Name of activity (Assignment: Visualizations): 11.3 Exercise Visualization

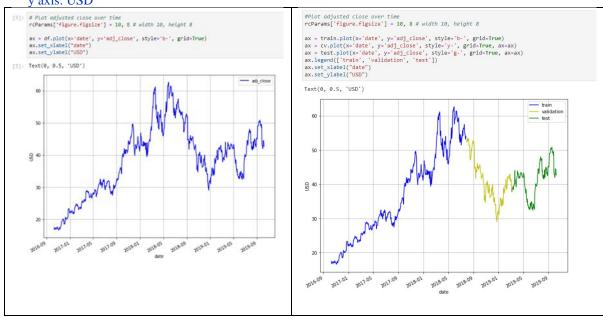
Your name: Huilin Chang, Gladies Your UVA computing ID:hc5hq

Exercise: Visualizations

line plot: Micron Stock Price Trend Chart

I tried to understand the Micron daily stock price using a trend chart to see the changes of the stock price over time. Parameters:

x axis: date y axis: USD

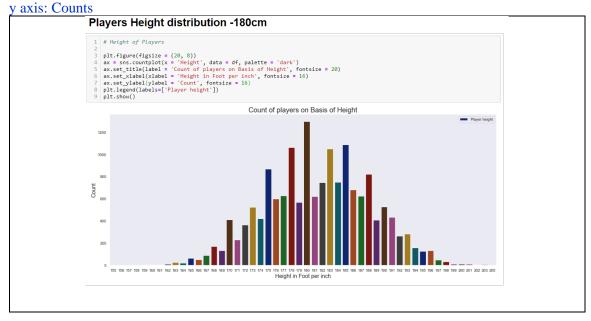


bar plot

I tried to understand the distribution of player's height in FIFA. To do this I used a bar plot to count the number of participants' height.

Parameters:

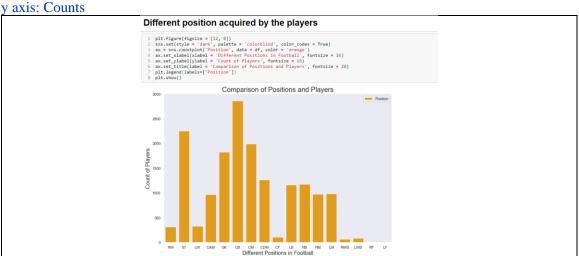
x axis: Height



I tried to understand the distribution of player's position in FIFA. To do this I used a bar plot to count the number of participants' position in.

Parameters:

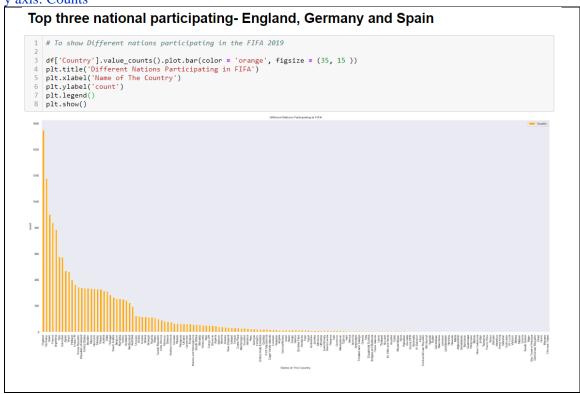
x axis: Height



I tried to understand the ranking of countries by estimating which country has more participants in FIFA. To do this I used a bar plot to count the number of participants.

Parameters:

x axis: Country y axis: Counts



histogram

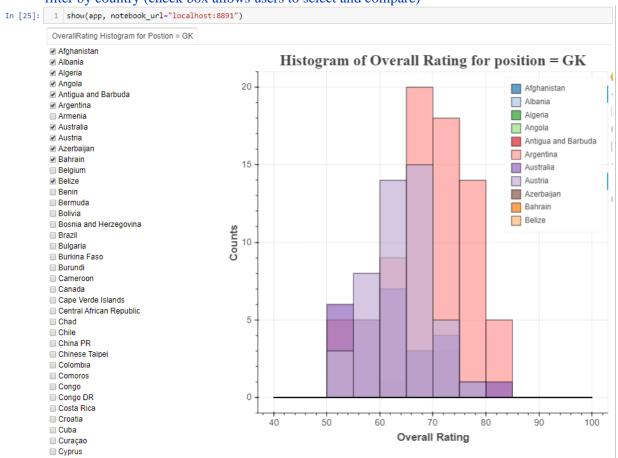
(interactive plot)

I'm interested in trying to understand the overall rating distribution from different countries. I used Histogram plots to compare the distribution of each country' performance.

Parameters:

x axis: Overall Rating y axis: Counts

filter by country (check box allows users to select and compare)

