PyGame Flappy Bird Tutorial - Part 5

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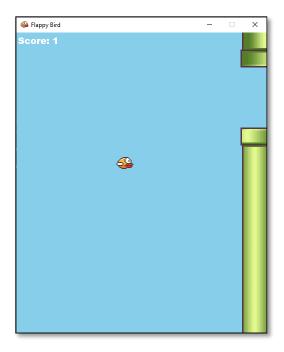
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Time required: 30 minutes

Preview of the Game

Here's a sneak peak of the game that we are going to work on.

Flappy Bird Demo Video



Reset the Pipes

We only get one set of pipes. Let's reset the pipes to have more pipes traveling across.

Save flappy_bird_4.py as flappy_bird_5.py

Let's add a **reset_pipes** method.

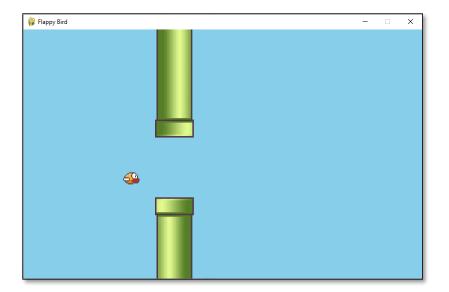
Call reset_pipes from the game loop.

Revised: 3/30/2024

```
---- GAME LOOP ----
118
          def game loop(self):
             """Infinite game loop"""
120
             while True:
                 self.check events()
122
                 # Simulate gravity by moving the bird down
                 # Reset gravity to 3 each time through the loop
125
                 gravity = 3
                 # Get list of keys being pressed
                 key_input = pygame.key.get_pressed()
                  # If up cursor pressed, move up 5 pixels
                  if key_input[pygame.K_UP]:
                     # Decrease gravity, the bird flies up
                     gravity -= 5
                  # ----- MOVE SPRITES ------
                  # Move the bird by adding gravity value to y location
                  self.bird rect.y = self.bird rect.y + gravity
                  # Move pipe images from right to left
                  self.pipe_upper_rect.left = self.pipe_upper_rect.left \
                     - self.pipe move
                  self.pipe lower rect.left = self.pipe lower rect.left \
                      self.pipe_move
                  # If the pipes are off the screen, reset them
                  if self.pipe upper rect.right < 0:
                      self.reset pipes()
```

Example run:

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You can fly your bird up and down and through the pipes. The pipes keep coming!

There are a few issues. The bird can fall off the screen or fly up to the sun. There aren't any collisions or score keeping.

Coming right up!

Assignment Submission

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