

## Turns out you should switch!

- If you switch, you get the car with probability  $2/3$ !
- Assume that the car is behind door C:

Original pick	Host opens	Switch to	Result
A	B	C	WIN
B	A	C	WIN
C	A or B	B or A	LOSE

- The reason this is paradoxical is we might think:
  - “All doors are equally likely, so how can we profit by switching?”
  - But note... the host is constrained to give us information!