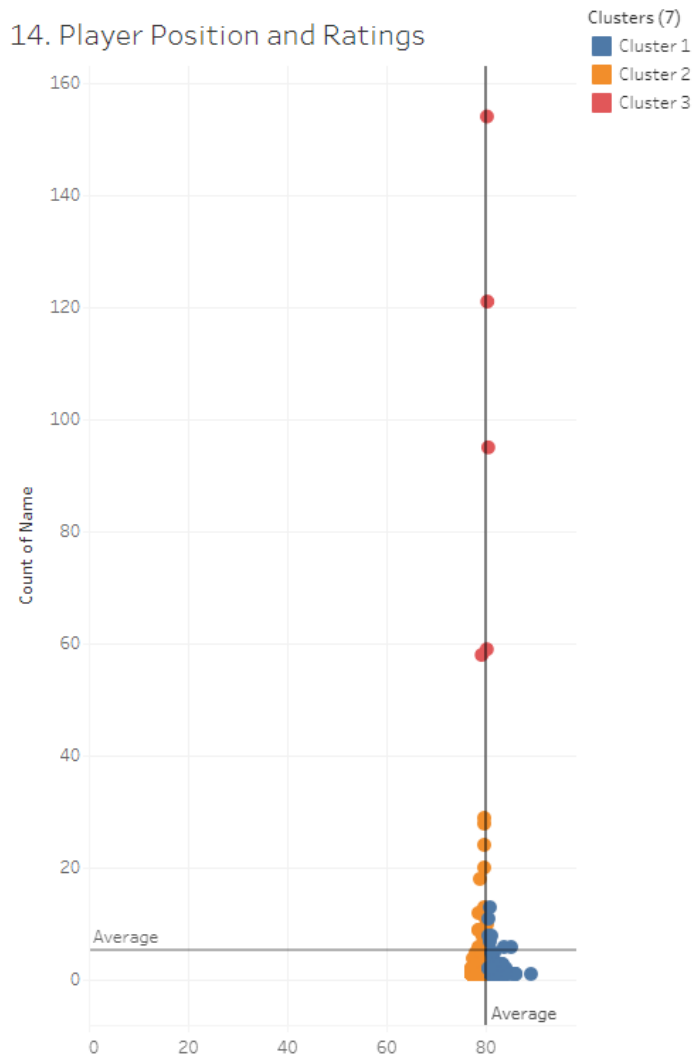
Age Heatmap

Player position and rating, interestingly ST, CM, CDM, CB and GK are best preference of positions by top rated players. Fascinatingly, they all lie in the middle.

14. Player Position and Ratings

Presentation Ends here