

# PyGame Flappy Bird Tutorial - Part 3

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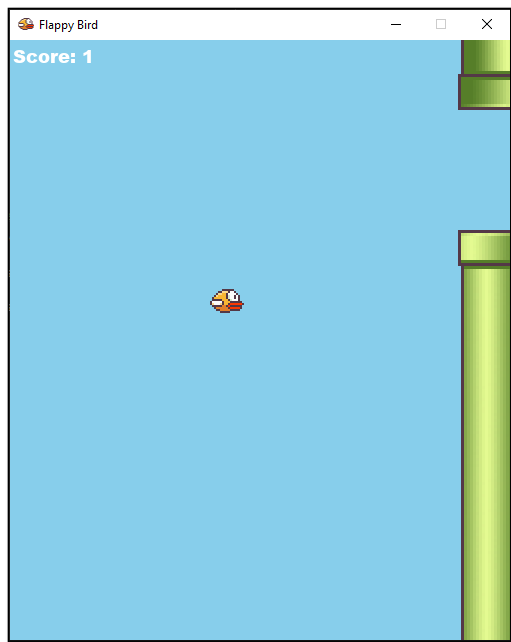
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Time required: 30 minutes

## Preview of the Game

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

[Flappy Bird Demo Video](#)



## Flappy Bird in Flight

We drew the background and the bird. It is time to fly!

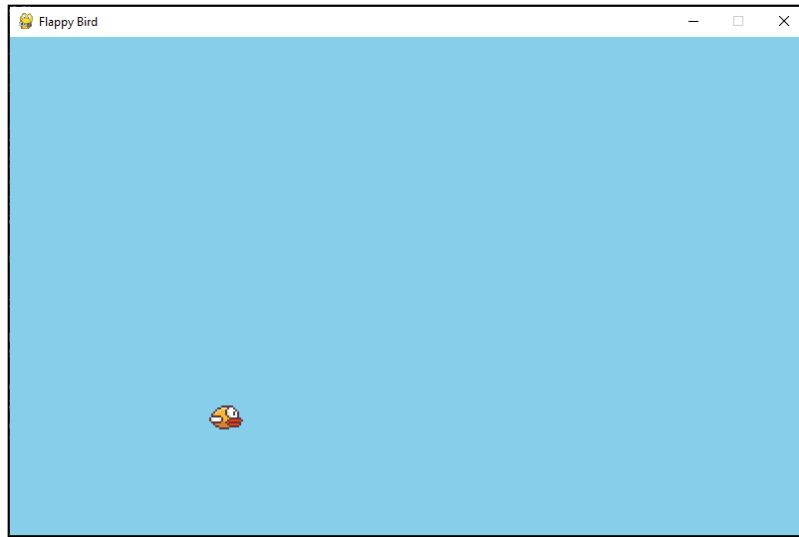
Save **flappy\_bird\_2.py** as **flappy\_bird\_3.py**

```

62 # ----- GAME LOOP -----#
63 def game_loop(self):
64     """Infinite game loop"""
65     while True:
66         self.check_events()
67         # Simulate gravity by moving the bird down
68         # unless the UP key is pressed
69         # Reset gravity to 3 each time through the loop
70         gravity = 3
71
72         # Get list of keys being pressed
73         key_input = pygame.key.get_pressed()
74
75         # If up cursor pressed, move up 5 pixels
76         if key_input[pygame.K_UP]:
77             gravity -= 5
78
79         # Move the bird
80         self.bird_rect.y = self.bird_rect.y + gravity
81
82         # ----- DRAW ON BACKBUFFER -----#
83         # Draw everything on the backbuffer first
84         # Fill the display surface with blue
85         self.surface.fill(config.SKY_BLUE)
86
87         # Draw bird to the backbuffer
88         self.surface.blit(
89             self.bird,      # Source image
90             self.bird_rect  # Destination location of image
91         )
92
93         # ----- UPDATE SURFACE -----#
94         # From backbuffer, update Pygame display to reflect any changes
95         pygame.display.update()
96
97         # Cap game speed at 60 frames per second
98         self.clock.tick(60)

```

Example run:



The bird goes up and down with the up cursor key on the keyboard.

Not very exciting . . . yet. Stay tuned for the next tutorial.

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## Assignment Submission

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