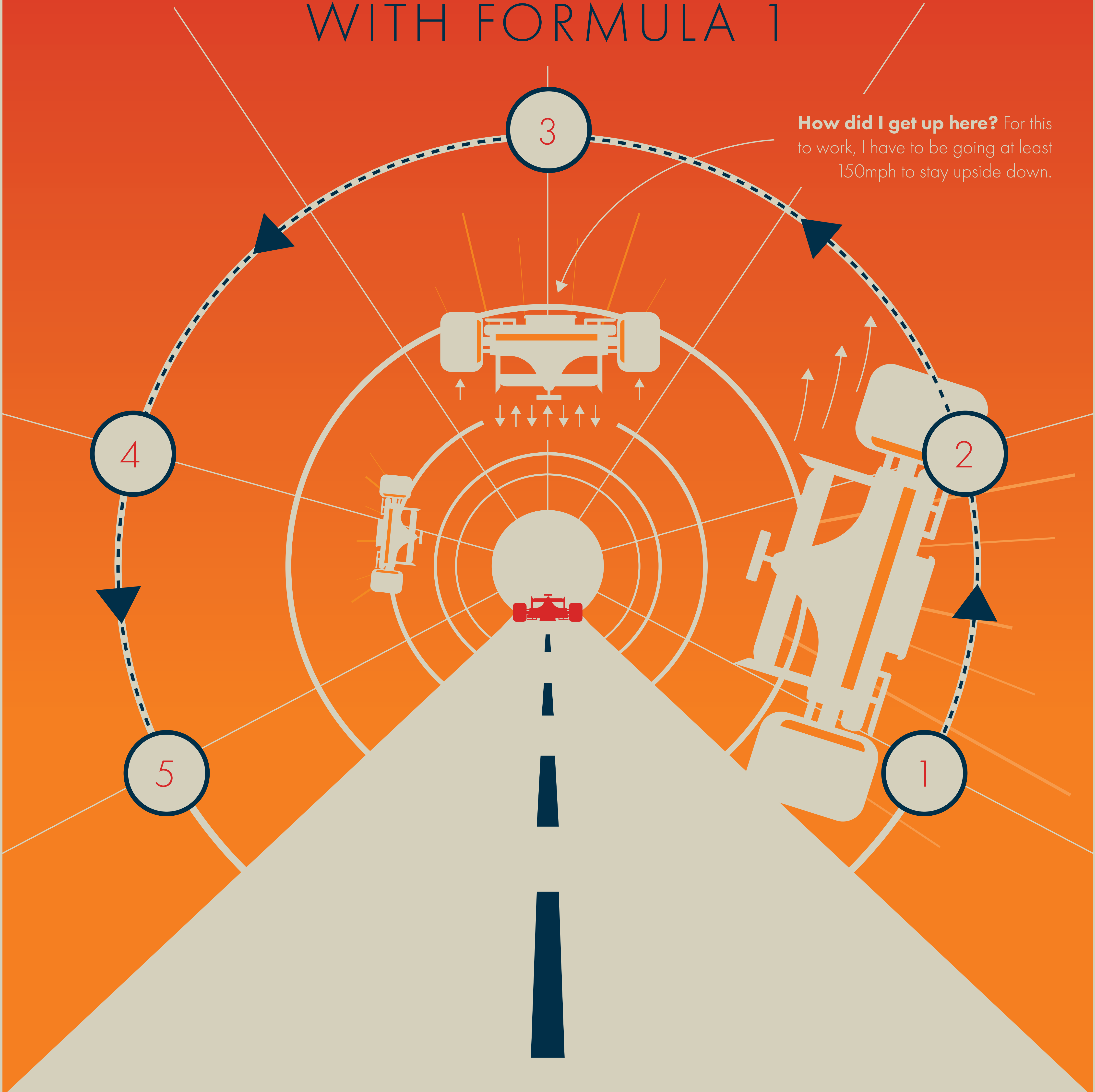


DEFYING GRAVITY

WITH FORMULA 1



How did I get up here? For this to work, I have to be going at least 150mph to stay upside down.

- 1. Aerodynamics are super important!** The design of the F1 car pushes air down as it drives, creating downward Force perpendicular to any surface.
- 2. Lateral Cornering Force** is created by the tires making contact with the road, which allows the F1 to “stick” to the tunnel walls as it drives. The higher the vehicles speed and weight, the greater the force.
- 3. Centripetal force is fighting** against our driver! This Force is trying to pull the vehicle towards the center, AKA the ground!
- 4. At top speed,** F1 cars create up to 5G’s of downward Force. At 100mph, my car weighs an extra 1,650lbs!
- 5. Aerodynamics and downward Force** allow the F1 car to fight against gravity and Centripetal Force. Lateral Cornering Force allows the car to turn up the tunnel wall, making this gravity-defying “magic” possible. All thanks to Physics!