

F1 RACING

Story

In the high-octane world of Formula 1 (F1) racing, where every second counts, understanding performance trends is crucial for predicting the sport's ever-evolving dynamics. Analyzing this data provides valuable insights into potential outcomes for the remainder of the 2024 season, revealing which competitors are likely to dominate the championship and how past performances may influence future success.

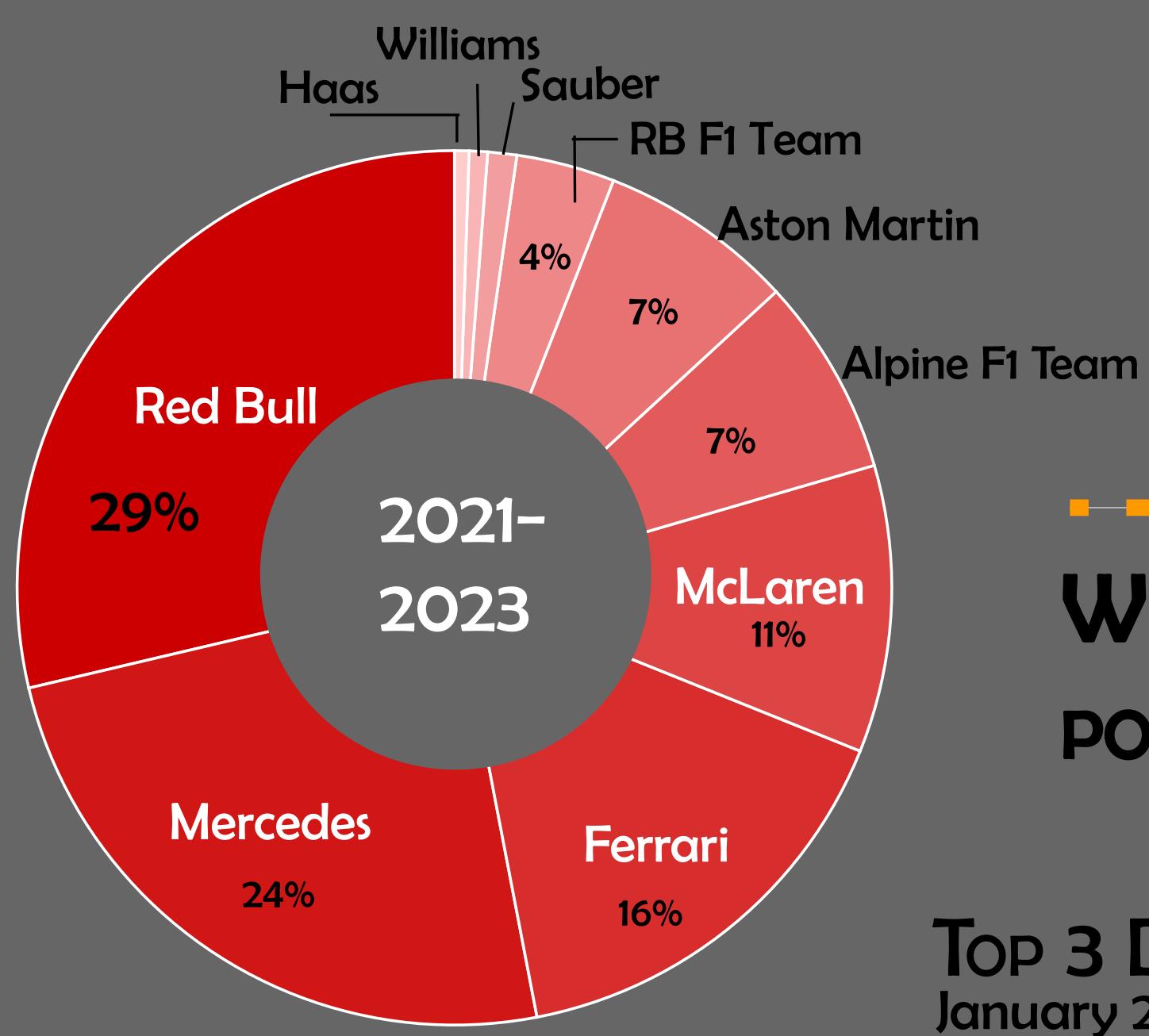
Audience

This analysis will appeal to Formula 1 enthusiasts, data analysts, and F1 Fantasy players who want insights to inform their fantasy team decisions.

