

BME 802: Design Project Lab

Section 02

Fabiha's F1 Beginner's Guide
Website PDF (Screenshots)

Formula One: A Beginner's Guide

Welcome to the World of Formula 1!

Dive into the fast-paced world of **Formula 1 Racing**, where speed, precision, and strategy come together to create the most thrilling motorsport in the world. Whether you're a newcomer or a lifelong fan, this guide will introduce you to everything you need to know about F1. From understanding the rules of the sport to getting to know the teams and drivers, we've got you covered.

Explore our sections to learn about the **current teams and drivers**, check out the **racing calendar**, or discover the **iconic tracks** where the action unfolds. Let's get you up to speed with the ultimate motorsport experience!



NEXT STOP:

SHANGHAI AUDI INTERNATIONAL CIRCUIT

1. What is Formula 1?



Formula 1 is the premier motorsport, featuring the world's fastest cars and most skilled drivers. It's a competition where speed, strategy, and precision are everything. Whether you're a first-time viewer or a seasoned fan, Formula 1 offers thrilling race weekends packed with intense action and drama.

2. The Teams & Drivers



Behind every race are the top teams and their star drivers. F1 features legendary teams like Ferrari, Mercedes, and Red Bull, all competing for the championship. Each team is made up of expert engineers, mechanics, and the drivers who push the limits of technology and speed on the track.

3. The Races & Tracks



F1 races take place across iconic tracks around the world, from the gitz of Monaco to the high-speed straights of Monza. Each track offers its own challenges, and the drivers must adapt to win. Explore the race calendar and the unique characteristics of these world-renowned circuits.



Rules & Basics

Introduction to F1 Rules & Basics

Formula 1 has a complex set of rules that determine everything from race strategy to team operations. This section covers the foundational rules and guidelines that govern the sport, ensuring fair play and excitement for both drivers and fans alike. Dive into the key elements like race formats, scoring, and how teams compete for the title.



Drivers' Championship:

The Drivers' Championship is awarded to the driver who earns the most points throughout the season based on race results.

The driver with the highest total at the end of the season is crowned

World Champion

Constructors' Championship:

The Constructors' Championship, which is awarded to the team with the most accumulated points across both their drivers. Each team has two drivers whose results contribute to the team's overall performance.

The team with the highest total points at the end of the season wins the

Constructors' Championship





F1 Point System

Formula 1's point system determines the champion driver and team based on their performance throughout the season. Points are awarded to drivers and teams after each race, with higher positions earning more points.

How Points Are Awarded:

Only the drivers who finish in these **top 10 positions** will receive points, and the further down the order you finish, the fewer points you get.

Special Scoring Situations:

- Fastest Lap (ended 2024):

A driver gets 1 extra point if they set the fastest lap of the race **and** finish in the top 10.

- Sprint Races:

In sprint races, the top 8 finishers earn points with a different point system.

F1 POINTS SYSTEM OVERVIEW

POSITION	CHAMPIONSHIP F1 POINTS
1st	25
2nd	18
3rd	15
4th	12
5th	10
6th	8
7th	6
8th	4
9th	2
10th	1

Source: <http://acingtexas505.com/f1-points-system>





Race Day Schedule



Source: <https://www.formula1.com/timerschedule.html#standard>



FRIDAY: Free Practice

On Friday, the teams get their first opportunity to test their cars on the circuit. Free Practice 1 and 2 allow drivers to test setups and gather valuable data to optimize their performance for the rest of the weekend. These sessions are crucial for fine-tuning strategies and making necessary adjustments.



SATURDAY: FP 3 & Qualifying

Saturday starts with Free Practice 3, giving teams a final opportunity to refine their setups before qualifying. Qualifying begins shortly after, where drivers battle for the best grid positions for Sunday's race. The session is divided into three parts (Q1, Q2, and Q3), with the fastest drivers progressing through each stage.



SUNDAY: Race Day

Sunday is race day, where all the preparation from the weekend culminates in the final race. This is the main event, where drivers go head-to-head for glory. The race lasts for a set number of laps or a maximum time limit, and points are awarded based on finishing positions.





Teams & Drivers

Teams & Drivers

Formula 1 features 10 teams, each with two drivers, making up a grid of 20 competitors. These drivers typically climb through the ranks, starting in lower categories like Formula 3 and Formula 2 before reaching F1. Each driver's journey is unique, shaped by years of dedication, competition, and honing their craft.

In F1, it's not only about speed but also strategy and teamwork, as teams race to outsmart each other in pursuit of the championship title.

**Haas**

Esteban Ocon
Oliver Bearman

**Kick Sauber**

Fernando Alonso
Lance Stroll

**Aston Martin**

Fernando Alonso
Lance Stroll

**Racing Bulls**

Yuki Tsunoda
Isack Hadjar

**Alpine**

Pierre Gasly
Jack Doohan

**Williams**

Alexander Albon
Carlos Sainz JR.

**Ferrari**

Charles Leclerc
Lewis Hamilton

**Red Bull Racing**

Max Verstappen
Liam Lawson





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