



# NBA Players - Croatia First

The analysis was made with the aim of exploring **NBA Players** (1996-22) database and finding the best **Croatian players** in selected time period!

Source: [www.kaggle.com](https://www.kaggle.com)

# Database and the very first challenge!

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 12305 entries, 0 to 12304
Data columns (total 22 columns):
#   Column              Non-Null Count  Dtype
---  ---
0   Unnamed: 0           12305 non-null  int64
1   player_name          12305 non-null  object
2   team_abbreviation    12305 non-null  object
3   age                  12305 non-null  float64
4   player_height        12305 non-null  float64
5   player_weight        12305 non-null  float64
6   college              12305 non-null  object
7   country              12305 non-null  object
8   draft_year           12305 non-null  object
9   draft_round          12305 non-null  object
10  draft_number         12305 non-null  object
11  gp                    12305 non-null  int64
12  pts                   12305 non-null  float64
13  reb                   12305 non-null  float64
14  ast                   12305 non-null  float64
15  net_rating            12305 non-null  float64
16  oreb_pct              12305 non-null  float64
17  dreb_pct              12305 non-null  float64
18  usg_pct               12305 non-null  float64
19  ts_pct                12305 non-null  float64
20  ast_pct               12305 non-null  float64
21  season                12305 non-null  object
dtypes: float64(12), int64(2), object(8)
memory usage: 2.1+ MB
```

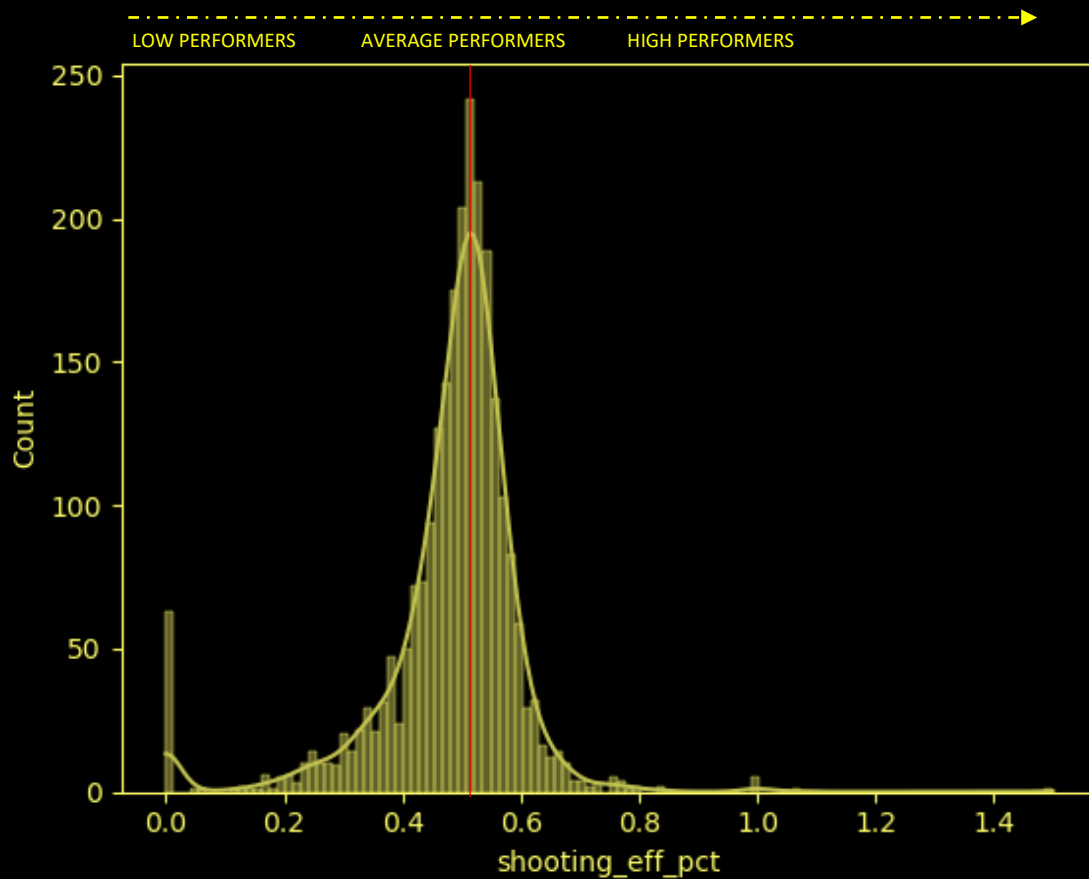
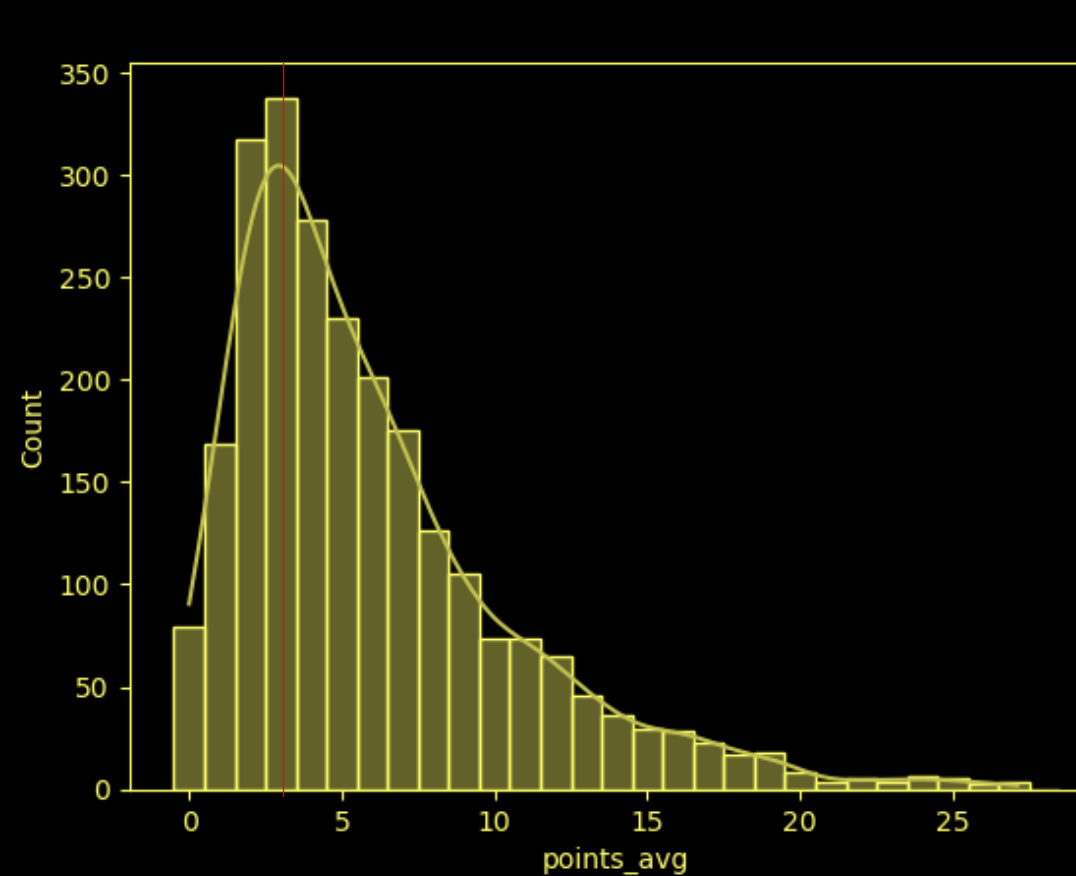
- Club names throughout history (NBA has 30 clubs, while the database has more)



# Meet the Metrics!

- 'points\_avg': Avg number of points scored
- 'rebounds\_avg': Avg number of rebounds (when a player gains possession of the ball after any missed shot ) grabbed
