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Human-Computer Interactive Game



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Overview

- Focus: Audio-Visual Perception
- Architecture: Online Studies
- Core Ideas:
 1. Escape Room Game
 2. Chinese Whisper Game

Escape Room Game

- Inspired by the game: We Were Here
- Two players are placed in two separate rooms, they can't see each other's monitor
- Player 1 relies on clues in Player 2's room to escape
- Player 2 relies on clues in Player 1's room to escape

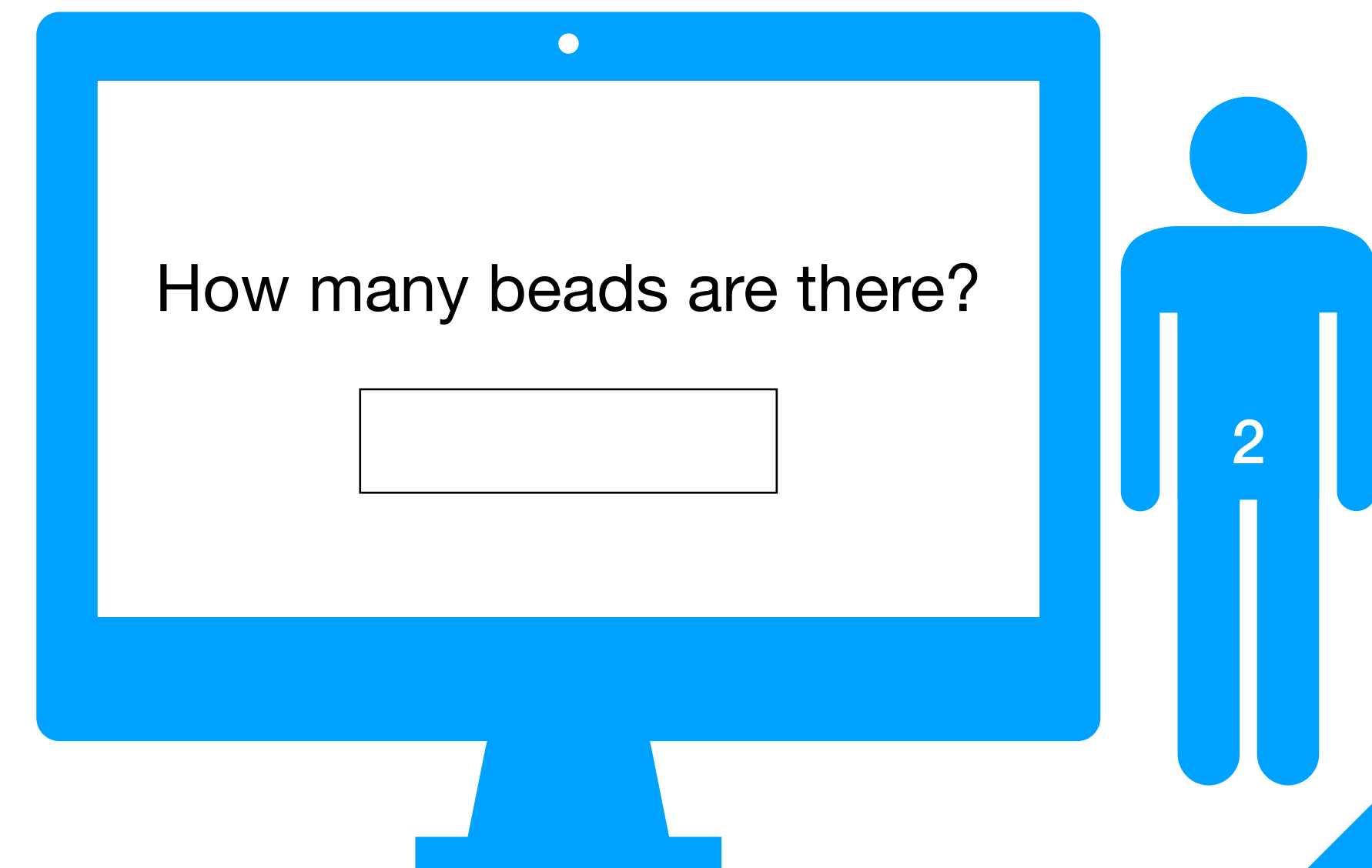
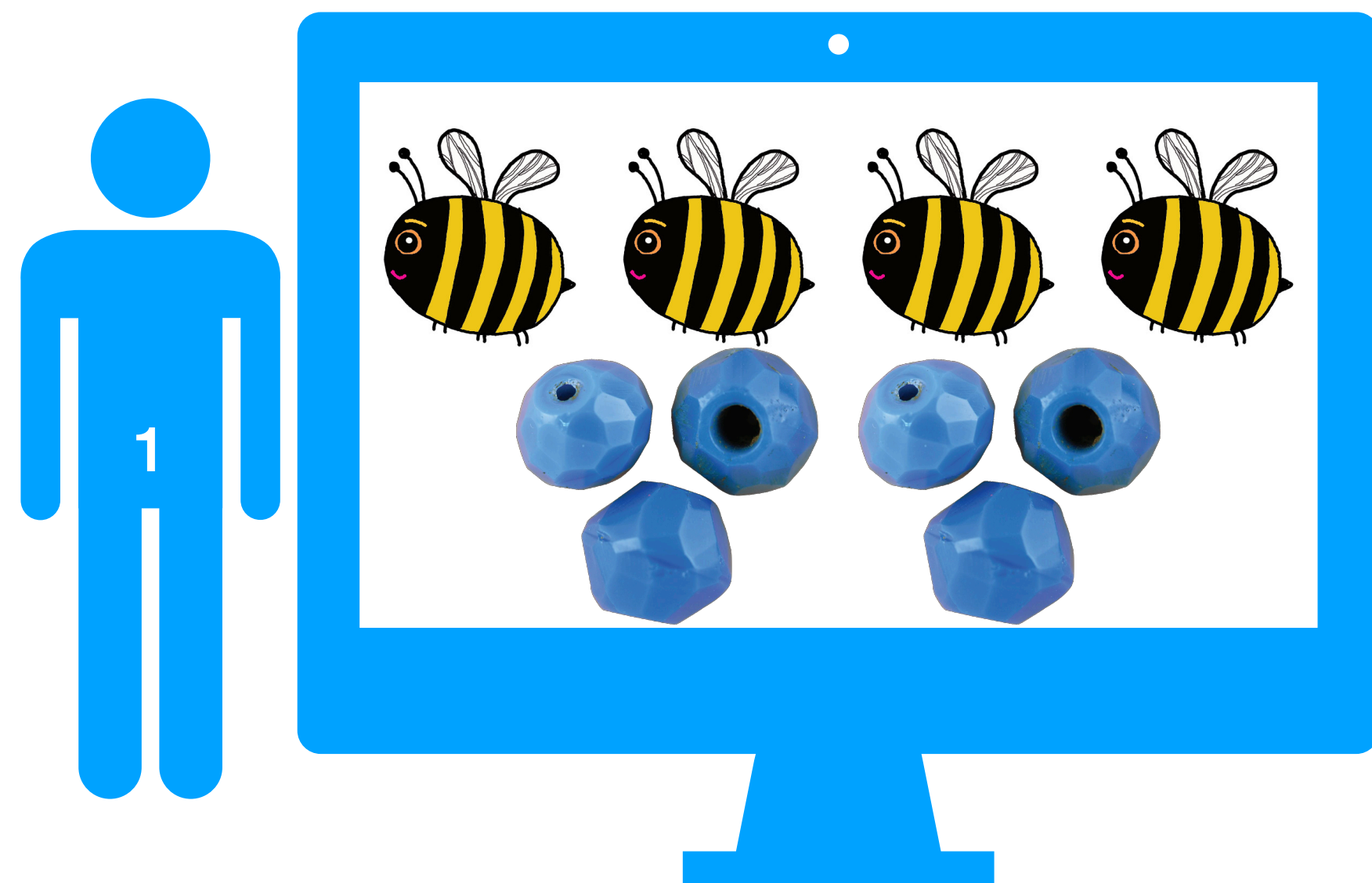
Escape Room Game

- Player 1 (Round 1)
 - Clue: the key is in the dessert.
- Player 2 (Round 1)
 - Picture of desert and dessert.

