PyGame Pong Tutorial - Part 3

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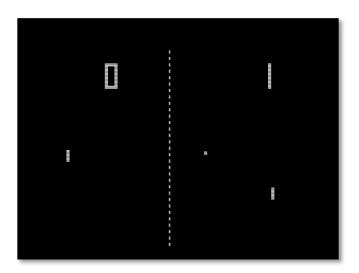
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Time required: 30 minutes

Preview of the Game

Atari. - the year: 1973 - the date: - November 29th - The game is Pong.

Pong Demo Video



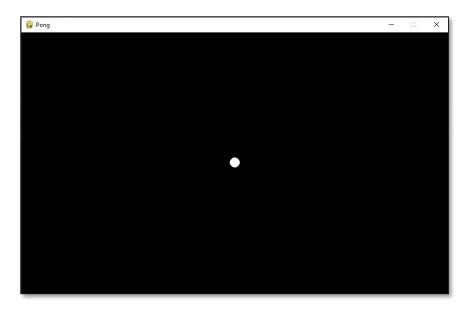
Yes, we are finally going to make something move. By changing the (x, y) values each time through the game loop, we animate our ball.

- 1. Save pong_2.py as pong_3.py
- 2. Add the following code.

```
class Pong:
   def __init__(self):
       # Initialize pygame library
       pygame.init()
       # Set screen width and height as a tuple
       self.surface = pygame.display.set mode(
           (config.WIDTH, config.HEIGHT)
       # Set window caption
       [pygame.display.set_caption("Pong")
       # Setup a computer clock object to keep the
       # game running at a constant speed regardless of computer speed
       self.clock = pygame.time.Clock()
       # Create the ball Rectangle object
        self.ball = pygame.Rect(
           config.WIDTH // 2 - config.BALL_RADIUS,  # Set x-coordinate
           config.HEIGHT // 2 - config.BALL_RADIUS,
                                                     # Set y-coordinate
           config.BALL_RADIUS,  # Set width of ball
           config.BALL_RADIUS
       # Movement of ping pong ball in pixels
       self.ball speed x = 3
        self.ball speed y = 3
```

```
---- GAME LOOP -
def game_loop(self):
   """Infinite Game Loop"""
   while True:
       self.check_events()
       # ----- DRAW ON BACKBUFFER ---
       # Draw everything on the backbuffer first
       self.surface.fill(config.BLACK)
       # Move the ball position every frame
       self.ball.x += self.ball speed x
       self.ball.y += self.ball speed y
       # Draw ball
       pygame.draw.ellipse(
           self.surface, # Surface to draw on
           config.WHITE, # Color to draw with
           self.ball
                         # Rect image object to draw
          ----- UPDATE SURFACE -----
       # From backbuffer, update Pygame display to reflect any changes
       pygame.display.update()
       # Cap game speed at 60 frames per second
       self.clock.tick(60)
```

Example run:



The ball moves . . . right off the screen.

Collisions are next.

Assignment Submission

Zip up the program files folder and submit in Blackboard.