Pong Pong Revolution

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Abstract

Pong is the video game that virtually created the genre almost 35 years ago. In this project, we plan to reinvigorate the classic by adding a human motion based controller. A video camera will film a player running back and forth in front of a wall, and through image processing, these movements will control the position of the player's paddle. A simple AI will control the computer's paddle, and a text overlay will display inspirational messages such as "Good Job!" or "Perfect!" based on a player's performance. Additional features, such as the ability to pick up powerups that slow down the Pong ball or increase the player's paddle length, will enhance the enjoyment of this classic game.