

Formula One Insights with Tableau

Mihail Doman

January 2025

Rising from the legacy of the interwar drivers' championships, Formula One officially began with the 1950 British Grand Prix at Silverstone, marking the first-ever world championship race. Since its inception, the sport has stood as the pinnacle of global motorsport, continuously pushing the boundaries of racing and automotive engineering.

As the highest class of international racing, Formula One is governed by a dynamic set of regulations – the *formula* – that all participants must adhere to. The sport spans continents, hosting races on purpose-built circuits and closed public roads, bringing the thrill of competition to audiences worldwide.

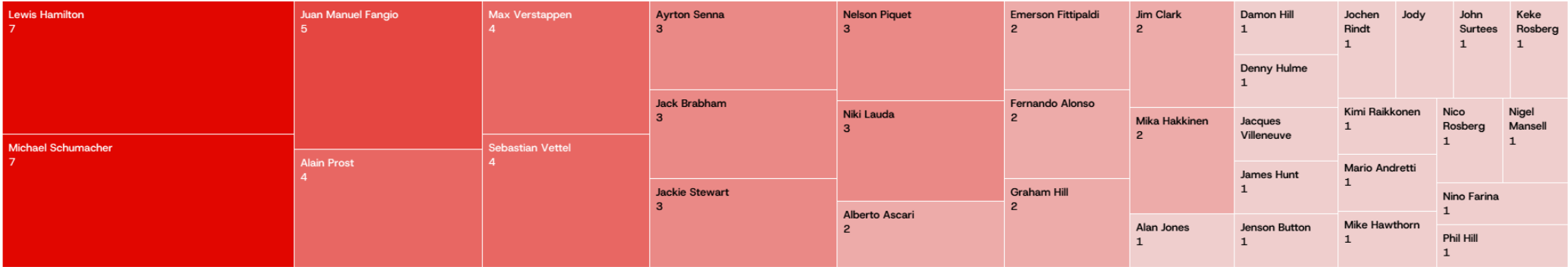
Over the decades, Formula One has captivated fans with legendary races, iconic drivers and teams who have tested the limits of human skill and technological innovation.

This analysis leverages Tableau to uncover key insights into the achievements of drivers and constructors throughout F1's storied history.

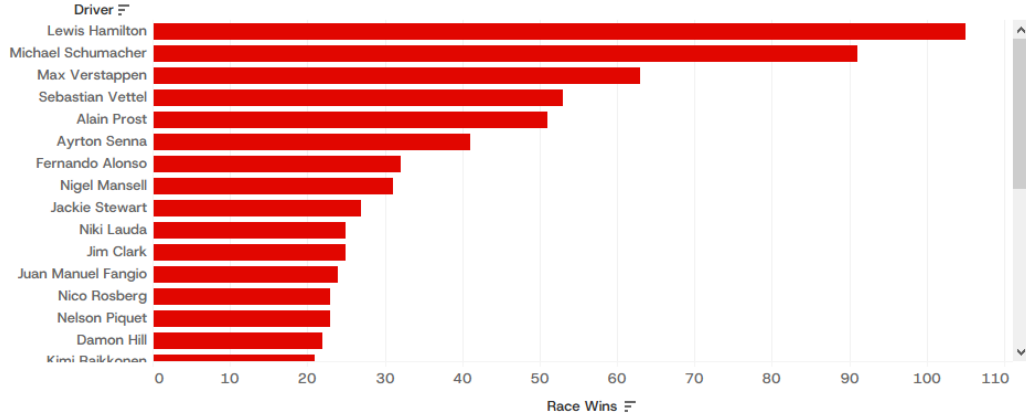
Driver Achievement Statistics

This dashboard highlights driver achievements by analyzing the number of championship titles, race victories, and pole positions secured by the top-performing drivers. The data has been filtered to focus exclusively on the most accomplished individuals in Formula One history.