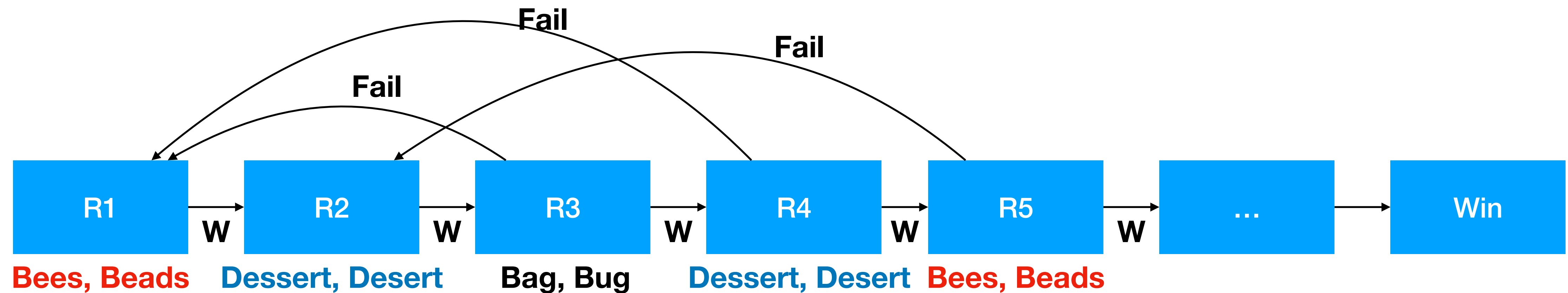


Escape Room Game

- Player 1 (Round 2)
 - Clue: the key is in the dessert.
- Player 2 (Round 2)
 - Clue: the password is the number of beads



Escape Room Game



- Player 1 and Player 2 will take turns in solving each other's problems
- They are also encouraged to avoid using alternative nouns to describe the scene.
- They must confirm their selection with the other player.
- If they fail, or violate the above rules, they go back to a previous game
The clue also changes randomly, so Round 1 was asking for "Desert", it could now ask for "Dessert"
- The same set of words are used couple times

Escape Room Game

- Player 1 (Round 1)
 - Clue: the key is in the dessert.
- Player 2 (Round 1)
 - Picture of desert and dessert.



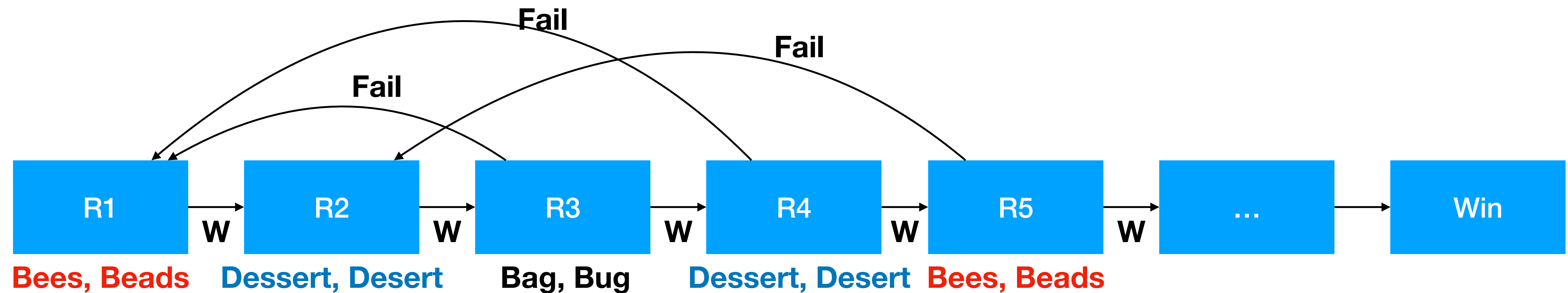
Escape Room Game

- Player 1 (Round 1)
 - Clue: the key is in the dessert.



- Bot: The key is in the desert.
- Player 2: Did you say desert or dessert?
- Bot: Allow me to clarify, desert.
- Player 2: OK, I will select desert.
- Bot: OK, desert is correct.