- 'assists\_avg': Avg number of assists distributed
- 'shooting\_eff\_pct': Measure of the player's shooting efficiency that takes into account free throws, 2 and 3 point shots
- 'assisted\_goals\_pct': Pct of teammate field goals the player assisted while he was on the floor

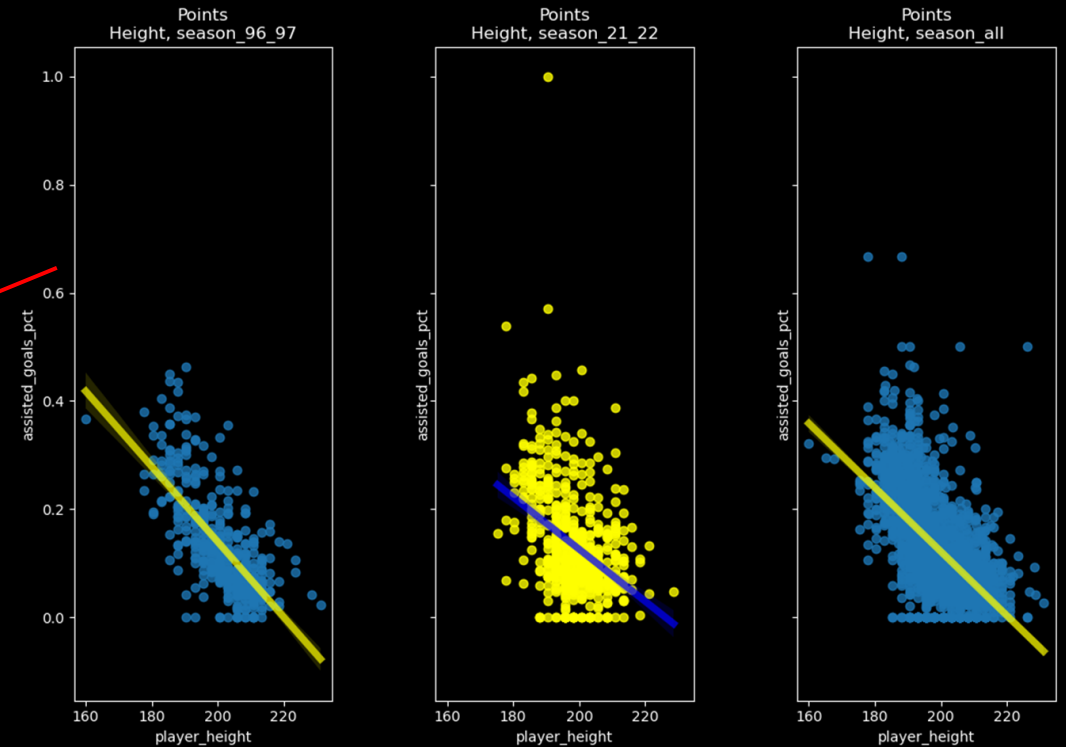
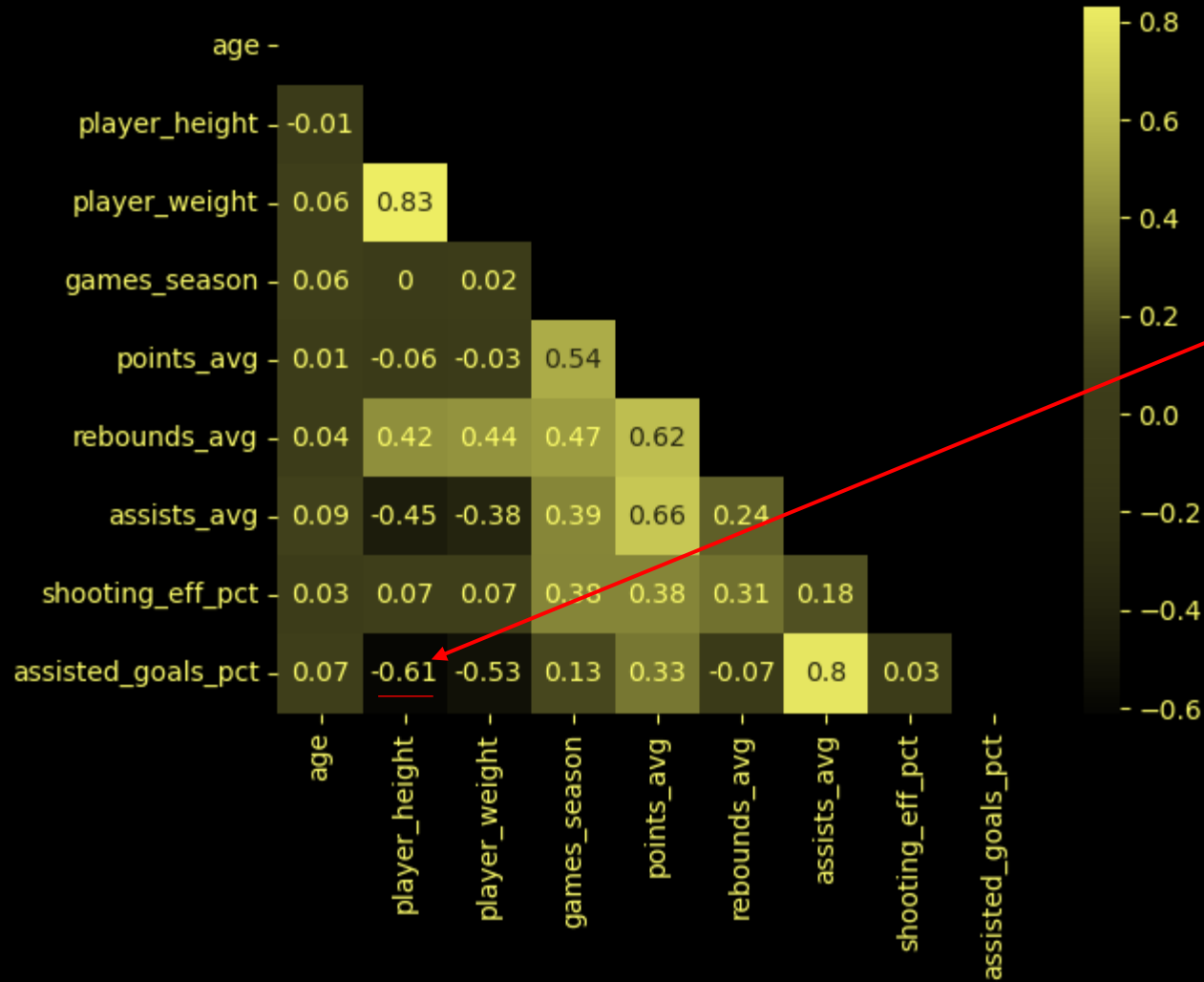




We can see that the data used in ratings is  
**normally distributed!**

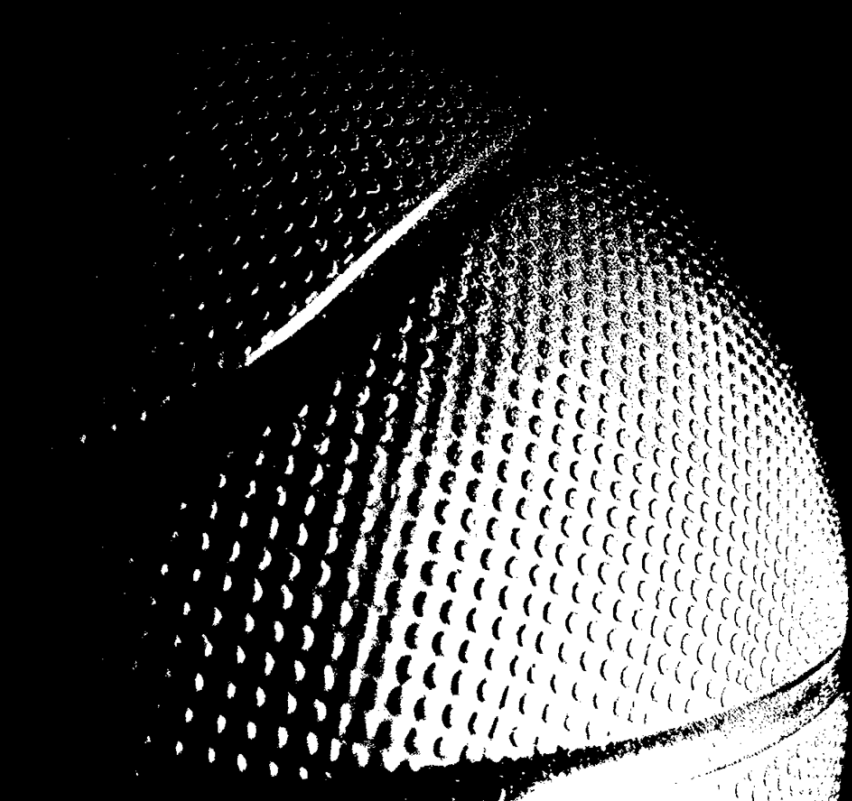


# Correlation

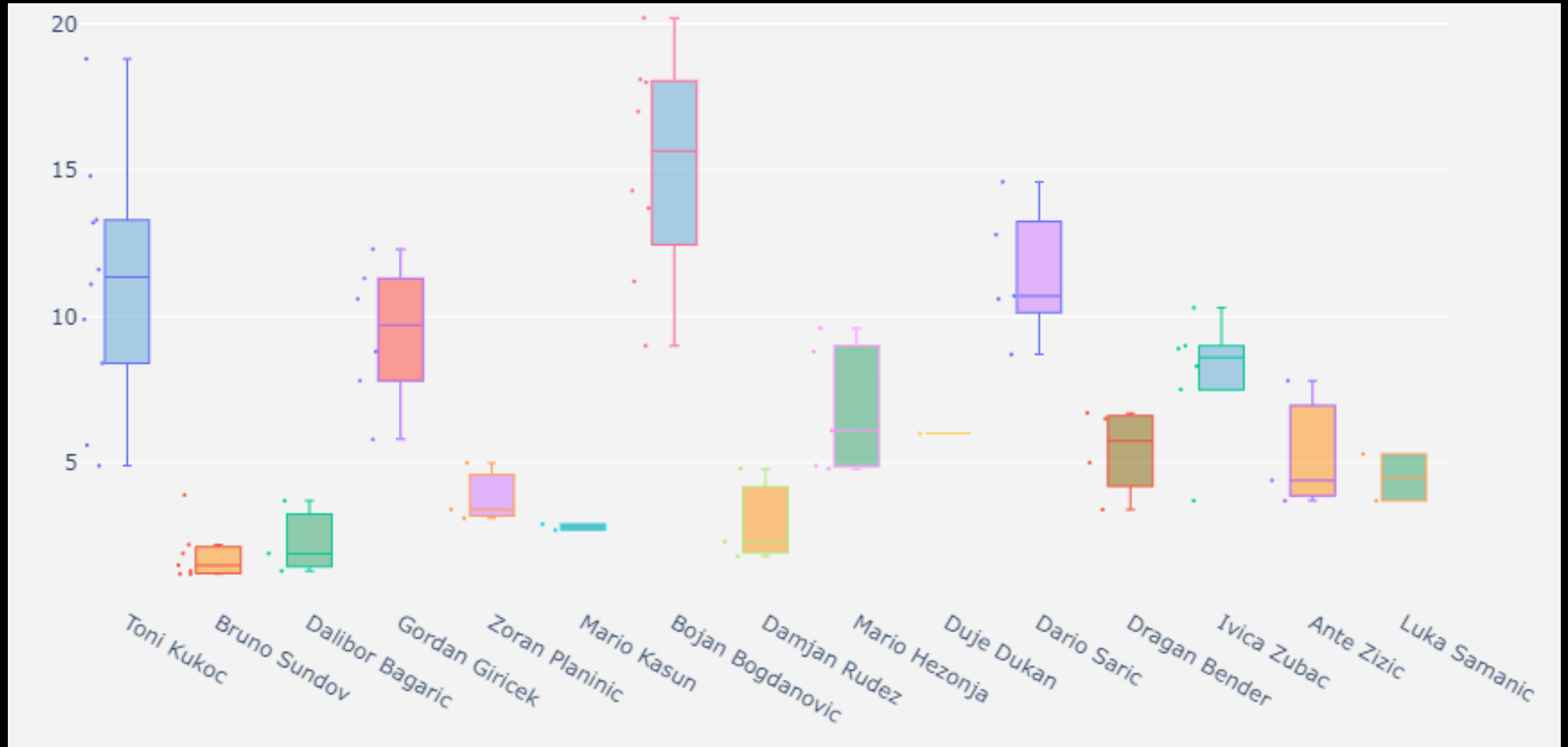


An example of the **relationship** between these two variables - **regplot**

Check out all the Croatian players  
with Box plots!

