

# User Manual: Formula 0.5

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## 1. Getting Started

### 1.1 Launching the Game

Launch the game by executing the server locally and going to [localhost:5500](http://localhost:5500)

### 1.2 Main Menu

1. Navigate the main menu using the mouse. Press the **Start** button to begin.
2. Select the car you want to use and press **Next**.
3. Select the car you want the bot to use.1st
4. Choose the difficulty by clicking on the respective button
5. Press **Next**

## 2. Game Controls

### 2.1 Car Control

- Accelerate: W key
- Brake/Reverse: S key
- Turn Left: A key
- Turn Right: D key

### 2.2 Interactions

- Pause Game: Spacebar
- Select: Mouse click
- Navigate Menus: Mouse

### 2.3 Picking and Placing Objects

- Pick Object: Click on the object
- Place Object: Select a location on the track

## 3. Gameplay

### 3.1 Racing Mechanics

- Steer your car using the W, A, S, and D keys.
- Avoid collisions with obstacles and the opponent's car.
- Collect power-ups for advantages.
- Complete three laps to finish the Formula 0.5 race.

### 3.2 Power-ups and Obstacles

**Collide with power-ups for benefits. These are the available power-ups:**

- **Lightning bolt:** Reduces elapsed time
- **Star:** Increases car speed

**Collide with obstacles for penalties. These are the available obstacles :**

- **Snowflake:** Increases elapsed time
- **Puddle:** Decreases car speed

### 3.3 Heads-Up Display (HUD)

Keep an eye on the HUD for:

- Elapsed time
- Number of laps
- Car speed
- Game status (running or paused)

### 3.4 Completing the Race

Finish three laps to complete the Formula 0.5 race. At the end, the display will show your name, elapsed time, and your final position (1st or 2nd).

## 4. End of Race

### 4.1 Viewing Results

After completing the Formula 0.5 race, results will be displayed, including:

- Difficulty level used
- Cars used (your and opponent's)
- Total player time
- Opponent's total time
- Indication of victory or loss

### 4.2 Special Effects

Watch the fireworks show at the end of the game