

Formula 1 History

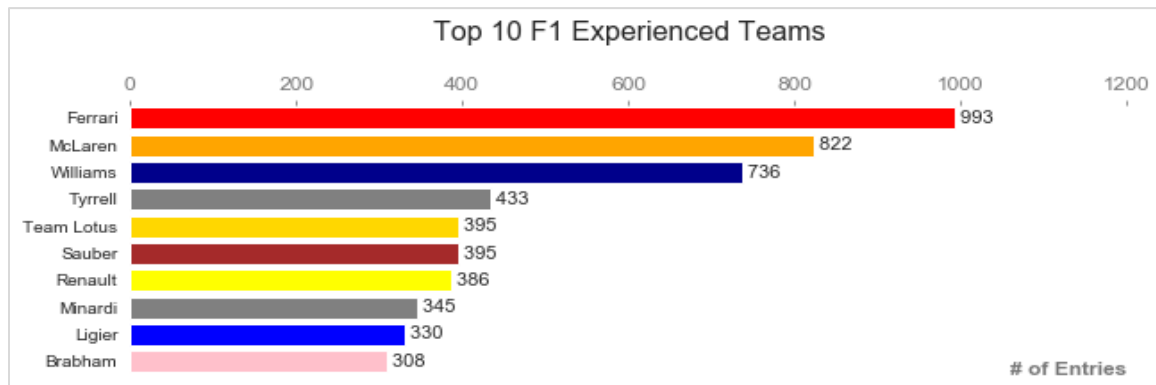
With the absence of our highly anticipated F1 racing season, I took the chance to explore the history of F1 racing with the help of various python tools such as; pandas, numpy, matplotlib etc.

The dataset I used for my analysis contains the results of every F1 world championship race, since the first race that was taken in Silverstone, Britain, 1950.

Source: <https://www.kaggle.com/cjgdev/formula-1-race-data-19502017>

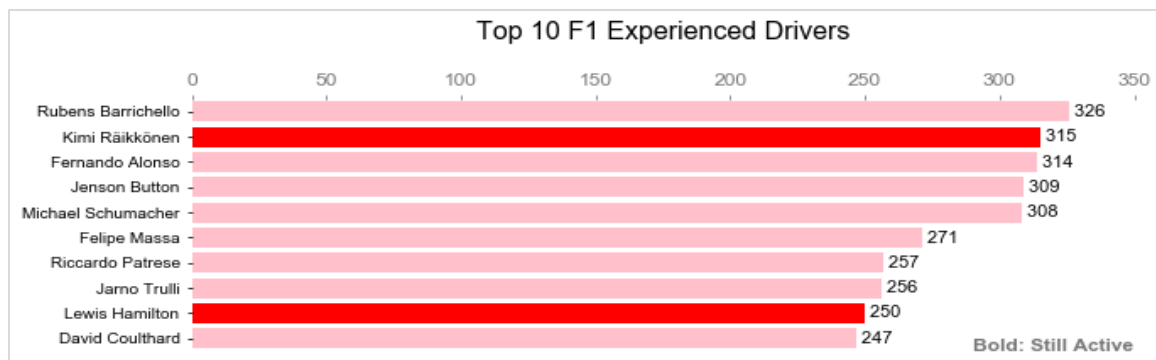
Hall of Fame

First, we will look on the most experienced F1 teams:



On the top of the list we can find the F1 most iconic teams such as Williams, McLaren and Ferrari.

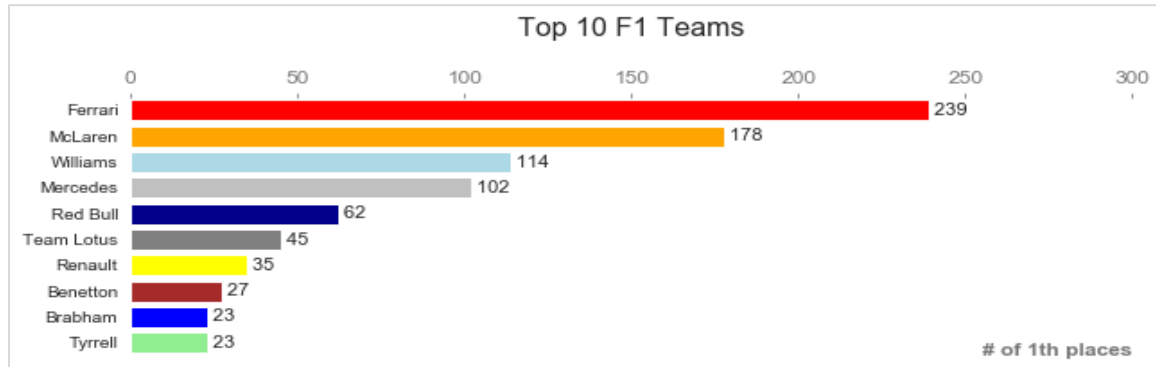
F1 is known for its drivers too:



Along the list we can see some of the best F1 drivers in history; Fernando Alonso, who joined F1 when he was only 19 years old, Lewis Hamilton, the current champion and of course, the ultimate world champion Michael Schumacher.

