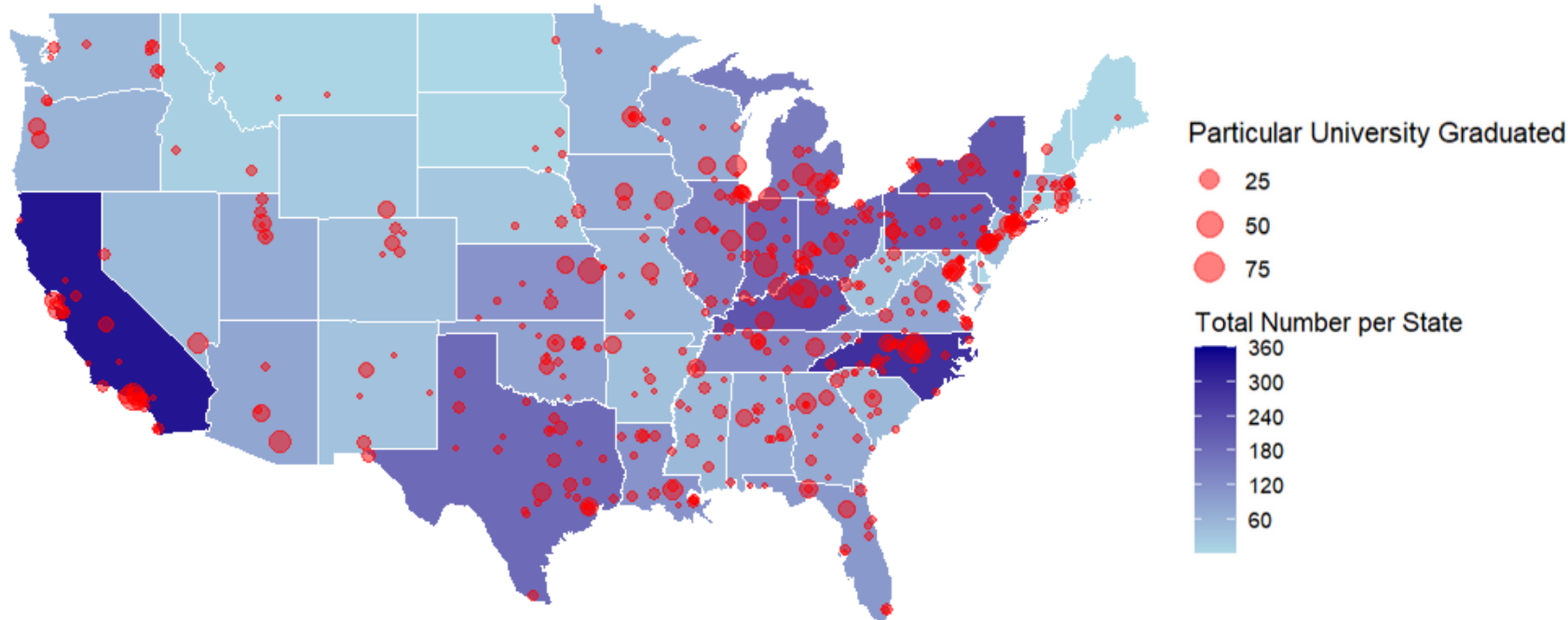


Where does it begin?

