FIFA 2018 Player Data

Visualizing player attributes with Tableau

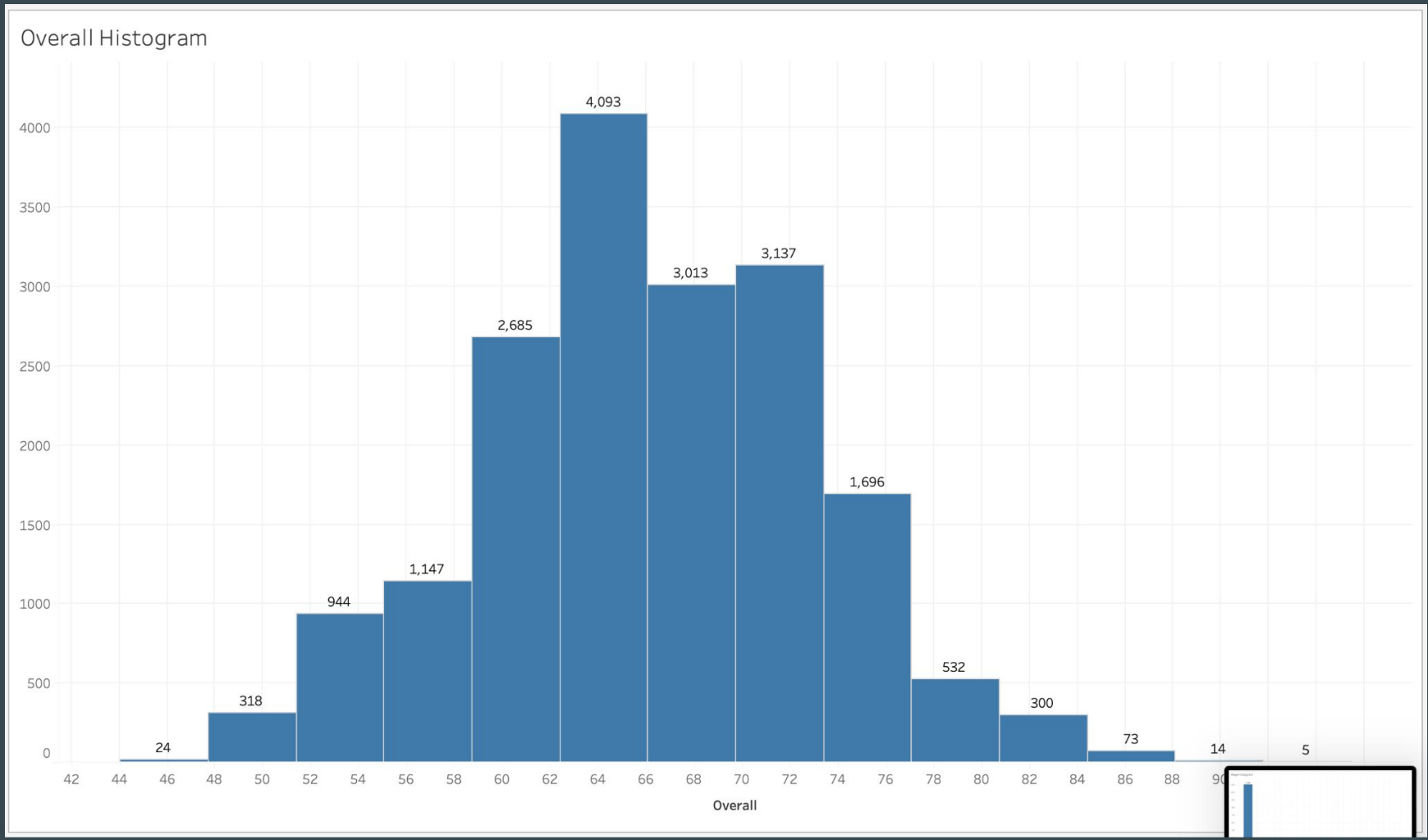
Project Goals

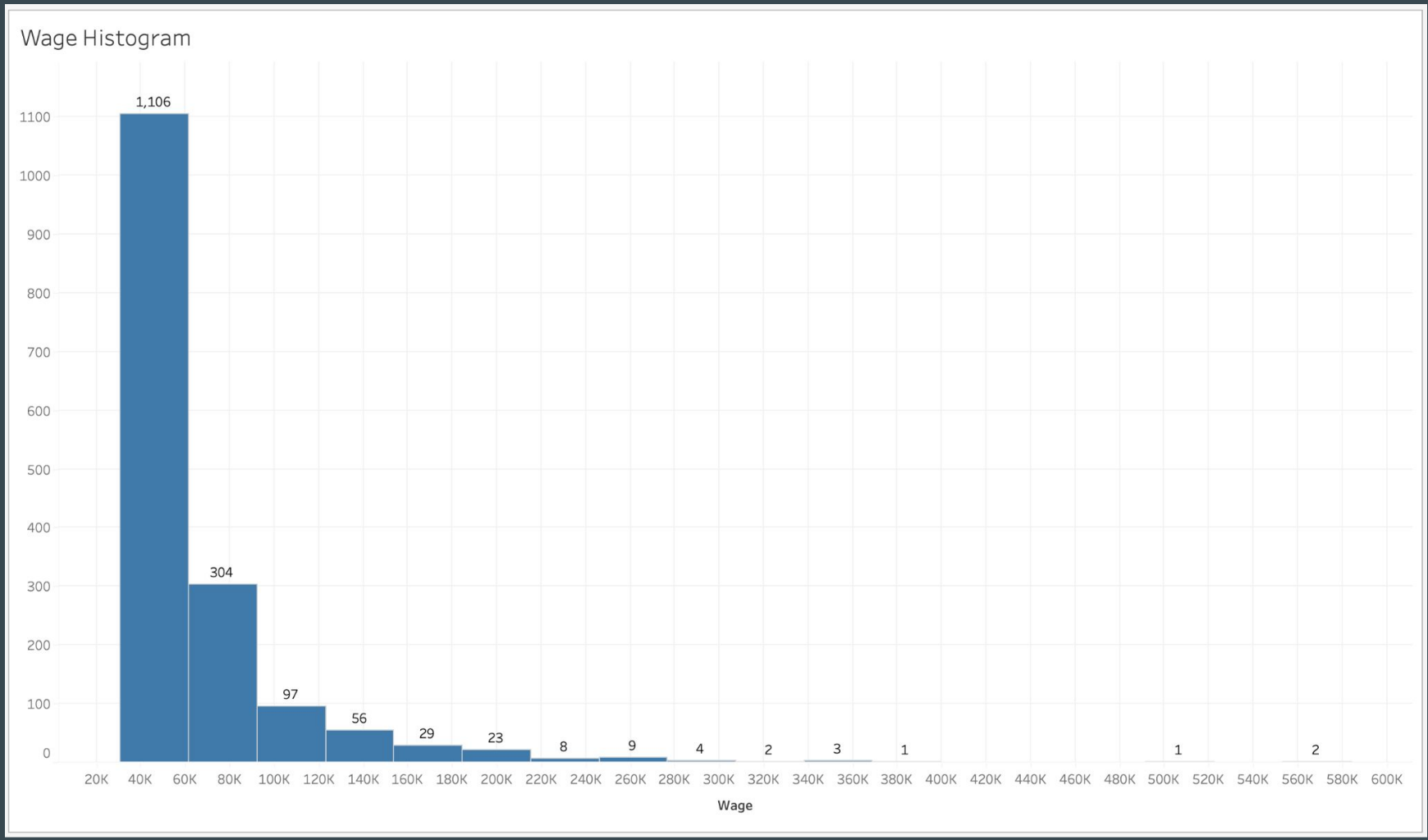
- Perform exploratory data analysis (EDA) on FIFA 2018 video game player data
- Attempt to discover interesting correlations from the data using visualizations
- Analyze player wages vs player overall score to see how players are overvalued/undervalued