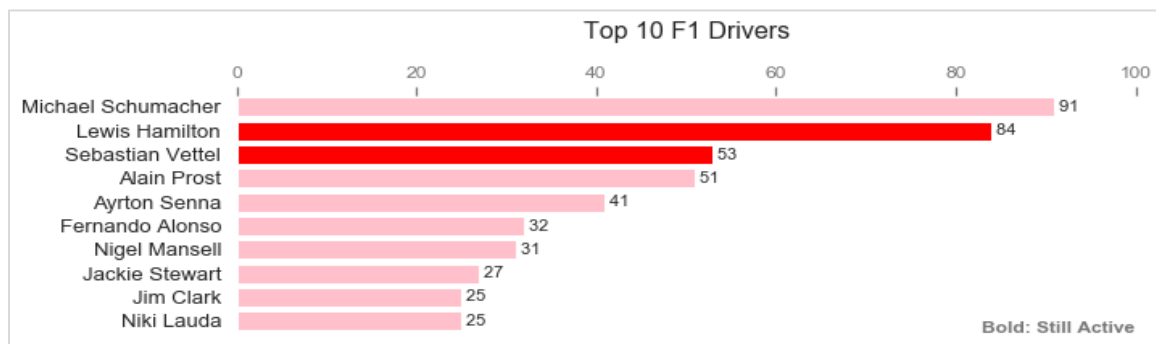
Performance

While experience can get you into a winning position, the real test is to actually take the 1th place.

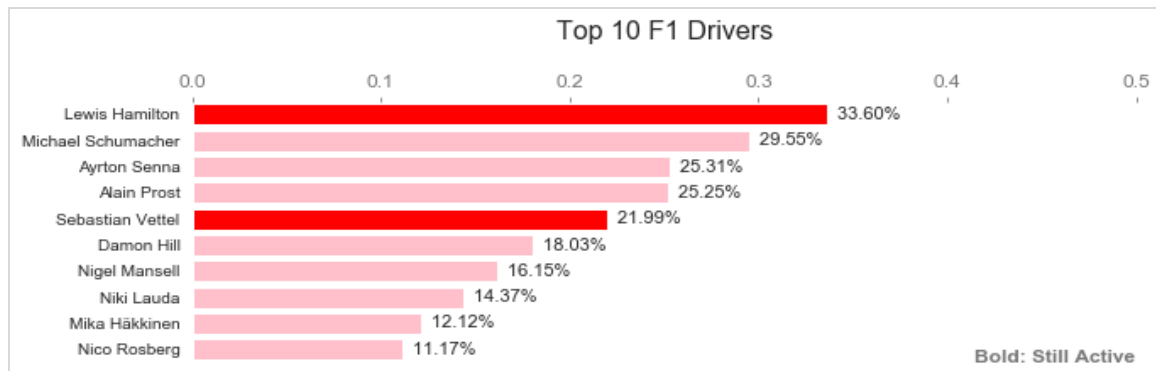


As we look on the top F1 winning teams, we can see that Ferrari is in the lead with a big gap to its competitors.

As for the F1 top winning drivers, we can see some “young” drivers getting to the top places like Hamilton and Vettel:

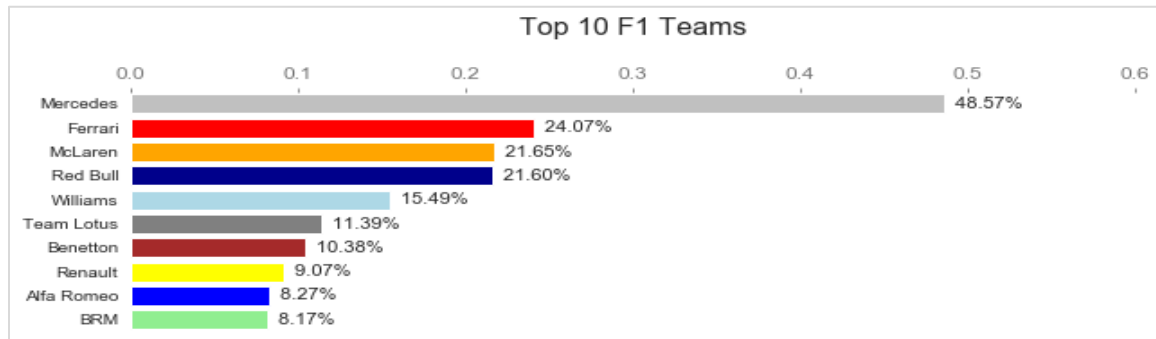


it is only logic that the more races you get, the more 1th places you can achieve. In order to eliminate the experience effect, we can analyze the drivers' performance by winning ratio: number of 1th places / number of Entries



now we can see clearly that Hamilton's performance is already better than Schumacher's. will he break his record? Only 7 1th places to go.

As for the F1 teams, we can see a similar picture:

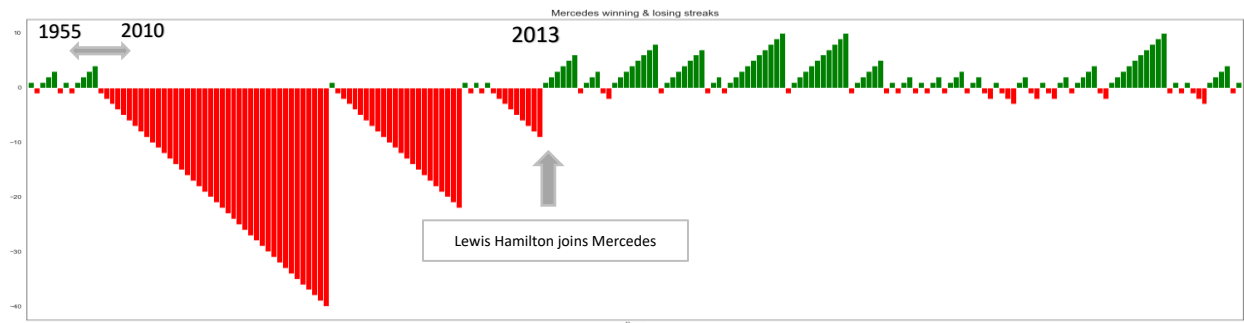


Mercedes is performing much better than its competitors. It's interesting to see that McLaren is still getting into the top 5, although its performance in the recent years is not great.

Streaks

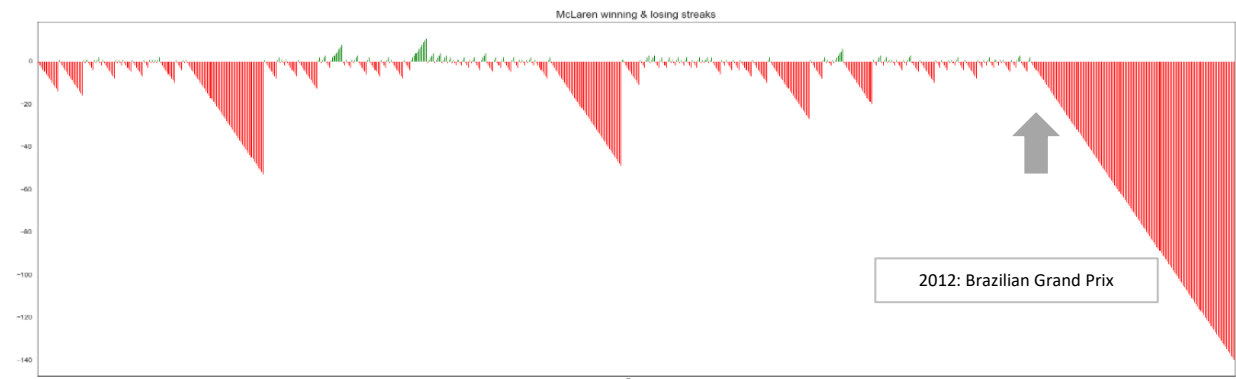
One way to analyze F1 team performance along its history, we can look at their winning / losing streaks. In this analysis, winning is getting 1st, while “losing” is getting 2nd or lower (not winning).

Mercedes



Mercedes is the best example of great combination between driver and team.

McLaren



As for McLaren, we see that along its history, the team managed to perform well. But, since their last win in Brazil, the team could not achieve even one single win.