

PyGame Tractor Pong Tutorial - Part 6

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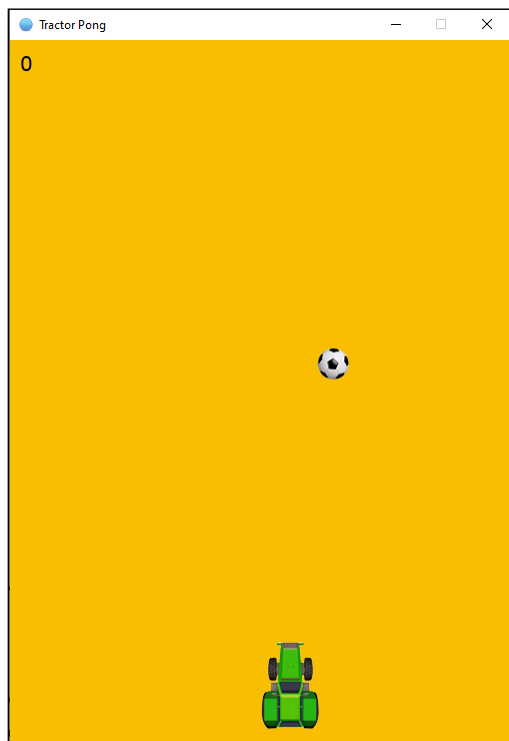
Time required: 30 minutes

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](#)



Collision time

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

```
63 # ----- GAME LOOP -----#
64 def game_loop(self):
65     """Infinite game loop"""
66     while True:
67         self.check_events()
68         self.update_tractor()
69         self.update_ball()
70
71         self.check_collision()
72
73         self.draw()
74
75         # Cap game speed at 60 frames per second
76         self.clock.tick(60)
77
```

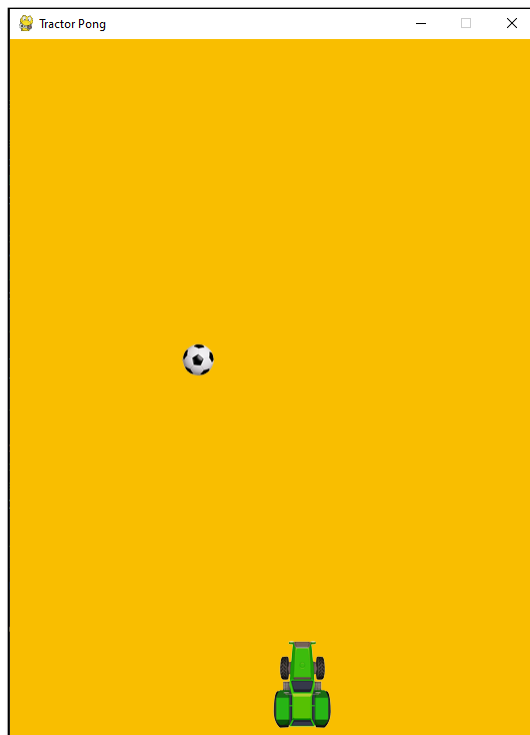
Add the check collision method.

```

254 # ----- CHECK COLLISION -----#
255 def check_collision(self):
256     """Check for collision between two rects"""
257     # The ball has to be above the tractor to collide
258     # Does the ball collide with the tractor?
259     # If so, reverse the ball y direction [1]
260     if self.tractor_rect.colliderect(
261         self.ball_rect
262     ) and self.ball_rect.bottom < self.tractor_rect.top + 4:
263
264         # Reverse y direction
265         self.speed_y = self.speed_y * -1
266
267         # Randomly change x direction
268         direction = randint(0, 1)
269         if direction == 0:
270             self.speed_x = self.speed_x * -1
271
272         # Increase speed by 10% each time the ball is hit
273         self.speed_x = self.speed_x * 1.05
274         self.speed_y = self.speed_y * 1.05
275

```

Example run:



The tractor is under control.

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

Assignment Submission

1. Attach all tutorials and assignments.
2. Attach screenshots showing the successful operation of each tutorial program.
3. Submit in Blackboard.