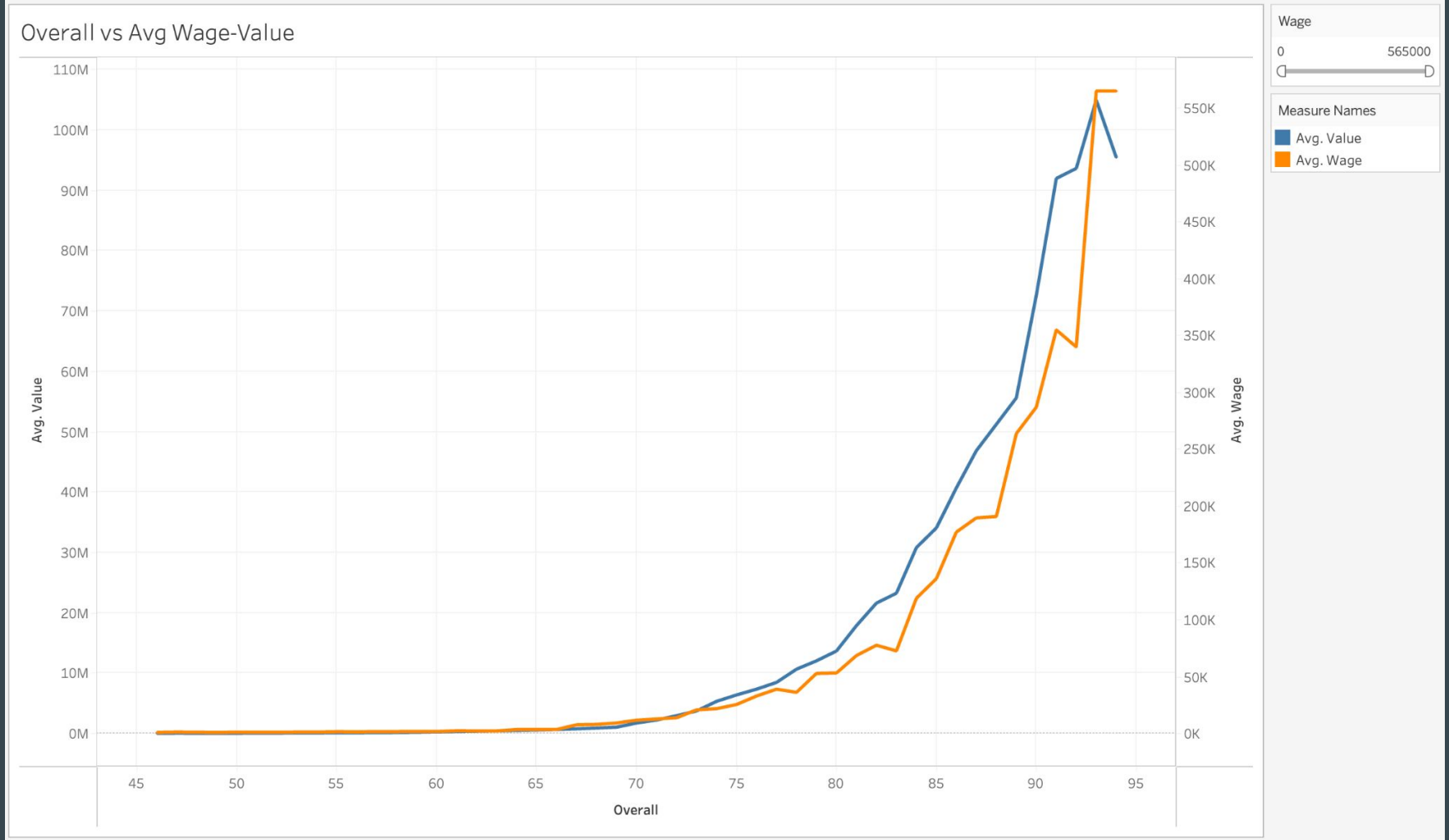
Process

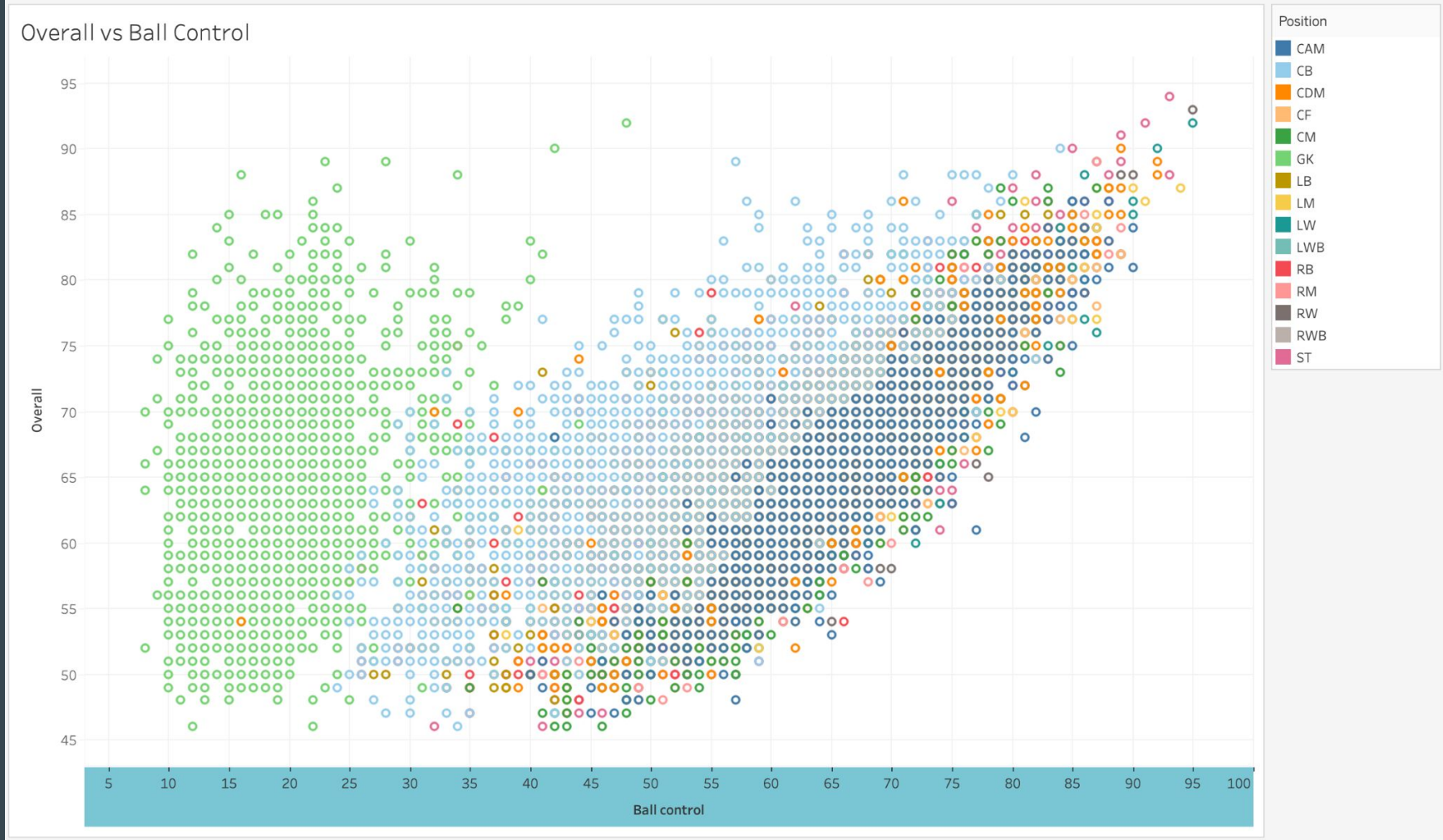
- Step 1: download, clean, and upload dataset to Tableau
- Step 2: Create EDA visualizations
- Step 3: Add visualizations to a dashboard

