

# Exercise: Tic-Tac-Toe

- Tic-tac-toe, also spelled tick-tack-toe, or noughts and crosses, as it is known in the UK, Ireland, Australia, New Zealand, is a pencil-and-paper game for two players, who take turns marking the spaces in a  $3 \times 3$  grid with the symbols X and O respectively. The X player usually goes first. The player who succeeds in placing three respective marks in a horizontal, vertical, or diagonal row wins the game.
- Extend this by adding a narrative about playing the game on an Android device:

Tic-tac-toe for Android will implement the Tic-tac-toe paper game as an Android app. In it, human users will be able to play Tic-tac-toe against the computer. Multiple games may be played in each session, with either the computer playing first or the human playing first on an electronic board that will be displayed on the device's touch screen. Scores for each session will be accumulated. If the user quits the session, scores will be reset.