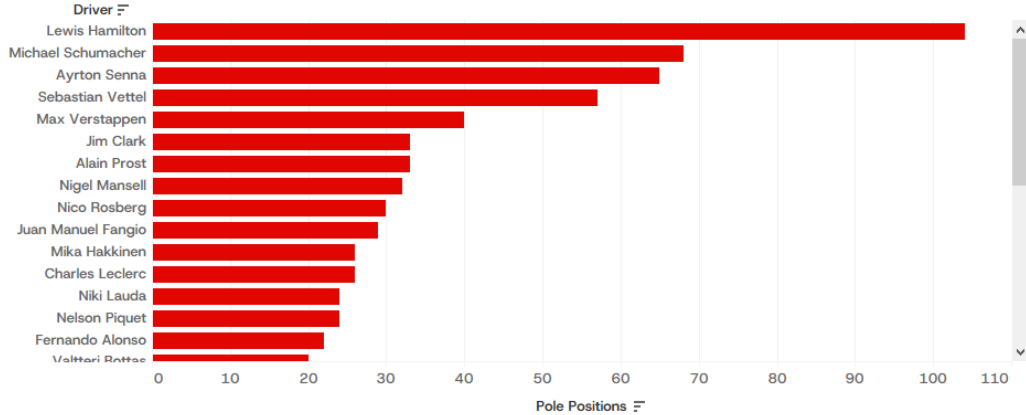
Drivers with the most Championships Won



Drivers with the most Races Won



Drivers with the most Pole Positions Achieved

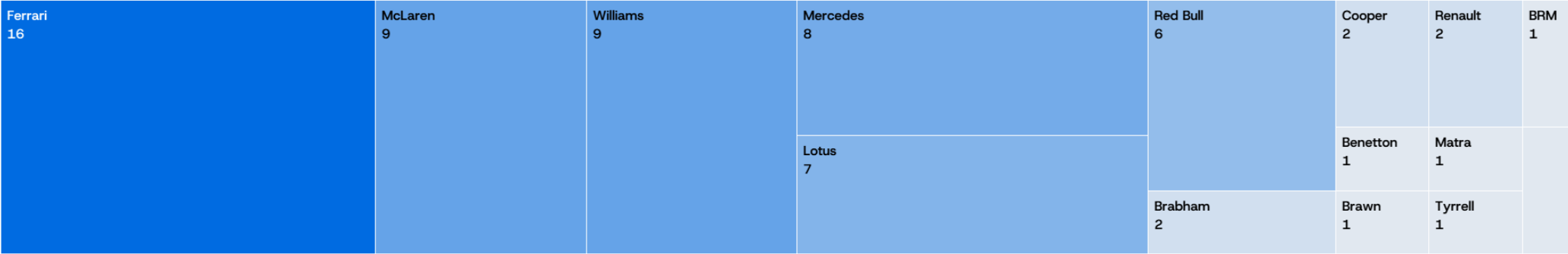


Constructor Achievement Statistics

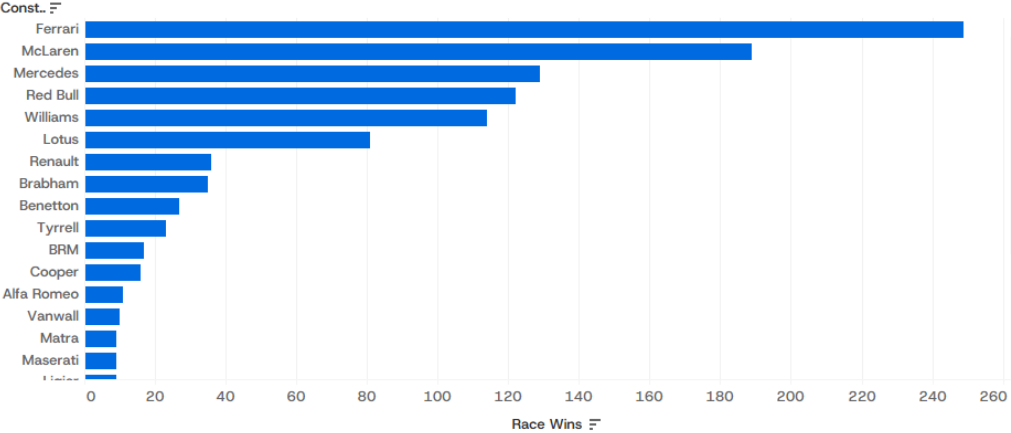
This dashboard presents the number of championship titles, race victories, and pole positions achieved by Formula One constructors.