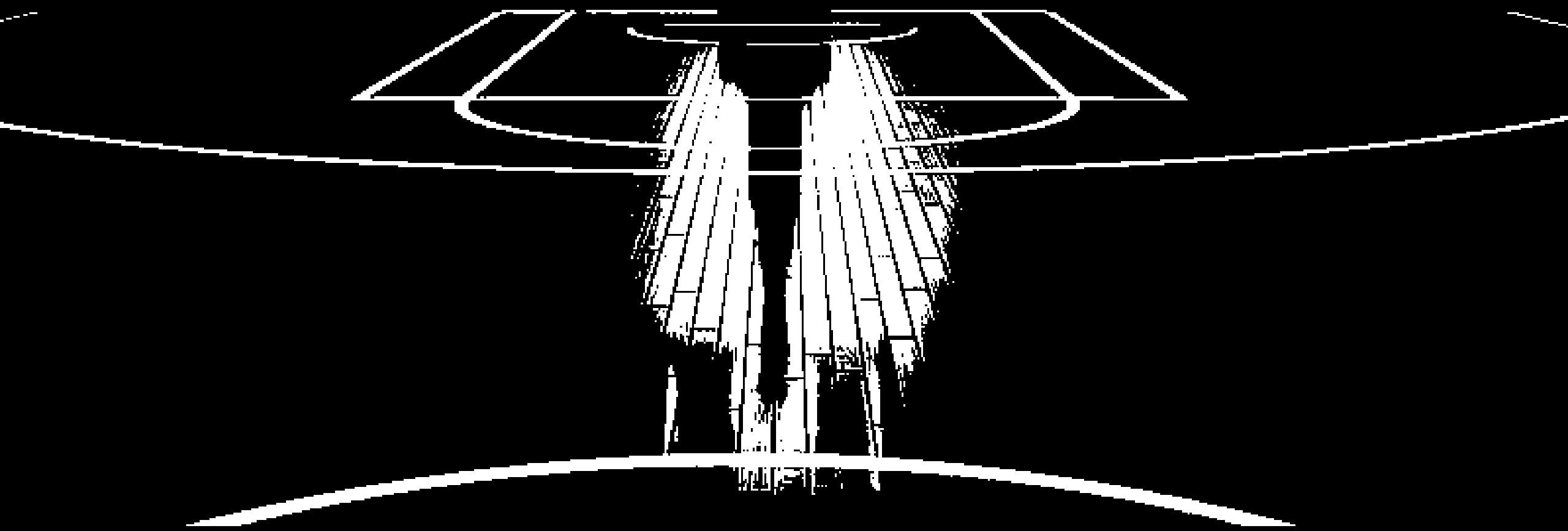


# Average Points Scored by Croatian NBA Players



# Complex Spider/Radar plots!

(with different scales for each variable)

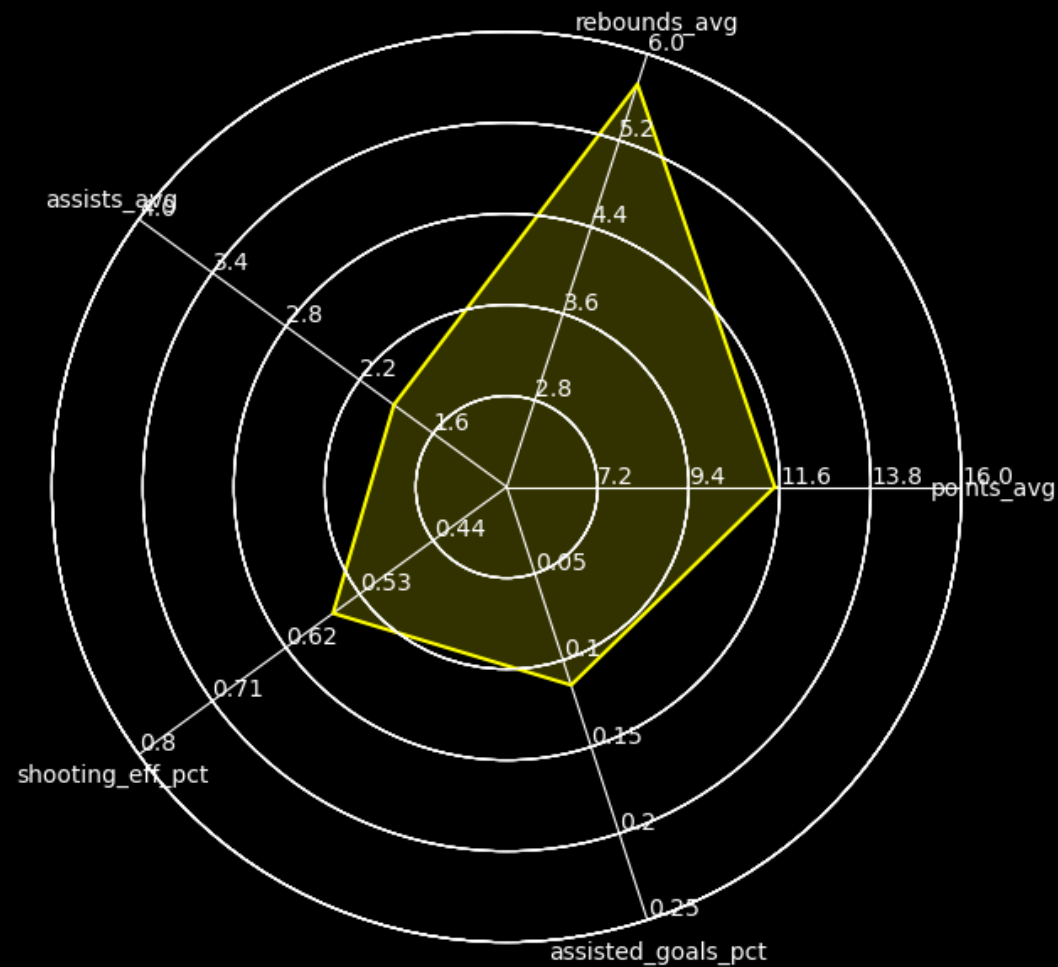




