PyGame Tractor Pong Tutorial - Part 6

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Time required: 30 minutes

Preview of the Game

Atari. - the year: 1973 - the date: - November 29th -

That game is called Pong Then there was Tractor Pong.

Tractor Pong Demo Video



Revised: 3/30/2025

Collision Time

- 1. Save tractor_pong_5.py as tractor_pong_6.py
- 2. Add the check_collision method call to the game loop

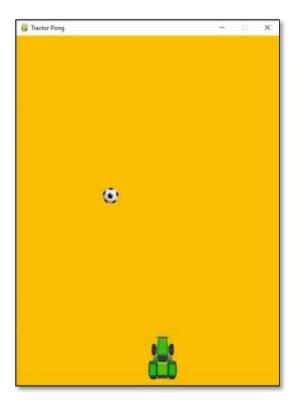
Add the check collision method.

Revised: 3/30/2025

```
# ------ CHECK COLLISION ------
          def check_collision(self):
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             """Check for collision between two rects"""
             # The ball has to be above the tractor to collide
             # Does the ball collide with the tractor?
             # If so, reverse the ball y direction [1]
             if (
                 self.tractor_rect.colliderect(self.ball_rect)
                 and self.ball_rect.bottom < self.tractor_rect.top + 4
             ):
                 # Reverse y direction
                 self.speed_y = self.speed_y * -1
                 # Randomly change x direction
                 direction = randint(0, 1)
                 if direction == 0:
                     self.speed_x = self.speed_x * -1
                 # Increase speed by 10% each time the ball is hit
                 self.speed_x = self.speed_x * 1.05
                 self.speed_y = self.speed_y * 1.05
```

Example run:

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The tractor is under control.

Time to finish our game with a game over screen, some sounds, and scoring.

Assignment Submission

- 1. Attach a screenshot showing the operation of the program.
- 2. Zip up the program files folder and submit in Blackboard.