

The Right Hook

Open one hint at a time. Try it before you open the next.

- Hint 1 — Think about it

Two sensors, two jobs. The **distance sensor** tells you when a wall is close (time to turn). The **color sensor** under the car tells you when you have *arrived*. A U-turn is two right turns with a short drive between. The turret stays **centred, facing forward** for now.

- Hint 2 — Which blocks to use

motor (D) go to position () degrees	Steers the back wheels. 0 = straight. Positive = right.
move forward for () cm	Rolls forward while the wheels are steered — that is your turn.
Make a Block: turn right	Bundles steer + roll + straighten into one reusable block.
wait until distance sensor closer than () cm	Finds the wall at the end of lane 1.
wait until color sensor sees (green)	Finds the finish tile.
play beep / set hub light	Your victory sound.

- Hint 3 — Plan in plain words

1. Drive to the wall and stop.
2. Turn right.
3. Roll forward one lane spacing.
4. Turn right again.
5. Drive until the color sensor sees green, stop.
6. Play the sound.

Watch out: Tune *turn right* on its own first: run only that block until the car ends up facing exactly sideways. Your stopping distance must be at least one turning radius, or the front will hit the wall mid-turn.

Keep going: Challenge → [mission-1-challenge.pdf](#) | Solution → [mission-1-solution.pdf](#)

The same content is in the matching .html files.