Computer Games Exercises: 2022s s04 (non-physics)

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Answer header

Please put the author information in the header of all code files.

- name (Name)
- coauthor list

G04: Pong

Preparation

Please read the source code of the "Pong" game and understand the game logic.

Task

Please extend the game.

- Update the scene:
 - As the playground has a fixed size, the scene should not be resizable. Change this property in the project settings.
 - To add some additional stuff to the game, increase the scene height to 500.

- Add a panel to the scene to cover the extended space.
- Add four labels to count the points of the players, two on the left side of the new panel and two on the right side.
- On each side, use one label to show static text like "Points of Player A:", and use the other one to display the points during runtime.
- Add one label in the middle of the panel to show the final result.
- Add one button to the panel to restart the game.

· Update the script:

- Adjust the game so that the paddles can only move in the old area.
- Update the corresponding label points when the ball hits one end of the playing area.
- The ball starts randomly toward left or right whenever it is reset.
- The game ends when one player wins 3 points. In this case, the ball stays at the middle position, and the label in the middle should display which player wins the game.
- When the restart button is pressed, all objects in the scene are reset to the initial status.