



CODE CHALLENGE
CHAMPIONSHIP

AI MISSION 2

CODE CHALLENGE CHAMPIONSHIP
SENIOR CATEGORY

20
24

Autonomous Car for a Special Journey

Overview:

A young boy, who uses a wheelchair, needs to visit three important places in his daily routine—**Home, the Hospital, and a Pizza Shop**. To make his life easier, you've been tasked with creating an autonomous car that can take him wherever he needs to go by recognizing pictures that he shows to the car's camera system. The car will use its vision to identify the destination and take him there automatically. Let's help him get to his destinations safely and efficiently!

Mission:

The game will simulate an autonomous car designed to assist a boy in navigating to three key places: **his Home, a Hospital, and a Pizza Shop**. At the start, the car will ask, **“Hmm... where do you want to go?” for 2 seconds, followed by “Please show me the place you want to go.”** Then the car's camera will open, and after 5 seconds, it will analyze the picture shown by the boy (representing one of the three destinations). Once the analysis is complete, the car will drive to the selected destination. After reaching the location (Home, Pizza Shop, or Hospital), the car will stay for 10 seconds before returning to the starting point, ready to receive the next command.

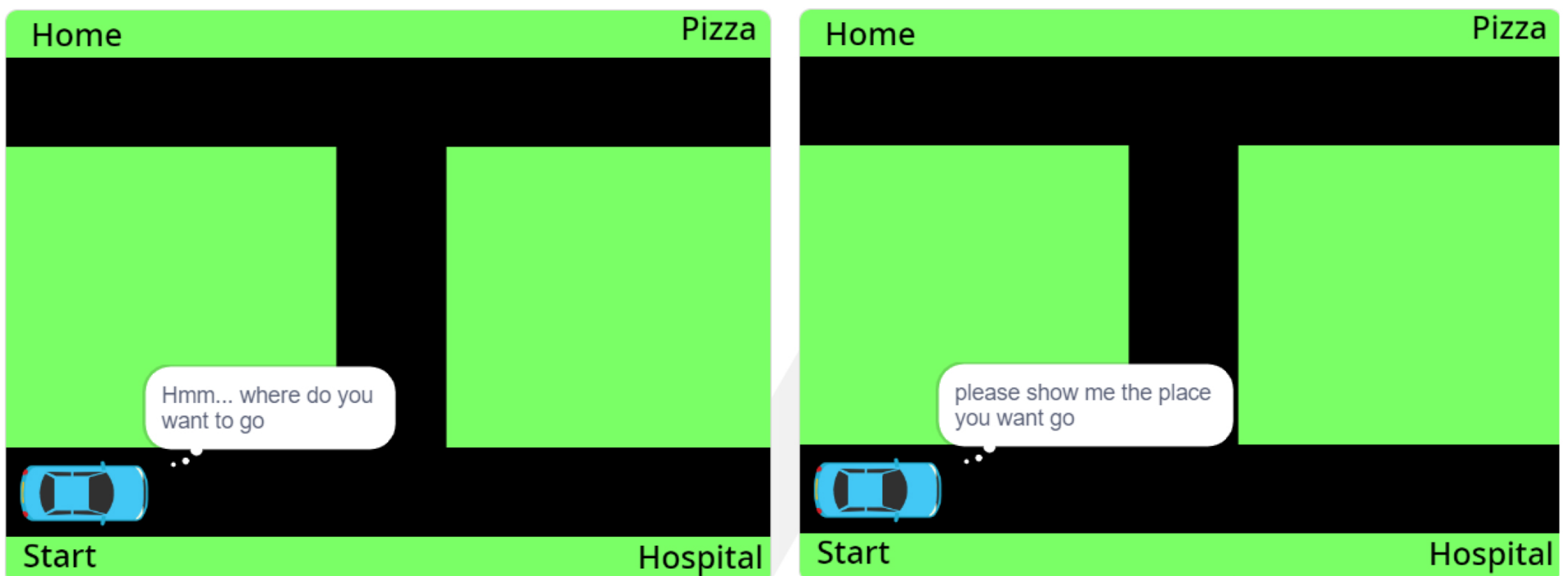
Useful Hints:

- Use Scratch 3 or PictoBlox to create this game.
- The car starts at the bottom left of the screen.
- The car system will verbally prompt the player by saying, “Hmm... where do you want to go?” and “Please show me the place you want to go.”
- The camera will open for 5 seconds to simulate image analysis. Based on the image shown (Home, Pizza Shop, or Hospital), the car will move to one of the three destinations.
- As a bonus, after reaching the destination, the car will wait for 10 seconds then return to the start position. The process repeats continuously, allowing the boy to show the car where he wants to go next.

Game Steps:

- **Step 1:**

The car starts at the bottom center of the screen. It will ask, "Hmm... where do you want to go?" for 2 seconds and then ask, "Please show me the place you want to go." The camera will simulate opening to "see" the image the boy shows.



- **Step 2:**

After 5 seconds, the camera closes, and the car will determine which destination to drive to based on the picture analyzed.

- If Home is recognized, the car will drive to the top-left corner.
- If the Pizza Shop is recognized, the car will drive to the top-right corner.
- If the Hospital is recognized, the car will drive to the bottom-right corner.

- **Step 3: Bonus Part**

The car will stay at the destination for 10 seconds before automatically returning to its starting position at the bottom left.