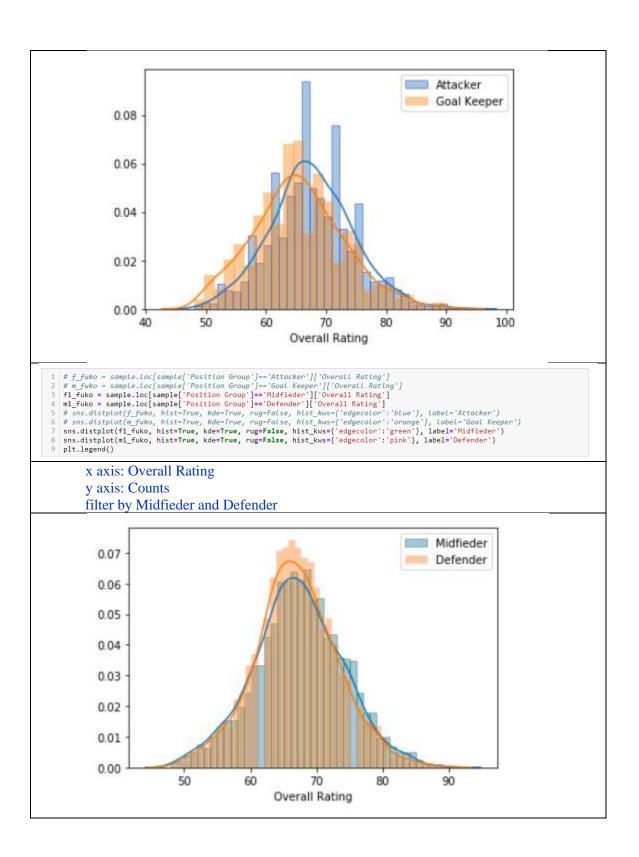


I'm interested in trying to understand the overall rating distribution from position group. I used Histogram plots to compare the distribution of players' position performance.

```
f_fuko = sample.loc[sample['Position Group']=='Attacker']['Overall Rating']
m_fuko = sample.loc[sample['Position Group']=='Goal Keeper']['Overall Rating']
# f1_fuko = sample.loc[sample['Position Group']=='Midfieder']['Overall Rating']
# m1_fuko = sample.loc[sample['Position Group']=='Defender']['Overall Rating']
sns.distplot(f_fuko, hist=True, kde=True, rug=False, hist_kws={'edgecolor':'blue'}, label='Attacker')
sns.distplot(fm_fuko, hist=True, kde=True, rug=False, hist_kws={'edgecolor':'orange'}, label='Goal Keeper')
# sns.distplot(f1_fuko, hist=True, kde=True, rug=False, hist_kws={'edgecolor':'green'}, label='Midfieder')
# sns.distplot(m1_fuko, hist=True, kde=True, rug=False, hist_kws={'edgecolor':'pink'}, label='Defender')
plt.legend()
```

x axis: Overall Rating y axis: Counts

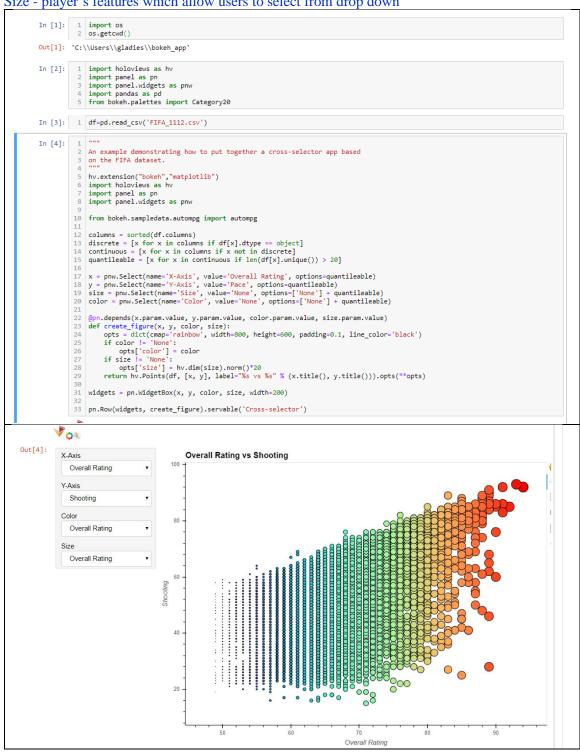
filter by Attacked and Goal Keeper

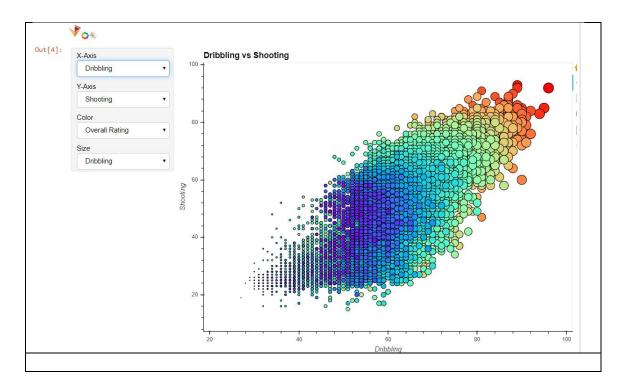


Scatter plot (interactive)

I tried to understand the attributes of FIFA players needed to obtain a higher performance score. A scatter plot was used with variables x, y as attributes.

Parameters -x, y, player features which allow users to select from drop down Color- player's features which allow users to select from drop down Size - player's features which allow users to select from drop down





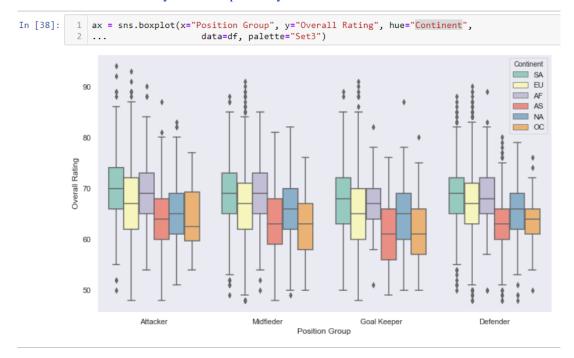
box plot

I tried to understand the statistical distribution (medium, 25 quantile, 75 quantile) of top position group by using box plot.

Parameters

x axis: Position Group, y-axis: Overall Rating filter by Continent

We can do either side by side or separate by each continent



Out[41]: <seaborn.axisgrid.FacetGrid at 0x1b5681dd710>