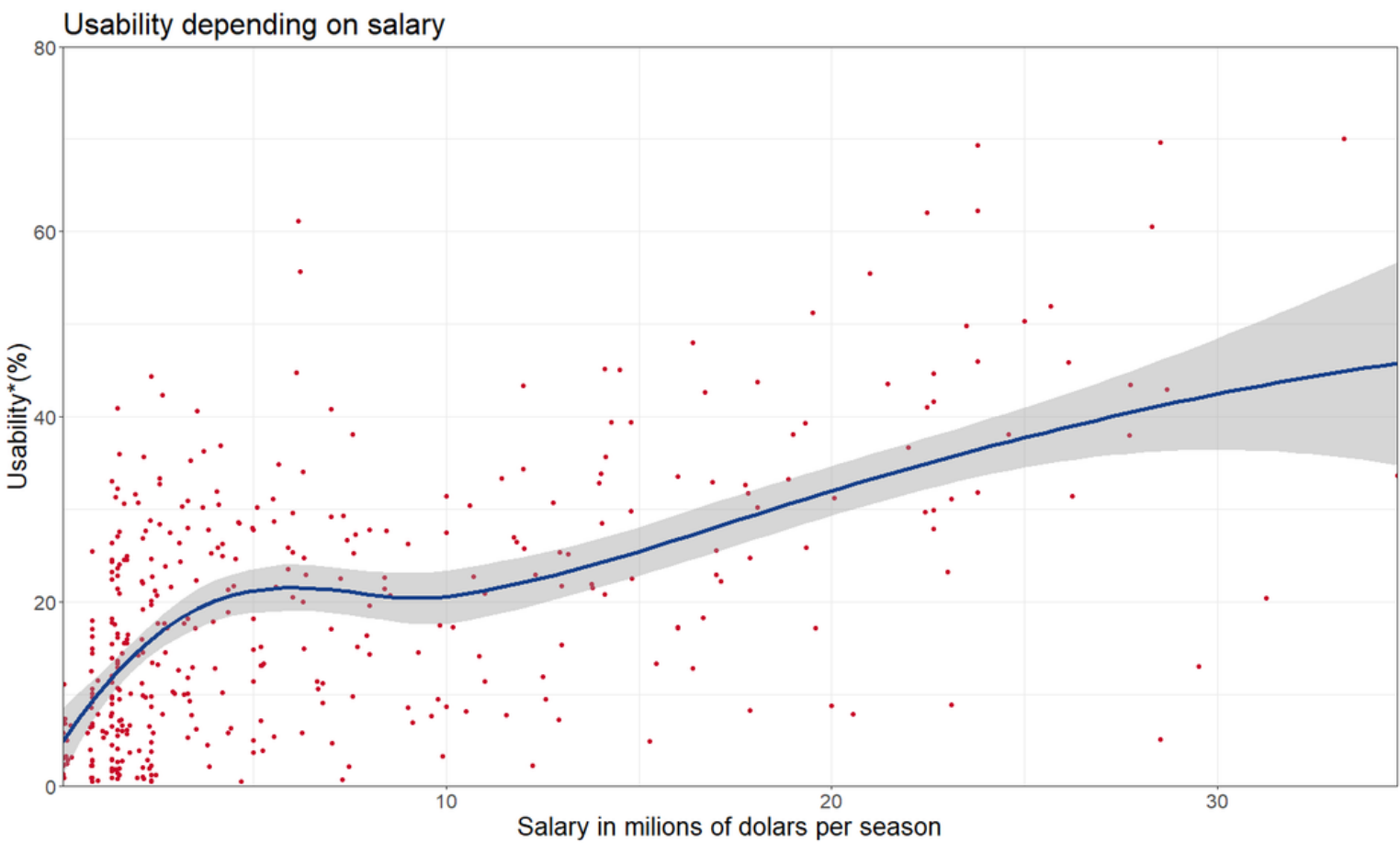
We all know well that nobody is born a champion. Everything is connected with hard training sessions and personal engagement. Due to it, the crucial choice is to pick the right place to start a professional career. In the USA, there are plenty of colleges that take part in the University Basketball League. Those specific universities are marked on the map with red dots and described by the number of their graduates, who then played in the NBA. The data has been collected since 1960. It also enabled us to show the total number of NBA players depending on state, in where they have graduated. This measurement indicates the most supportive regions in the US for future NBA sportsmen.