One observation we can make is that fewer constructors have secured championship titles compared to drivers.

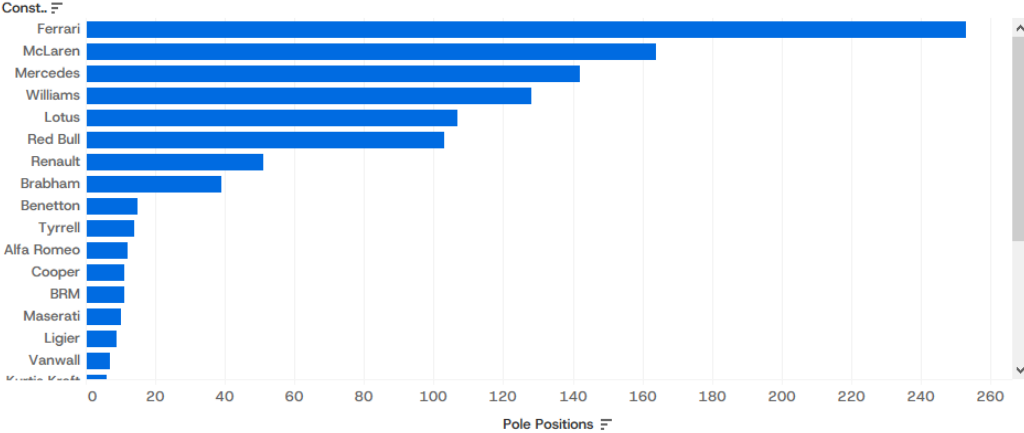
Constructors with the most Championships Won



Constructors with the most Races Won



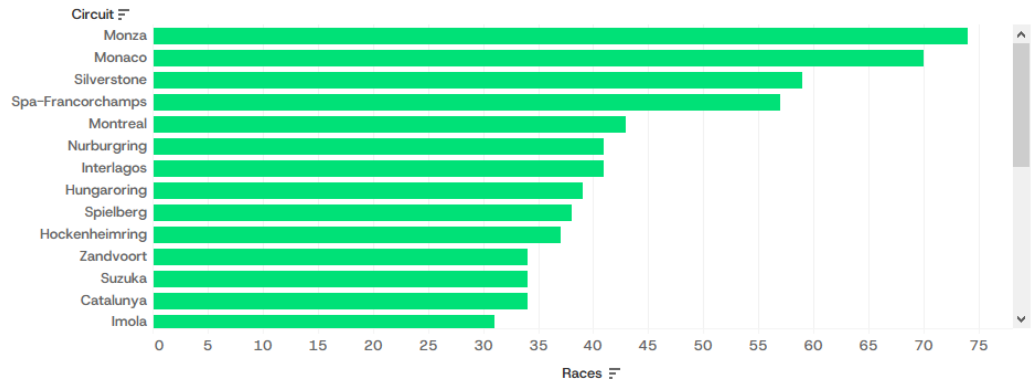
Constructors with the most Pole Positions Achieved



