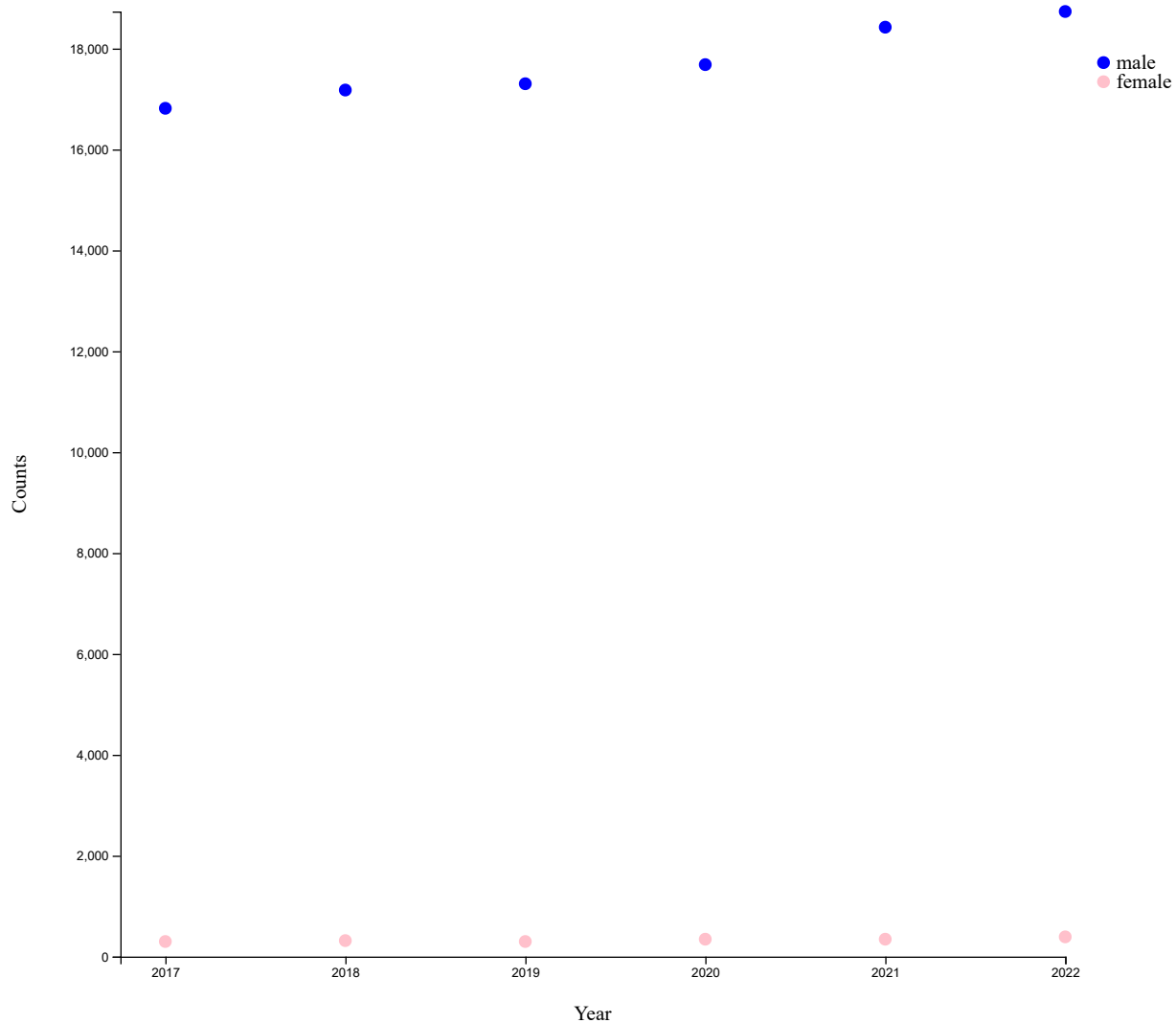


Final Project

Question 1: Difference between the number of male vs. female athletes from FIFA17 - FIFA20

Male vs. Female 2017-2020

Plot:



Answer:

2017: 16517
2018: 16861
2019: 17004
2020: 17337
2021: 18079
2022: 18344

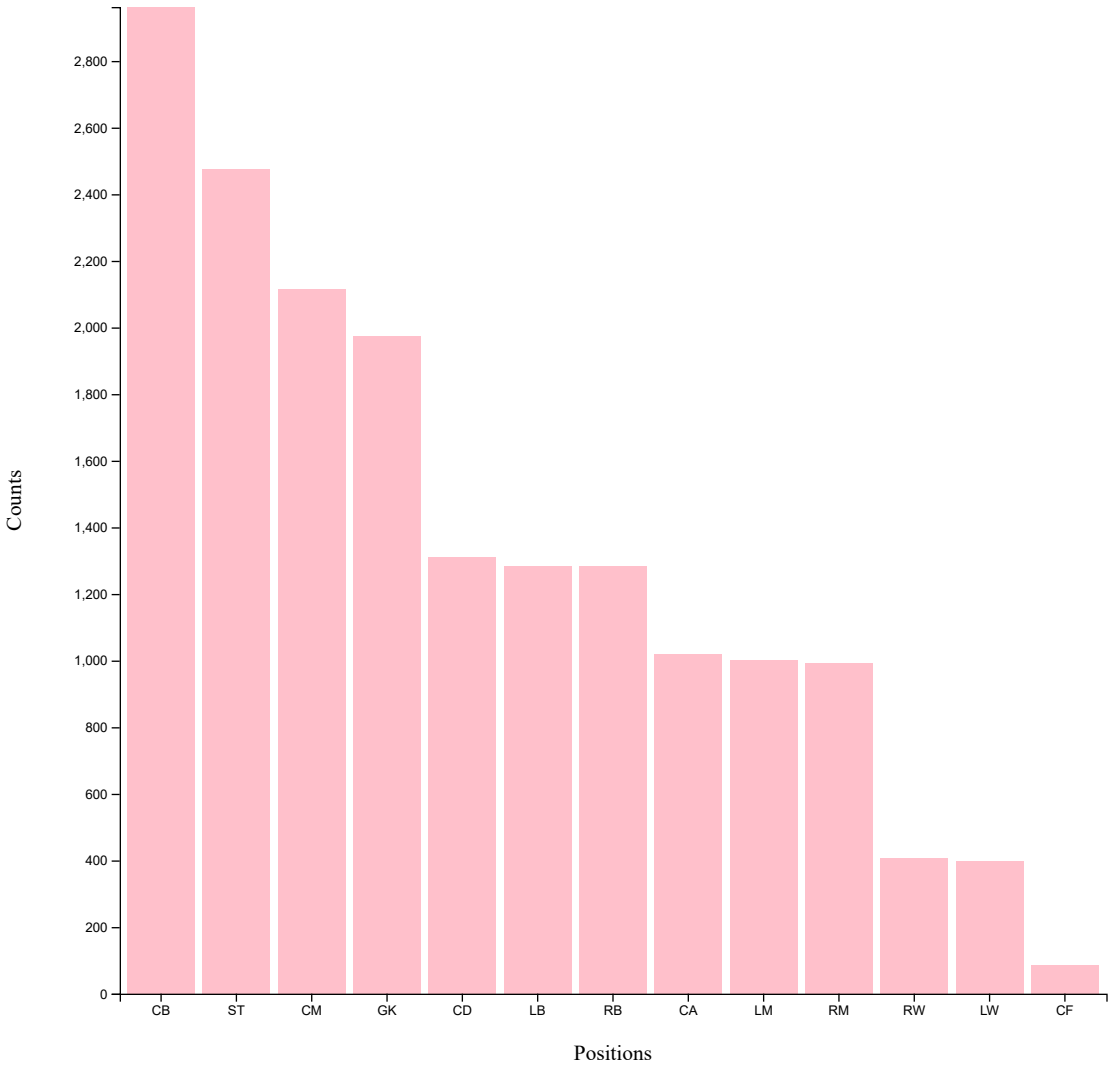
I used higher saturation color(blue) vs lower saturation(light pink) for this graph because it is better for point marks. The mark in this graph is point since it is a scatter plot. The channels includes position and color.

Question 2: Find the Number of male players in each position in 2019

Male Count by Positions in 2019

Sort

Plot:



Answer:

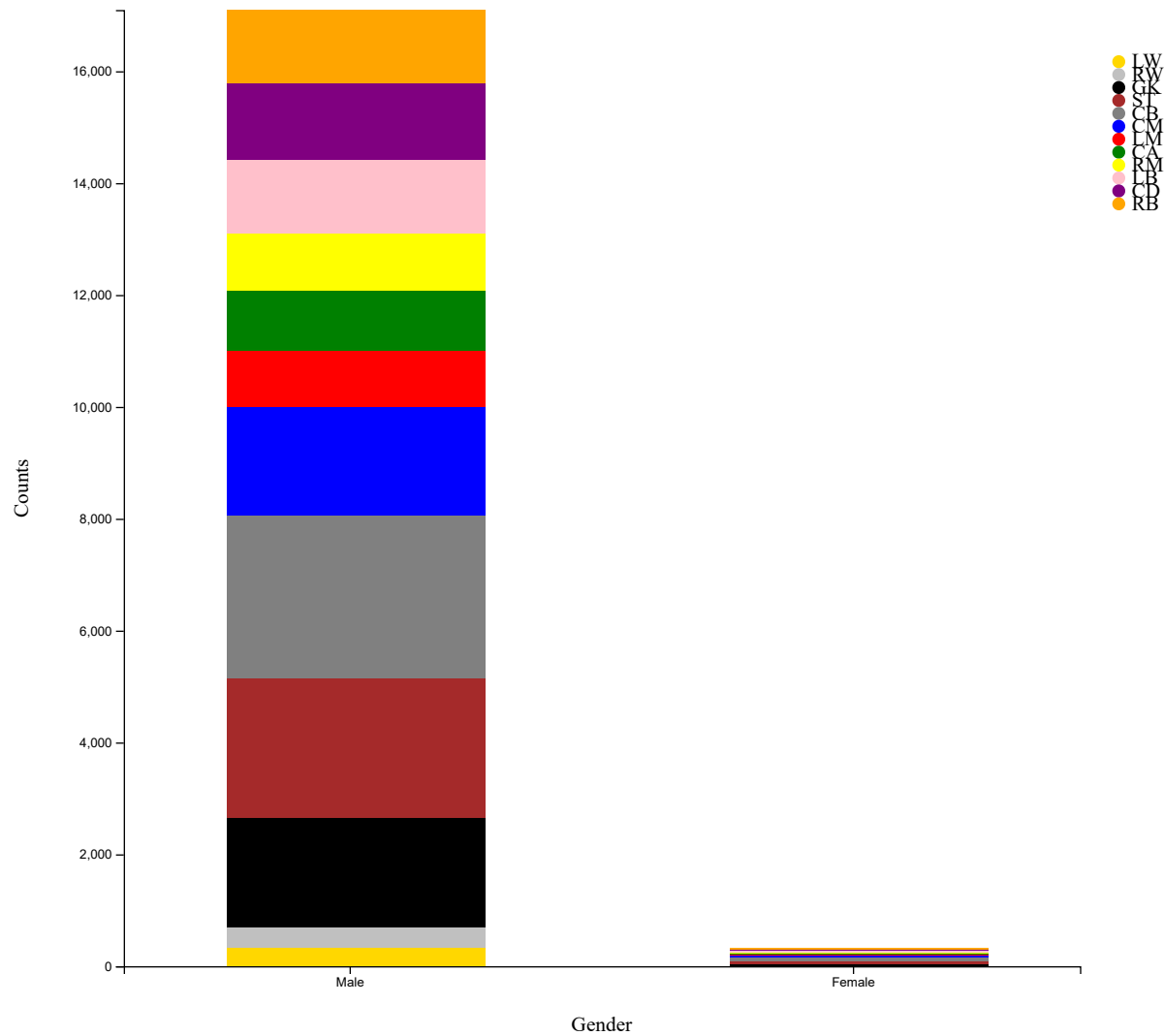
ST : 2475
CF : 87
LW : 397
CB : 2962
CM : 2116
CA : 1019
GK : 1973
CD : 1309
RW : 406
LB : 1284
LM : 1001
RM : 991
RB : 1283

The color I used here is pink(low saturation) because a bar chart uses area. The mark is lines and the channel is position. There is a small problem with this graph, sometimes the sorting/default will malfunction, but if you refresh the page a few times then it will work properly again LOL

Question 3:

Distribution of player positions of male and female players in 2018

Plot:



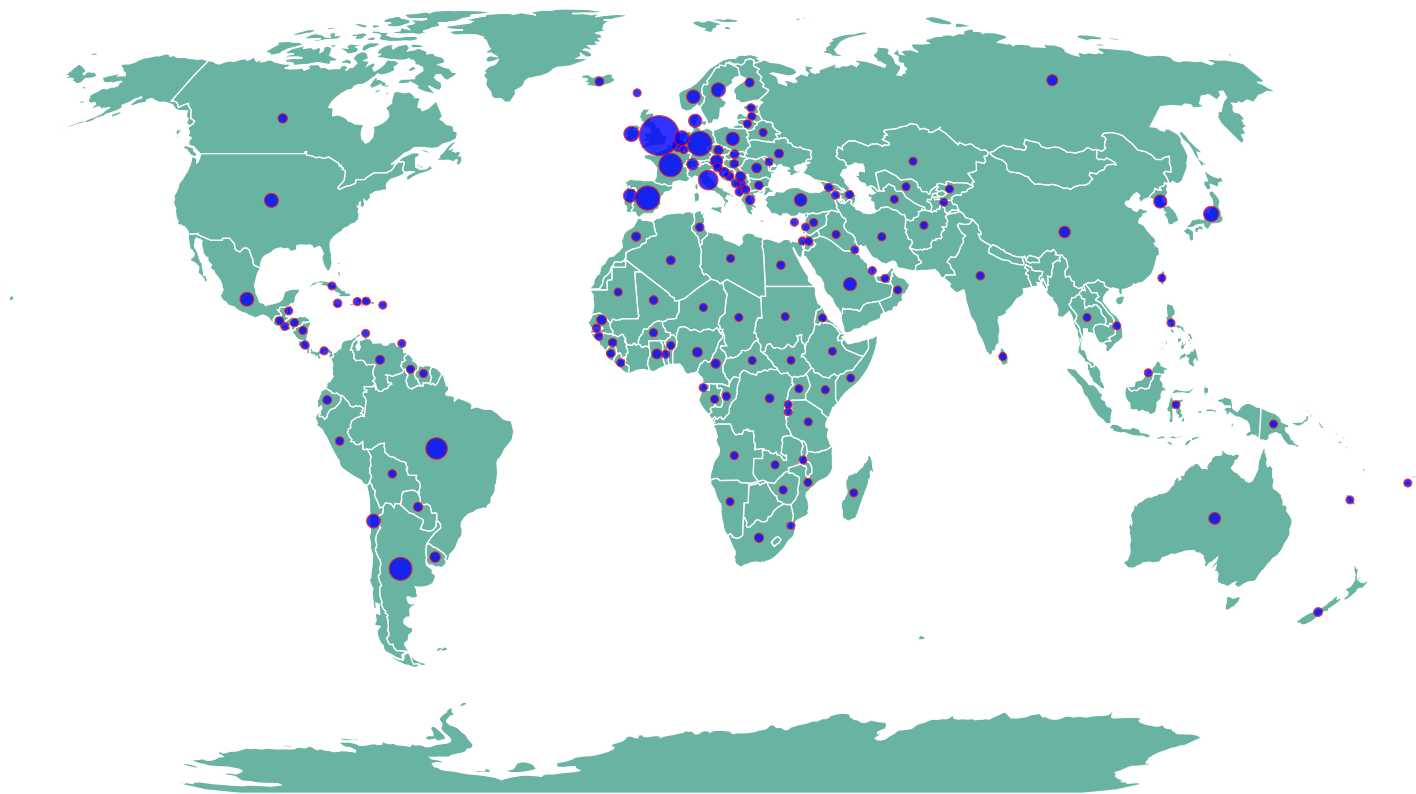
Answer:

Gender: Male, LW: 337, RW: 365, GK: 1957, ST: 2481, CB: 2910, CM: 1955, LM: 1000, CA: 1074, RM: 1021, LB: 1316, CD: 1375, RB: 1304,
Gender: Female, LW: 2, RW: 6, GK: 37, ST: 56, CB: 55, CM: 42, LM: 14, CA: 20, RM: 20, LB: 30, CD: 16, RB: 19,
The color I used a list of colors that is easy to differentiate because it is a stacked bar chart. The mark is lines and the channels are position and color.

Question 4:

Players count by countries from 2017-2020

Plot:



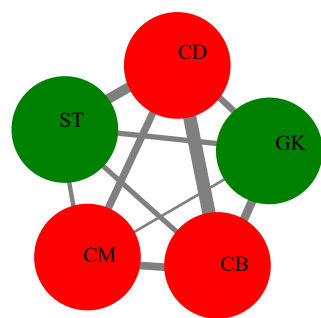
Answer:

The color I used are blue points and green map because it is easy to read. The mark used is point, and the channelis position and size of point.

Question 5:

Difference of top 5 players positions in 2019

Plot:



Answer:

Difference between ST and CD is 1195
Difference between ST and GK is 517
Difference between ST and CB is 481

Difference between ST and CM is 383
Difference between CD and GK is 678
Difference between CD and CB is 1676
Difference between CD and CM is 812
Difference between GK and CB is 998
Difference between GK and CM is 134
Difference between CB and CM is 864

The colors I used are red and green, both are high saturated colors because I'm working with points (nodes). The marks are point (nodes) and line (the connection) and channels includes color and size (length).