Data

The original dataset consists of all information on the Formula 1 races, drivers, constructors, qualifying, circuits, lap times, pit stops, championships from 1950 to the latest 2024 season. The data was subsetted to include races from 2019-2023 (679 rows and 14 columns) and cleaned by converting time columns, and standardizing constructor names that have changed over the years. Aggregations were performed to calculate total points, pit stops, and pit durations. Key R packages used: dplyr, ggplot2, and plotly for analysis and visualization.

CONSTRUCTOR TOTAL POINTS



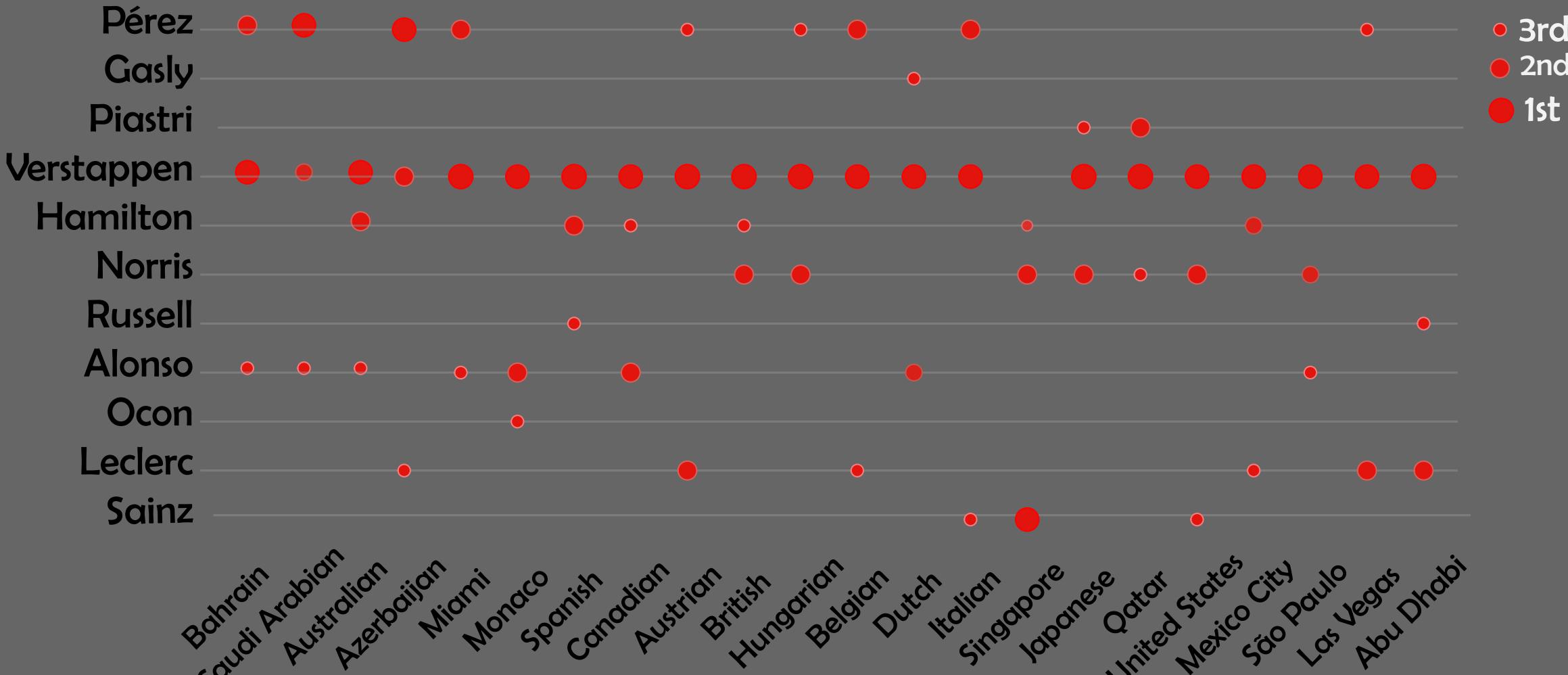
WHAT ARE THE TRENDS IN CONSTRUCTORS' POINTS COMING INTO THE 2024 SEASON?

Red Bull and Mercedes dominate the points distribution, together making up over 50% of the total points.

WHICH DRIVERS ARE CONTRIBUTING THE MOST POINTS TO THEIR TEAM?