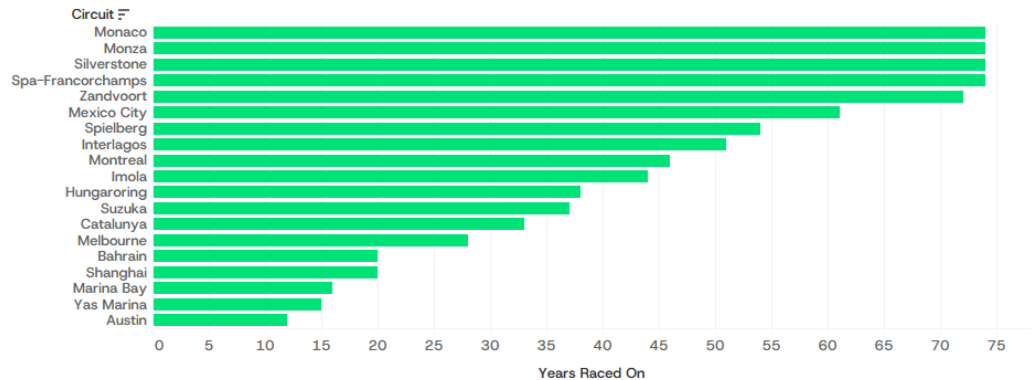
Circuit Insights

This dashboard highlights the most raced-on circuits, the oldest circuits still in use, and the circuits with the highest number of DNFs. Notably, the three charts largely feature the same circuits, reflecting their significance in Formula One history.

Most Raced-On Circuits



Oldest Circuits Still Raced On



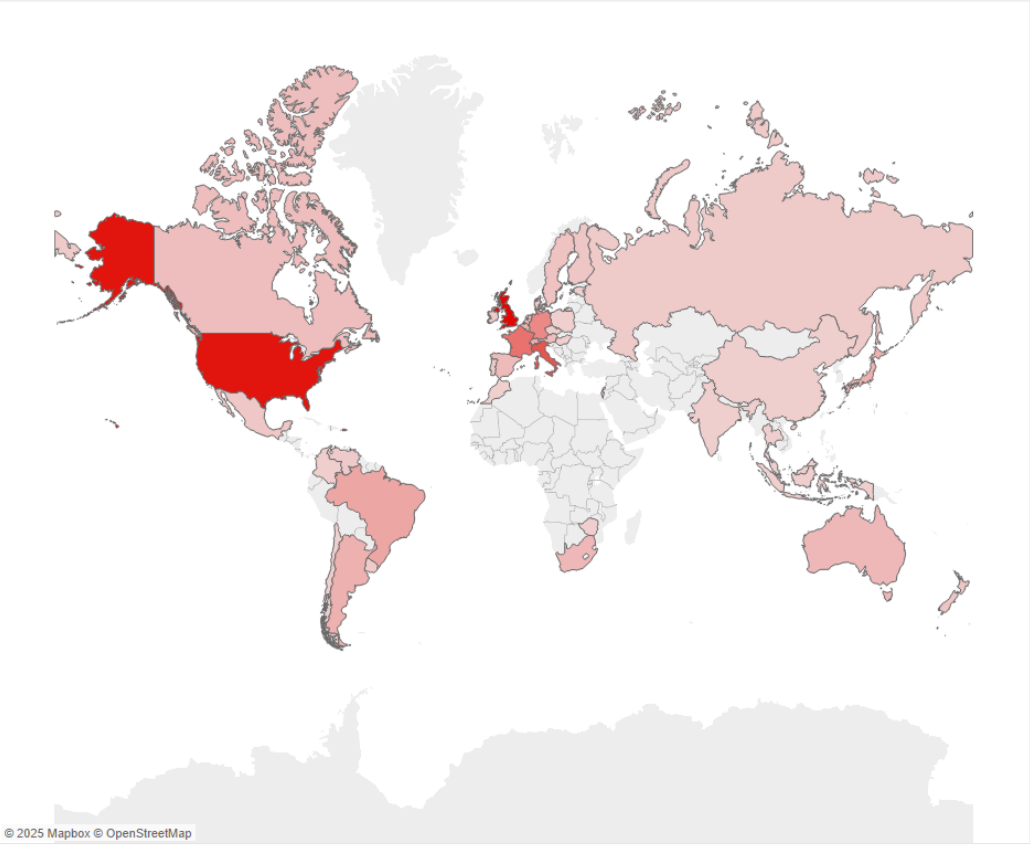
Circuits with the Highest Number of DNFs