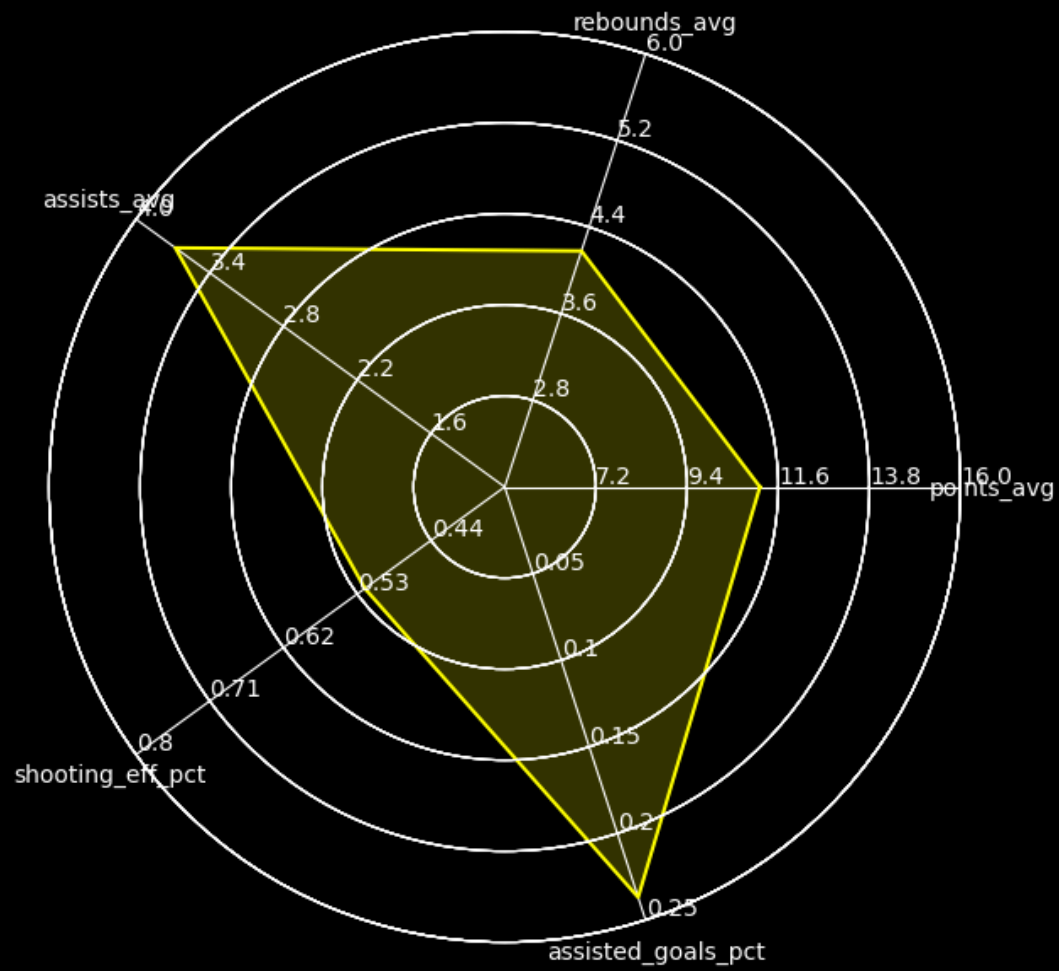
### Bojan Bogdanovic



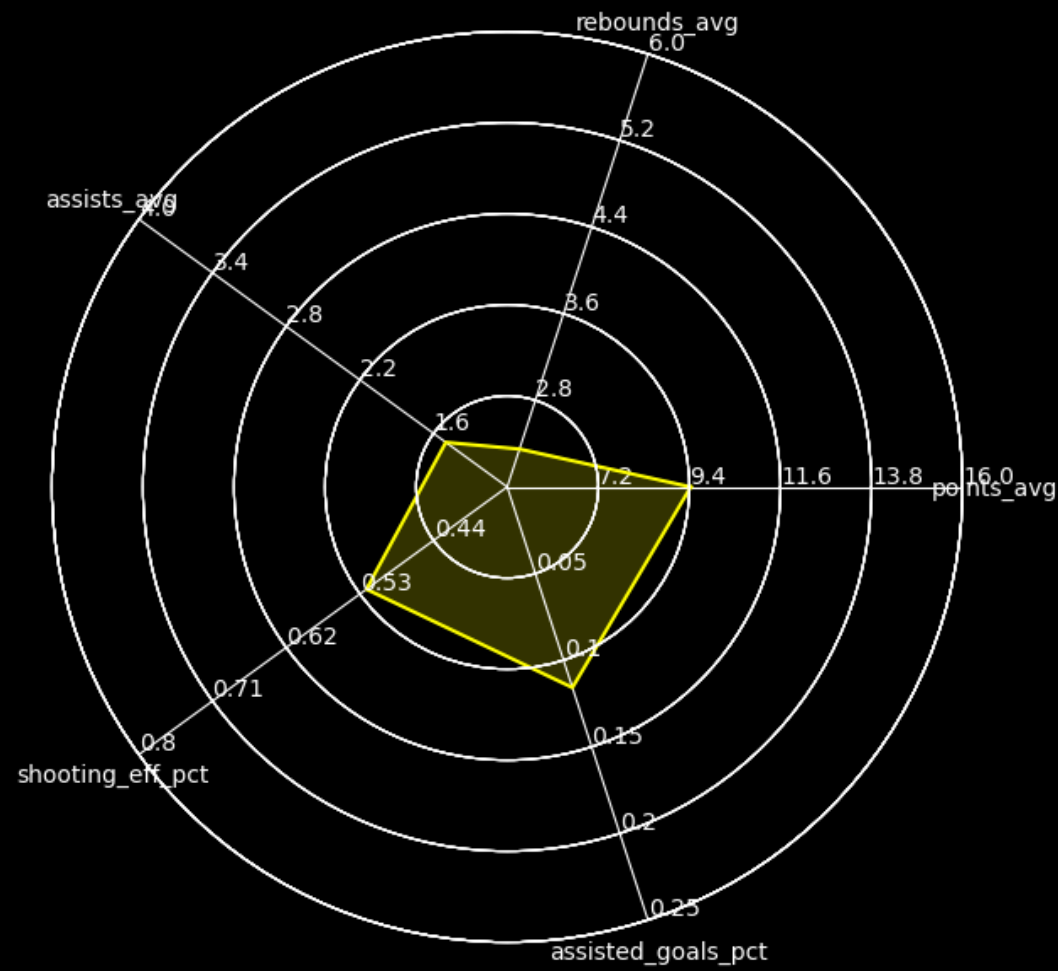
### Dario Saric



Toni Kukoc



Gordan Giricek

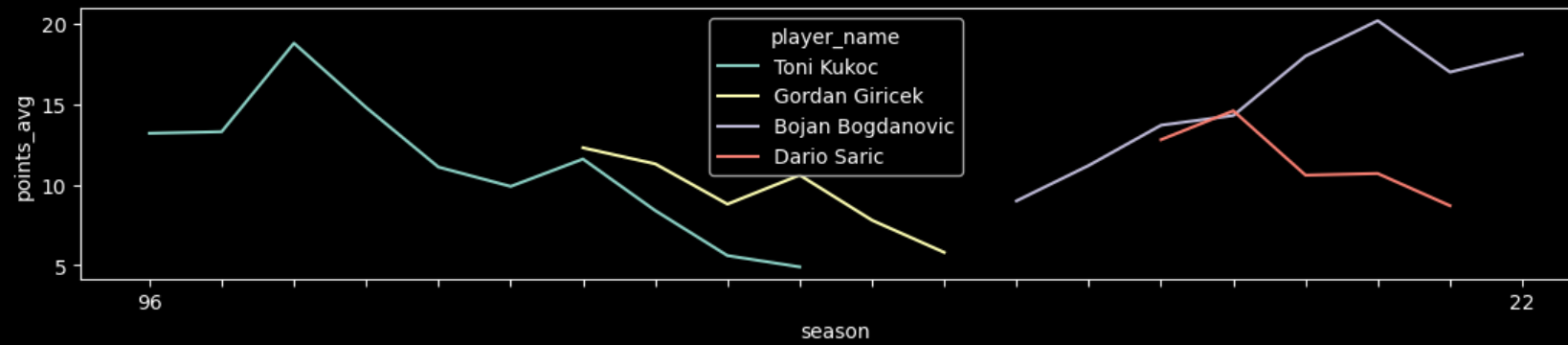




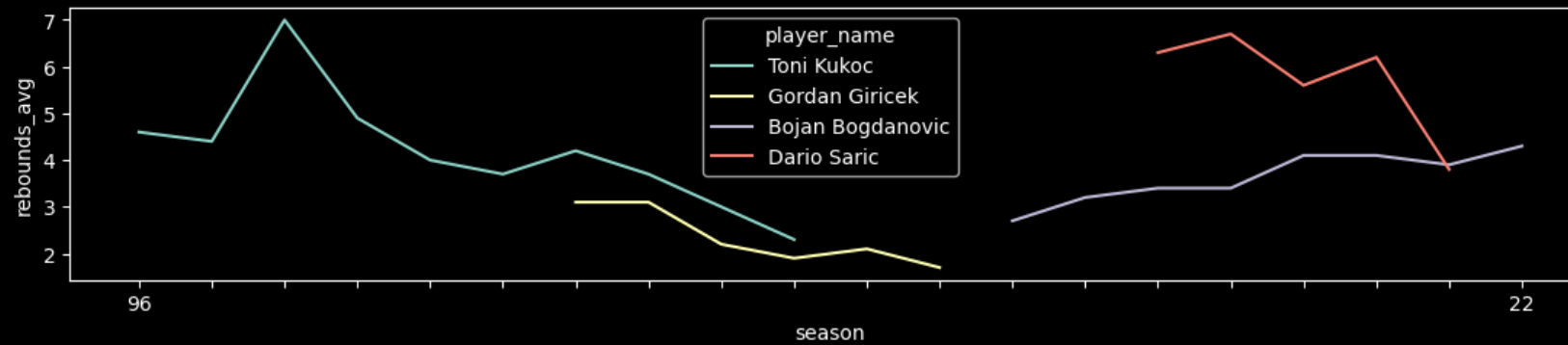