Results

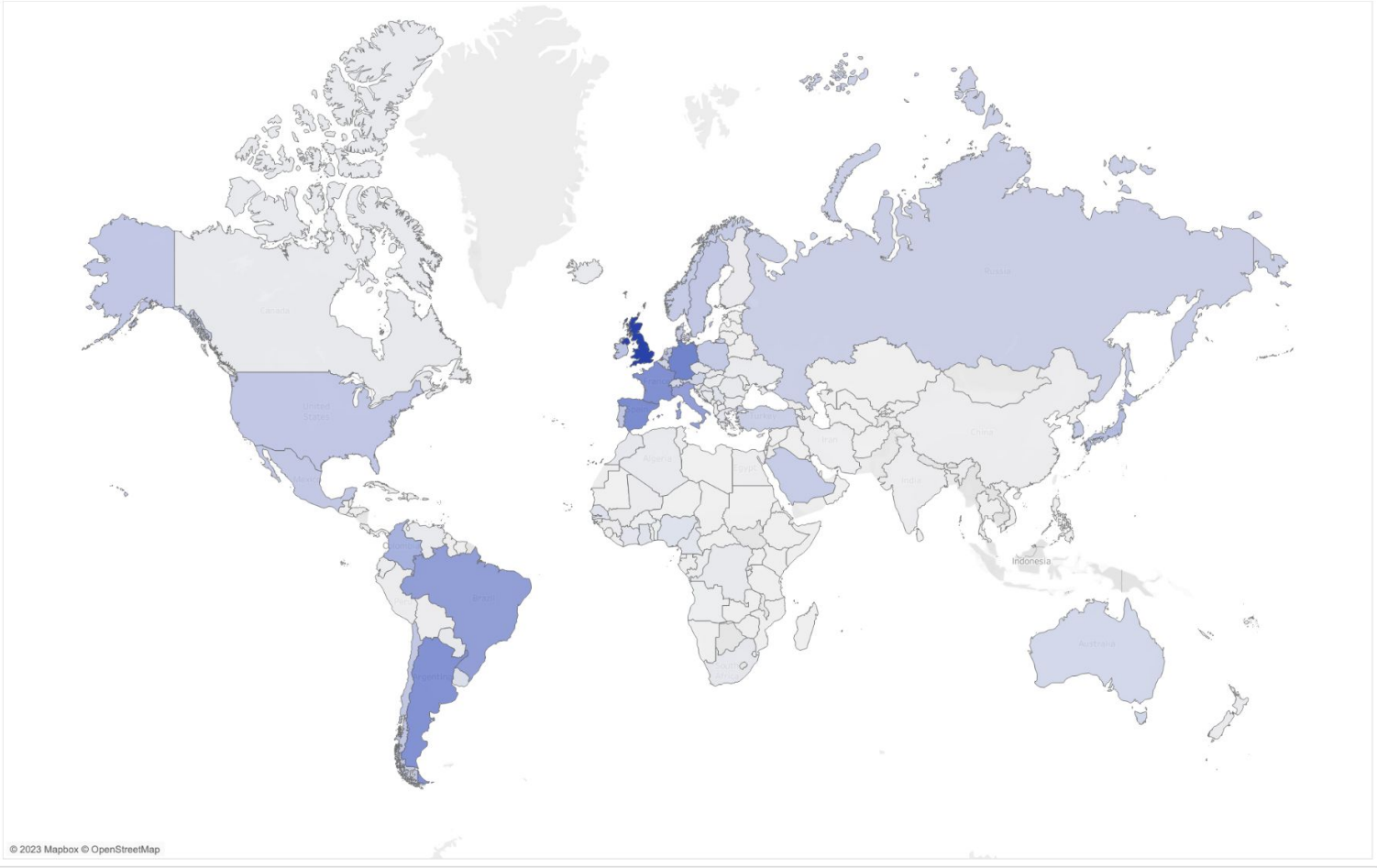

Overall Histogram
4,093
3,137
3,013
2,685
1,696
1,147
944
532
318
300
73
24
14
5
4000
3500
3000
2500
2000
1500
1000
500
0
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
84
86
88
Overall


Wage Histogram
1,106
304
97
56
29
23
8
9
4
2
3
1
1
2
0
100
200
300
400
500
600
700
800
900
1000
1100
20K
40K
60K
80K
100K
120K
140K
160K
180K
200K
220K
240K
260K
280K
300K
320K
340K
360K
380K
400K
420K
440K
460K
480K
500K
520K
540K
560K
580K
600K
Wage