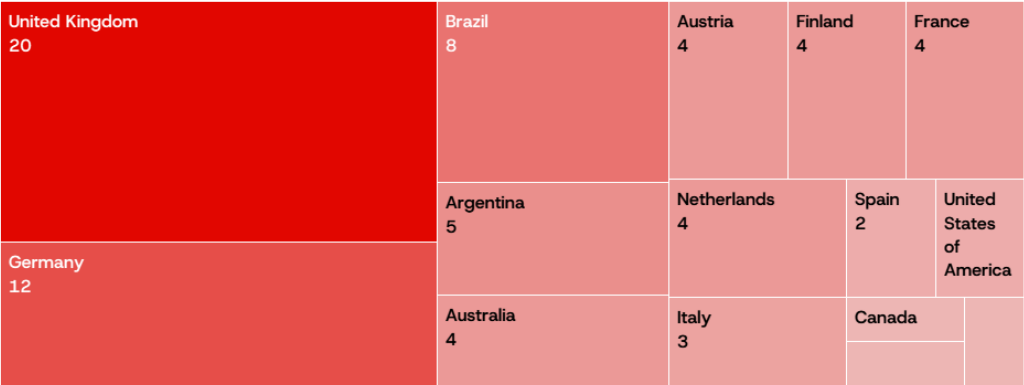
Driver Nationality Analysis

On the left, a map displays the countries that have produced Formula One drivers. On the right, two heatmaps showcase the countries with the highest achievements in Formula One. Clicking on a country in the map will highlight the drivers from that nation.