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Visualization of individual performances  
through out a career in the NBA

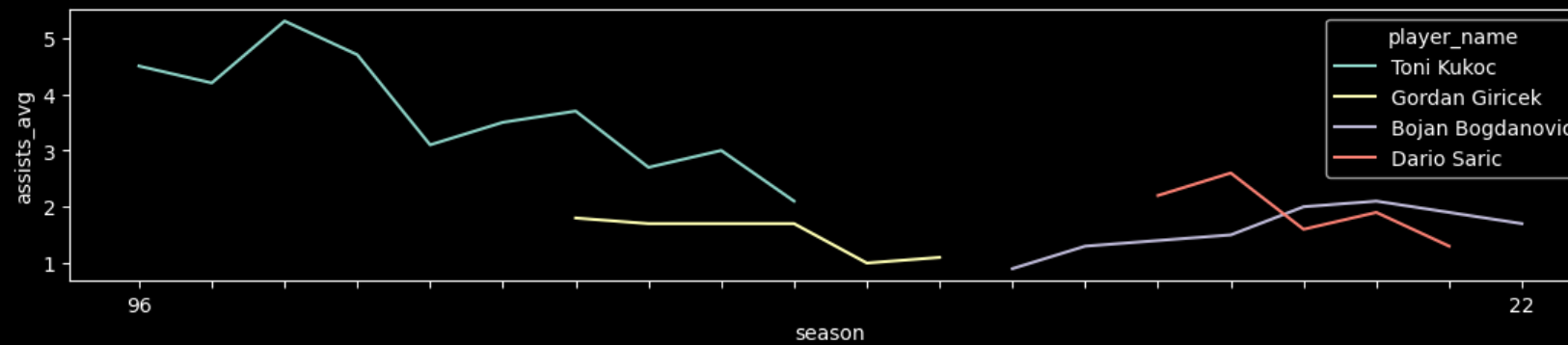
points\_avg: all seasons