Athletes from University to NBA



Something gentlemen shouldn't talk about

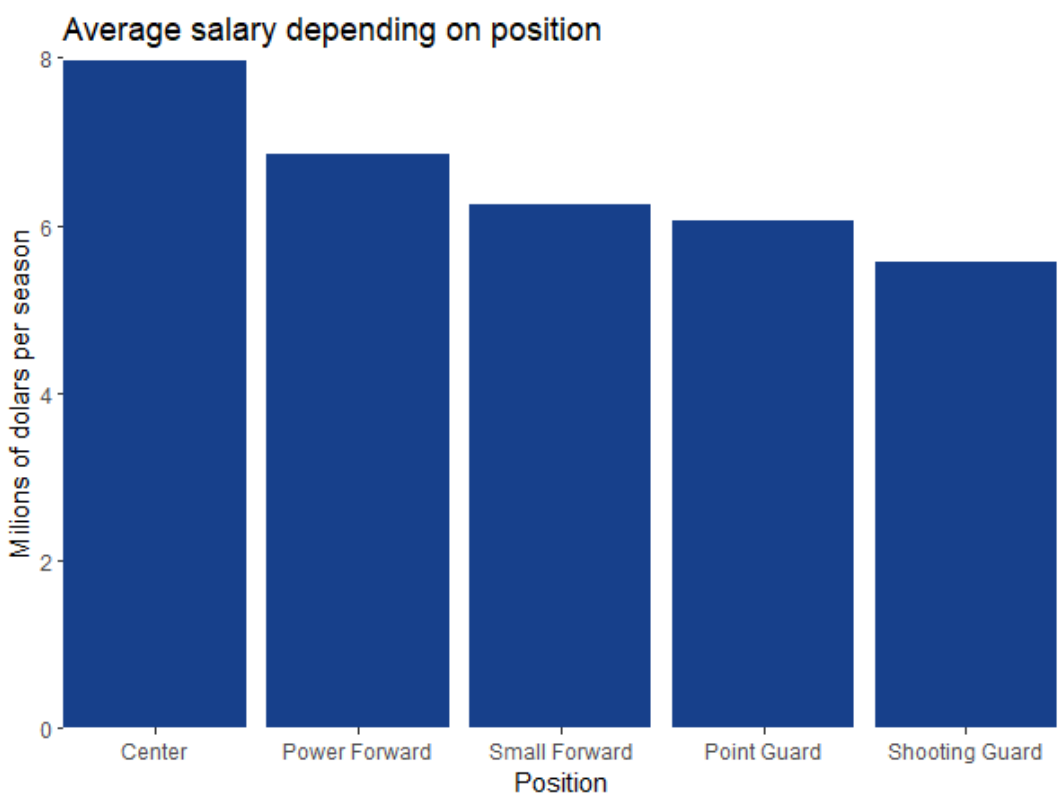
Players' salaries depending on achievements



(*) - We calculated usability by formula: 100% times the score of a player divided by the highest score of all players, then, we took average of 5 categories (described below) for every player.