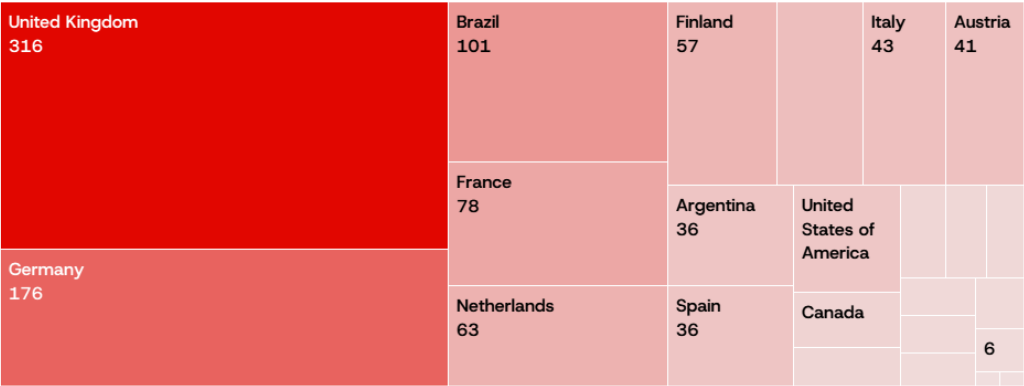
World Map of Drivers



Countries with the Most Driver Championships Won

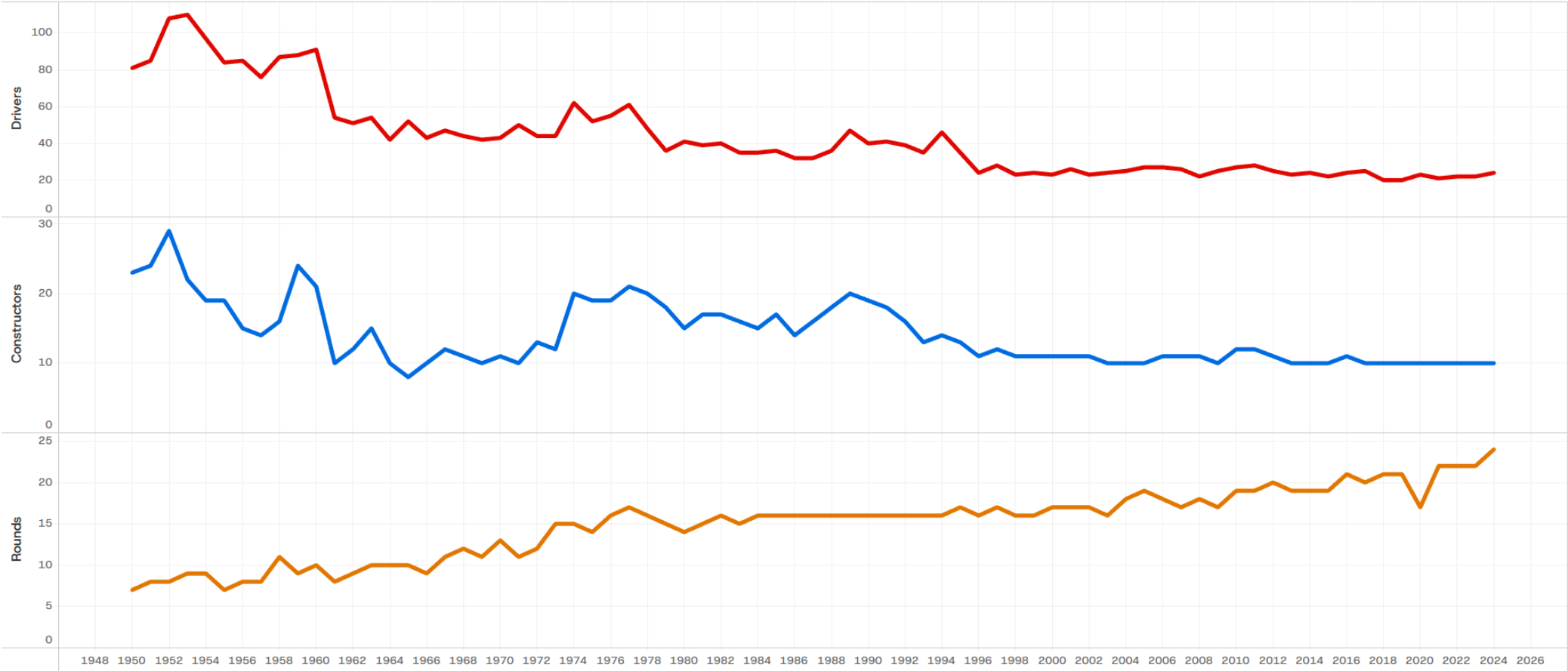


Countries with the Most Races Won by Drivers



Formula One's Progression Through the Decades

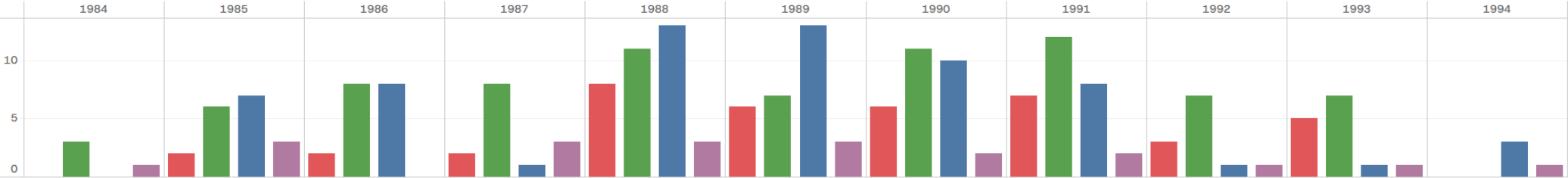
This dashboard features three charts illustrating the progression of various metrics throughout Formula One's history. It highlights the divergence between the increasing number of drivers and constructors compared to the growth in the number of rounds per season.