Escape Room Game



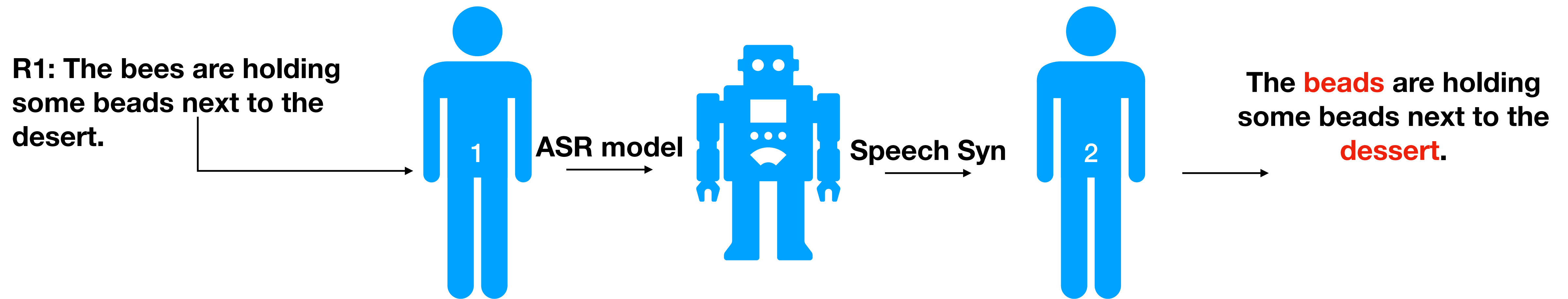
- Same rule as human interaction applies
- If the computer doesn't hear the human using the required words (e.g. neither "Bees" nor "Beads"), the round is failed.
- Player is then almost forced to articulate these words like the Bot.

Chinese Whisper Game

- Two human players, and a Bot
- For every story: A -> B -> C
 - Player 1 -> Player 2 -> Bot
 - Player 1 -> Bot -> Player 2
 - Bot -> Player 1 -> Player 2
 - Player 2 -> Player 1 -> Bot
 - Player 2 -> Bot -> Player 1
 - Bot -> Player 2 -> Player 1
- Objective:
 - A hears the story, whispers to B, B whispers to C, C writes it down
- Story: could be a 12 sentences story about bees beads bugs bags desert dessert.
- For each round, 1 sentence is used.
- If the final story is incorrect, continues the game with a different story, switch roles for A and B and C as well.

Chinese Whisper Game

- Story 1: A is Player 1, B is Bot, C is Player 2



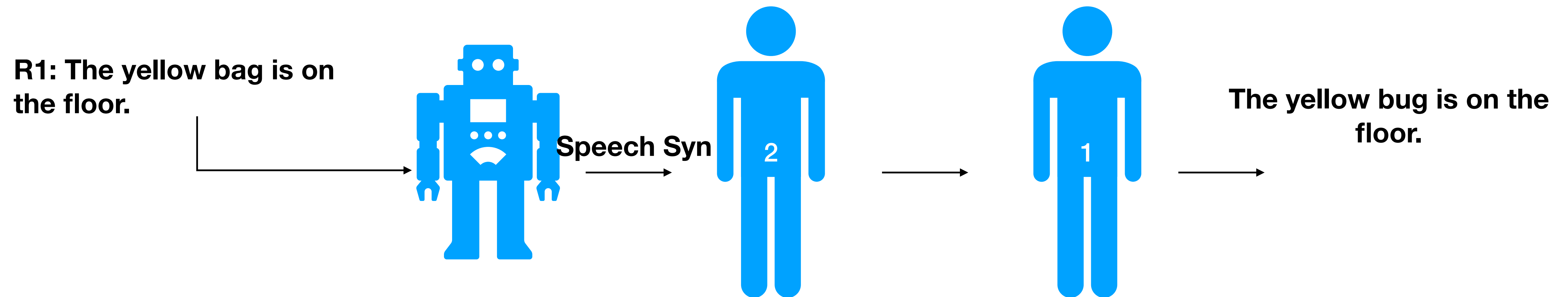
R2: The beads are then on top of the dessert.

R3: ...

Round 1

Chinese Whisper Game

- Story 2: A is Bot, B is Player 2, C is Player 1



R2: The blue bug is on the floor.

R3: ...

Round 1