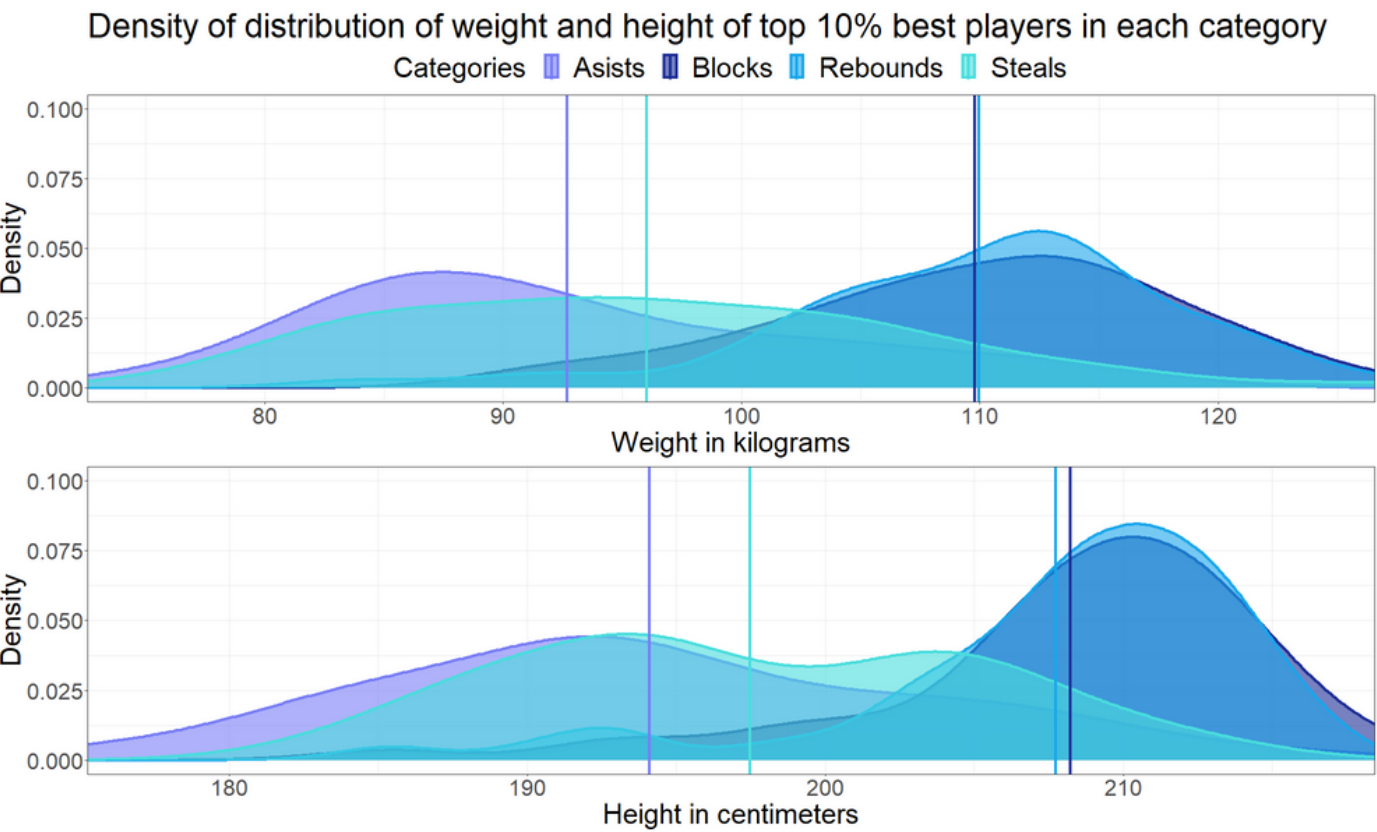
Is it worth for teams to pay huge amount of money for big names and does the skill matter? We can't measure the small details of every player game by game, but what we do have are numbers of blocks, steals, rebounds, assists and points in a whole season. So we decided to transform their performance in each category to a scale from 0% to 100% and call it usability*. Trend shows that it is true, that the highest earning players are most useful, but there were also a few players who earned a lot of money, but didn't perform very well.

Players' salaries depending on positions



Have you ever thought about whether the salary of NBA players depends on their position? After analysing the statistics of season 2017-2018, it turns out that there is quite a big difference between average salary of players on different positions. We can see from the graph above, that shooting guards earn only around 70% of average salary of center players. We have to remember that salaries in NBA are not very close to each other and a lot of players earn only a few percent of the highest salary.

What about physique?



Is it that simple, that higher players are just better than shorter ones? And what about their weight? As always, the answer is not so simple. To check it out, we took 10% of the best of players in 4 categories and tried to find out how tall and heavy they are. We decided to make density plots which show the distribution of number of these players depending on height and weight. We also marked the mean of it on plot by vertical line in the same color. From the plot we can read, that players who block and rebound are much bigger than the rest of players. What is more, they are not focused on stealing and assisting, but on playing under the basket. On the other hand, main job of smaller players is assisting. They mostly play on point guard position, which is focused on directing plays. We can also see that the best stealers are quite average when it comes to these 2 parameters, so their skills do not depend on physique as much as others'.