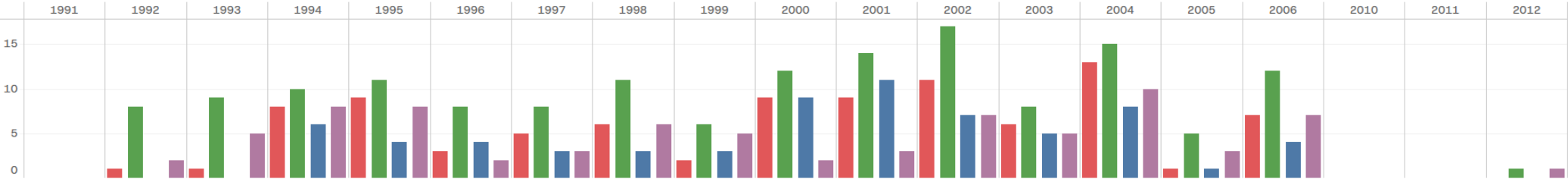
Performance Trends of Selected Drivers

This dashboard showcases the performance trends of Senna, Schumacher, and Hamilton throughout their Formula One careers. The legend at the bottom allows filtering by achievement type.

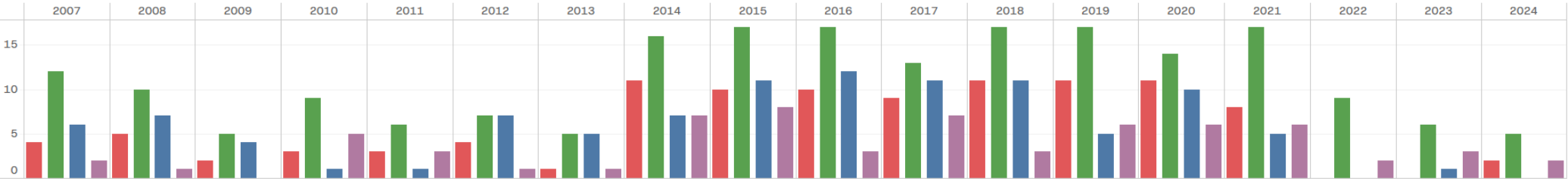
Overview of Ayrton Senna's F1 Career



Overview of Michael Schumacher's F1 Career



Overview of Lewis Hamilton's F1 Career

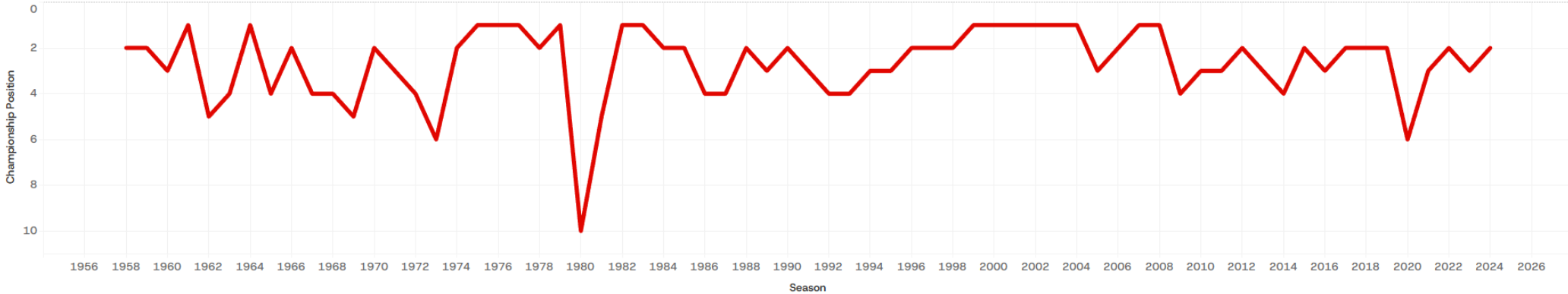


Legend Race Wins Podiums Pole Positions Fastest Laps

Performance Trends of Selected Constructors

Finally, this dashboard compares the championship performances of Ferrari and Mercedes. Both teams have demonstrated exceptional competitiveness, rarely finishing outside the top three. It also highlights Ferrari's dominant period in the early 2000s and Mercedes' supremacy during the turbo-hybrid era.

Overview of Ferrari's Championship Results



Overview of Mercedes' Championship Results