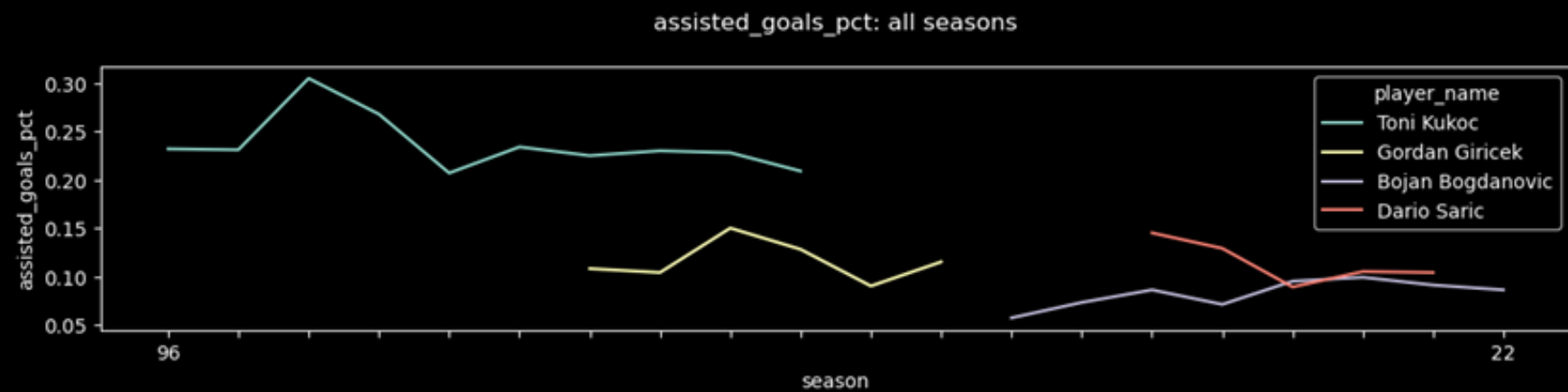
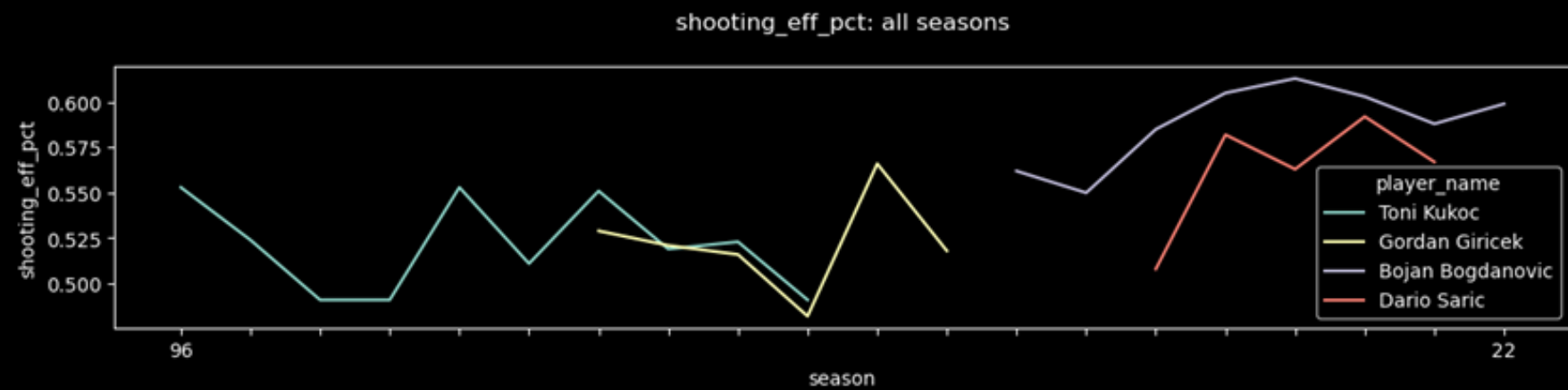


rebounds\_avg: all seasons



assists\_avg: all seasons





# Thanks for your attention!

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