TOP 3 DRIVERS BY POINTS FOR EACH RACE

January 2023 to July 2024



Max Verstappen consistently scores high points, securing the top position in most races with the maximum 25 points.



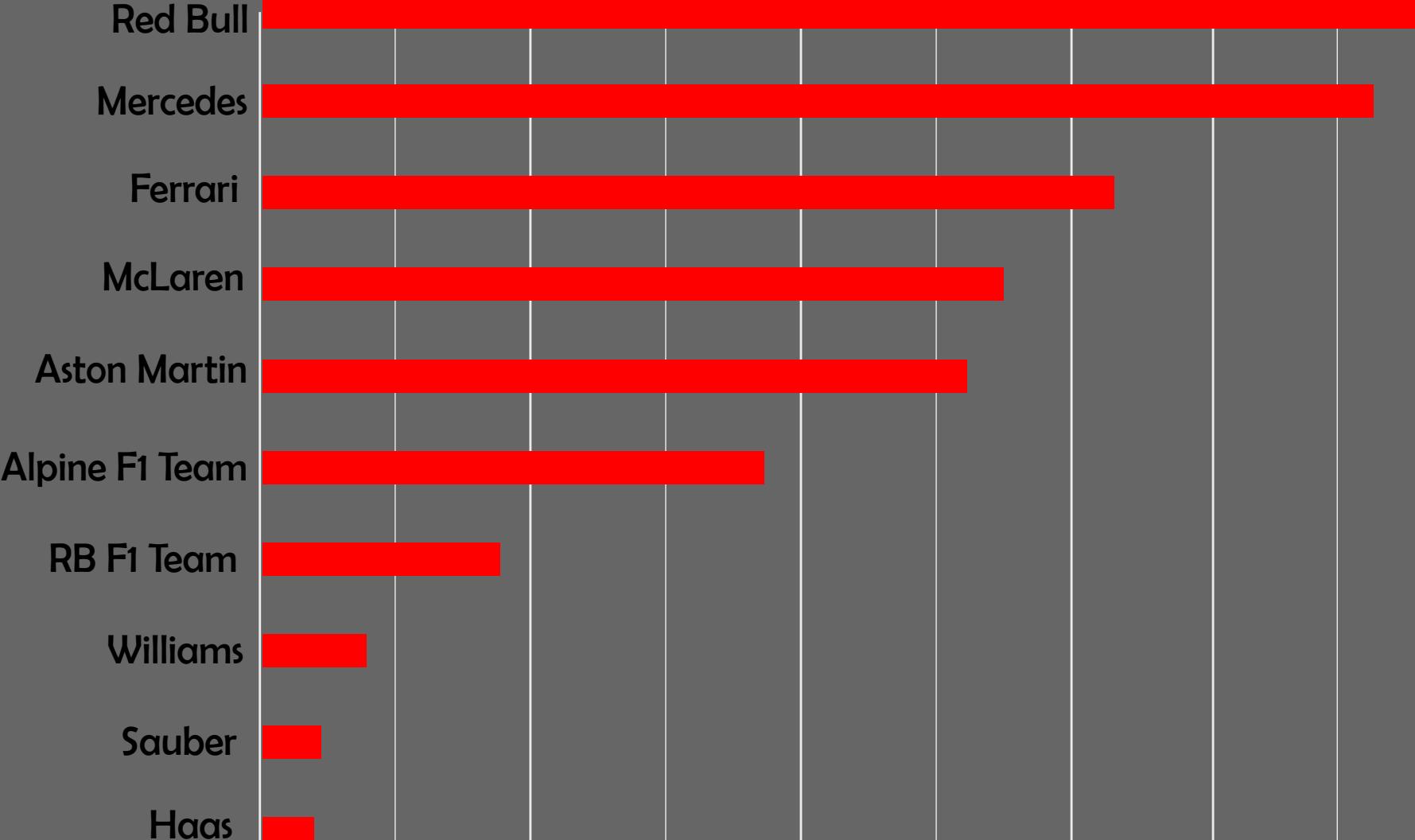
WHICH CONSTRUCTORS WILL DOMINATE THE 2024 SEASON?

Red Bull appears to be the dominant force for 2024, followed by Mercedes.

PREDICTED CONSTRUCTOR STANDINGS, 2024

BASED ON RESULTS FROM 2020-2023 SEASONS

Constructor Teams



CONSTRUCTOR PERFORMANCE, 2024

Total points earned for each race from January to July

Constructor Teams