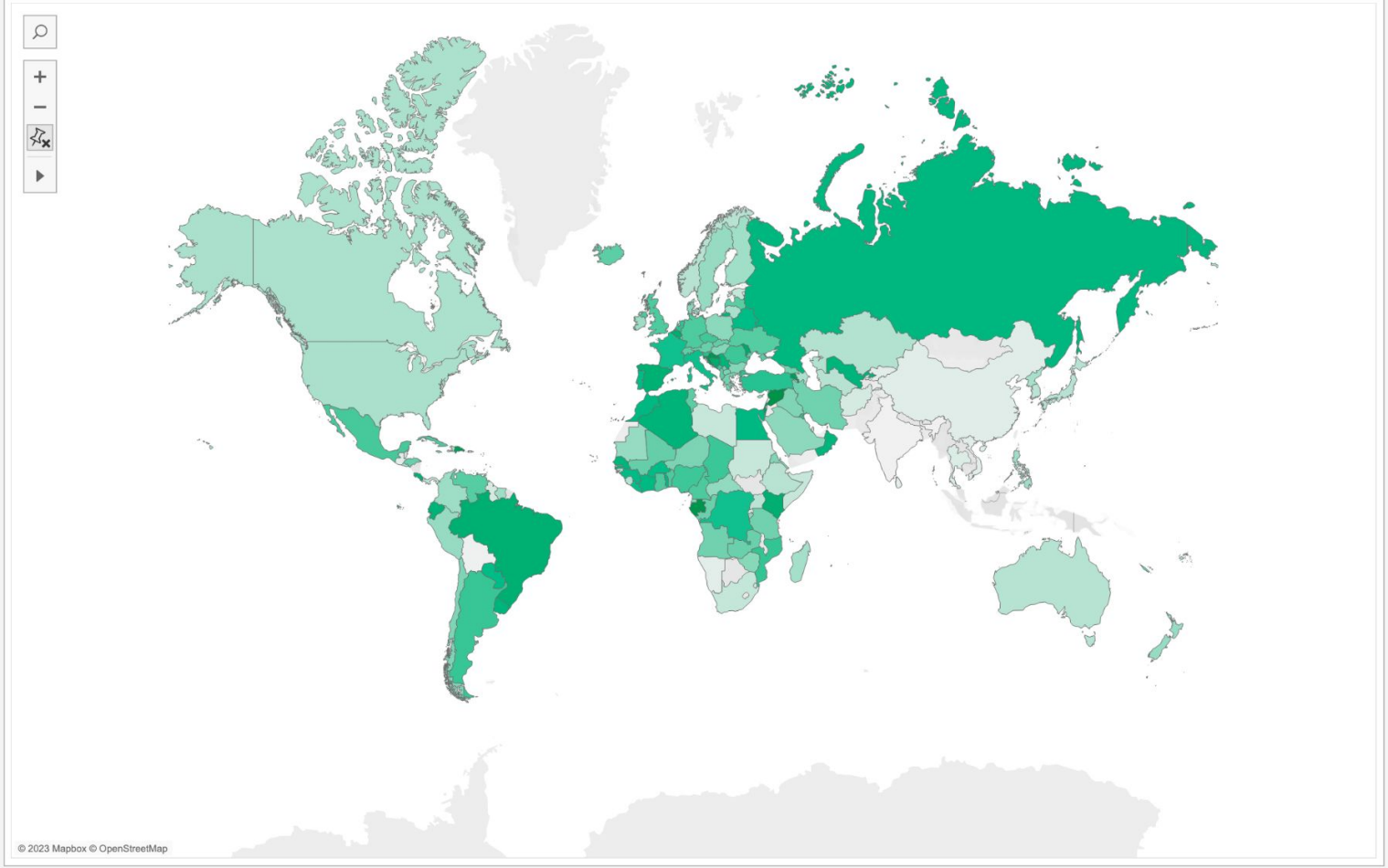

Overall vs Avg Wage-Value
110M
100M
90M
80M
70M
60M
50M
40M
30M
20M
10M
0M
Avg. Value
550K
500K
450K
400K
350K
300K
250K
200K
150K
100K
50K
0K
Avg. Wage
45
50
55
60
65
70
75
80
85
90
95
Overall
Wage
0
565000
Measure Names
Avg. Value
Avg. Wage


Overall vs Ball Control
Overall
95
90
85
80
75
70
65
60
55
50
45
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
Ball control
Position
CAM
CB
CDM
CF
CM
GK
LB
LM
LW
LWB
RB
RM
RW
RWB
ST

Players by Nationality



Average Wage by Nationality



Conclusions

Teams should target “middle of the pack” players

- Player wages increase exponentially with player overall rating
- An increase from 85 to 90 overall rating (5% increase) results in a 100% increase in salary
- Assuming team strength is an average of player overall ratings, stronger teams can be built for cheaper by targeting “middle of the pack” players

Ball control is only important for some positions

- There is a clear linear relationship between ball control rating and overall rating for forwards and midfielders
- The variance is relatively low for forwards and midfielders, suggesting ball control is a very important statistic for these positions
- For defenders there is still a linear relationship, but the variance is greater. This means other statistics have a greater effect on defenders' overall rating.
- Ball control is not an important statistic for goaltenders

Player counts and wages by nationality yield interesting results

- Most players come from Europe (UK in particular), but players from Syria and Gabon earn significantly more than players from the UK on average (~25,000 vs ~11,000 Euros)
- This may be due to outliers in the data, or possibly because the players from Syria and Gabon that turn professional have a higher chance of being exceptional
- Teams may be biased towards “middle of the pack” players from their own country, and not seek out players in Syria and Gabon with similar skill levels